WEST SOIL & WATER

Additional Investigations

147 Burswood Road, Burswood WA

ELVEN PROPERTY

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Executive Summary

Background

West Soil and Water (WSW) was commissioned by Elven Property Pty Ltd (the Client) to undertake additional contamination investigations at 147 Burswood Road, Burswood Western Australia (the Site).

The Site historically operated as a service station and automotive mechanic, with service stations listed as 'potential contamination industries, activities, and land uses' as per the *Assessment and management of contaminated sites*, Department of Water and Environmental Regulation, 2021 (DWER, 2021). The Client proposes to redevelop the Site as a childcare centre.

An initial assessment was undertaken by WSW in March 2023 (report reference: 20230311_147 Burswood Road_Rev 0) with investigation outcomes indicating that low level contamination of site soils (benzo(a)pyrene, nickel, zinc), and potentially groundwater, had occurred. It was recommended that a Form 1 for the site (a reporting of known/suspected contamination) and the investigation report be submitted to the Department of Water and Environment Regulation (DWER) for comment.

Following submission, DWER updated the classification status of the site to 'Possibly contaminated – investigation required', with comment being that the site is current unsuitable to house a childcare centre until further site investigation can confirm the contamination status of the site.

DWER has requested that this investigation involve the additional characterisation of soil and groundwater quality onsite is undertaken prior to any withdrawal of the contamination classification. As such, the client has engaged WSW to undertake this investigation. Shandel Coleman (Luna Environmental) (the auditor) has been engaged as the Auditor on this project and will prepare a Mandatory Auditors Report (MAR).

Site Setting

The Site comprises of two discrete cadastral 'lots' which have essentially operated as a single lot since the 1960s. These two lots have a combined area of approximately 1,224m^2. Historically, the Site operated as a service station and automotive mechanic, however records indicate that the former underground storage tanks (USTs) were removed in 1997, and remaining site structures were demolished in 2022. The site has been used as a carpark since ~2010.

The site is currently vacant with the exception of some car parking along Burswood Road.

Proposed Use

147 Burswood Road it is currently zoned 'office/residential'. The redeveloping into a childcare centre will constitute a change to a more sensitive landuse. The redevelopment of the Site will most of the area being occupied by either the building footprint or sealed carpark, with the childcare centre itself being located on the first floor. A small, raised car park kerb is currently proposed in the north-eastern portion of the Site, which is anticipated to be the only potential location for planted vegetation.

Site Inspection

No significant information is presented form the site inspection. The site remains undeveloped and mostly sealed, with gated access and no site drainage system.

The cleared area has significant grass/weed coverage because of the assessment being undertaken in mid to late spring.

Soil Investigation

A targeted soil investigation was undertaken at the site which included the sinking of eleven (11) soil bores to varying depths, to a maximum recorded depth of 3.0mbgl. These soil bores further targeted areas of suspected fuel infrastructure (former USTs, fuel lines etc.) and former building footprint locations.

The generalised soil profile was a coarse grained, calcareous SAND which appeared to have been reworked along the western areas of the Site primarily, with rubble identified within the soil profile.

Soil samples were subject to infield screening for VOCs using a PID, with results indicating a negligible presence of volatile hydrocarbons in soil.

Soil Laboratory Analysis

Soils across the Site were subject to an initial analysis for a suite of COPCs including screen metals and metalloids (arsenic, cadmium, chromium (total), copper, lead, mercury, nickel, and zinc), TRH, BTEX-N, PAHs, Organochlorine (OC) and Organophosphorus (OP) Pesticides and Semi volatile Organic Compounds (SVOCs).

Laboratory analysis reported the majority of COPCs to be below the adopted assessment criteria, including HIL-A/HSL-A, EIL/ESL in an Urban residential areas and public open space, TRH Management limits for residential, parkland and public open space. This was with the exception of the following:

- TRHs (F3) exceeded the adopted ESL at two (2) locations;
- Benzo(a)pyrene exceeded the adopted ESL at three (3) locations;
- Aldrin and dieldrin (combined) exceeded the adopted HIL at one (1) location;
- Copper exceeded the site specific (Fresh) EIL at eleven (11) locations;
- Lead exceeded the HIL-A and the site specific (Fresh) EIL at three (3) locations;
- Nickel exceeded the site specific (Fresh) EIL at eight (8) locations;
- Zinc which exceeded both site specific (Fresh & Aged) EIL at fourteen (14) locations.

Previous Soil Investigations

Investigations undertaken in 2023 indicted the following:

- TRH, BTEX, Fuel oxygenates, Halogenated Aliphatic Compounds did not record any exceedance of adopted guideline, and in general, were below the laboratory PQL.

- Benzo(a) pyrene was detected above adopted ESL guideline at a total of 5 sample locations (between 0.5 and 1.5 mbgl). These results exceeded HIL-A guidelines at two sample locations, at 1.0 mbgl and 1.5 mbgl.

- Zinc exceeded EIL guidelines at 6 sample locations, between 1 mbgl and 1.5 mbgl.

Soil Risk Assessment

From a human health perspective, the reported lead Benzo(a) pyrene and combined aldrin/dieldrin result are considered to pose a low risk to future site occupants given the proposed development plan of the building which will result in the soil surface sealed below either the building footprint, carpark and/or adjacent walkways, with the childcare centre located on the first floor of the complex. As such, physical contact with affected soils is not considered possible upon development conclusion and no plausible link between contaminant and receptor can be identified.

While there is a partial exposure pathway for onsite workers during the excavation phase of development activities, which could present a moderate exposure risk, by preparing appropriate risk management procedures within a site-specific construction and environment management plan (CEMP), and implementing them, the site can be considered low risk. The CEMP should also

incorporate potential exposure to bystanders/pedestrians that could be at risk of exposure during excavation activities.

There is only one (1) location on the current plan where vegetation is likely to be grown (ornamental), in the northeast portion of the site (carpark raised kerb). As such, it is considered unlikely that chemical uptake by flora will occur. It is considered that exceedances of ecological guidance noted within site soils do not pose a risk to any nearby receptors or future use of the site, with additional reference to groundwater results.

Groundwater Investigation

Prior to this investigation, a network of three (3) preexisting groundwater monitoring wells (GW01-GW03) were present at the Site (installation date unknown). Based on comments by the site auditor, a fourth monitoring well (GW04) was installed adjacent to the western site boundary.

Groundwater Laboratory Analysis

Groundwater samples were subject to analysis of the same suite of COPCs as the soil samples, being screen metals and metalloids (arsenic, cadmium, chromium (total), copper, lead, mercury, nickel, and zinc), TRH, BTEX-N, PAHs, Organochlorine (OC) and Organophosphorus (OP) Pesticides and Semi volatile Organic Compounds (SVOCs).

The laboratory analysis reported most COPCs to be below the adopted assessment criteria, aside from:

- Zinc which exceeded its ANZAST, 2018 Fresh Water 95% assessment criteria at GW04 (newly installed western boundary bore).

Previous Groundwater Investigations

Investigations undertaken in 2023 indicted the following:

- TRH, BTEX, Fuel oxygenates, Halogenated Aliphatic Compounds and PAH were below the laboratory PQL in all (3) groundwater bores.
- Zinc exceeded the Freshwater guidelines at MW02 and MW03.
- Copper exceeded the Freshwater guidelines at MW01 and MW03.

Groundwater Risk Assessment

Within this investigation sampling event, elevated zinc was detected GW04, with this monitoring well situated cross-hydraulic gradient of the Site; therefore, the site may be the source of the zinc, noting however that the other three (3) wells recorded concentrations slightly below the guideline, suggesting zinc may be naturally elevated in local groundwater. This is assessment is compounded by zinc tending to not be a contaminant associated with petroleum or diesel.

The area surrounding the Site has been commercial/industrial since the 1960s/70s, which most likely has resulted in the deterioration of groundwater quality in the area. In terms of sensitive receptors, the artificial wetlands at GO Edwards Park are down hydraulic gradient, however, no exceedance of noted metals is observed in the groundwater bore down hydraulic gradient of the site.

While the Swan River is located down hydraulic gradient, it is at a distance of ~600m. Across this distance, any impacts originating from the Site would be subject to dispersion and diffusion, resulting in a reduction in concentrations of any COPCs. Therefore, the identified zinc exceedances are considered to pose a low risk to the Swan River, including its riparian zone.

It is considered that the site does not pose a risk to nearby ecological receptors.

Conclusions

Based on the investigation undertaken, the following conclusions have been drawn:

- Overall, it appears that the use of the Site as a service station and automotive mechanic has resulted in some contamination to the soil profile and minimal impacts to site groundwater.
- The soil analytical results indicted some exceedances of various adopted guidelines for TRH, PAHs (benzo(a)pyrene), OC/OPs (aldrin and dieldrin – combined) and metals (copper, lead, nickel, zinc). With these contaminants delineated.
- The groundwater investigation results indicted concentrations below adopted guideline levels with the exception of Zinc which was not noted down-hydraulic gradient of the site.
- The proposed redevelopment of the site will result in a mostly encapsulated (sealed site) with the most sensitive land use (childcare) located on the first floor of the proposed development. As such, no plausible linkage between exceedances of health investigation levels and site users can be ascertained.
- There may be some risk to future onsite workers excavating soils during development and adjacent pedestrians, the risk can be minimised to low through the design and implementation of appropriate risk management controls.
- No ecological risk is noted to exceedances of contaminants in site soils or groundwater, based on the proposed development. The risk from impacted groundwater is considered low and not noted to be migrating from site. The closest possible receptor would be deep rooted trees within GO Edwards Park. It is considered that trees in the park have likely adapted to a deteriorated groundwater quality, with the surrounding area being commercial/ industrial since the 1960s/70s. The next closest receptor is the Swan River, which is located at a distance of ~600m. Across the distance, any potential contamination originating at the Site would be subject to diffusion and dispersion, reducing its concentration and the risk the contaminant poses.

In summary, the site soils and groundwater have been appropriately investigated with reference to historical use of the site and consideration of the proposed development. The current design for the childcare centre and associated carpark indicates that most identified exceedances would fall beneath the footprint of the building or carpark areas, breaking the exposure pathway linkage.

Slightly elevated concentrations of dissolved zinc within the groundwater are not anticipated to pose a risk to local receptors (groundwater, surface expressions (Swan River), GO Edwards Park) based on dilution effect provided by groundwater (diffusion and dispersion) and the lack of significant receptors being directly adjacent to the site.

Based on these findings, it is considered that the site poses negligible risk to human health and environmental receptors both on and offsite.

Recommendations

Based on the findings of the investigation, the following is recommended:

- Based on the findings of the investigations undertaken, it is considered here that noted contaminants onsite are contained within the site and pose no risk to human or ecological health based on the proposed development, which would warrant re-classification to ‘decontaminated’ under the Contaminated Sites Act (2003).
- This report is to be submitted to the Auditor for preparation of a Mandatory Auditors Report.
- For any future site development works, a Site Management Plan (SMP) and/or Construction and Environmental Management Plan (CEMP) should be prepared to mitigate against any risk during construction activities.

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Glossary

The following abbreviations, chemical symbols and units of measure may appear in the report.

Acronyms

AHD	Australian Height Datum
ANZECC	Australian and New Zealand Environment and conservation Council
ASS	Acid Sulfate Soils
CoC	Chain of Custody
CSM	Conceptual Site Model
COPCs	Contaminants of Potential Concern
DBCA	Department of Biodiversity, Conservation and Attractions
DER	Department of Environment Regulation
DMP	Department of Mines and Petroleum
DEMIRS	Department of Mines, Industry Regulation and Safety
DWER	Department of Water and Environmental Regulation
DO	Dissolved Oxygen
DoH	Department of Health
DoW	Department of Water
DQO	Data Quality Objectives
DSI	Detailed Site Investigation
EC	Electrical Conductivity
EILs	Ecological Investigation Levels
ESLs	Ecological Screening Levels
HEPA	Heads of EPAs Australia and New Zealand
HILs	Health Investigation Levels
HSLs	Health Screening Levels
NEPC	National Environment Protection Council
NEPM	National Environment Protection (Assessment of Contamination) Measure
PSI	Preliminary Site Investigation
SAQP	Sampling and Analysis Quality Plan
ToC	Top of casing
TPS	Town planning Scheme
QA/QC	Quality Assurance and Quality Control
WHO	World Health Organization

Chemicals, Elements, Compounds and Descriptors

ACM	Asbestos Containing Material
AF	Asbestos Fines
BTEX	Benzene, toluene, ethylbenzene and xylene
CHC	Chlorinated Hydrocarbons

FA	Fibrous asbestos
MTBE	Methyl-tert-butyl-ether
PAH	Polycyclic aromatic hydrocarbons
PFAS	*Perfluoroalkyl and Polyfluoroalkyl Substances*
PCBs	Polychlorobiphenyls
TDS	Total dissolved solids
TRH	Total recoverable hydrocarbons
TOC	Total Organic Carbon

Units of Measure

cfu	colony forming units
ha	hectare
km	kilometre
L	litre
m	metre
m AHD	metres Australian Height Datum
m bgl	metres below ground level
mg/L	milligrams per litre
mg/kg	milligrams per kilogram
mL	millilitres
mTOC	meters below top of casing

1 Introduction

1.1 Background

West Soil and Water (WSW) was commissioned by Elven Property Pty Ltd (the Client) to undertake additional contamination investigations at 147 Burswood Road, Burswood Western Australia (the Site). The Site historically operated as a service station and automotive mechanic, with service stations listed as 'potential contamination industries, activities, and land uses' as per the *Assessment and management of contaminated sites*, Department of Water and Environmental Regulation, 2021 (DWER, 2021). The Client proposes to redevelop the Site as a childcare centre.

An initial assessment was undertaken by WSW in March 2023 (report reference: 20230311_147 Burswood Road_Rev 0) with investigation outcomes indicating that low level contamination of site soils (benzo(a)pyrene, nickel, zinc), and potentially groundwater, had occurred. It was recommended that a Form 1 for the site (a reporting of known/suspected contamination) and the investigation report be submitted to the Department of Water and Environment Regulation (DWER) for comment.

Following submission, DWER updated the classification status of the site to 'Possibly contaminated – investigation required', with comment being that the site is current unsuitable to house a childcare centre until further site investigation can confirm the contamination status of the site. DWER has requested that this investigation involve the additional characterisation of soil and groundwater quality onsite is undertaken prior to any withdrawal of the contamination classification. As such, the client has engaged WSW to undertake this investigation. Shandel Coleman (Luna Environmental) (the auditor) has been engaged as the Auditor on this project and will prepare a Mandatory Auditors Report (MAR).

1.2 Objectives

The objectives of this CSI were to:

- Further identify the extent of the contamination across the Site;
- Provide a thorough assessment of risk for the Site, from a contamination perspective, utilising a conceptual site model (CSM); and
- In terms of contamination, identify whether the Site has been suitably delineated from identified contamination impacts and can accommodate the proposed redevelopment without requiring remediation with respect to the risk assessment.

1.3 Scope of Works

To satisfy the aforementioned objectives, the following Scope of Works were undertaken:

- Review of available site history information (including WSW's initial Due Diligence report);
- Walkover and inspection of the Site;
- Sinking of eleven (11) targeted soil bores across the Site, with soil logging and sample collection;
- Collection of groundwater samples from the three (3) existing groundwater monitoring wells and one (1) newly constructed monitoring well;
- Preparation of a conceptual site model (CSM) and completion of a tier 1 risk assessment; and
- Preparation of this report.

2 Site Overview

2.1 Site Description

The Site comprises of two discrete lots (Lot 56 and Lot 57), which are located at 147 Burswood Road in Burswood Western Australia (WA). It is located approximately 3.5km east of the Perth Central Business District (CBD).

The cadastral extent of each lot is 612m^2, with a combined area of 1,224m^2. The Site Location and Site Layout are shown in Figure 1.

2.2 Certificate of Title

A summary of the current Certificate of Title (CoT) information is provided in the table below.

Table 1: Certificate of Title

Description	Lot 56	Lot 57
Land Description	Lot 56 on Plan 2722	Lot 57 on Plan 2722
Volume/Folio	1075/424	1075/425
Registered Proprietors	Ekta Holdings Pty Ltd	
Registered	22/09/2014	
Address	147 Burswood Road	
Local Government	Town of Victoria Park	

2.3 Zoning

Under the Town of Victoria Park, Town Planning Scheme No.1, the Site is zoned 'Office/Residential'. The surrounding land uses are zoned as follows:

- South:
  - Office/Residential; and
  - Residential.
- East and West:
  - Office/Residential.
- North:
  - Parks and Recreation.

2.4 Proposed Development

The proposed redevelopment of the Site will see the construction of a two-storey childcare centre.

Development plans provided by the client indicate the following (as shown in Image 1 and Image 2 below), and as presented in Appendix A.

- The footprint of the building occupies the most of Lot 56 and the southern portion of Lot 57 and will include an administrative office/reception, storeroom, bathroom facilities, lift and stairwell. The remainder of the ground floor site plan is to be carpark areas (sealed).

- The upper level (first floor) will house the childcare facilities, including playroom, an outdoor play area, and storage/laundry/bathroom and staff room.

- To facilitate the development, excavation of the shallow soils to permit the foundation design will be required.

Image 1: Draft Design Layout, Ground Floor

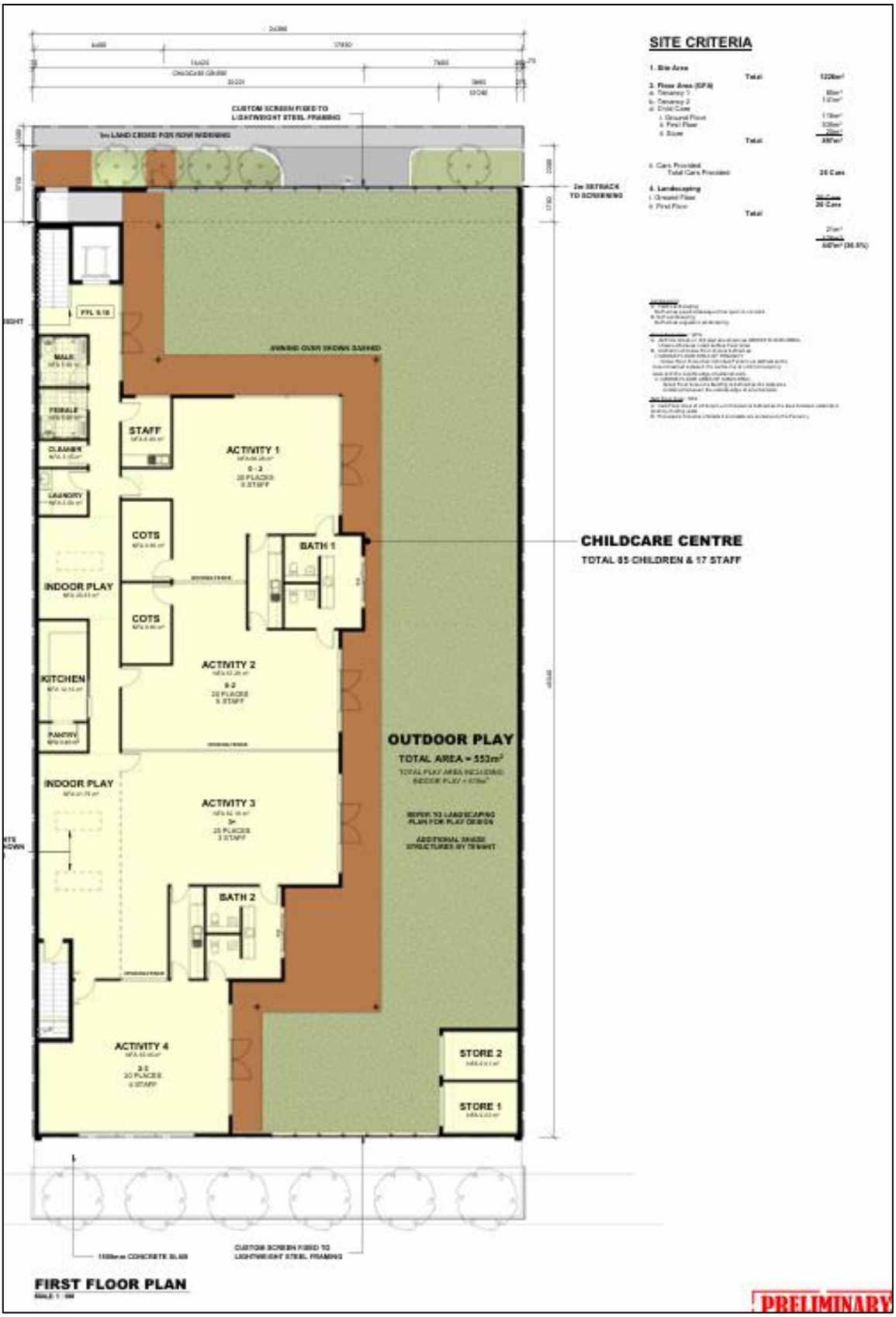

Image 2: Draft Design Layout, First Floor

3 Site History

3.1 Previous Investigations

An initial, limited due diligence contaminated sites investigation was undertaken by WSW in April 2023 with site soils and groundwater monitoring wells sampled and analysed. Results from this investigation indicated that soils at some locations exceeded the adopted ecological screening level (ESL) and health investigation level (HIL) for benzo(a)pyrene (a polycyclic aromatic hydrocarbon) and the ecological investigation level (EIL) for zinc. Exceedances of the adopted water criteria (Freshwater 95%) were noted for dissolved copper and zinc.

Additionally, an Environmental Due Diligence was completed in 2014 for Altitude Real Estate (*Environmental Due Diligence,* Lots 56 and 557 Burswood Road, Burswood WA, Envobis, 2014). This report, however, did not address the potential for contamination.

3.2 Historical Aerial Imagery

A review was undertaken of Landgate's online historical aerial imagery, dating back to 1953, which is the oldest available historical image online. The details pertaining to the review are summarised in the table below, with the aerial photographs presented in Appendix B.

Table 2: Historical Aerial Photographs

Year	Details
1953	**Onsite:** Imagery for this year was pixelated and difficult to identify key features. It appears that the southern portion of the Site is occupied by a building, whist the northern portion may still contain bushland. The quality of the photo makes this difficult to confirm, however. **Offsite:** Burswood Road exists along the southern boundary of the Site, whilst development exists to the east, south (across Burswood Road) and west. This development appears to be residential in nature. The northern area is undeveloped; however, the image quality makes this difficult to confirm any discernible features. The Armadale Rail line is present ~250m to the east of the Site.
1961	**Onsite:** Imagery for this year shows the Site has been developed into, what appears to be, a commercial property, with a building noted within the southern portion, likely representing a service station. This is primary situated within Lot 57; however, it does extend into Lot 56. It is difficult to identify key features within the northern portion of the Site, however, the area does look disturbed. This building was not identified within the 1953 photo and may suggest the building identified in 1953 was demolished; however, it is difficult to confirm due to the 1953 image quality. **Offsite**: The surrounding area is largely unchanged; however, it appears more commercial facilities exist to the east and west, suggesting a changing of land use from residential to commercial was occurring along Burswood Road. The properties to the immediate east and west still appear residential, however. Whilst the land to the north is still undeveloped, the area does appear disturbed with limited cleared vegetation and tracks/creek line.
1965	**Onsite:** Imagery for this year has not identified any significant changes. The image does show greater detail for the northern portion of the Site, showing it to be cleared except for vegetation along the northern and western boundary. **Offsite**: No significant changes were identified. The disturbed area to the north appears to be a creek lines and not tracks.
1970	**Onsite:** Imagery for this year shows the Site is relatively unchanged. **Offsite**: Commercial development continues in the surrounding area, with the residential property to the east now occupied by a large, commercial facility. The Great Eastern Highway

	has been developed by 1970, occurring 150m to the north of the Site. The land to the immediate north of the Site has been disturbed with numerous tracks.
1977	**Onsite:** Imagery for this year shows the Site is relatively unchanged. A number of cars were identified within the northern portion of the Site, primarily within Lot 56. **Offsite**: Commercial development continues in the surrounding area, on both side of Burswood Road. This has changed a number of residential areas to the west and south to commercial facilities. To the north of the Site, a large number of what appears to be stockpiles exist. The origin and composition of these stockpiles cannot be ascertained from the image; however, they may relate to excess soil from the Great Eastern Highway development.
1983	**Onsite:** Imagery for this year shows the Site is relatively unchanged. **Offsite**: The surrounding area is relatively unchanged. Development to the north of Great Eastern Highway is beginning to occur, with this eventually becoming the Burswood Development.
1989	**Onsite:** Imagery for this year shows the Site is relatively unchanged. **Offsite**: The immediate western site has become a commercial facility. Outside of this, the Burswood Development has been completed to the north of the Great Eastern Highway.
1995	**Onsite:** Imagery for this year shows the Site is relatively unchanged. **Offsite**: The surrounding area is relatively unchanged.
2000	**Onsite:** Imagery for this year shows the Site surface is fully sealed except along the northern boundary. Material that cannot be readily made out is stored along the eastern boundary. **Offsite**: The surrounding area is relatively unchanged.
2005	**Onsite:** Vegetation along the northern boundary has been cleared and the Site is fully hardstand. **Offsite**: The surrounding area is relatively unchanged.
2010	**Onsite:** The site appears to have undergone a level of redevelopment. Whilst the building has not been redeveloped, the site appears to have had new hardstand placed. **Offsite**: The surrounding area is relatively unchanged.
2011	**Onsite:** Whilst the Site remains relatively unchanged, a number of cars have been parked throughout the Site, whilst a number of containers are present in the north-western area of the Site. **Offsite**: The surrounding area is relatively unchanged.
2014	**Onsite:** The site appears relatively unchanged. They are fewer cars parked and the containers are no longer present in the north-western area. **Offsite**: The surrounding area is relatively unchanged.
2017	**Onsite:** The northern portion of the Site has been cleared of all vehicles whilst staining and possible surface flow has occurred across the Site. **Offsite**: The surrounding area is relatively unchanged.
2018	**Onsite:** A number of cars are parked throughout the Site, whilst staining of the hardstanding may be present along the western and eastern boundary, at the rear of the Site. Storage of unknown material is occurring along the eastern boundary, abutting the building. **Offsite**: The surrounding area is relatively unchanged.
2020	**Onsite:** The Site appears to be relatively unchanged. **Offsite**: The surrounding area is relatively unchanged.

2022	**Onsite:** The Site appears to be relatively unchanged, however, they are no cars parked around the Site. The unknown material abutting the building at the eastern boundary is no longer present. **Offsite**: The surrounding area is relatively unchanged.
2023	**Onsite:** The building has been demolished with exposed sand identified. The hard standing remains throughout the Site. Whilst the Site has been demolished, a large number of cars are parked across the Site. **Offsite**: The surrounding area is relatively unchanged. A large commercial redevelopment is occurring to the east of the Site.

3.3 Historical Ownership

A review of the Landgate Land Enquiry Service (LES) was undertaken to identify any historical landowners in an attempt to establish if historical potentially contaminating land uses/activities had always occurred at the Site. A summary of ownership details in provided below and in Appendix C.

Lot 56

Records suggest that Lot 56 was privately owned until August 1941 where it was sold to Edwin Clive Hunter, who owned the lot until it was sold to Ekta Holdings Pty Ltd in September 2014.

Lot 57

The first record of ownership shows Lot 57 was owned by Edwin Clive Hunter in August 1941. It was again sold to Ekta Holdings Pty Ltd in September 2014.

3.4 Local Government Records

A request for information to the Town of Victoria Park (ToVP) pertaining to the site was submitted on the 11/11/2024, and received by WSW on 26/02/2025. The request was made with reference to records pertaining to the following:

- Inspection records;
- Construction/design records (including layouts for fuel storage or pumps); and
- Environmental complaints/Incidents.

The response from TOVP indicated the following (email received 26/02/2025 from the ToVP information Management Coordinator):

"Please find attached the only records I have been able to locate in relation to your Freedom of Information (FOI) application. It has been quite challenging to locate any records detailing the location of the fuel pumps.

As background, the property was initially under the control of the City of Perth when the fuel station was first developed. All records from that era were transferred to the Town; however, despite thorough searches, I have been unable to locate any relevant records.

The Town has no copies of inspection records available, and there are no environmental complaints or incidents on record pertaining to this matter."

The ToVP provided four documents (Appendix D), and summarised below:

- Letter dated 9th April 1996. Approval for development pertaining to radiator and mechanical repair facilities.
- Site Layout, presumed to be related to the letter dated 9th April 1996.
- Letter dated 9th February 2010. Approval for development pertaining to use of the site for 'unlisted use – carpark' for use by the Perth Montessori school. The approval is for car-parking only, no use of repair facilities.
- Demolition application letter dated 9th March 2022. In relation to confirmation of no gas subsurface infrastructure being present on-site.

Of additional note within provided records is the presentation of a small structure labelled 'W/C' in the norther portion of the site. The consultant notes a similar (unlabelled) structure was present in previous investigation DEMIRS records. Some uncertainty is maintained in comparison to the DEMIRS documentation.

3.5 Contaminated Sites Database

The Department of Water and Environmental Regulation (DWER) currently records information of contaminated sites within WA on the Contaminated Sites Database, in accordance with the Contaminated Sites Act 2003 (CS Act). All sites of known or suspected contamination reported to DWER are classified under the CS Act as one of the following:

- Report not substantiated;
- Decontaminated;
- Possibly Contaminated – Investigation Required;
- Not contaminated – restricted use;
- Contaminated – Restricted use;
- Contaminated – remediation required; or
- Remediated for restricted use.

Of the above, only the last three bullet points are publicly displayed on the DWER Contaminated Sites Database.

As of the 25th of July 2024, the site has been classified by DWER as 'Possibly contaminated – investigation required'.

3.6 Freedom of Information

A Freedom of Information (FOI) request was submitted to the Department of Mines, Industry Regulation and Safety (DEMIRS) and DWER pertaining to the following:

- DWER – Site Classification Status (Appendix E); and
- DEMIRS – Licences to store flammable liquids/dangerous goods, underground tanks, fuel pumps and storage of liquified petroleum gas within the Site, spills, complaints or any documents relating to contamination or pollution (Appendix F);

Information supplied by DEMIRS at the time of reporting highlighted suggested that four (4), 18.3 kL underground storage tanks (USTs) were located within the bounds of the Site, and were licensed to Ampol Ltd. Decommissioning of these tanks was requested in 1996, when there was a change of tenant at the Site. Information provided showed that the tanks were removed and disposed of by Petroleum Systems in April 1997.

Conflicting information within the License made mention to 3 x Class 3 (petrol) USTs, all 4kL in size. These tanks were located within the western portion of the Site, as per the following image. WSW is unsure if this is an error in the License.

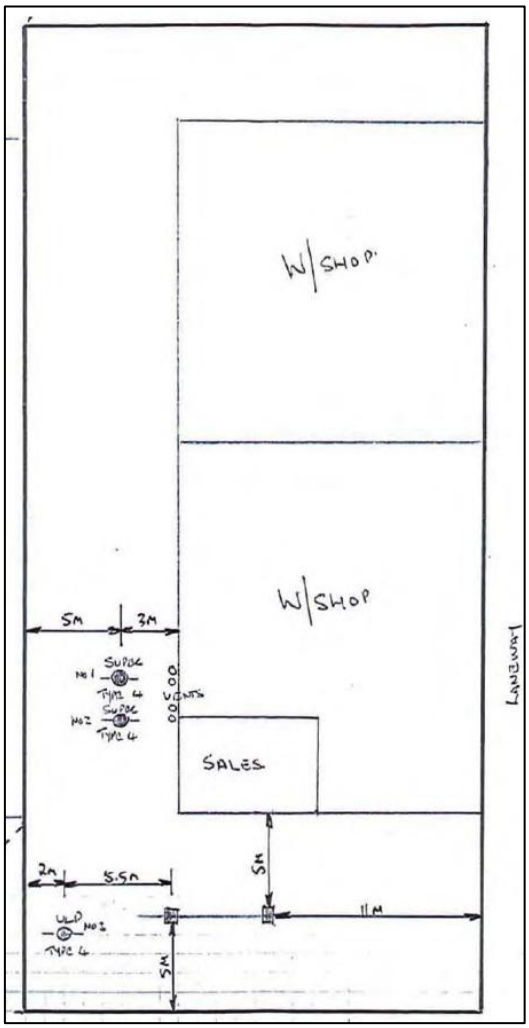

Image 3: Proposed Class 3 USTs

3.7 Heritage

3.7.1 Aboriginal Heritage

A search for relevant Aboriginal Heritage was conducted by using the Department of Planning, Lands and Heritage (DPLH) online Aboriginal Heritage Inquiry System, which incorporates both the Heritage Site Register and Heritage Survey Database. These databases list the following Sites:

- Registered Aboriginal Sites;
- Other Heritage Places;

- Heritage Survey Areas.

The Site is not listed as a registered Aboriginal heritage Site.

3.7.2 European Heritage

An online search of the heritage Council of WA (HCWA) database using the inHerit portal found that Site is not registered as a European heritage site.

3.8 Historical Summary

With reference to the previous investigation, the following is presented:

- The site operated as a fuel station with known workshop facilities approximately between 1965 and 1997. Detailed operations (such as the location of interceptor traps or soak wells) would not be ascertained.
    - DEMIRS records indicate 'make safe' of underground fuel tanks around 1996, indicating the service station and workshop land use ceased around this time. Final removal is known to have occurred in 1997.
- It is assumed the site sat abandoned prior to the use of the lot(s) are overflow carparking for the Perth Montessori school from ~2010.
- Demolition of site building occurred in 2022. The site has continued to be used for overflow car parking in this time.

4 Site Attributes

4.1 Topography

The Site is shown to be relatively flat sitting at approximately 5m Australian Height Datum (AHD). This was confirmed during the Site inspection, with the Site identified as being relatively flat.

4.2 Site Setting

The majority of the Site is hardstanding with the exception of the footprint of the former building, which has exposed soil.

4.3 Geology

The 'Interpreted bedrock geology 1:500,000' map, supplied by DEMIRS, showed the underlying regional geology to be the following:

- Coolyena Group.

This unit is described as 'chalk, greensand, glauconitic sandstone, siltstone, marl; characteristically glauconitic'.

4.4 Regolith Geology

The 'Regolith of WA – 500 metre grid map, supplied by DEMIRS, identified the soil profile across the Site to be as follows:

- Sandplain, mainly eolian; includes some residual deposits.

4.5 Hydrogeology

The Perth Groundwater Atlas (https://maps.water.wa.gov.au/Groundwater/) indicates that the depth to groundwater is ~3 mbgl, with a saturated thickness of between 17m and 22m. The atlas also suggested groundwater is flowing in a north-westerly direction towards the Swan River.

Further information presented within the atlas identifies the underlying aquifer as the Bassendean Sand, whilst groundwater was reported to be of 'marginal' quality with a Total Dissolved Solids (TDS) value of 1,000mg/L to 1,500mg/L.

As per the Water Information Reporting Database (https://wir.water.wa.gov.au/Pages/Water-Information-Reporting.aspx), they are no registered bores within the Site; however, a total of three groundwater monitoring wells are known to exist within the confines of the Site. These monitoring wells are for periodic sampling of groundwater and do not operate as a source of water (i.e., production wells).

Outside of the Site, and down hydraulic gradient, a total of four registered bores were recorded within 200m. These bores are situated within GO Edwards Park and were installed in 1969. If they still exist, it is probable that they are used for irrigation purposes. Further afield, a large number of bores exist within the Burswood precinct ~500m to the northwest.

Under the Rights in Water and Irrigation Act, 1914 (RIWI Act), proclaimed groundwater areas in WA are areas where licences are required to construct or alter a well and to draw groundwater. The Site and surrounding area are located within the Perth Groundwater Area and as a result, a licence is required to draw groundwater at the Site.

4.6 Hydrology

No surface waterbodies are present across the Site, with the nearest being the engineered wetlands located within GO Edwards Park. These wetlands are located ~80m north of the Site. Outside of this, the Swan River is located 600m northwest of the Site.

Due to the presence of hardstanding across much of the Site, heavy rainfall would likely result in sheet flow, with infiltration only occurring within the footprint of the former building, where soils are exposed.

4.7 Acid Sulfate Soil

Acid Sulfate Soils (ASS) are naturally occurring soils that contain iron sulfides (iron pyrite) minerals that, if disturbed by soil excavation, dewatering or drainage, can oxidise resulting in the release of acidity, potentially causing adverse environmental impacts.

The 'Acid Sulfate Soil Risk Map, Swan Coastal Plain', supplied by DWER, shows the Site is in an area of 'high to moderate' risk of ASS occurring within 3m of the natural surface. Additionally, the Perth Groundwater Atlas described the underlying soil profile to be 'Bassendean Sand'. This unit is a known ASS.

Note: An ASS Investigation was completed in conjunction with this CSI. For ASS Risk, please consult this report (reference 20230311_147 Burswood Road_Acid Sulfate Soils, WSW 2023). ASS is not discussed further within this CSI bar providing a brief summary of the outcome of the ASS investigation.

This report indicated the following:

- A total of four (4) primary soil sample locations were undertaken utilising a drill rig for the purpose of this investigation based on the size of the site and with reference to DWER guidance. In general, the soils encountered on-site were SAND, coarse, sub rounded and grey. Some mottles of brown, dark grey is noted. Water was generally noted at 1.7-1.8 mbgl across the site. No significant soil horizons are noted across the site, only colour changes at no specific intervals.

- Field observations did not note any visual or odorous indicators of ASS. Field samples indicated the field pH of all samples ranged from neutral to alkaline, indicating natural acidification buffering capacity. Delta pH generally indicates a limited potential for oxidation, and with a minimum pH_{fox} value of 4.90, and a minimum pH_f value of 6.50 (guideline value <4.0) results indicate no Actual ASS (AASS), negligible possibility for Potential ASS (PASS), limited potential for oxidation and high buffering capacity.

- Of 15 primary samples laboratory analysed, no exceedance of criteria values for Chromium Reducible Sulfur Suite of Analysis (S_{CR}) was recorded. This indicates no risk of acidification potential at these locations. Acid Neutralising Capacity (ANC) values were higher than net acidity values for all the samples analysed. No risk of acid generation by the soils is further reflected in high values for ANC and the low values for net acidity (below PQL for all

samples).

- All S_{CR} suite results for all samples indicated soils having a larger neutralising capacity than acidity generation capacity. Titratable Actual Acidity (TAA) were generally below laboratory PQLs for all samples indicating sufficient acidity buffering capacity. A QA (triplicate sample) indicated a recordable Titratable Actual Acidity (TAA) result, though this was below guideline levels. The limited potential of soils being PASS in nature based on field testing is not supported by the laboratory results with no exceedances of the DWER guidelines for ASS.

- It is considered that no indicators of AASS or PASS were identified throughout this investigation. Development of the site proposes disturbance to a depth of 1.5 mbgl only and as such would not result in the need for any exposure of groundwater or dewatering activities based on recordable groundwater depths on site.

- The soil investigation is considered extensive for the area of excavation identified as the site. The sample density carried out in this investigation is in accordance with DWER guidance. As such, it is considered that a high level of confidence can be applied to the results.

- Field and analytical analysis of soil throughout the soil profile to a depth 1 m below that of final excavation depth (2.5 mbgl total) indicated no potential for ASS, and no exceedance of DWER guidance values. The DWER texture-based ASS 'action criteria' refer to net acidity for a given volume of ASS disturbance. If the ASS action criteria are exceeded by any sample result, an ASS Management Plan (ASSMP) will need to be developed and implemented for disturbance of ASS at a site (DWER 2015a). In line with DWER guidelines, it is noted that no ASSMP will be required for these works.

5 Data Quality Objectives

The following section identifies the data quality objectives (DQOs) for the sampling program in accordance with the National Environmental Protection Council (NEPC) National Environmental Protection (Assessment of Contamination) Measure 1999 (as amended May 2013) (NEPM, 2013). The DQOs were developed to ensure the collection of sufficient data to determine the risk to human health, environment and environmental values. The DQO process is presented in the following sections:

5.1 State the Problem

The Site was historically utilised as a service station and mechanical workshop. Service stations and mechanics are listed in the *Assessment and management of contaminated sites*, DWER, 2021 (DWER, 2021) as potentially contaminating land uses. The client has proposed the redevelopment of the site into a childcare centre.

Based on the outcomes of the due diligence investigation undertaken by WSW in 2023, which identified the presence of benzo(a)pyrene and zinc in soils at concentrations greater than adopted criteria, in addition to the presence of copper and zinc in groundwater at concentrations greater than the freshwater criteria, DWER has classified the site as 'Possibly contaminated – investigation required'. As such, the site is not considered suitable for housing a childcare centre until further investigation of the site's soil and groundwater has been completed. Submission of this assessment may provide cause for reclassification of the site.

5.2 Identify the Decision/Goal for the Study

This DQO was developed to ensure that the site was appropriately investigated to the necessary detail to satisfy DWER's requirements regarding the extent of site contamination and the potential health and environmental risks posed by the site.

The overall goal of the assessment is to delineate any observed environmental impacts from appropriately distributed soil bores across the site and assess whether groundwater has been adversely affected.

5.3 Identify inputs to the decision

5.3.1 Base Inputs

This DQO has been developed to ensure sufficient samples are collected, appropriately distributed across the Site, to reliably assess Contaminants of Potential Concern (COPCs) and their mobility and toxicity. The following were considered:

- Sampling Medium:
  - Soil; and
  - Groundwater.
- Identification of likely COPCs;
- Adoption of relevant soil and groundwater criteria;
- Toxicity of COPC and their persistence in the environment;
- Types, depth and distribution of contamination at the Site;
- Determination of the Site's suitability for use as a childcare centre;

- In the event that contamination is detected, an assessment of the transportation and exposure of the contaminant; and
- Identification of potential receptors and sensitive environments.

5.4 Define the boundaries of the Investigation

The aim of the investigation was to assess the contamination status of soil and groundwater within the confines of the Site. Laterally and vertically, the soil investigation was confined to the near surface soils, whilst groundwater was confined to the initial aquifer within the soil profile.

5.5 Devine the Analytical Approach

The decision rules for the project are based on the analysis of the sample media and potential receptors, which in turn lead to the selection of appropriate assessment criteria. This is discussed further in Section 7.

The DQO was to compare soil against the relevant NEPM, 2013 guidelines for the specific land use scenario, as well as the CRCcare Hydrocarbon Dermal Contact guidelines. Groundwater was compared against the relevant DWER, 2021 and Australia and New Zealand and Australian State and Territory Governments (ANZAST), Fresh and Marine Water Quality Guidelines, 2018 (ANZAST, 2018), as well as the World Health Organisation (WHO) Petroleum products guidelines. This was to enable the completion of a risk assessment for the Site. If COPCs at the Site were found to exceed the relevant assessment criteria within the specified guidelines, then the need for additional risk assessments, remediation and/or management controls were detailed.

Quality Control (QC) results were evaluated according to the Relative Percentage Difference (RPD) values between the primary and replicate samples. For field duplicate/triplicate samples and laboratory control samples, RPDs should be relative to the results and the laboratory Practical Quantification Limits (PQLs), as indicated in the table below:

Table 3: Acceptable RPD Limits

Magnitude of Results	Acceptable RPD Ranges
<10 x PQL	No Limit
10-20 x PQL	0-50%
>20 x PQL	0-20%

Acceptable limits for other QC samples are as follows:

- Trip blank – concentrations of analytes to be below PQLs;
- Rinsate – concentrations of analytes to be below PQLs;
- Method blanks – recovery between 70-130%;
- Matrix spike – recovery % range dependent on the analyte;
- Matrix spike duplicates – recovery % range dependent on the analyte; and
- Surrogate spikes – recovery % dependent on the analyte.

5.6 Specify the performance or acceptance criteria

An integral part of the DQO is specifying the decision-making errors in which incorrect decisions are made based on the data that does not represent Site conditions. As outline in NEPM, 2013, there are two types of decision errors:

- An insufficient sampling program (i.e., inadequate sampling density) resulting in the inability to satisfactory characterise the presence of contaminants across the Site; and
- Errors occurring during the collection, handling, preparation and analysis of samples.

Consequences of these decision errors include:

- Concluding that the Site is contaminated when it is not; and
- Concluding that the Site is not contaminated when it is.

Concluding that the Site is not contaminated when it is would result in a more severe consequence given that the risk of adversely impacting human health and the environment outweighs remediation costs.

5.7 Optimisation of Data

The soil sampling density was developed based on our understanding of the Site from the initial due diligence investigation, available site history information and additional guidance from the nominated site auditor. The approach adopted was via targeted soil assessment across the Site, targeting areas suspectable to contamination (locations of former USTS and fuel lines etc.) while also ensuring sufficient sample distribution.

The groundwater assessment was undertaken utilising the three (3), previously installed groundwater monitoring wells, in addition to a fourth that was positioned downgradient of the USTs as a means of identifying any contaminant migration towards surface waterbodies that originated from UST-related soil impacts.

Soil and groundwater sampling methodologies are summarised in Section 8, with analysis outcomes presented in Sections 9 and 10.

6 Site Walkover

A site inspection was undertaken by an experienced Scientist on for the original CSI on 13th April 2023. The following is a summary of the information collated from the site inspection, and photographs are presented in Appendix G.

- The site is undeveloped and mostly sealed with hardstand concrete and bitumen, with a cleared (sand area within the footprint of the historical building).
- Parking of vehicles, on the front boundary of the site only is noted.
- No on-site drainage was noted.
- Hardstand is noted as being in good to fair condition.
- The site is fenced, with gated access on the southern boundary of the site from Burswood Road.
- No surface waters were identified on the site.
- Some remnant materials (a portable toilet, and some bins) are noted along the western boundary of the site.

A subsequent site inspection was undertaken on 30 October 2024 for the additional investigation. The following is a summary of any changes to the site:

- Significant plant coverage over the cleared area. Limited change to the site otherwise noted.

7 Assessment Criteria

7.1 Soil

DWER, 2021 provides guidance on undertaking site investigations in WA. As specified within DWER, 2021, the NEPM,2013 provides a range of investigation levels for the protection of ecological and human health. Health Investigation Levels (HILs)/(Health Screening Levels (HSLs) and Ecological Investigation Levels (EILs)/ Ecological Screening Levels (ESLs) define conservative values to protect human health and the environment respectively, for various land use settings. These land use settings generally include the following:

Table 4: NEPM, 2013 Land Use Settings

HIL	HSL	Description	EIL and ESLs
N/A			**Area of Ecological Significance** – area where planning provisions or land use designations are for the primary intention of conserving and protecting the natural environment. This includes national parks, state parks, wilderness area and designated conservation areas.
HIL-A	HSL-A	Residential with garden/accessible soil, home grown produce <10% fruit and vegetable, no poultry, children day care centres, preschools and primary schools.	Urban residential areas and public open space
HIL-B	HSL-B	Residential with minimal opportunities for soil access including dwellings with fully or permanently paved yard space such as high-rise buildings and flats	
HIL-C	N/A	Public open spaces such as parks, playgrounds, playing fields, secondary schools and footpaths. It does not include undeveloped public open spaces (such as urban bushland and reserves) which should be subject to a site-specific assessment where appropriate.	
HIL-D	HSL-D	Commercial/industrial such as shops, offices, factories and industrial sites.	Commercial and industrial sites.

HILs/HSLs reflect levels in soil that would have no observable effect on human health over a lifetime of exposure. EILs/ESLs reflect levels in soils that would have not observable effect on the most sensitive ecological receptor. Where levels of a COPC exceed the adopted guideline, this does not necessarily indicate that soils are hazardous or that remediation is required, rather that further investigations and risk assessment for that particular COPC is required.

As the proposed redevelopment of the Site will see the construction of a childcare centre, **HIL-A/HSL-A** are the most appropriate human health investigation levels. It is considered here that HIL-B/HSL-B

criteria may be considered as minimal interactions with soil are considered likely based on the proposed development design. However, **HIL-A/HSL-A** have been retained for certainty and to ensure the proposed land use is appropriately considered, regardless of access to soil potential in regard to human health.

In addition, TRH Management Limits – for 'residential, parkland and public open space' were applied, as well as the HSLs for direct contact consistent with CRC Care guidance.

The proposed redevelopment will result in the ground level of the site being mostly sealed. A small, raised car park curb marker in the northeast portion of the site has the potential for planation of vegetation (per Image 1). Although considered minimal, for completeness, the EIL/ESLs in an '**Urban residential areas and public open space**' setting were also assessed. In addition, EILs have been developed for arsenic, copper, chromium (III), nickel, lead, zinc, and naphthalene by assessing the ambient background concentrations (ABC) and the added contaminant limit (ACL) as detailed in the sub-sections below. EILs are also based on the age of the contamination. For completeness, the 'fresh and aged contamination' guidelines were adopted.

7.2 Ambient Background Concentrations

It is assumed that the local ecosystem has adapted to ambient background concentrations (ABC). Therefore, adding contaminants over and above the ABC may have an adverse effect on the environment. The method for determining the ABC is to collect a sample from an appropriate reference site (see Figure 1 for ABC source location).

7.3 Added Contaminant Limit and Soil Properties

The ACL is the added concentration above the ABC of a COPCs, above where further applicable investigation and evaluation of the impact on ecological values is necessary. As detailed in the NEPM, 2013, the ACLs are based on soil characteristic including pH, cation exchange capacity (CEC) and clay content as shown in the table below:

Table 5: Acceptable RPD Limits

Soil Physiochemical Property	Zinc	Copper	Nickel	Chromium III
pH	X	X	-	-
CEC	X	X	X	
% Clay	-	-		X

Generic levels for arsenic, lead, DDT and naphthalene have been developed for the various land use settings and do not require input of soil properties. The NEPM calculator showing adopted concentrations for these metals are provided in Appendix H.

The ACL sample was collected in initial investigations. This was taken from within perceived natural soils onsite, below fill and mixed fill/natural materials within the site boundary.

7.4 Groundwater

Groundwater results were compared to the relevant assessment criteria specified in the following guidelines:

- Department of Water and Environmental Regulation (DWER), 2021. Guideline – Assessment and management of contaminated sites.
- Australia and New Zealand and Australian State and Territory Governments (ANZAST), Fresh and Marine Water Quality guidelines, 2018 (ANZAST, 2018).
- NEPM 2013a, National Environment Protection (Assessment of Site Contamination) Measure. Schedule B (1) Guideline on investigation levels for soil and groundwater. National Environmental Protection Council, Adelaide.
- NEPM 2013b, National Environment Protection (Assessment of Site Contamination) Measure. Schedule B (2) Guideline on Data Collection, Sample Design and Reporting. National Environmental Protection Council, Adelaide.
- World Health Organisation (WHO)-*Petroleum products in drinking-water (2008)* (WHO, 2008).

Maintenance of Ecosystems

In accordance with the DWER, 2021 guidelines, the environmental quality objectives for the maintenance of ecosystems were those specified in ANZAST, 2018. The groundwater quality objectives for the protection and maintenance of ecosystems are applied to groundwater at the point of discharge to a surface water body. Criteria was applied at the measuring point to provide a conservative assessment of potential risks. Due to the Site's location (up-hydraulic gradient to sensitive ecological receptors such as the GO Edward Park wetland and the Swan River), the investigation levels for freshwater with a 95% trigger level were applied. The trigger levels indicate the percentage of species expected to be protected. This is considered warranted due to the site being within a commercial/developed area, with no surface waterbodies are present on the Site, with the nearest being the engineered wetlands located within GO Edwards Park. These wetlands are located ~80m north of the Site. Outside of this, the Swan River is located 600m northwest of the Site.

Tabulated groundwater was compared to:

- ANZAST, 2018 Freshwater with a 95% protection (slightly to moderately disturbed system).

Non-potable groundwater use

Where a site is up-hydraulic gradient of one or more groundwater abstraction bores used for beneficial purposes which may be impacted by contaminated groundwater, the assessment should consider whether the public or site occupiers may be exposed directly or indirectly through potable (drinking and cooking) or domestic non-potable uses (e.g., filling swimming pools, reticulation, toilet flushing etc.).

The WA Department of Health (DoH) has developed generic assessment criteria to protect public who may be using or may be exposed to groundwater containing chemical residues in a non-potable setting. The DoH Contaminated Sites Ground and Surface Water Chemical Screening Guidelines, 2014 (DoH, 2014) guideline value is generally a factor of 10 times more than the corresponding National Health and Medical Research Council's (NHMRC) Australian Drinking Water Guidelines [ADWG] 6, 2011, Version 3.5 Updated August 2018 (NHMRC, 2018) Health Value. Where there is no Health Value, the Aesthetic Value is used, except in specific cases (odoriferous chemicals and most pesticides).

A number of registered groundwater bores are located down hydraulic gradient of the Site and as a result, groundwater data was compared against the non-potable groundwater use (NPUG) assessment criteria presented in DWER, 2021.

Screening levels for TRH in groundwater are not listed in the DWER, 2021 guidelines, therefore the adopted assessment criteria were derived from WHO, 2008 which have developed generic assessment criteria to protect public who may be using, or may be exposed to groundwater containing chemical residues in a potable setting. These were utilised and multiplied by a factor of 10 for non-potable use, as per the DoH development of non-potable guidelines. Tabulated groundwater results were therefore compared to:

- Petroleum Products in Drinking-water (WHO, 2008).

NEPM, 2013 Groundwater HSLs

Given the shallow depth to groundwater observed at the site, NEPM health screening levels (HSLs) were not applied to the results of this investigation.

Short-Term Irrigation

Short-term irrigation criteria provide concentrations at which irrigation may occur for up to 20 years and should protect plant growth and provide short-term protection against soil toxicity from contaminant accumulation. The criteria are also generally protective of human health where dermal contact, not including consumption, with the water occurs. The Site was noted to be up hydraulic gradient of GO Edwards Park, where a number of registered bores were identified. It is possible that these bores are used for irrigation purposes, and as such, tabulated data was also compared against the following guidelines:

- DWER, 2021 Short-Term Irrigation .

8 Methodology

8.1 Soil Investigation

Using direct push drilling methods, a total of eleven (11) soil bores were sunk across the Site, to a maximum depth of 3.0 mbgl. In general, soil samples were collected from the surface (0.0 mbgl) 0.5 mbgl and the interface of groundwater (generally). Additional sample collection occurred at various intervals to allow for delineation analysis as required.

Initial analysis was undertaken for the surface, 0.5mbgl and groundwater interface sample location (with some additional analysis as deemed required by the consultant). Additional delineation analysis was also undertaken upon receival of initial results, as outlined in Section 9.

All soil sampling was undertaken in accordance with the following guidelines:

- Standards Australia (AS) 4482.1-2005 *Guide to the investigation and sampling of sites with potentially contaminated soil, Part 1: Non-volatile and semi-volatile compounds*; and
- Standards Australia (AS) *4482.2-1999 Guide to the sampling and investigation of potentially contaminated soil, Part 2: Volatile substances*.

During the previous CSI, in accordance with NEPM, 2013, a single (1) background soil sample was collected from an undisturbed area near the Site (within GO Edwards Park). These background results were utilized for this investigation.

At each sample location, the following was undertaken:

- Recording the GPS co-ordinates;
- Logging the soil profile taking note of visual and/or olfactory signs of contamination;
- Collection of soil samples at varying depths as listed above;
- Collection of QA/QC samples at a rate of one (1) per twenty (20) samples analysed; and
- Completion of soil vapour testing and logging using a calibrated handheld photoionization detector (PID). The calibration certificate is provided in Appendix I.

A new pair of nitrile gloves were worn at each sampling location. Collected soil samples were placed directly into a chilled esky and kept cool with ice bricks. At the completion of the site work, accompanied by an appropriately filled out chain of custody (CoC), the soil samples were delivered to the testing laboratories, in this case ALS Laboratory (ALS) (primary laboratory) and ARL Laboratory (ARL) (secondary laboratory), who are both National Association of Testing Authority (NATA) accredited for the required analysis.

Reusable sampling equipment was decontaminated between sample locations using Decon 90. Equipment was rinsed in water and Decon 90, with sue of a scrub brush where required, then rinsed again in clean water, followed by a rise using DI water.

Figure 2 presents the location of the soil bores.

8.2 Groundwater Investigation

8.2.1 Preexisting Groundwater Wells

Three (3), preexisting groundwater monitoring wells are noted onsite, which, due to their placement, appear to have been installed to monitor for potential groundwater impacts. Whilst the installation logs have not been made available to WSW, the monitoring wells targeted the shallow aquifer, with a maximum installation depth of 3.76 mbgl. The immediate head works have been concreted in place to prevent ingress of surface water and appear to be in good condition. Overall, these monitoring wells remained suitable to be utilised as part of this investigation.

8.2.2 Groundwater Well Installation

As per auditor comments, a fourth groundwater monitoring well was constructed on the 31st of October 2024 to a depth of 3.5m (Appendix J).

The bore was installed according to the Minimum Construction Requirements for Water Bores in Australia (Land and Water Biodiversity Committee, 2003).

The new GMB was constructed such that the screened interval extends over the full depth of water, using direct push probing methods. Construction materials are designed to not cause, interfere or contribute to contamination. The bore was drilled to a minimum depth of 2.0 m below and 1.0 m above the noted groundwater level and was constructed with:

- Threaded solid 50 mm diameter Class 18 PVC casings across the unsaturated zone with a bentonite seal (above the water table) to prevent cross contamination from the surface.
- The borehole was backfilled with cement/bentonite slurry (grout) for added stability and to further prevent surface contamination and ingress of surface water.
- Threaded Class 18 PVC screens with 0.5 mm machine slots (to final depth) and clean, washed gravel (or coarse sand) filter packs to facilitate free flow of ground water into and through the borehole.
- Bottom cap to prevent entry of fines into the borehole.
- Concrete collar at the surface to prevent surface contaminations and a locking steel riser, to prevent tampering and contamination.

Following construction, the bore was developed with continuous pumping until the discharged water is visually clear and free of fines and suspended matter, as determined by the Environmental Scientist on site.

The groundwater bore was surveyed by a licence surveyor (Appendix K). Elevation data was recorded for the proximal ground surface, the top of casing elevation (noted as the top of PVC casing at marked measurement point), in m AHD to an accuracy of ± 0.05 m in the X-Y plane and to an accuracy of ±0.002 m in the Z-axis. The easting and northing coordinates as per the Map Grid Australia (MGA) were also recorded.

8.2.3 Groundwater Sampling

All four (4) groundwater monitoring wells were sampled on the 7th of November 2024. Figure 3 presents the location of the monitoring well network. Calibration Certificates for equipment is presented in Appendix I.

Groundwater sampling was undertaken in accordance with the following guidelines:

- AS *5667.11-1998*-Part 11 Guidance on Sampling Groundwater.

All groundwater wells (MW01 to MW04) were gauged, purged and sampled using low-flow peristaltic pump.

8.2.4 Groundwater Gauging

Prior to groundwater purging and sampling, each groundwater well was gauged using an interface meter to establish the depth to groundwater. At this time, the presence of Light Non-Aqueous Phase Liquids (LNAPL) was also assessed.

8.2.5 Purging

All groundwater monitoring wells were purged using the low-flow peristaltic pump to slowly remove stagnant water from each of the groundwater wells and allow for fresh recharge into the well without causing a 'cone of depression'. This enables sampled groundwater to be representative of the underlying aquifer.

During groundwater purging, field parameters were recorded on groundwater forms using data obtained from a YSI water quality meter for every minute of groundwater purge time, to a maximum of five (5) minutes. Groundwater parameters recorded, including stabilisation criteria, are provided in the table below:

Table 6: Groundwater Stabilisation Parameters

Groundwater Parameters	Stabilisation Criteria
pH	±0.2 units
Electrical conductivity (EC)	±0.2 mili semens/centimetre (mS/cm)
Temperature	±3 percent (%)
Dissolved Oxygen (DO)	±10 %
Redox Potential (ORP)	±20 mili volts (mV)

8.2.6 Sampling

Once the parameters stabilised, groundwater samples were collected in accordance with *AS 5667.11.1998.* The groundwater samples, including QA/QC samples (duplicate and triplicate), were collected directly from the tubing into appropriately prepared sample bottles, which were supplied by the analysing NATA accredited laboratory – in this case ALS (primary) and ARL (secondary). Groundwater samples were also analysed for dissolved metals and metalloids; therefore, which

required field filtration of metals/metalloids samples using a 0.45 µm *Hydroline™* disposable filter directly into the appropriate sample bottles.

In addition, as part of the QA/QC program, field blank samples were collected daily by pouring laboratory-supplied deionised water (DI) into the respective sample bottles. Trip Blanks supplied by the laboratory were also utilised.

After preparation and labelling, samples were immediately placed into a chilled esky. The esky was transported to the laboratory accompanied by an appropriately completed Chain of Custody (CoC) document following the sampling event.

8.3 Field Observations

The generalised (natural) soil profile encountered during the sinking of the soil bores was described as a coarse grained, calcareous SAND, grey in colour. Soil logs are presented in Appendix J.

In general, a mix of fill material and perceived natural soils were noted (generally) between the surface and 0.3 - 1.0 mbgl. Some black peat-like soils were noted near to soil bores S17 and S18 at depth.

It is noted here previous investigations indicated areas where pre-existing USTs were located indicated larger depths of fill material. This was not observed during this investigation.

Soil samples from S10 to S20 were subject to infield screening for volatile organic compounds (VOCs) using a PID. This assessment reported concentrations between 0.0 parts per million (ppm) and 1.9 ppm. This does not indicate a significant presence of volatiles in soil.

8.3.1 Background Sample

The background sample was collected during previous investigations. This was taken from within GO Edwards park in a slightly vegetated area. Soils were noted as dry, grey sandy soils with light organic material (small roots) throughout.

8.3.1 Groundwater Field Results

The three groundwater wells were gauged on the 7th November 2024, with gauging data summarised in the table below, with field recording forms provided in Appendix J. It is noted MW03 had tree roots near to the surface which were able to be removed. Additional obstruction (likely tree roots) were noted again at 2.2 mbgl.

Table 7: Gauging Data

Well ID	MW01	MW02	MW03	MW04
Well Depth (m btoc)	3.81	3.5	2.2 (obstructed)	3.49
Depth to groundwater (m below TOC)	1.64	1.59	1.48	1.43
Free=-phase detected?	No	No	No	No

8.3.2 Aquifer Parameters

The soil profile observed during the installation of the soil bores showed groundwater to be flowing within a coarse-grained sand. Therefore, this aquifer can be described as an unconfined, unconsolidated coarse sand aquifer. Effective porosity for this type of aquifer is approximately 0.28 (https://www.nj.gov/dep/srp/guidance/rs/at123d_guidance.pdf).

8.3.3 Hydraulic Conductivity

Based on published data for hydraulic conductivity of a medium grained sand, conductivity is expected to range between $6x10^{-3}$ m per second (m/s) and $9x10^{-7}$ m/s (https://structx.com/Soil_Properties_007.html).

8.3.4 Field Observations

The field observations made during the purging and sampling of the four (4) monitoring wells were as follows:

Table 8: Field Observations

Well ID	Initial	During Sampling	Odour	Product
MW01	Mostly clear	Mostly clear	No odour	None
MW02	Mostly clear	Mostly clear	No odour	None
MW03	Mostly clear	Mostly clear	No odour	None
MW04	Dark, cloudy	Mostly clear	No odour	None

8.4 Groundwater Parameters

The groundwater parameters are summarised in the table below, with field recording forms provided in Appendix J.

Table 9: Field Observations

Well ID	Sampling	Temp (°C)	EC (µS/cm)	DO (%)	pH	Redox mV
MW01	7/11/2024	22.5	723	70.7	6.27	-39.3
MW02		22.8	448.8	6.2	6.02	-39.7
MW03		21.6	483.2	6.3	6.15	17.7
MW04		23.6	410.0	18.8	6.13	-7.6

As shown in the table above, the groundwater is circumneutral across the network, with pH ranging between 6.02 and 6.27.

Groundwater recorded reduced dissolved oxygen results at MW02 and MW03. The redox potential indicated that bores MW01, MW02 and MW04 were strong reducing agents however water from MW03 would be considered oxidising.

8.5 Survey Results

Survey results are presented in Appendix K. It is noted here survey incorrectly numbered the monitoring bore locations and this has been adjusted in this report. A summary of the results are presented in Table 10.

Table 10: Groundwater Survey Results

Well ID	MW01	MW02	MW03	MW04
Depth to groundwater (m below TOC)	1.64	1.59	1.48	1.43
Casing Relative Level	5.333	5.231	4.669	5.043
GW RL	3.693	3.641	3.189	3.613

Based on Table 10 (and as presented in Figure 3), groundwater is assumed to flow in a north-westerly direction.

9 Laboratory Analysis - Soil

9.1 Soil Laboratory Analysis Schedule - Initial

The initial soil analysis schedule is provided in the following table.

Table 11: Soil Laboratory Analysis Schedule – Initial Analysis

Laboratory Analysis	Sample IDs	QA Samples	Total
Total Recoverable Hydrocarbons (TRH)	S10 – 0.25, 0.50, 1.5 S11 - 0.25, 0.50, 1.5 S12 - 0.25, 0.50, 1.3 S13 - 0.25, 0.50, 1.5 S14 - 0.0, 0.50, 1.8 S15 - 0.0, 0.50, 1.7 S16 - 0.0, 0.50, 1.7 S17 - 0.0, 0.50, 1.4, 2.0 S18 - 0.0, 0.50, 1.2, 2.0 S19 - 0.0, 0.50, 1.5 S20 - 0.0, 0.50, 1.5	X1, X2, X3, X4, X5, X6, TB (x2), FB (x2), RB (x2)	47
Benzene, Toluene, Ethylbenzene, Xylene, Naphthalene (BTEX-N)			47
Polycyclic Aromatic Hydrocarbons (PAH)			47
Metals and Metalloids[1]			47
OC/OP Pesticides			47
SVOCs			47

1: Metals and Metalloids include arsenic, cadmium, chromium (total), copper, lead, mercury, nickel, and zinc.

2: The BGS and NEPM sample were utilized from the previous CSI.

9.2 Soil Analysis Schedule - Secondary

Upon receiving results for the analysis in Table 11, additional held samples were sent for further testing as a means of delineating observed impacts. Analytes for secondary analysis varied depending on these initial results.

Table 12: Soil Laboratory Analysis Schedule – Secondary Analysis

Laboratory Analysis	Sample IDs	Total
Total Recoverable Hydrocarbons (TRH)	S20 - 1.0	1
Benzo(a)pyrene	S13 – 1.0, 2.0, 3.0 S15 – 1.0 S19 -1.0, 2.0, 3.0	7
Copper	S10 – 1.0 S12 – 1.3, 2.0, 3.0 S13 - 1.0, 2.0, 3.0 S15 – 1.0	16

	S16 – 1.0 S17 – 1.0, 2.5, 3.0 S19 -1.0, 2.0, 3.0 S20 - 1.0	
Lead	S10 – 1.0 S20 - 1.0	2
Nickel	S10 – 1.0 S13 - 1.0 S15 – 1.0 S17 – 1.0, 2.5, 3.0 S20 - 1.0	7
Zinc	S10 – 1.0 S11 – 1.0, 2.0 S12 – 1.0, 2.0, 3.0 S13 - 1.0, 2.0, 3.0 S14 – 1.0, 1.5 S15 – 1.0 S16 – 1.0, 2.0, 3.0 S17 – 1.0, 2.5, 3.0 S18 – 3.0 S19 -1.0, 2.0, 3.0 S20 - 1.0	23
Aldrin + Dieldrin	S20 - 1.0	1

9.3 Soil Laboratory Analysis Results

Standard laboratory Practical Quantification Limits (PQLs) were adopted for all soil samples subject to laboratory analysis.

The following section details the soil laboratory analysis results compared against the relevant assessment criteria as specified in Section 7. Tabulated results are provided in Appendix L, with full laboratory analysis certificates provided in Appendix M.

9.4 pH, CEC, TOC, and Organic Matter

During the previous investigation, a single (1) soil sample was subject to analysis for pH, CEC, TOC and organic matter to determine the appropriate EILs for the investigation. These concentrations were adopted for this report and are restated below.

Table 13: Soil Index

Sample ID	pH (units)	CEC (meq/100g)	TOC (%)	Organic Matter (%)
S4-2.5	8.6	0.2	<0.5	<0.5

9.5 Initial Soil Analysis Schedule Results

9.5.1 TRH

TRH concentrations were reported below the laboratory PQL for many of the samples, with no detections of F1 (C_6-C_{10}) and F2 (> C_{10}-C_{16}) fractions.

Detections of the F3 (>C_{16}-C_{34}) fraction were noted in samples S10-0.5, S11-0.25, S12-0.25, S13-0.50, S15-0.5, S18-0.25, S18-2.0, S20-0.0, and S20-0.5.

- Of these, the samples at S12-0.25 (320 mg/kg) and S20-0.50 (320 mg/kg) exceeded the adopted ESL.

Detections of the F4 (>C_{34}-C_{40}) fraction were noted in samples S10-0.5, SS11-0.25, S12-0.25, S13-0.50, S18-0.25, S18-2.0, S20-0.0, and S20-0.5.

- Of these, no exceedances of adopted criteria were noted.

9.5.2 BTEX, N

BTEX, N concentrations were reported below the laboratory PQL and below the adopted assessment criteria within all samples analysed.

9.5.3 PAHs

PAH concentrations were reported below the laboratory PQL or the adopted assessment criteria for most samples analysed, however, the following detections were noted:

- Benzo(b+j+k)fluoranthene was detected in samples S13-0.50, S15-0.00, and S15-0.50.
    - No guideline criteria are available for this compound.
- Benzo(a)anthracene was detected in samples S13-0.50 and S15-0.50.
    - No guideline criteria are available for this compound.
- Benzo(a)pyrene was detected in samples S13-0.50, S15-0.00, S15-0.50, and S19-1.50.
    - Of these, exceedances were noted in samples S13-0.50 (0.8 mg/kg), S15-0.50 (1.5 mg/kg) and S19-1.50 (1.0 mg/kg).
- Benzo(b+j)fluoranthene was detected in samples S12-1.30, S13-0.50, S15-0.00, S15-0.50, and S19-1.50.
    - No guideline criteria are available for this compound.

- Benzo(g,h,i)perylene was detected in samples S13-0.50 and S15-0.50.
    - No guideline criteria is available for this compound.
- Benzo(k)fluoranthene was detected in samples S13-0.50 and S15-0.50.
    - No guideline criteria are available for this compound.
- Chrysene was detected in samples S13-0.50, S15-0.00, S15-0.50 and S19-1.50.
    - No guideline criteria are available for this compound.
- Fluoranthene was detected in samples S13-0.50, S15-0.00, S15-0.50 and S19-1.50.
    - No guideline criteria are available for this compound.
- Indeno(1,2,3-c,d)pyrene was detected in samples S15-0.5 and S19-1.50.
    - No guideline criteria are available for this compound.
- Phenanthrene was detected in sample S13-0.50.
    - No guideline criteria are available for this compound.
- Pyrene was detected in samples S11-0.50, S12-1.30, S13-0.50, S15-0.00, S15-0.50 and S19-1.50.
    - No guideline criteria are available for this compound.

9.5.4 Metals and Metalloids

Results for metal and metalloid concentrations were below the laboratory PQL for most samples, summarised below:

- Mercury was detected in three (3) samples, ranging from 0.1 – 0.2 mg/kg.
    - No exceedances of adopted criteria were noted.
- Arsenic was detected in one (1) sample, at 12 mg/kg.
    - This result did not exceed any adopted criteria.
- Cadmium as detected in four (4) samples, ranging from 1 – 2 mg/kg.
    - No exceedances of adopted criteria were noted.
- Chromium was detected in twenty-one (21) samples, ranging from 2 – 16 mg/kg.
    - No exceedances of adopted criteria were noted.
- Copper was detected in twenty-three (23) samples, ranging from 5 – 115 mg/kg.
    - Of these, the adopted EIL (Fresh and aged) was exceeded at samples S10-0.50 (93 mg/kg), S12-0.25 (115 mg/kg), S12-0.50 (39 mg/kg), S13-0.50 (55 mg/kg), S17-0.25

(21 mg/kg), S17-1.40 (62 mg/kg), S17-2.00 (32 mg/kg), S20-0.00 (105 mg/kg) and S20-0.50 (54 mg/kg).

- Lead was detected in twenty-eight (28) samples, ranging from 5 – 460 mg/kg.
    - Of these, the adopted HIL and EIL (Fresh) was exceeded for samples S10-0.50 (442 mg/kg), S12-0.25 (352 mg/kg) and S20-0.0 (460 mg/kg).
- Nickel was detected in ten (10) samples, ranging from 2 – 6 mg/kg.
    - Of these, the adopted EIL (Fresh and Aged) was exceeded for samples S10-0.50 (6 mg/kg), S12-0.25 (4 mg/kg), S13-0.25 (4 mg/kg), S13-0.50 (3 mg/kg), S15-0.50 (4 mg/kg), S17-2.00 (8 mg/kg), S20-0.00 (5 mg/kg) and S20-0.50 (3 mg/kg).
- Zinc was detected in all samples, ranging from 5 – 404 mg/kg.
    - Of these, both adopted EILs (Aged and Fresh) were exceeded for samples S10-0.50 (277 mg/kg), S12-0.25 (301 mg/kg), S12-1.30 (187 mg/kg), S13-1.50 (101 mg/kg), S17-1.40 (404 mg/kg), S17-2.00 (214 mg/kg), S18-0.25 (103 mg/kg), S20-0.00 (189 mg/kg) and S20-0.50 (121 mg/kg).

9.5.5 OC/OP Pesticides

OC/OP Pesticides concentrations were reported below the laboratory PQL or the adopted assessment criteria within all samples analysed aside from the below:

- 4,4-DDE was detected in sample S12-0. (0.21 mg/kg).
    - No guideline criteria are available for this compound.
- (Combined - Aldrin + Dieldrin) was detected in samples S12-0.50 (0.10 mg/kg), S12-1.30 (0.15 mg/kg), S13-0.25 (0.05 mg/kg), S14-0.00 (0.06 mg/kg), S16-0.00 (0.06 mg/kg), S16-0.50 (0.08 mg/kg), S17-0.25 (0.06 mg/kg), S17-0.50 (0.25 mg/kg), S17-1.40 (0.08 mg/kg), S18-0.25 (0.09 mg/kg), S18-0.50 (0.06 mg/kg), S20-0.00 (0.12 mg/kg), and S20-0.50 (12.0).
    - Of these, the adopted HIL was exceeded for sample S20-0.50.
- (DDT+DDE+DDD) was detected in sample S12-1.30 (0.21 mg/kg).
    - This result was below the adopted HIL.
- Endrin was detected in sample S20-0.50 (0.22 mg/kg).
    - This result was below the adopted HIL.

9.5.6 SVOCs

SVOC concentrations were reported below the laboratory PQL for all samples analysed (excluding results discussed above).

9.6 Secondary Soil Analysis Schedule Results

Based on the outcome of the initial analysis, select held samples were subject to analysis as per the analysis schedule in Section 9.2

9.6.1 TRH

For sample S20-1.00, no detections were noted for F1 (C_6-C_{10}) and F2 (> C_{10}-C_{16}) fractions, however detections were observed for F3 (>C_{16}-C_{34}) and F4 (>C_{34}-C_{40}).

- Neither result exceeded adopted criteria.

9.6.2 PAH – Benzo(a)pyrene

Benzo(a)pyrene concentrations for the select samples were reported below the laboratory PQL and below the adopted assessment criteria within all samples analysed.

9.6.3 Metals and Metalloids

- Copper was detected in samples S12-2.00 (36 mg/kg), S13-1.00 (6 mg/kg), S17-1.00 (5 mg/kg) and S17-2.00 (27 mg/kg).
    - Of these, samples S12-2.00 and S17-2.00 exceeded the adopted EIL (Fresh).
- Lead results were below the PQL for the samples analysed.
- Nickel results were below the PQL for the samples analysed.
- Zinc was detected in samples S11-1.00 (127 mg/kg), S12-1.30 (187 mg/kg), S12-2.00 (211 mg/kg), S13-1.00 (36 mg/kg), S13-2.00 (23 mg/kg), S14-1.00 (48 mg/kg), S14-1.50 (43 mg/kg), S16-1.00 (43 mg/kg), S16-2.00 (9 mg/kg), S17-1.00 (56 mg/kg), S17-2.00 (214 mg/kg), S17-3.00 (8 mg/kg), S19-1.00 (122 mg/kg), and S20-1.00 (6 mg/kg).
    - Of these, samples S11-1.00, S12-1.30, S12-2.00, S17-2.00 and S19-1.00 exceeded the adopted fresh and aged EILs.

9.6.4 OC/OP Pesticides

- The aldrin and dieldrin result was below the PQL for the samples analysed, and the extent of contamination impact is considered delineated.

10 Laboratory Analysis – Groundwater

10.1 Groundwater Laboratory Analysis Schedule

The groundwater laboratory analysis schedule is provided in the following table:

Table 14: Groundwater Laboratory Analysis Schedule

Laboratory Analysis	Sample IDs	QA Samples	Total
Total Recoverable Hydrocarbons (TRH)	MW01, MW02, MW03, and MW04	X1, X2, FB, RB, TB	9
Benzene, Toluene, Ethylbenzene, Xylene, Naphthalene (BTEX-N)			
Polycyclic Aromatic Hydrocarbons (PAH)			
Metals and Metalloids[1]			
OC/OP Pesticides			
SVOCs			

1: Metals and Metalloids include arsenic, cadmium, chromium (total), copper, lead, mercury, nickel, and zinc

10.2 Groundwater Laboratory Analysis Results

Standard laboratory PQLs were adopted for all groundwater samples subject to laboratory analysis.

The following section details the groundwater laboratory analysis results compared against the relevant assessment criteria as specified in Section 7. Tabulated results are provided in Appendix N, with full laboratory analysis certificates provided in Appendix O.

10.3 TRH

TRH concentrations were reported below the laboratory PQL for all samples analysed.

10.4 BTEX, N

BTEX, N concentrations were reported below the laboratory PQL for all samples analysed.

10.5 PAH

PAH concentrations were reported below the laboratory PQL for all samples analysed.

10.6 Metals and Metalloids

PAH concentrations were reported below the laboratory PQL or the adopted assessment criteria for the majority of samples. The detections are reported below.

- Nickel was detected in GW4 (0.002 mg/L).

- This result was below all adopted criteria.

- Zinc was present in samples GW2 (0.008 mg/L), GW3 (0.005 mg/L), and GW4 (0.010 mg/L).
    - Of these, the result from GW4 exceeded the adopted NEPM Fresh Waters guideline limit.

10.7 OC/OP Pesticides

OC/OP Pesticides concentrations were reported below the laboratory PQL for all samples analysed.

10.8 SVOCs

SVOC concentrations were reported below the laboratory PQL for all samples analysed.

11 Historical Analysis

11.1 Soil

Investigations undertaken in 2023 indicted the following:

- TRH, BTEX, Fuel oxygenates, Halogenated Aliphatic Compounds did not record any exceedance of adopted guideline, and in general, were below the laboratory PQL.
- Benzo(a) pyrene was detected above adopted ESL guideline at a total of 5 sample locations (between 0.5 and 1.5 mbgl). These results exceeded HIL-A guidelines at two sample locations, at 1.0 mbgl and 1.5 mbgl.
- Zinc exceeded EIL guidelines at 6 sample locations, between 1 mbgl and 1.5 mbgl.

Presentation of all soil results is made in Figure 4.

11.2 Groundwater

- TRH, BTEX, Fuel oxygenates, Halogenated Aliphatic Compounds and PAH were below the laboratory PQL in all (3) groundwater bores.
- Zinc exceeded the Freshwater guidelines at MW02 and MW03.
- Copper exceeded the Freshwater guidelines at MW01 and MW03.

12 Quality Assurance/Quality Control

QA/QC measures were implemented throughout the sampling process. The overall objective of the QA/QC process was to ensure that the integrity of the samples collected were not compromised and that the results are an accurate measurement of conditions at the Site. To achieve this, comprehensive QA/QC procedures were integrated into the sampling and analytical program. The procedures included:

- Fieldwork decontamination, sampling preparation and handling in accordance with document procedures;
- Use of calibrated field equipment;
- Use of experienced staff;
- Collection of QA/QC samples at a rate of one (1) per twenty (20) samples analysed;
- Use of NATA-accredited laboratories and methods for all analysis undertaken; and
- Internal laboratory QA/QC program.

12.1 Field QC Samples

To evaluate potential sources of cross contamination, sampling consistency and analytical accuracy, the five types of field QC samples collected during the sampling events included:

- **Field duplicate samples:** These samples (soil and groundwater) were analysed by the primary testing laboratory (ALS);
- **Field triplicate samples:** these samples (soil and groundwater) were analysed by the secondary testing laboratory (ARL);
- **Field blank:** these samples were analysed by the primary testing laboratory (ALS);
- **Trip blank samples:** these samples were analysed by the primary testing laboratory (ALS); and
- **Field rinsate sample:** these samples were analysed by the primary testing laboratory (ALS).

Field Duplicate and Triplicate Samples

Duplicate and triplicate soil samples were collected at a rate of one (1) per twenty (20) samples analysed in accordance with *AS 4482.1-1997*. Duplicate and triplicate soil samples were collected by mixing the soil sample horizon and evenly distributing it between the primary, duplicate and triplicate sample jars.

The duplicate and triplicate groundwater samples were collected by continually rotating the groundwater sample tubing between the primary, duplicate and triplicate sample bottles to ensure representative sampling.

Field Blank Sample

Two (2) field blank samples were collected during the soil contamination investigation, whilst an additional sample was collected during the groundwater monitoring event. These samples were collected by running DI through the air into a sample bottle whilst on Site. This was to test for potential cross contamination from the environment during sampling.

Trip Blank Samples

Two (2) trip blank samples were collected during the soil contamination investigation, whilst an additional sample was collected during the groundwater monitoring event. These samples were prepared by the primary testing laboratory and were kept in the esky with soil or groundwater samples to check for potential cross contamination during storage and transportation of the samples to the laboratory.

Rinsate Blank Samples

Two (2) rinsate blank samples were collected during the soil contamination investigation, whilst an additional sample was collected during the groundwater monitoring event.

These samples were collected by running DI over the reusable groundwater pump equipment / hand trowel following decontamination. The sample was collected directly into sample bottles to test for potential cross contamination.

12.2 QA Data Quality Objectives

The data quality objectives were:

Accuracy – this was determined through the analysis of spiked samples and measuring the extent to which analytical results reflects the known concentrations of the contaminants within the spike samples. The accuracy should be in the recommended laboratory specified percentage recovery range. Additionally, accuracy is measured by comparing the field QC results (duplicates and triplicates) against the primary sample data.

Precision – measured by the closeness/similarity of results for duplicated samples. Precision should be an average Relative Percentage Difference (RPD) for duplicate samples (i.e., internal laboratory duplicate samples, field duplicates and field triplicates) as follows: no limit 1-10 x PQL, 50% 10-20 x PQL and 20% >20 PQL. The RPDs were calculated for each of the quality control samples analysed by dividing the difference between the primary and duplicated sample, as per the following equation:

$$\frac{((x_1) - (x_2))}{(((x_1) + (x_2))/2)} \times 100$$

x_1 = primary sample concentration

x_2 = duplicate or triplicate concentration

Completeness – measured by the percentage of the total number of samples analysed which produce acceptable data. The overall completeness should be a minimum of 95%. The aim of the assessment for the quality of analytical data was to identify inaccuracy or errors in data. The assessment was undertaken using statistical methods such as RPD for duplicate and triplicate sample analysis and recovery percentage for spike samples. If one result was below the laboratory limit, the RPD was calculated using the value of the reporting limit. The RPDs were assigned zero when both concentrations were below laboratory reporting limits.

Comparability – The confidence (expressed qualitatively) that the data may be considered to be equivalent for each sampling and analytical event. Samples are to be collected by an experienced sampler, utilising appropriate and consistent methods and decontamination procedures. Climatic factors such as temperature, rainfall, wind etc. should be noted where they are considered to potentially affect the outcome of the assessment. NATA accredited analytical methods, appropriate sample PQLs, and the same laboratory and units should be utilised for the assessment.

Representativeness – The confidence (expresses qualitatively) that the data is representative of each medium present at the Site. Samples collected must reflect the characteristic of each medium. The sample analysis must reflect the properties of the field samples, including appropriate collection, handling, storage and preservation.

12.3 QA/QC Review – Soil

Tabulated results for soil samples collected, including QA/QC tables, are provided in Appendix L. Should the duplicate or triplicate value exceed the primary sample value, then the higher occurrence was utilised for the purpose of this report and risk assessment. The QA/QC review is provided in the following sections.

12.3.1 Field Quality Control Program

A summary of the field quality control program and sample identification (IDs) are provided in the following tables:

Table 15: Soil Analysis Schedule

Analyte	ALS					ARL	Total
	No. of primary analyses	No. of field duplicates	Field Blanks	Trip Blanks	Rinsate Blanks	Triplicate Sample	
Total Recoverable Hydrocarbons (TRH)	56	3	2	2	2	3	68
Benzene, Toluene, Ethylbenzene, Xylene, Naphthalene (BTEX-N)	56	3	2	2	2	3	68
Polycyclic Aromatic Hydrocarbons (PAH)	56	3	2	2	2	3	68
Metals and Metalloids	56	3	2	2	2	3	68
OC/OP Pesticides	56	3	2	2	2	3	68
SVOCs	56	3	2	2	2	3	68

Table 16: QA Sample IDs

Sample Date	Primary Sample	Duplicate	Triplicate
30/10/2024	S11 – 0.5	X1	X2
30/10/2025	S15-0.5	X3	X4

Table 17: QC Sample IDs

Sample Date	Trip Blank	Field Blank	Rinsate Blank
30/10/2024	TB	FB	RB
31/10/2025	TB	FB	RB

12.3.2 Field Duplicate Sample Analysis

To measure the precision of the laboratory analysis, field duplicate samples was collected and sent to ALS for analysis with results compared to the primary results from ALS. The results are summarised in the following table:

Table 18: Field Duplicate Sample Analysis

Analysis	Number of RPDs calculated	RPD range (%)	RPDs within recommended range
Total Recoverable Hydrocarbons (TRH)	14	No limit	14
Benzene, Toluene, Ethylbenzene, Xylene, Naphthalene (BTEX-N)	16	No limit	16
Polycyclic Aromatic Hydrocarbons (PAH)	50	20	49
Metals and Metalloids[1]	16	No limit	16
OC/OP Pesticides	78	No limit	78
SVOCs	240	20	239
Total	**414**	**20**	**412**

It was reported that 412 out of 414 RPDs (99.5%) calculated were within the recommended ranges.

12.3.3 Field Triplicate Sample Analysis

To measure the precision of the laboratory analysis, field triplicate samples was collected and sent to ARL and were compared to the primary results from ALS. The results are summarised in the following table:

Table 19: Field Triplicate Sample Analysis

Analysis	Number of RPDs calculated	RPD range (%)	RPDs within recommended range
Total Recoverable Hydrocarbons (TRH)	14	No limit	14
Benzene, Toluene, Ethylbenzene, Xylene, Naphthalene (BTEX-N)	14	No limit	14
Polycyclic Aromatic Hydrocarbons (PAH)	48	20	47
Metals and Metalloids[1]	16	20	13
OC/OP Pesticides	46	No limit	46
SVOCs	192	20	190
Total	**330**	**20**	**324**

It was reported that 324 out of 330 RPDs (98.1%) calculated were within the recommended ranges.

12.3.4 Duplicate Triplicate Comparison

To compare laboratory capabilities, the duplicate (ALS) and triplicate (ARL) samples were compared. The results are summarised in the following table:

Table 20: Duplicate/Triplicate Sample Comparison

Analysis	Number of RPDs calculated	RPD range (%)	RPDs within recommended range
Total Recoverable Hydrocarbons (TRH)	14	No limit	14
Benzene, Toluene, Ethylbenzene, Xylene, Naphthalene (BTEX-N)	14	No limit	14
Polycyclic Aromatic Hydrocarbons (PAH)	48	20	47
Metals and Metalloids[1]	16	20	15
OC/OP Pesticides	46	No limit	46
SVOCs	192	20	191
Total	**330**	**20**	**327**

It was reported that 327 out of 330 RPDs (99.1%) calculated were within the recommended ranges.

12.3.5 Field Blanks, Rinsate Blanks and Trip Blanks

The field, trip and rinsate blanks were subject to laboratory analysis for all COPCs, with all analytes reported to be below the laboratory PQLs. It is therefore considered that the soil samples were not subject to cross contamination from the environment during sampling and transportation to the laboratory.

12.3.6 Internal Laboratory Quality Control Samples

The results of the internal laboratory quality control samples are summarised in the following table:

Table 21: Internal Laboratory QC samples

Laboratory Report Number	Laboratory Duplicates			Laboratory Control Spikes			Method Blanks	
	No.	RPD Range %	No. within range	No.	Recovery Range %	No. within range	No.	No. within Range
EP2416162	776	0 - 30.8	776	380	27.4 - 161	378	386	386
EP2417890	31	0 – 23.7	31	25	71.3 - 110	25	25	25

To test the accuracy of the analysis, ALS blanks were 'spiked' with a known concentration of selected analytes. For spiked samples, the recovery range was 27.4-161% for the initial sampling event, and 71.3-110% for the secondary event with the majority of samples (99.5%) within the recommended range detailed in the laboratory QA/QC report. In relation to the laboratory method blank samples, all (100%) returned non-detectable results, while all (100%) internal duplicates samples were within the recommended recovery range.

12.3.7 Overall Data Quality

The overall data quality for the soil analysis is provided in the following table:

Table 22: Summary of QA Results

QA Samples	Total number of results	Number of results meeting data quality objectives	Percentage meeting quality objectives (%)
Field duplicates	414	412	99.5
Field triplicates	330	324	98.1
Duplicate/Triplicate Comparison	330	327	99.1
Field Blanks	320	320	100
Trip Blanks	328	328	100
Rinsate Blanks	320	320	100
Internal Duplicates	801	801	100
Internal Spikes	405	403	99.5
Internal Blanks	411	411	100
Total	**2,697**	**2,684**	**99.6**

The overall data quality for the soil assessment was 99.6%, which is above the 95% data quality objectives. This suggests that the results can be used and interpreted with confidence.

12.4 QA/QC Review – Groundwater

Tabulated results for groundwater samples collected, including QA/QC tables, are provided in Appendix N. Should the duplicate or triplicate value exceed the primary sample value, then the higher occurrence was utilised for the purpose of this report and risk assessment. The QA/QC review is provided in the following sections.

12.4.1 Groundwater Quality Control Program

A summary of the field quality control program and sample IDs are provided in the following tables:

Table 23: Groundwater Analysis Schedule

Analyte	ALS					ARL	Total
	No. of primary analyses	No. of field duplicates	Field blanks	Trip blanks	Rinsate blanks	No. of field triplicates	
Total Recoverable Hydrocarbons (TRH)	4	1	1	1	1	1	9
Benzene, Toluene, Ethylbenzene, Xylene, Naphthalene (BTEX-N)	4	1	1	1	1	1	9
Polycyclic Aromatic Hydrocarbons (PAH)	4	1	1	1	1	1	9
Metals and Metalloids[1]	4	1	1	1	1	1	9
OC/OP Pesticides	4	1	1	1	1	1	9
SVOCs	4	1	1	1	1	1	9

Table 24: Groundwater QA Sample IDs

Sample Date	Primary Sample	Duplicate	Triplicate	Trip Blank	Field Blank	Rinsate
7/11/2024	MW02	X1	X2	TB	FB	RB

12.4.2 Field Duplicate Sample Analysis

To measure the precision of the laboratory analysis, field duplicate samples was collected and sent to ALS for analysis with results compared to the primary results from ALS. The results are summarised in the following table:

Table 25: Groundwater Duplicate Sample Analysis

Analysis	Number of RPDs calculated	RPD range (%)	RPDs within recommended range
Total Recoverable Hydrocarbons (TRH)	7	No limit	7
Benzene, Toluene, Ethylbenzene, Xylene, Naphthalene (BTEX-N)	8	No limit	8
Polycyclic Aromatic Hydrocarbons (PAH)	23	No limit	23
Metals and Metalloids[1]	8	No limit	8
OC/OP Pesticides	38	No limit	38
SVOCs	132	No limit	132
Total	**216**	**No limit**	**216**

It was reported that all RPDs (100%) calculated were within the recommended ranges.

12.4.3 Field Triplicate Sample Analysis

To measure the precision of the laboratory analysis, field triplicate samples was collected and sent to ARL and were compared to the primary results from ALS. The results are summarised the following table:

Table 26: Groundwater Triplicate Sample Analysis

Analysis	Number of RPDs calculated	RPD range (%)	RPDs within recommended range
Total Recoverable Hydrocarbons (TRH)	7	No limit	7
Benzene, Toluene, Ethylbenzene, Xylene, Naphthalene (BTEX-N)	7	No limit	7
Polycyclic Aromatic Hydrocarbons (PAH)	21	No limit	21
Metals and Metalloids[1]	8	No limit	8
OC/OP Pesticides	29	No limit	29
SVOCs	98	No limit	98
Total	**170**	**No limit**	**170**

It was reported that all RPDs (100%) calculated were within the recommended ranges.

12.4.4 Duplicate Triplicate Comparison

To compare laboratory capabilities, the duplicate (ALS) and triplicate (ARL) samples were compared. The results are summarised in the following table:

Table 27: Duplicate/Triplicate Sample Comparison

Analysis	Number of RPDs calculated	RPD range (%)	RPDs within recommended range
Total Recoverable Hydrocarbons (TRH)	7	No limit	7
Benzene, Toluene, Ethylbenzene, Xylene, Naphthalene (BTEX-N)	7	No limit	7
Polycyclic Aromatic Hydrocarbons (PAH)	21	No limit	21
Metals and Metalloids[1]	8	No limit	8
OC/OP Pesticides	29	No limit	29
SVOCs	98	No limit	98
Total	**170**	**No limit**	**170**

It was reported that 170 out of 170 RPDs (100%) calculated were within the recommended ranges.

12.4.5 Field Blanks and Trip Blanks

Field and trip blanks were subject to laboratory analysis for all COPC. Concentrations of analytes in both blanks were reported to be below the laboratory PQLs. It is therefore considered that the groundwater samples were not subject to cross contamination from the environment during sampling and transportation to the laboratory.

12.4.6 Rinsate Blank

To test the effectiveness of the decontamination procedure, a single (1) equipment rinsate sample was collected during the groundwater monitoring event. The equipment rinsate was subject to analysis for all COPC. All analytes were reported below the laboratory PQLs, indicating that the decontamination procedures were adequate in limiting cross contamination between the sampling locations.

12.4.7 Internal Laboratory Quality Control Samples

The results of the internal laboratory quality control samples are summarised in the following table:

Table 28: Internal Laboratory QC samples

Laboratory Report Number	Laboratory Duplicates			Laboratory Control Spikes			Method Blanks	
	No.	RPD Range %	No. within range	No.	Recovery Range %	No. within range	No.	No. within Range
EP2416670	203	0 – 6.9	203	197	10. - 113	197	201	201

To test the accuracy of the analysis, ALS blanks were 'spiked' with a known concentration of selected analytes. For spiked samples, the recovery range was 10-113%, with all samples (100%) within the recommended range detailed in the laboratory QA/QC report. In relation to the laboratory blank samples, all 201 of the blank samples (100%) gave non-detectable results, whilst all internal duplicates samples (100%) were within the recommended recovery range.

12.4.8 Overall Data Quality

The overall data quality for the groundwater analysis is provided in the following table:

Table 29: Summary of QA Results

QA Samples	Total number of results	Number of results meeting data quality objectives	Percentage meeting quality objectives (%)
Field duplicates	216	216	100
Field triplicates	170	170	100
Duplicate/Triplicate Comparison	170	170	100
Field Blanks	160	160	100
Trip Blanks	160	160	100
Rinsate	160	160	100
Internal Duplicates	203	203	100
Internal Spikes	197	197	100
Internal Blanks	201	201	100
Total	**1,637**	**1,637**	**100**

The overall data quality for the groundwater assessment was 100%, which is above the 95% data quality objectives. This suggests that the results can be used and interpreted with confidence.

13 Conceptual Site Model

A Conceptual Site Model (CSM) has been prepared for the Site in consideration of the 'source-pathway-receptor' model for the proposed land use. The CSM describes the possible pathways for exposure to potential contamination, with a complete pathway required for exposure to occur. Where an exposure pathway is incomplete, there is a low risk that exposure will occur. An exposure pathway will typically consist of the following elements:

- A source of contamination;
- A release mechanism;
- Retention in the transport medium;
- An exposure point; and
- An exposure route.

This section (Section 12) outlines the CSM.

13.1 Contamination Sources

The Site historically operated as a service station and mechanical workshop. A total of four (4) UST tanks existed at the Site, however, these were removed in 1997. The primary buildings were demolished in 2022. The site has been used for overflow car parking since ~2010.

13.2 Primary Source of Contamination

As the Site operated as a service station and mechanics, the primary source of contamination is spills and leaks from USTs and associated infrastructure, and the discharge of oils and other chemicals during the repair of vehicles.

Based on soil analysis, this has resulted in some impacts of TRHs (F3), PAHs (benzo(a)pyrene) and metals (copper, lead, nickel and zinc).

13.3 Secondary Source of Contamination

Contaminated groundwater was deemed a source of secondary contamination, which may result in impacts within the capillary fringe zone.

13.4 Contaminants of Potential Concern

Prior to the intrusive investigation being undertaken, for completeness, the following were considered possible COPCs within soil and groundwater:

- TRH;
- BTEX-N;
- PAH;
- Metals and Metalloids (arsenic, cadmium, chromium (total), copper, lead, mercury, nickel, and zinc).
- Organochlorine and organophosphorus pesticides; and
- Semi volatile organic compounds.

13.5 Soil COPC

Following the receipt of the laboratory analysis results, the following were considered the COPC in soil:

- HIL-A Urban residential areas and public open space exceedances;
  - **Lead** at S10-0.50, S12-0.25 and S20-0.00; and
  - **Aldrin and Dieldrin** at S20-0.50.
- Site-specific EIL (Fresh) exceedances;
  - **Copper** at S10-0.50, S12-0.25, S12-0.50, S12-2.00, S13-0.50, S17-0.25, S17-1.40, S17-2.00, S18-0.25, S20-0.00, and S20-0.50;
  - **Nickel** at S10-0.50, S12-0.25, S13-0.25, S13-0.50, S15-0.50, S17-2.00, S18-0.25, S20-0.00, and S20-0.50; and
  - **Zinc** at S10-0.50, S11-1.50, S12-0.25, S12-1.30, S12-2.00, S13-1.50, S17-1.40, S17-2.00, S18-0.25, S19-1.00, S20-0.00, and S20-0.50.
- Site-specific EIL (Aged) exceedances;
  - **Zinc** at S10-0.50, S11-1.50, S12-0.25, S12-1.30, S12-2.00, S13-1.50, S17-1.40, S17-2.00, S18-0.25, S19-1.00, S20-0.00, and S20-0.50.
- ESL (Urban Residential, Coarse Soil) for Petroleum Hydrocarbons for Coarse/Fine Soil exceedances;
  - **TRHs (F3)** at S12-0.25 and S20-0.50;
  - **Benzo(a)pyrene** at S13-0.50, S15-0.50 and S19-1.50.

Figure 2 presents the elevated COPC in soil across the Site.

13.6 Groundwater COPC

Following the receipt of the laboratory analysis results, the following was considered the COPC in groundwater:

- ANZECC, 2000 (Fresh Water 95%) assessment criteria exceedances:
  - Dissolved **Zinc** at MW04.

Figure 3 presents the elevated COPC in groundwater across the Site.

13.7 Chemical Degradation and Toxicity

Benzo(a)pyrene

Benzo(a)pyrene is a five-ring polycyclic aromatic hydrocarbon and is released into the atmosphere as a component of forest fires, industrial processes, vehicle exhaust and via the burning of fuels. Exposure can occur via eating certain food products, or by eating food grown in areas contaminated with benzo(a)pyrene. Dermal contact may occur with soils or materials that contain soot, tar, or crude petroleum products.

Benzo(a)pyrene is moderately persistent in the environment; however, it readily binds to soils and generally does not leach to groundwater. If released to water, it will readily bind to sediments and particulate matter. In most waters, it will resist breakdown by microbes or reactive chemicals, but it may evaporate or be degraded by sunlight (https://archive.epa.gov/water/archive/web/pdf/archived-consumer-factsheet-on-benzo.pdf).

Animal studies demonstrate that exposure to benzo(a)pyrene is associated with developmental, reproductive, and immunological effects. In addition, epidemiology studies show that exposure can

result in adverse birth outcomes and decreased fertility. Studies have also shown benzo(a)pyrene is carcinogenic via all exposure routes. (https://cfpub.epa.gov/ncea/risk/hhra/recordisplay.cfm?deid=329750). Benzo(a)pyrene is expected to bioconcentrate in aquatic organisms that cannot metabolise it.

Short-term exposure can potentially cause the following health effects when people are exposed to it for relatively short periods of time: red blood cell damage, leading to anaemia; suppressed immune system. Long-term exposure has the potential to cause the following effects from a lifetime exposure: developmental and reproductive effects; cancer.

Copper

Copper is an essential trace element required by both humans and animals. Copper strongly adsorbs to organic matter, carbonates and clay, which reduces its bioavailability. Copper can bioaccumulate in organisms but, as it is an essential element, it is commonly regulated by the organism. The most common symptoms of copper toxicity are injury to red blood cells, injury to lungs, as well as damage to liver and pancreatic functions (OME, 1997). Although humans are exposed to copper from many sources, including drinking water, soil and dust, 75 to 99% of total copper intake is from food (CCME, 1997).

Copper is highly toxic in aquatic environments and has effects in fish, invertebrates and amphibians, with all three groups equally sensitive to chronic toxicity. Copper will bioaccumulate in many fish and molluscs, while copper sulphate and other copper compounds are effective algaecides. There is a moderate potential for bioaccumulation in plants but do not biomagnify. Toxic effects in birds include reduced growth rates and developmental abnormalities, while mammals are not as sensitive to copper toxicity as aquatic organisms, toxicity in mammals includes a wide range of animals and effects (ATSDR, https://www.atsdr.cdc.gov/ToxProfiles/tp132.pdf)

Plant growth requires copper and should not fall below 6 mg/kg. However, soil concentrations in excess of 150 mg/kg and soil moisture concentrations in excess of 0.1 mg/L can be phytotoxic, though toxicity decreases with increasing hardness and alkalinity. Levels of dissolved organic matter found in most freshwaters are generally sufficient to remove copper toxicity, while copper is adsorbed strongly by suspended material in groundwater and freshwater ecosystems.

Lead

Lead is a naturally occurring bluish-gray metal found in small amounts in the earth's crust. Lead can be found in all parts of our environment. Much of it comes from human activities including burning fossil fuels, mining, and manufacturing. Lead has many different uses. It is used in the production of batteries, ammunition, metal products (solder and pipes), and devices to shield X-rays. Because of health concerns, lead from gasoline, paints and ceramic products, caulking, and pipe solder has been dramatically reduced in recent years.

- Lead is an element, so it does not break down.
- When lead is released into the air, it may be transported long distances before it lands and stays on the ground.
- Once on the ground, lead can often stick to soil particles.
- Lead in soil can get into groundwater, but the amount of lead that moves into groundwater will depend on the lead compound and soil type.

The effects of lead are the same whether it enters the body by breathing it in or eating it. Lead can affect almost every organ and system in your body. The nervous system is the main target for lead poisoning in children and adults. Long-term exposure can result in decreased learning, memory, and attention, and weakness in fingers, wrists, or ankles. Lead exposure can cause anemia (low iron in the blood) and damage to the kidneys. It can also cause increases in blood pressure, particularly in middle-aged and older individuals. Exposure to high lead levels can severely damage the brain and kidneys and can cause death. In pregnant women, exposure to high levels of lead may cause a miscarriage. In men, it can cause damage to reproductive organs.

Nickel

Nickel is a very abundant natural element. Pure nickel is a hard, silvery-white metal. Nickel can be combined with other metals, such as iron, copper, chromium, and zinc, to form alloys. These alloys are used to make coins, jewelry, and items such as valves and heat exchangers. Most nickel is used to make stainless steel. Nickel can combine with other elements such as chlorine, sulfur, and oxygen to form nickel compounds. Many nickel compounds dissolve fairly easy in water and have a green color. Nickel compounds are used for nickel plating, to colour ceramics, to make some batteries, and as substances known as catalysts that increase the rate of chemical reactions. Nickel is found in all soil and is emitted from volcanoes. Nickel is also found in meteorites and on the ocean floor. Nickel and its compounds have no characteristic odour or taste.

Nickel occurs naturally in air, water, soil, and sediments. In the atmosphere, nickel is bound to particulate matter where it is dispersed by wind and moved by sedimentation, dry deposition, rain, or snow. In water, soluble nickel can dissolve or is bound to particulate matter. Nickel is strongly absorbed by soil and sediments. It favours binding with high molecular weight soil humic substances such as agricultural soils. Certain plants may uptake nickel from soils since it is necessary for growth. Nickel does not bioconcentrate in fish or other aquatic organisms.

Health effects include:

- Respiratory illness was reported in individuals occupationally exposed to nickel in welding fumes or dusts.
- Lung inflammation and nasal olfactory epithelium lesions have been observed in animals exposed to soluble and insoluble nickel compounds.
- Alterations in immune function have been reported in animals following inhalation or oral exposure.
- Offspring of animals orally exposed to nickel during pregnancy had decreased survival and developmental abnormalities.

Zinc

Zinc is an essential element in the diet of all living organisms. Natural zinc levels are present in food and water, and small amounts are regularly ingested. Zinc can be transported as particles released into the atmosphere or as dissolved compounds in groundwater. Zinc attaches to soil and sediment particles and most of the zinc will stay bound. Some zinc will leach into groundwater and hence lakes and streams where it combines with other organic or inorganic matter (ATSDR, https://www.atsdr.cdc.gov/ToxProfiles/tp60-c1-b.pdf)

In many types of aquatic plants and animals, growth, survival and reproduction can be adversely affected by elevated zinc levels. Zinc in aquatic systems tends to be partitioned into sediment and less frequently dissolved as hydrated zinc ions and organic and inorganic complexes (USEPA, 2008). Terrestrial invertebrates show sensitivity to elevated zinc levels, with reduced survival, growth and reproduction. Elevated zinc can also cause a wide range of problems in birds and mammals with either too little or too much being harmful. For plant growth however, it can be toxic at high soil concentrations. Soil pH and moisture concentrations are factor that influences zinc availability to plants, with bioavailability increasing with lower pH values. At pH above 8 trends are complex and below 4, acidity increases zinc toxicity. Zinc also is relatively immobile in the soil profile, attaching itself to soil and sediment particles. Toxicity also decreases with increasing water hardness and decreasing pH within water bodies. ANZECC indicates that most freshwater bodies contain sufficient dissolved organic matter to remove zinc toxicity in all but very soft waters.

Generally, zinc and its salts have high acute and chronic toxicity to aquatic life in polluted waters. Fish can accumulate zinc moderately. Insufficient data is available to evaluate or predict the short term and long-term effects of zinc to plants, birds or land animals (ATSDR. https://www.atsdr.cdc.gov/ToxProfiles/tp60.pdf).

In terms of human health exposure routes, inhalation and ingestion are the primary exposure routes.

Aldrin and Dieldrin

Aldrin and dieldrin are insecticides (products that kill insects) that are very similar. Pure aldrin and dieldrin are white powders with a mild chemical odor. They are not found naturally in the environment. Aldrin quickly breaks down to dieldrin in the body and also in the environment.

Aldrin and dieldrin were widely used as pesticides for crops like corn, cotton, and citrus fruit from the 1950s until 1970. They were also used to control termites until 1989. These chemicals have not been used as insecticides after 1989.

Low levels of aldrin and dieldrin have been measured in soil, sediment, surface water, and groundwater. Sunlight and bacteria change aldrin to dieldrin so that we mostly find dieldrin in the environment.

Aldrin and dieldrin bind tightly to soil and slowly evaporate to the air. Dieldrin in soil and water breaks down very slowly. Plants take in and store aldrin and dieldrin from the soil.

People who on purpose or accidently ate large amounts of aldrin or dieldrin have suffered convulsions (spasms), and some died. Workers who were exposed to lower amounts of these chemicals, but for a longer period of time, had headaches, dizziness, irritability, vomiting, and uncontrolled muscle movement. Once they were away from exposure to these chemicals, the workers got better quickly. Because these chemicals can build up in the body, health effects can happen after a longer period of exposure, even to smaller amounts.

In animal studies, animals fed high and low amounts of aldrin or dieldrin had convulsions, tremors, learning problems, liver damage, and reproduction problems. When pregnant animals were fed aldrin or dieldrin, their pups (babies) were less likely to survive. It is not known if these same effects would happen in people. The amount of aldrin or dieldrin that causes these effects in animals is much higher than found in the environment.

13.8 Transportation Mechanisms

The following transportation mechanisms for COPC have been identified:

- Transportation of soil during redevelopment;
- Windborne transportation of soil during redevelopment;
- Leaching of COPC from soil into groundwater;
- Transportation of contaminants down-hydraulic gradient in groundwater; and
- Expression of contamination into surface water body, followed by migration downstream.

13.9 Exposure Pathways

The following are considered the likely primary exposure pathways for exposure to COPCs:

- Dermal contact with contaminated soil;
- Accidental ingestion/inhalation of contaminated soil;
- Uptake of contamination in soil by flora, followed by ingestion by future site users/fauna;
- Uptake of contaminated groundwater by deep rooted vegetation and subsequent ingestion by fauna; and
- Expression of contaminated groundwater into a surface water body, followed by impacts to aquatic organisms and the riparian zone.

13.10 Receptors

Given the current and proposed future land use of the Site and surrounding land uses, the following human and ecological receptors have been identified:

- **Onsite:**
  - Development contractors (during redevelopment works);
  - Future childcare users/workers; and
  - Future flora and terrestrial fauna.
- **Offsite:**
  - Adjacent Site Users (during redevelopment works);
  - GO Edwards Park artificial wetlands; and
  - Swan River.

13.11 Exposure Pathways and Qualitative Risk Assessment

The 'source-pathway-receptor' and risk associated with the identified contamination at the Site is provided in the table below:

Table 30: Risk Assessment

Receptor	Exposure Pathway	Evidence	Pathway (Complete/ Partially Complete/ Incomplete)	Reasoning	Risk
SOIL					
Future childcare users and workers	Dermal contact or accidental ingestion/ inhalation of impacted contaminated soil.	Limited HIL–A exceedances, limited to lead, benzo(a)pyrene and a combination of aldrin and dieldrin. Impacts noted within shallow soils (≤ 0.50 metres) and are delineated. Site soils to be sealed with a low likelihood of site occupants interacting with impacted material.	Incomplete	The assessment identified lead and aldrin/dieldrin to exceed the adopted HIL-A guideline at sample locations S10, S12 and S20. The impacts were identified at relatively shallow depths (≤ 0.5 mbgl). These exceedances are identified to be beneath the footprint of the proposed childcare building and car park areas. This breaks the exposure pathway, resulting in a low risk to any future site users. In addition, the childcare activities are located on the first floor, providing an additional barrier to exposure. Should the proposed development footprint change, this assessment of risk will require revision.	**Low**

Interaction between site flora and childcare users	Uptake of COPCs by grown vegetables/ produce, followed by ingestion by childcare users.	Some EIL/ESL exceedances, mainly copper, nickel and zinc with some minor impacts of TRHs (F3) and benzo(a)pyrene. Impacts noted ranging between 0.00 - 2.00 mbgl and have been successful delineated. Impacts noted below the proposed future building footprint or car park. Childcare activities are to be located upstairs, and plants are anticipated to be grown in isolated garden beds on the ground floor (ornamental) using soil imported from offsite (raised beds).	Incomplete	The exceedances for metals, based on current development plans, will be beneath either the planned footprint of the childcare centre, the car park, the footpath connecting the car park to the childcare centre or beneath the proposed tenancies (Tenant 1 and Tenant 2). Benzo(a)pyrene and TRH (F3) were also detected at concentrations exceeding their respective ESL guidelines at select locations (and above HILs in previous investigations). Similar to the metals, it is anticipated that they will be beneath the footprint of the planned development with sealed surfaces proposed. These contaminants were not noted in groundwater. No produce gardens have been included for the ground floor in the current design of the childcare centre, with isolated garden beds using imported soils anticipated for ornamentals.	**Low**
Onsite: Future flora and fauna	Uptake of COPCs by flora, followed by ingestion by fauna.	Some EIL/ESL exceedances, mainly copper, nickel and zinc with some minor impacts of TRHs (F3) and benzo(a)pyrene. Impacts noted ranging between 0.00 - 2.00 mbgl and have been successful delineated at further depth. Impacts noted below the proposed future building footprint or car park. Likely to be only limited locations for flora growth based on current development designs	Incomplete	Current designs indicate that only a single (1) garden bed will be present at surface level within the site. Based on anticipated development, it is considered unlikely that chemical uptake by flora will occur. In addition, based on the location of the site (inner city), it is unlikely that significant fauna activity occurs in this location that would be exposed to impacted flora. Should the proposed development footprint change, such as reducing the overall surface area of sealed surfaces, this assessment of risk will require revision.	**Low**

		(single garden bed at car park entry). Located in a centralised, metropolitan area, limited fauna activity anticipated.			
Development contractors	Dermal contact or accidental ingestion/ inhalation of impacted contaminated soil during soil disturbance.	Limited HIL–A exceedances, limited to lead, benzo(a)pyrene and a combination of aldrin and dieldrin. Workers are likely to interact with soil during the excavation phase, though it is anticipated that the soil would be handled using excavation machinery. At the conclusion of excavation activities and impacted soils have been disposed of offsite, the likelihood of further exposure is considered low.	Partially complete, incomplete with appropriate management practices	Some HIL exceedances for contaminants were noticed in shallow soils (0.5 mbgl). While there is a possibility of a complete pathway exposure occurring, excavation of soils is unlikely to be undertaken by hand, reducing the likelihood of dermal exposure. Appropriate risk management strategies should be applied to reduce exposure risk (e.g., dust suppression during excavation, appropriate HSE protocols and a site management plan). Appropriate PPE should be utilised during excavations, noting that it is the least preferred form of risk management. A Moderate risk rating is applied if no risk management strategies are implemented.	**Low**

Adjacent site users	Dermal contact or accidental ingestion/ inhalation of impacted contaminated soil during soil disturbance.	Limited HIL–A exceedances, limited to lead, benzo(a)pyrene and a combination of aldrin and dieldrin. No additional exceedances were identified. Adjacent to enclosed office buildings, highway and parkland. Area considered commercial/industrial.	Incomplete	Some HIL exceedances for contaminants were noticed in shallow soils (0.5 mbgl). As the site will be completely sealed, it is considered here there is no plausible link between exceedances in soils and adjacent site users. Appropriate risk management controls should be implemented as a means of further preventing public exposure (e.g., signage, barriers) during site development works.	**Low**
Groundwater					
Offsite: Flora and fauna	Uptake of COPCs by deep rooted vegetation, followed by ingestion by fauna.	Current groundwater analysis indicates minimal freshwater exceedances, limited to zinc only. While exceedances of metals in soil were identified, only some were noted below the recorded standing water level, suggesting a low migration likelihood into groundwaters. GO Edwards Park is down hydraulic gradient.	Incomplete	Zinc was recorded above freshwater guidelines, with a 95% species protection at GW04 only. Based on the anticipated flow of groundwater, it is considered that no noted exceedances are present at bore MW3, down-hydraulic gradient. It is therefore considered any zinc is not noted to be leaving the site. Zinc was not identified as elevated within down-hydraulic gradient bores but was identified within the soil profile across the Site; therefore, this may be attributed to site activities. Zinc detections were at depth within what would be deemed the 'capillary fringe zone' of groundwater. Based on the anticipated groundwater flow direction, it is possible that an offsite source is responsible for the detection of zinc. The highest detection was with MW02, which	**Low**

GO Edwards artificial wetlands and the Swan River.	Expression of groundwater into surface water bodies (GO Edwards artificial wetlands and Swan River).	Minimal freshwater exceedances, limited to zinc only. GO Edwards artificial wetlands not directly down-hydraulic gradient. Swan river ~600m down hydraulic gradient.	Incomplete	would be deemed up hydraulic gradient from potential sources of contamination at the Site. Nonetheless, the closest identified receptor that may have deep rooted trees drawing groundwater is GO Edwards Park, which is to the immediate north of the Site. This risk is deemed low however, as the area surrounding GO Edwards Park has been primarily commercial/industrial since the 1960s/70s, and has likely caused the regional deterioration of groundwater quality within the vicinity of the park. Additionally, signs of vegetation stress have not been identified to the immediate north of the Site. Overall, the detection of zinc above the adopted freshwater guidelines is considered to pose a low risk to ecological communities within GO Edwards Park. As the Swan River is located down–hydraulic gradient of the Site (~600m), any impacts originating from the Site would be subject to dispersion and diffusion, resulting in a reduction in concentrations of any COPCs. Therefore, the identified zinc exceedances onsite are considered to pose a low risk to this receptor. This includes the riparian zone, the interface between the water source and land, where water uptake by plants occurs. Additionally, most freshwater bodies contain sufficient dissolved organic matter to remove zinc toxicity.	**Low**

14 Discussion

14.1 Background

Background

The Site comprises of two discrete cadastral 'lots' which have essentially operated as a single lot since the 1960s. These two lots have a combined area of approximately 1,224m^2. Historically, the Site operated as a service station and automotive mechanic, however records indicate that the former underground storage tanks (USTs) were removed in 1997, and remaining site structures were demolished in 2022. The site has been used as a carpark since ~2010.

The site is currently vacant with the exception of some car parking along Burswood Road.

Proposed Use

Elven Property Pty Ltd plan on redeveloping the Site into a two-storey childcare centre, constituting a change to a more sensitive land use. The redevelopment of the Site will most of the area being occupied by either the building footprint or sealed carpark, with the childcare centre itself being located on the first floor. A small, raised car park kerb is currently proposed in the north-eastern portion of the Site, which is anticipated to be the only potential location for planted vegetation.

14.2 Site inspection

No significant information is presented form the site inspection. The site remains undeveloped and mostly sealed, with gated access and no site drainage system.

The cleared area has significant grass/weed coverage because of the assessment being undertaken in mid to late spring.

14.3 Soil Assessment

Soil Investigation

A targeted soil investigation was undertaken at the site which included the sinking of eleven (11) soil bores to varying depths, to a maximum recorded depth of 3.0mbgl. These soil bores further targeted areas of suspected fuel infrastructure (former USTs, fuel lines etc.) and former building footprint locations.

The generalised soil profile was a coarse grained, calcareous SAND which appeared to have been reworked along the western areas of the Site primarily, with rubble identified within the soil profile.

Soil samples were subject to infield screening for VOCs using a PID, with results indicating a negligible presence of volatile hydrocarbons in soil.

Soil Laboratory Analysis

Soils across the Site were subject to an initial analysis for a suite of COPCs including screen metals and metalloids (arsenic, cadmium, chromium (total), copper, lead, mercury, nickel, and zinc), TRH, BTEX-N, PAHs, Organochlorine (OC) and Organophosphorus (OP) Pesticides and Semi volatile Organic Compounds (SVOCs).

Laboratory analysis reported the majority of COPCs to be below the adopted assessment criteria, including HIL-A/HSL-A, EIL/ESL in an Urban residential areas and public open space, TRH Management limits for residential, parkland and public open space. This was with the exception of the following:

- TRHs (F3) exceeded the adopted ESL at two (2) locations;
- Benzo(a)pyrene exceeded the adopted ESL at three (3) locations;
- Aldrin and dieldrin (combined) exceeded the adopted HIL at one (1) location;
- Copper exceeded the site specific (Fresh) EIL at eleven (11) locations;
- Lead exceeded the HIL-A and the site specific (Fresh) EIL at three (3) locations;
- Nickel exceeded the site specific (Fresh) EIL at eight (8) locations;
- Zinc which exceeded both site specific (Fresh & Aged) EIL at fourteen (14) locations.

Previous Soil Investigations

Investigations undertaken in 2023 indicted the following:

- TRH, BTEX, Fuel oxygenates, Halogenated Aliphatic Compounds did not record any exceedance of adopted guideline, and in general, were below the laboratory PQL.

- Benzo(a) pyrene was detected above adopted ESL guideline at a total of 5 sample locations (between 0.5 and 1.5 mbgl). These results exceeded HIL-A guidelines at two sample locations, at 1.0 mbgl and 1.5 mbgl.

- Zinc exceeded EIL guidelines at 6 sample locations, between 1 mbgl and 1.5 mbgl.

Soil Risk Assessment

From a human health perspective, the reported lead Benzo(a) pyrene and combined aldrin/dieldrin result are considered to pose a low risk to future site occupants given the proposed development plan of the building which will result in the soil surface sealed below either the building footprint, carpark and/or adjacent walkways, with the childcare centre located on the first floor of the complex. As such, physical contact with affected soils is not considered possible upon development conclusion and no plausible link between contaminant and receptor can be identified.

While there is a partial exposure pathway for onsite workers during the excavation phase of development activities, which could present a moderate exposure risk, by preparing appropriate risk management procedures within a site-specific construction and environment management plan (CEMP), and implementing them, the site can be considered low risk. The CEMP should also incorporate potential exposure to bystanders/pedestrians that could be at risk of exposure during excavation activities.

There is only one (1) location on the current plan where vegetation is likely to be grown (ornamental), in the northeast portion of the site (carpark raised kerb). As such, it is considered unlikely that chemical uptake by flora will occur. It is considered that exceedances of ecological guidance noted within site soils do not pose a risk to any nearby receptors or future use of the site, with additional reference to groundwater results.

14.4 Groundwater Assessment

Groundwater Investigation

Prior to this investigation, a network of three (3) preexisting groundwater monitoring wells (GW01-GW03) were present at the Site (installation date unknown). Based on comments by the site auditor, a fourth monitoring well (GW04) was installed adjacent to the western site boundary.

Groundwater Laboratory Analysis

Groundwater samples were subject to analysis of the same suite of COPCs as the soil samples, being screen metals and metalloids (arsenic, cadmium, chromium (total), copper, lead, mercury, nickel, and zinc), TRH, BTEX-N, PAHs, Organochlorine (OC) and Organophosphorus (OP) Pesticides and Semi volatile Organic Compounds (SVOCs).

The laboratory analysis reported most COPCs to be below the adopted assessment criteria, aside from:

- Zinc which exceeded its ANZAST, 2018 Fresh Water 95% assessment criteria at GW04 (newly installed western boundary bore).

Previous Groundwater Investigations

Investigations undertaken in 2023 indicted the following:

- TRH, BTEX, Fuel oxygenates, Halogenated Aliphatic Compounds and PAH were below the laboratory PQL in all (3) groundwater bores.
- Zinc exceeded the Freshwater guidelines at MW02 and MW03.
- Copper exceeded the Freshwater guidelines at MW01 and MW03.

Groundwater Risk Assessment

Within this investigation sampling event, elevated zinc was detected GW04, with this monitoring well situated cross-hydraulic gradient of the Site; therefore, the site may be the source of the zinc, noting however that the other three (3) wells recorded concentrations slightly below the guideline, suggesting zinc may be naturally elevated in local groundwater. This is assessment is compounded by zinc tending to not be a contaminant associated with petroleum or diesel.

The area surrounding the Site has been commercial/industrial since the 1960s/70s, which most likely has resulted in the deterioration of groundwater quality in the area. In terms of sensitive receptors, the artificial wetlands at GO Edwards Park are down hydraulic gradient, however, no exceedance of noted metals is observed in the groundwater bore down hydraulic gradient of the site.

While the Swan River is located down hydraulic gradient, it is at a distance of ~600m. Across this distance, any impacts originating from the Site would be subject to dispersion and diffusion, resulting in a reduction in concentrations of any COPCs. Therefore, the identified zinc exceedances are considered to pose a low risk to the Swan River, including its riparian zone.

It is considered that the site does not pose a risk to nearby ecological receptors.

15 Conclusions

Based on the investigation undertaken, the following conclusions have been drawn:

- Overall, it appears that the use of the Site as a service station and automotive mechanic has resulted in some contamination to the soil profile and minimal impacts to site groundwater.
- The soil analytical results indicted some exceedances of various adopted guidelines for TRH, PAHs (benzo(a)pyrene), OC/OPs (aldrin and dieldrin – combined) and metals (copper, lead, nickel, zinc). With these contaminants delineated.
- The groundwater investigation results indicted concentrations below adopted guideline levels with the exception of Zinc which was not noted down-hydraulic gradient of the site.
- The proposed redevelopment of the site will result in a mostly encapsulated (sealed site) with the most sensitive land use (childcare) located on the first floor of the proposed development. As such, no plausible linkage between exceedances of health investigation levels and site users can be ascertained.
- There may be some risk to future onsite workers excavating soils during development and adjacent pedestrians, the risk can be minimised to low through the design and implementation of appropriate risk management controls.
- No ecological risk is noted to exceedances of contaminants in site soils or groundwater, based on the proposed development. The risk from impacted groundwater is considered low and not noted to be migrating from site. The closest possible receptor would be deep rooted trees within GO Edwards Park. It is considered that trees in the park have likely adapted to a deteriorated groundwater quality, with the surrounding area being commercial/ industrial since the 1960s/70s. The next closest receptor is the Swan River, which is located at a distance of ~600m. Across the distance, any potential contamination originating at the Site would be subject to diffusion and dispersion, reducing its concentration and the risk the contaminant poses.

In summary, the site soils and groundwater have been appropriately investigated with reference to historical use of the site and consideration of the proposed development. The current design for the childcare centre and associated carpark indicates that most identified exceedances would fall beneath the footprint of the building or carpark areas, breaking the exposure pathway linkage.

Slightly elevated concentrations of dissolved zinc within the groundwater are not anticipated to pose a risk to local receptors (groundwater, surface expressions (Swan River), GO Edwards Park) based on dilution effect provided by groundwater (diffusion and dispersion) and the lack of significant receptors being directly adjacent to the site.

Based on these findings, it is considered that the site poses negligible risk to human health and environmental receptors both on and offsite.

15.1 Recommendations

Based on the findings of the investigation, the following is recommended:

- Based on the findings of the investigations undertaken, it is considered here that noted contaminants onsite are contained within the site and pose no risk to human or ecological health based on the proposed development, which would warrant re-classification to ‘decontaminated’ under the Contaminated Sites Act (2003).
- This report is to be submitted to the Auditor for preparation of a Mandatory Auditors Report.

- For any future site development works, a Site Management Plan (SMP) and/or Construction and Environmental Management Plan (CEMP) should be prepared to mitigate against any risk during construction activities.

16 Assumptions, Limitations and Liabilities

The conclusions drawn and recommendations made here have been developed on the assumption that the data collected accurately represents the conditions at the site. Uncertainties pertaining to the data collected include the following:

- Temporal uncertainty; contaminants may not have been present in the tested medium at the time of sampling but may be present within the site at other times.
- Spatial uncertainty; no sampling program can provide complete certainty that no contamination exists anywhere on the site.
- Scope limitations; this report was prepared as a limited and targeted investigation.
- Targeted efforts have been made in this report to assess areas within the site considered likely to contain any potential contamination in soil, and as such, provide an appropriate assessment of the contamination status of the site.
- It is reasonable to suggest that the potential for other pockets of contamination, including but not limited to, buried material, may occur in other portions of this site.
- The potential for isolated small pockets of contaminated soils to occur elsewhere within the site cannot be fully discounted. No perfect strategy exists which can conclusively confirm that all soils at any site are completely free from contamination.

This report is produced strictly in accordance with the scope of services set out in the contract or otherwise agreed in accordance with the contract. West Soil and Water Pty Ltd makes no representations or warranties in relation to the nature and quality of soil and water other than the visual observation and analytical data in this report. In the preparation of this report, West Soil and Water Pty Ltd has relied upon documents, information, data, and analyses ('client's information') provided by the client and other individuals and entities. In most cases where client's information has been relied upon, such reliance has been indicated in this report. Unless expressly set out in this report, West Soil and Water Pty Ltd has not verified that the information is accurate, exhaustive, or current and the validity and accuracy of any aspect of the report including, or based upon, any part of the client's information is contingent upon the accuracy, exhaustiveness, and currency of the client's information.

West Soil and Water Pty Ltd shall not be liable to the client or any other person in connection with any invalid or inaccurate aspect of this report where that invalidity or inaccuracy arose because the client's information was not accurate, exhaustive, and current or arose because of any information or condition that was concealed, withheld, misrepresented, or otherwise not fully disclosed or available to West Soil and Water Pty Ltd.

Aspects of this report, including the opinions, conclusions, and recommendations it contains, are based on the results of the investigation, sampling and testing set out in the contract and otherwise in accordance with normal practices and standards. The investigation, sampling and testing are designed to produce results that represent a reasonable interpretation of the general conditions of the site that is the subject of this report. However, due to the characteristics of the site, including natural variations in site conditions, the results of the investigation, sampling and testing may not accurately represent the actual state of the whole site at all points. It is important to recognise that site conditions, including the extent and concentration of contaminants, can change with time. This is particularly relevant if this report, including the data, opinions, conclusions, and recommendations it contains, are to be used a considerable time after it was prepared. In these circumstances, further investigation of the site may be necessary. Subject to the terms of the contract between the Client and West Soil and Water Pty Ltd, copying, reproducing, disclosing, or disseminating parts of this report is prohibited (except to the extent required by law) unless the report is produced in its entirety including this page, without the prior written consent of West Soil and Water Pty Ltd.

17 References

West Soil and Water suggests the following documents/guidance, to assist in understanding your obligations relating to contaminated sites in WA.

- Contaminated Sites Fact Sheets and Technical Advice: https://www.der.wa.gov.au/your-environment/contaminated-sites/60-fact-sheets-and-technical-advice

Mapping tools:

- CSIRO. Australian Soil Resource Information System (ASRIS) Mapping Tool. http://www.asris.csiro.au/mapping/viewer.htm
- Government of Western Australia, Water Information Reporting Tool. DWER. http://wir.water.wa.gov.au/Pages/Water-Information-Reporting.aspx
- Government of Western Australia, Public Drinking Water Source Area Mapping Tool. DWER. https://www.water.wa.gov.au/maps-and-data/maps/public-drinking-water-source-area-mapping-tool
- Government of Western Australia, Department of Mines, Industry Regulation and Safety. Interactive Geological map (GeoVIEW.WA). https://www.dmp.wa.gov.au/GeoView-WA-Interactive-1467.aspx
- Government of Western Australia, Department of Planning, Lands and Heritage. Plan WA Mapping Tool. https://www.wa.gov.au/service/natural-resources/land-use-management/view-planning-data-planwa
- Government of Western Australia, Landgate. Locate Mapping Tool. https://www0.landgate.wa.gov.au/maps-and-imagery/interactive-maps/locate

All project works were undertaken in general accordance, and with reference to the following standards and guidelines:

- DoH 2021 Guidelines for the Assessment, Remediation and Management of Asbestos Contaminated Sites in Western Australia
- DWER 2021 Assessment and Management of contaminated sites. Contaminated Sites Guidelines.
- NEPM 2013a, National Environment Protection (Assessment of Site Contamination) Measure. Schedule B (1) Guideline on investigation levels for soil and groundwater. National Environmental Protection Council, Adelaide.
- NEPM 2013b, National Environment Protection (Assessment of Site Contamination) Measure. Schedule B (2) Guideline on Data Collection, Sample Design and Reporting. National Environmental Protection Council, Adelaide.
- Standards Australia 2005, AS/NZS 4482.1:2005. Guide to the investigation and sampling of sites with potentially contaminated soil. Part 1: Non-volatile and semi-volatile compounds. www.standards.com.au.
- Standards Australia 2005, AS/NZS 4482.2:2005. Guide to the investigation and sampling of sites with potentially contaminated soil. Part 2: Volatile Substances. www.standards.com.au.
- Standards Australia 1998, AS/NZS 5667.1:1998. Water Quality – Sampling. Part 1: Guidance on the Design of Sampling Programs, Sampling Techniques and the Preservation and Handling of Samples. www.standards.com.au.
- Standards Australia 1998, AS/NZS 5667.11:1998. Water Quality – Sampling. Part 11: Guidance on Sampling of Groundwaters. www.standards.com.au.

Other references:

- Acid Sulfate Soil Risk Map, Swan Coastal Plain, Department of Water and Environmental Regulation.
- Environmental Due Diligence, Lots 56 and 557 Burswood Road, Burswood WA, Envobis, 2014.
- Interpreted bedrock geology 1:500,000' map, Department of Mines, Industry Regulation and Safety.
- Petroleum products in drinking-water, World Health Organisation.
- Regolith of WA – 500 metre grid' map, Department of Mines, Industry Regulation and Safety.
- Rights in Water and Irrigation Act, 1914.
- Using the combined sesoil/at123D Models to develop site-specific impact to groundwater soil remediation standards for mobile contaminants, New Jersey Department of Environmental Protection, 2014.
- West Soil and Water. 2023. Acid Sulfate Soil Investigation. 147 Burswood Road. Prepared for Elven Property.
- West Soil and Water. 2023. Due Dilligence Contamination Investigation. 147 Burswood Road. Prepared for Elven Property.

395750

395800

6462900

6462850

LEGEND

- INVESTIGATION BOUNDARY
- BACKGROUND SAMPLE LOCATION
- HISTORICAL BUILDING FOOTPRINT

0 7.5 15 m

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Figure 1. SITE LAYOUT AND LOCALITY

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Date: March 2025
Proj: WGS 84 EPSG:4326
Audrey@Westsoilandwater.com.au

395750

395800

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6462850

S12			
Depth	mg/kg	Contaminant	Guideline exceedance
0.25	320	TRH (F3)	ESL
	115	Copper	EIL - FRESH AND AGED
	352	Lead	EIL FRESH / HIL-A
	4	Nickel	EIL - FRESH AND AGED
	301	Zinc	EIL - FRESH AND AGED
0.50	39	Copper	EIL - FRESH AND AGED
1.30	187	Zinc	EIL - FRESH AND AGED

S13			
Depth	mg/kg	Contaminant	Guideline exceedance
0.25	4	Nickel	EIL - FRESH AND AGED
0.50	55	Copper	EIL - FRESH AND AGED
	3	Nickel	EIL - FRESH AND AGED
1.50	101	Zinc	EIL - FRESH AND AGED
	1.1	Benzo(a) pyrene	ESL

S17			
Depth	mg/kg	Contaminant	Guideline exceedance
0.25	21	Copper	EIL - FRESH AND AGED
1.40	62	Copper	EIL - FRESH AND AGED
	404	Zinc	EIL - FRESH AND AGED
2.00	27	Copper	EIL - FRESH AND AGED
	8	Nickel	EIL - FRESH AND AGED
	214	Zinc	EIL - FRESH AND AGED

S15			
Depth	mg/kg	Contaminant	Guideline exceedance
0.00	0.9	Benzo(a) pyrene	ESL
0.50	1.5	Benzo(a) pyrene	ESL
	4	Nickel	EIL - FRESH AND AGED

S20			
Depth	mg/kg	Contaminant	Guideline exceedance
0.00	105	Copper	EIL - FRESH AND AGED
	460	Lead	EIL FRESH / HIL-A
	5	Nickel	EIL - FRESH AND AGED
	189	Zinc	EIL - FRESH AND AGED
0.50	320	TRH (F3)	ESL
	54	Copper	EIL - FRESH AND AGED
	3	Nickel	EIL - FRESH AND AGED
	121	Zinc	EIL - FRESH AND AGED
	12	Aldrin + Dieldrin	HIL-A

S19			
Depth	mg/kg	Contaminant	Guideline exceedance
1.50	1	Benzo(a) pyrene	ESL

S10			
Depth	mg/kg	Contaminant	Guideline exceedance
0.50	93	Copper	EIL - FRESH AND AGED
	442	Lead	EIL FRESH / HIL-A
	6	Nickel	EIL - FRESH AND AGED
	277	Zinc	EIL - FRESH AND AGED

12
18
13
14
17
16
15
20/GW04
19
10
11

LEGEND

INVESTIGATION BOUNDARY

SAMPLE LOCATION

0 7.5 15 m

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Figure 2. SOIL SAMPLE LOCATIONS AND EXCEEDANCES

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Proj: WGS 84 EPSG:4326
Audrey@Westsoilandwater.com.au

395750

395800

6462900

6462850

GW (RL) 3.189

GW (RL) 3.613

GW (RL) 3.693

GW (RL) 3.641

MW4		
mg/L	Contaminant	Guideline exceedance
0.01	Zinc	ANZECC 2000 FW 95%

LEGEND

- INVESTIGATION BOUNDARY
- GROUNDWATER BORE LOCATION
- GROUNDWATER FLOW DIRECTION (TRIANGULATED)
- INTERPRETED SITE GROUNDWATER FLOW DIRECTION

0 7.5 15 m

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Figure 3. GROUNDWATER

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Audrey@Westsoilandwater.com.au

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S12			
Depth	mg/kg	Contaminant	Guideline exceedance
0.25	320	TRH (F3)	ESL
	115	Copper	EIL - FRESH AND AGED
	352	Lead	EIL FRESH / HIL-A
	4	Nickel	EIL - FRESH AND AGED
	301	Zinc	EIL - FRESH AND AGED
0.50	39	Copper	EIL - FRESH AND AGED
1.30	187	Zinc	EIL - FRESH AND AGED

S6			
Depth	mg/kg	Contaminant	Guideline exceedance
1.50	183	Zinc	EIL - FRESH AND AGED

S5			
Depth	mg/kg	Contaminant	Guideline exceedance
1.00	446	Zinc	EIL - FRESH AND AGED
1.50	2.9	Benzo(a) pyrene	ESL
	4.3	Benzo(a) pyrene TEQ	HIL-A

S13			
Depth	mg/kg	Contaminant	Guideline exceedance
0.25	4	Nickel	EIL - FRESH AND AGED
0.50	55	Copper	EIL - FRESH AND AGED
	3	Nickel	EIL - FRESH AND AGED
1.50	101	Zinc	EIL - FRESH AND AGED
	1.1	Benzo(a) pyrene	ESL

S9			
Depth	mg/kg	Contaminant	Guideline exceedance
1.50	176	Zinc	EIL - FRESH AND AGED

S17			
Depth	mg/kg	Contaminant	Guideline exceedance
0.25	21	Copper	EIL - FRESH AND AGED
1.40	62	Copper	EIL - FRESH AND AGED
	404	Zinc	EIL - FRESH AND AGED
2.00	27	Copper	EIL - FRESH AND AGED
	8	Nickel	EIL - FRESH AND AGED
	214	Zinc	EIL - FRESH AND AGED

S7			
Depth	mg/kg	Contaminant	Guideline exceedance
1.50	111	Zinc	EIL - FRESH AND AGED
	1.7	Benzo(a) pyrene	ESL

S15			
Depth	mg/kg	Contaminant	Guideline exceedance
0.00	0.9	Benzo(a) pyrene	ESL
0.50	1.5	Benzo(a) pyrene	ESL
	4	Nickel	EIL - FRESH AND AGED

S1			
Depth	mg/kg	Contaminant	Guideline exceedance
0.50	1.4	Benzo(a) pyrene	ESL

S20			
Depth	mg/kg	Contaminant	Guideline exceedance
0.00	105	Copper	EIL - FRESH AND AGED
	460	Lead	EIL FRESH / HIL-A
	5	Nickel	EIL - FRESH AND AGED
	189	Zinc	EIL - FRESH AND AGED
0.50	320	TRH (F3)	ESL
	54	Copper	EIL - FRESH AND AGED
	3	Nickel	EIL - FRESH AND AGED
	121	Zinc	EIL - FRESH AND AGED
	12	Aldrin + Dieldrin	HIL-A

S4			
Depth	mg/kg	Contaminant	Guideline exceedance
1.00	2.2	Benzo(a) pyrene	ESL
	3.4	Benzo(a) pyrene TEQ	HIL-A

S10			
Depth	mg/kg	Contaminant	Guideline exceedance
0.50	93	Copper	EIL - FRESH AND AGED
	442	Lead	EIL FRESH / HIL-A
	6	Nickel	EIL - FRESH AND AGED
	277	Zinc	EIL - FRESH AND AGED

S19			
Depth	mg/kg	Contaminant	Guideline exceedance
1.50	1	Benzo(a) pyrene	ESL

S2			
Depth	mg/kg	Contaminant	Guideline exceedance
0.50	7	Nickel	EIL - FRESH AND AGED

S3			
Depth	mg/kg	Contaminant	Guideline exceedance
1.00	1.3	Benzo(a) pyrene	ESL
	126	Zinc	EIL - FRESH AND AGED

LEGEND

INVESTIGATION BOUNDARY

GROUNDWATER BORE LOCATION

SOIL SAMPLE LOCATION (2023)

SOIL SAMPLE LOCATION

0 7.5 15 m

WEST SOIL & WATER

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Figure 4. Historical Soil Exceedances

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Audrey@Westsoilandwater.com.au

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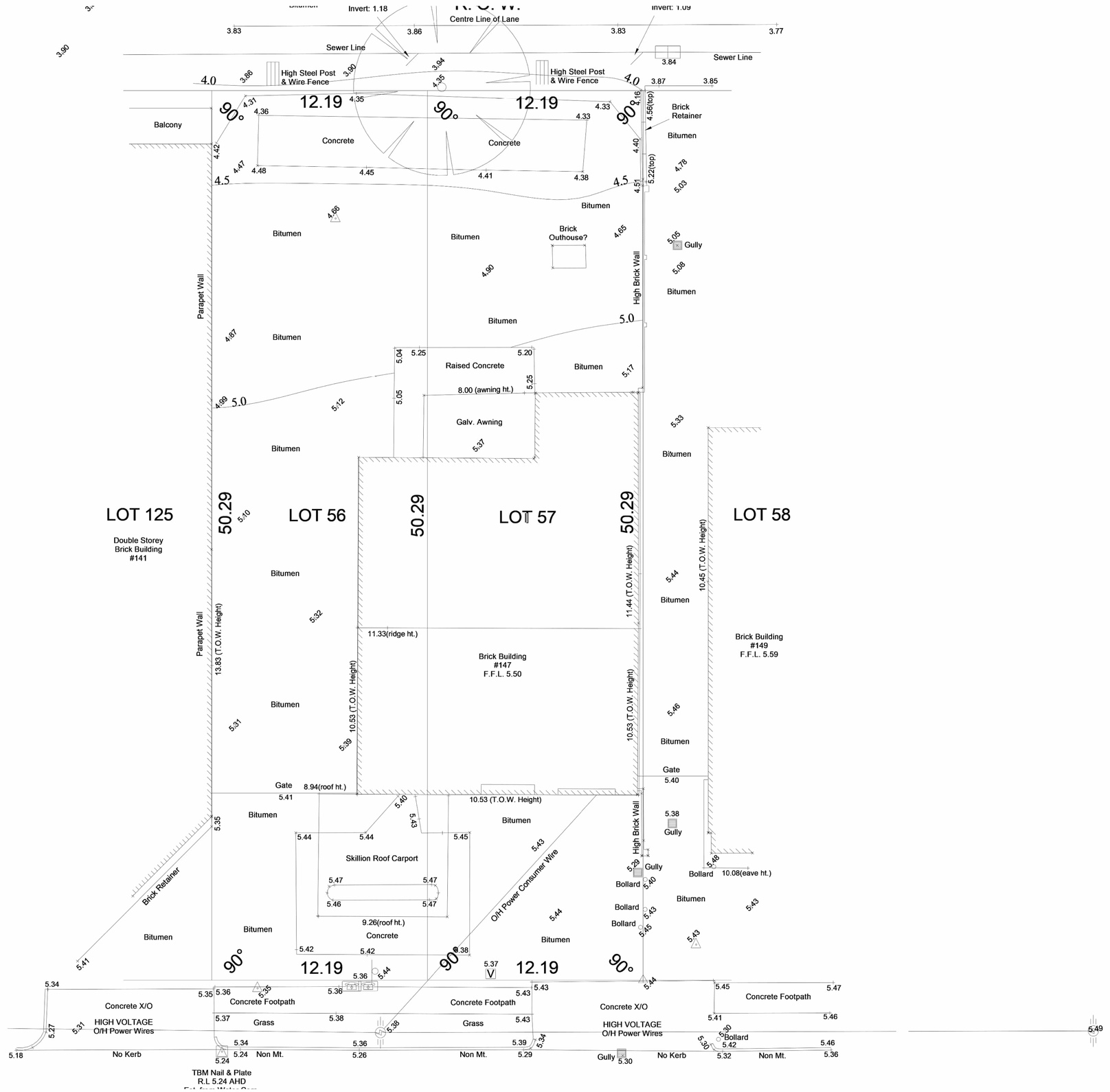
APPENDIX A
Proposed Development



SITE SURVEY
SCALE: 1 : 100

PRELIMINARY

meyer shircore architects

PROPOSED CHILDCARE CENTRE

LOCATION : 147-147 BURSWOOD ROAD, BURSWOOD
FOR : ELVEN PROPERTY

0 1 2 3 4 5 10

DATE: JULY 2024
REVISION: SK015
SHEET: 0000
SCALE: 1 : 100

PROJECT NUMBER
22-8926

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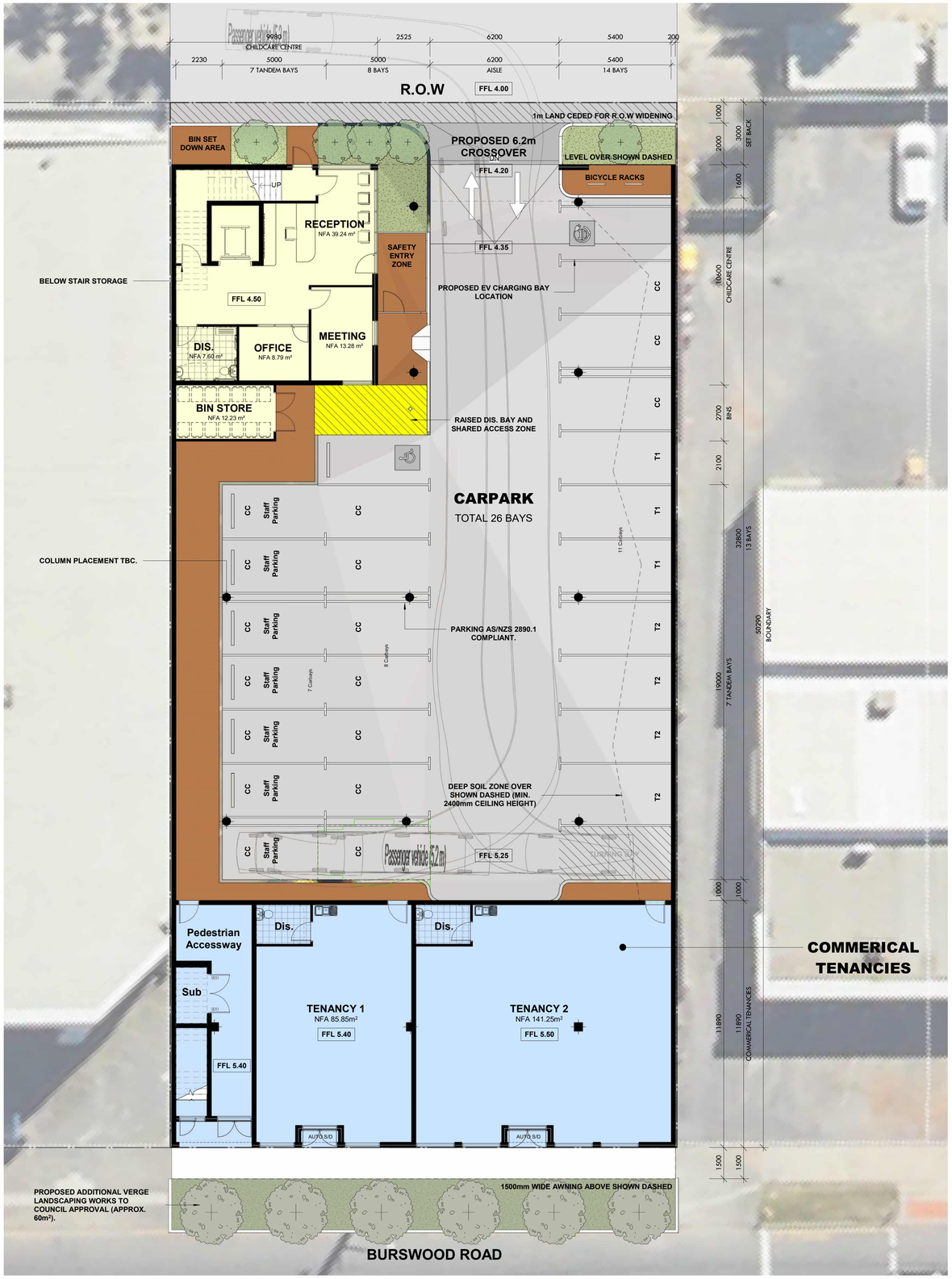
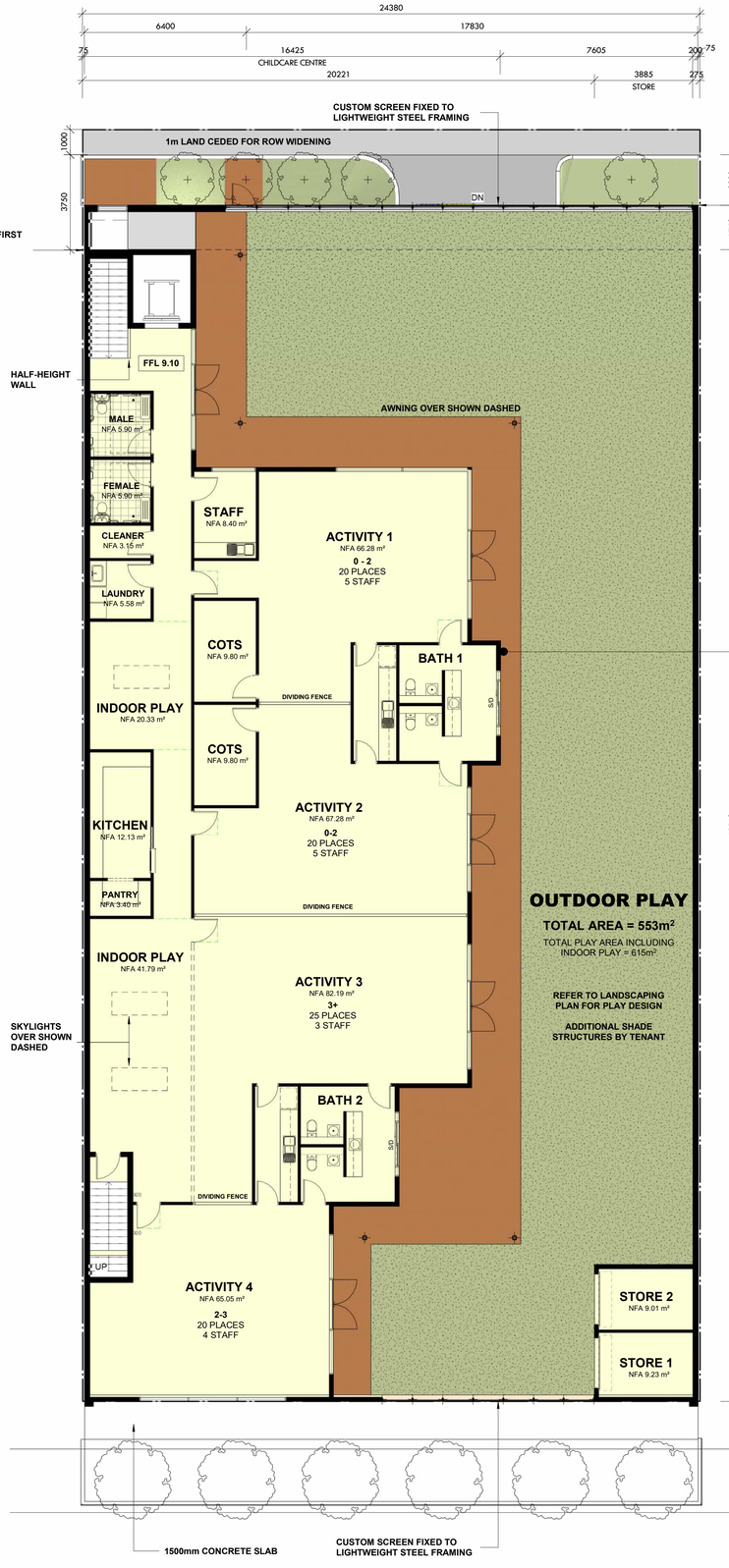
ACN 115 189 216
Suite 2, Ground Floor 437 Roberts Road, Subiaco WA 6008
PO Box 1294 Subiaco WA 6904
t: 08 9381 8511 e: msa@meyershircore.com.au



SITE PLAN & GROUND FLOOR PLAN

SCALE: 1 : 100



FIRST FLOOR PLAN

SCALE: 1 : 100

SITE CRITERIA

1. Site Area

	Total	**1226m²**

2. Floor Area (GFA)

a. Tenancy 1	85m²
b. Tenancy 2	141m²
d. Child Care	
i. Ground Floor	116m²
ii. First Floor	535m²
ii. Store	20m²
Total	**897m²**

ii. Cars Provided

Total Cars Provided	**28 Cars**

4. Landscaping

i. Ground Floor	26 Cars
ii. First Floor	**26 Cars**
Total	
	21m²
	425m2
	447m² (36.5%)

Landscaping
A. Hard Landscaping
Defined as paved walkways either open or covered.
B. Soft Landscaping
Defined as vegetative landscaping.

Gross Floor Area : GFA
A. All Floor Areas on this plan are shown as GROSS FLOOR AREA.
Unless otherwise noted as Nett Floor Area
B. Definition of Gross Floor Area is defined as:
i/ GROSS FLOOR AREA OF TENANCY:
Gross Floor Area of an individual Tenancy is defined as the area contained between the centre line of common tenancy walls and the outside edge of external walls.
ii/ GROSS FLOOR AREA OF A BUILDING:
Gross Floor Area of a Building is defined as the total area contained between the outside edge of external walls

Nett Floor Area : NFA
A. Nett Floor Area of a Tenancy on this plan is defined as the area between external or tenancy dividing walls.
B. This area is inclusive of toilets if the toilets are exclusive to the Tenancy.

PRELIMINARY

meyer shircore architects

PROPOSED CHILDCARE CENTRE

LOCATION : 147-147 BURSWOOD ROAD, BURSWOOD

FOR : ELVEN PROPERTY

0 1 2 3 4 5 10

DATE: JULY 2024
REVISION: SK015
SHEET: A - 1000
SCALE: 1 : 100 @B1

PROJECT NUMBER
22-8926

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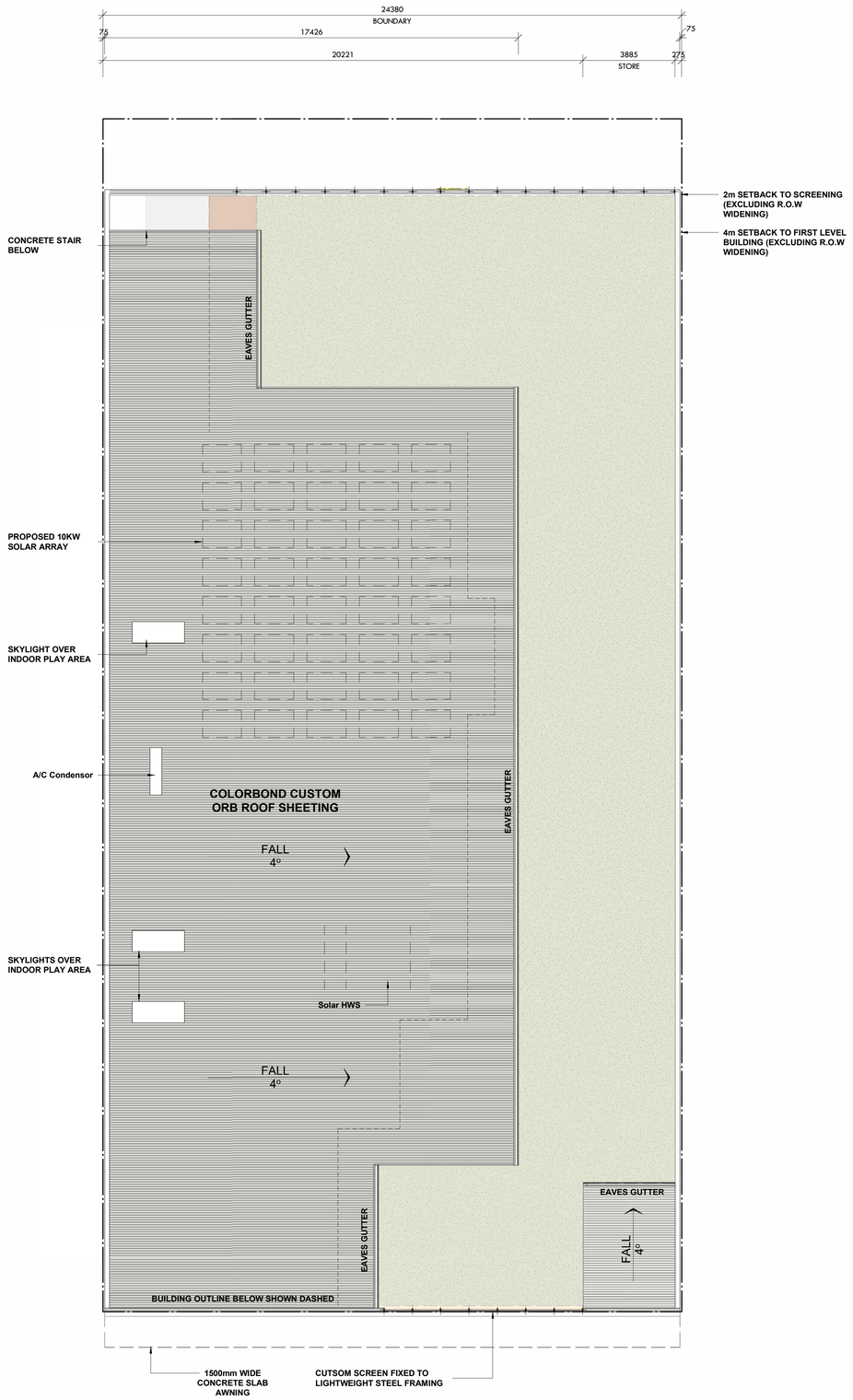
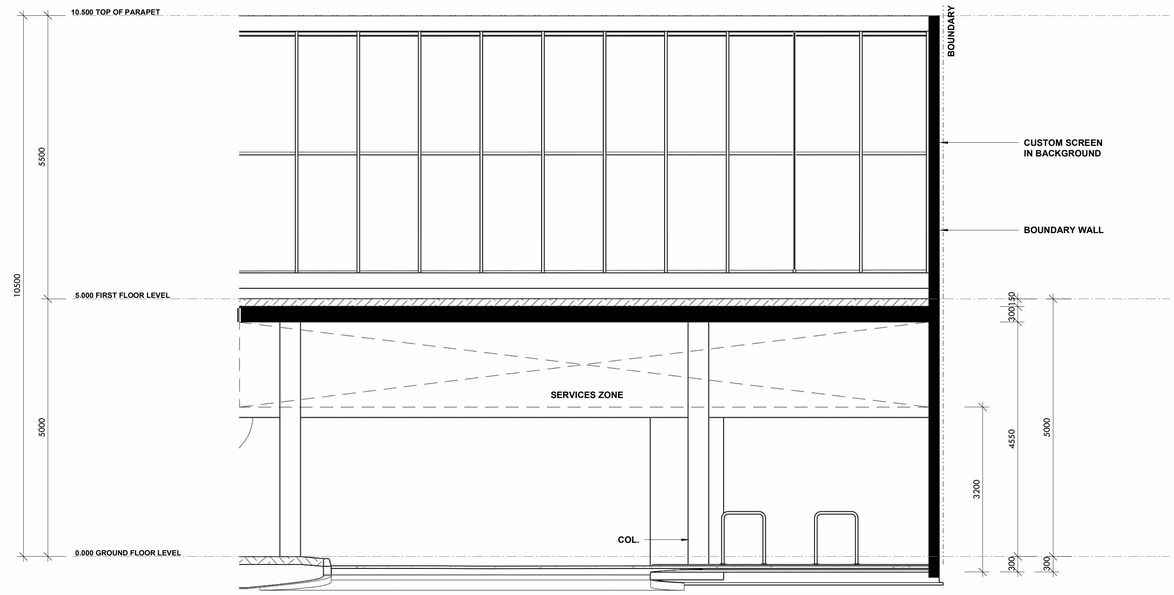
t: 08 9381 8511 e: msa@meyershircore.com.au



ROOF PLAN

SCALE: 1 : 100



DEEP SOIL ZONE SECTION

SCALE: 1 : 50

PRELIMINARY

meyer shircore architects

PROPOSED CHILDCARE CENTRE

LOCATION : 147-147 BURSWOOD ROAD, BURSWOOD

FOR : ELVEN PROPERTY

0 1 2 3 4 5 10

DATE: JULY 2024

REVISION: SK015

SHEET: A - 2000

SCALE: As indicated@B1

PROJECT NUMBER

22-8926

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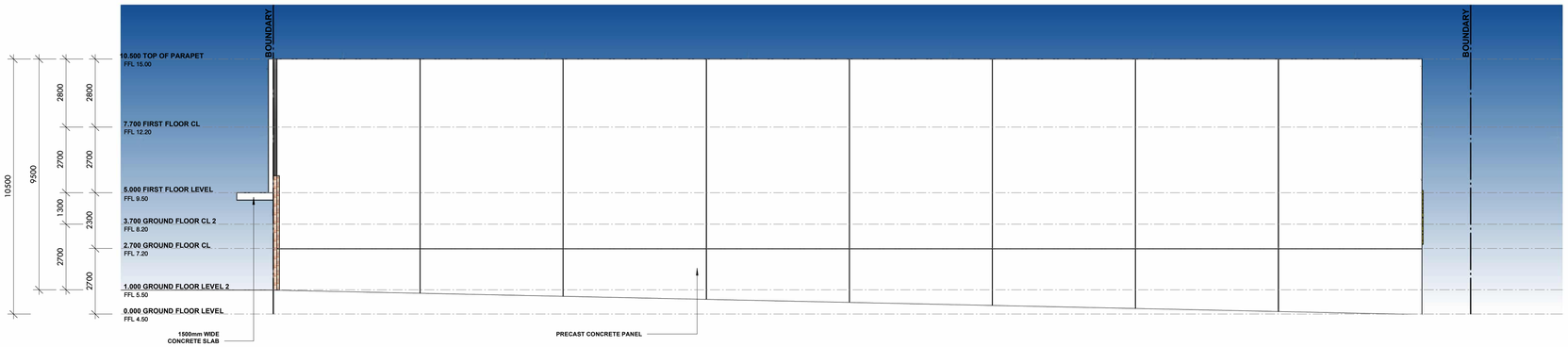
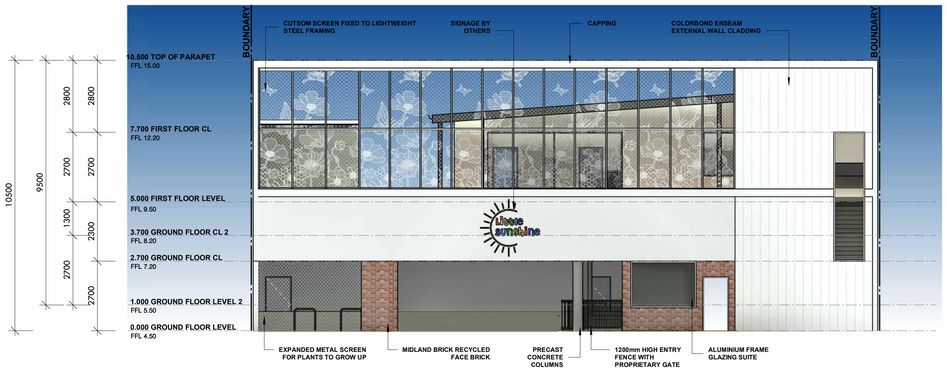
SOUTH ELEVATION (BURSWOOD ROAD)

SCALE: 1 : 100



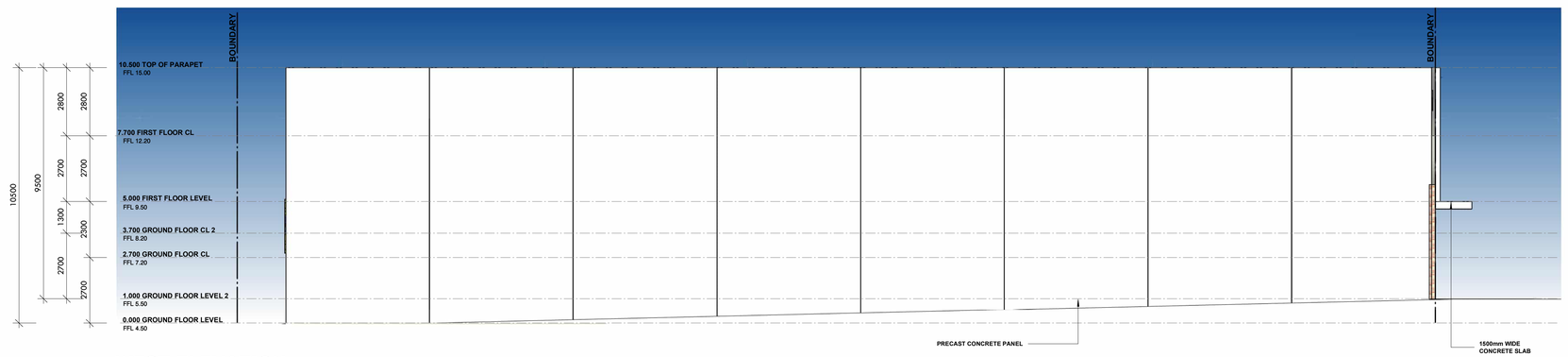
EAST ELEVATION

SCALE: 1 : 100



NORTH ELEVATION

SCALE: 1 : 100



WEST ELEVATION

SCALE: 1 : 100

PRELIMINARY

meyer shircore architects

PROPOSED CHILDCARE CENTRE

LOCATION : 147-147 BURSWOOD ROAD, BURSWOOD

FOR : ELVEN PROPERTY

0 1 2 3 4 5 10

DATE: JULY 2024
REVISION: SK015
SHEET: A - 3000
SCALE: 1 : 100 @B1

PROJECT NUMBER
22-8926

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t: 08 9381 8511 e: msa@meyershircore.com.au

137 BURSWOOD ROAD | 141 BURSWOOD ROAD | 147 BURSWOOD ROAD | 149 BURSWOOD ROAD | 153 BURSWOOD ROAD

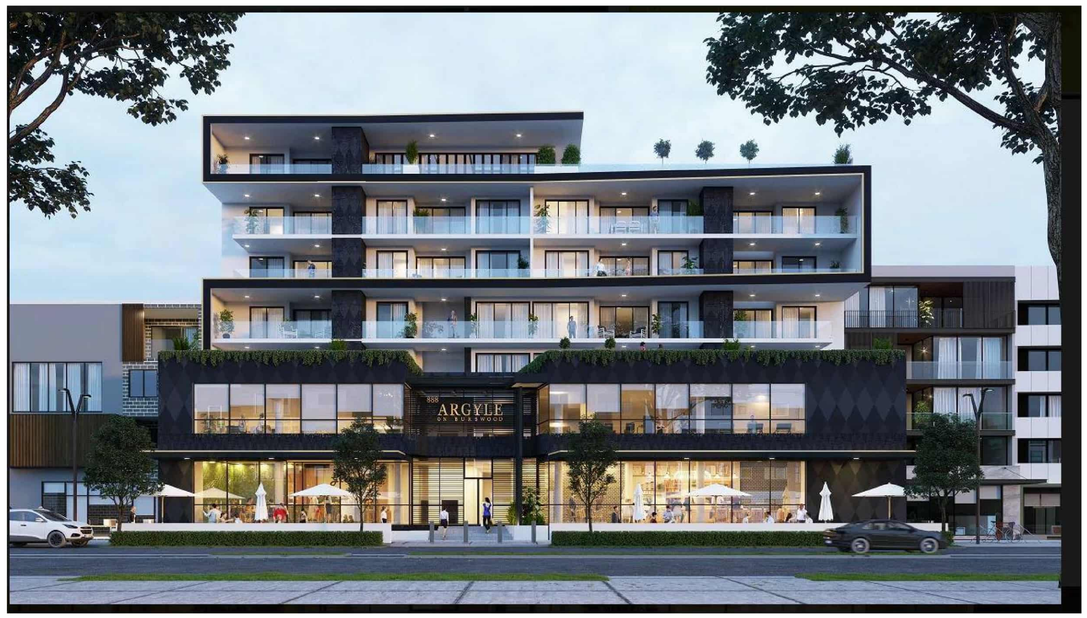
STREETSCAPE

SCALE: 1 : 200

137 BURSWOOD ROAD

141 BURSWOOD ROAD

149 BURSWOOD ROAD



153 BURSWOOD ROAD

PRELIMINARY

meyer shircore architects

PROPOSED CHILDCARE CENTRE

LOCATION : 147-147 BURSWOOD ROAD, BURSWOOD

FOR : ELVEN PROPERTY

0 1 2 3 4 5 10

DATE: JULY 2024

REVISION: SK015

SHEET: A - 3001

SCALE: 1 : 200 @B1

PROJECT NUMBER 22-8926

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BURSWOOD ROAD PERSPECTIVE 1

BURSWOOD ROAD PERSPECTIVE 1

LANEWAY PERSPECTIVE 1

LANEWAY PERSPECTIVE 2

PRELIMINARY

meyer shircore architects

PROPOSED CHILDCARE CENTRE

LOCATION : 147-147 BURSWOOD ROAD, BURSWOOD

FOR : ELVEN PROPERTY

DATE: JULY 2024
REVISION: SK015
SHEET: A - 4000
SCALE: @B1

PROJECT NUMBER
22-8926

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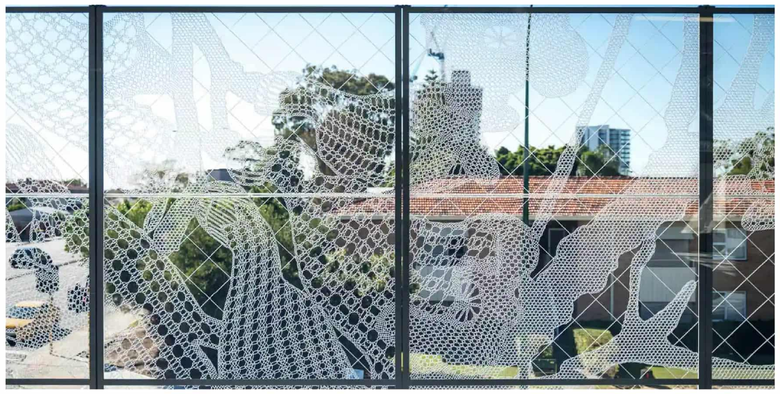
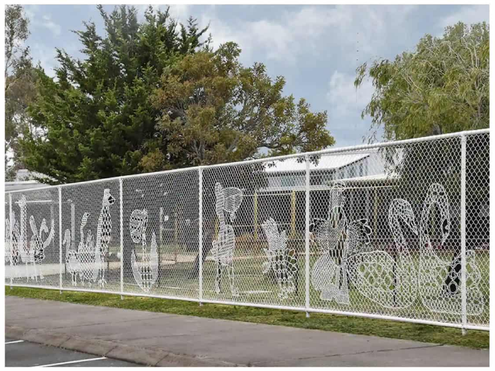
t: 08 9381 8511 e: msa@meyershircore.com.au

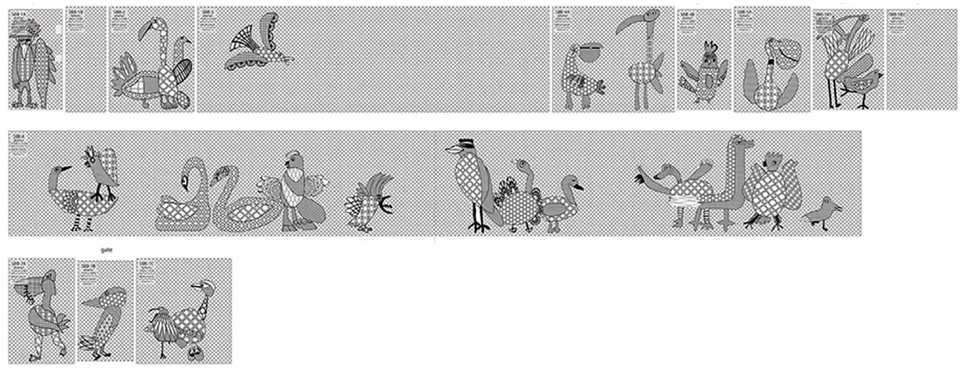
CUSTOM SCREEN CASE STUDIES



MOUNT PLEASANT WOOWORTHS

ARTIST: PAULA HART
SUPPLIER: REDFORT ARCHITECTURAL FABRICS (LACEFENCE)





SOUTH BUNBURY PRIMARY SCHOOL

ARTIST: PAULA HART
SUPPLIER: REDFORT ARCHITECTURAL FABRICS (LACEFENCE)

SCARBOROUGH PRIMARY SCHOOL

ARTIST: PAULA HART
LASER CUT PANELS

STAN AND JEAN PERRON CHILD ADVOCACY CENTRE MIDLAND

ARTIST: PAULA HART
LASER CUT PANELS

PRELIMINARY

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BURSWOOD ROAD

R.O.W

PRELIMINARY

meyer shircore architects

PROPOSED CHILDCARE CENTRE

LOCATION : 147-147 BURSWOOD ROAD, BURSWOOD

FOR : ELVEN PROPERTY

DATE: JULY 2024

REVISION: SK015

SHEET: A - 5001

SCALE: @B1

PROJECT NUMBER

22-8926

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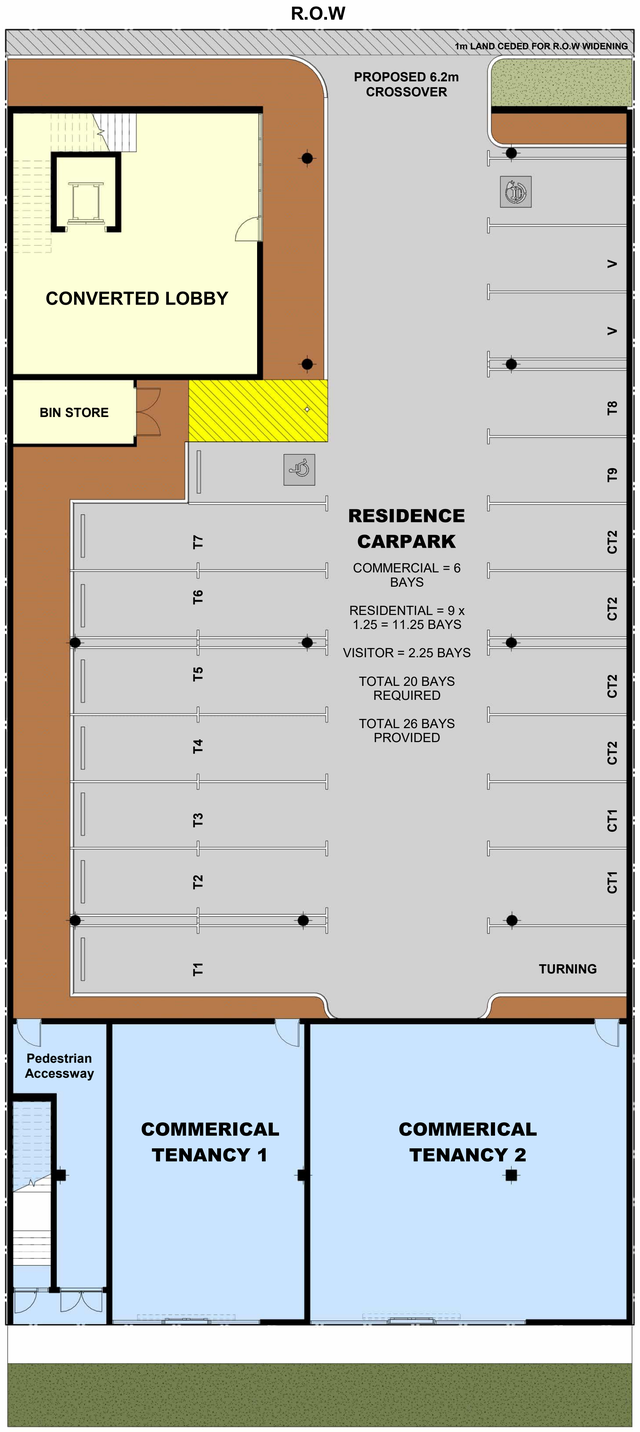
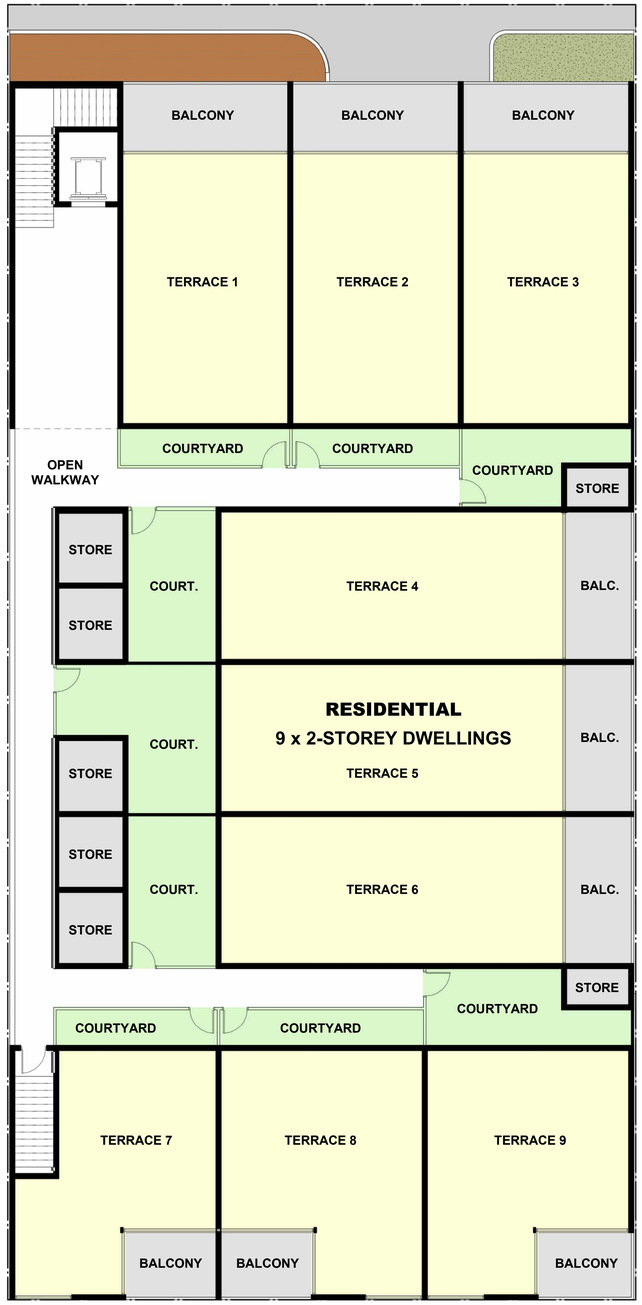
t: 08 9381 8511 e: msa@meyershircore.com.au

POTENTIAL FOR FUTURE RESIDENTIAL DEVELOPMENT

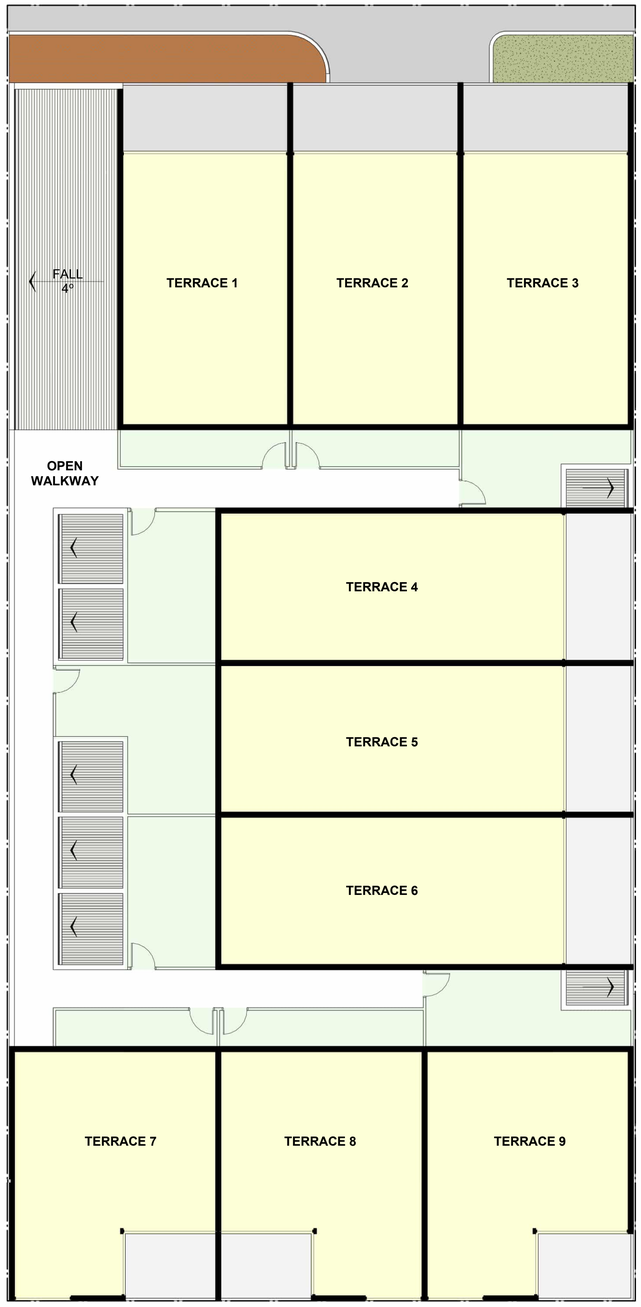
IT IS ACKNOWLEGDED THAT THE CAUSEWAY PRECINCT REVIEW BACKGROUND REPORT (2009) STATES THAT THE POLICY PROVISION REQUIRES A MANDATORY RESIDENTIAL FRONTAGE TO THE LANEWAY. ALTHOUGH THERE IS AN ABSENCE OF A RESIDENTIAL COMPONENT, THERE IS A POTENTIAL FOR REDEVELOPMENT OF THIS SITE IN FUTURE TO INCLUDE SUCH PROVISIONS WHICH HAS BEEN CONSIDERED IN THIS DESIGN AND DEMONSTRATED (INDICATIVE DESIGN ONLY).



SITE & GROUND FLOOR PLAN
SCALE: 1 : 100



FIRST FLOOR PLAN
SCALE: 1 : 100



SECOND FLOOR PLAN
SCALE: 1 : 100

NOTE: Number of terraces based on majority having 2 car parking bays. (7 of)

PRELIMINARY

meyer shircore architects

PROPOSED CHILDCARE CENTRE

LOCATION : 147-147 BURSWOOD ROAD, BURSWOOD
FOR : ELVEN PROPERTY

0 1 2 3 4 5 10

DATE: JULY 2024
REVISION: SK015
SHEET: A - 6000
SCALE: 1 : 100 @B1

PROJECT NUMBER
22-8926

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t: 08 9381 8511 e: msa@meyershircore.com.au

APPENDIX B
Historical Aerial Photography

Year	Image
1953	
1961	

1965	
1970	

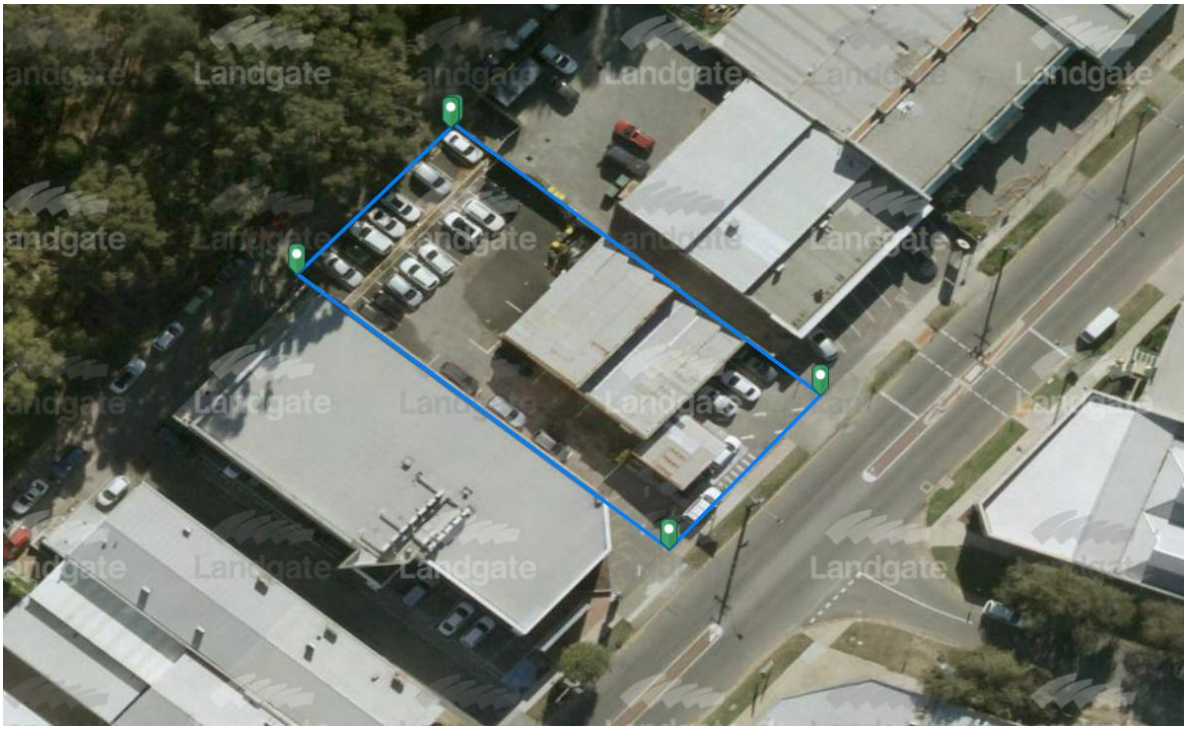
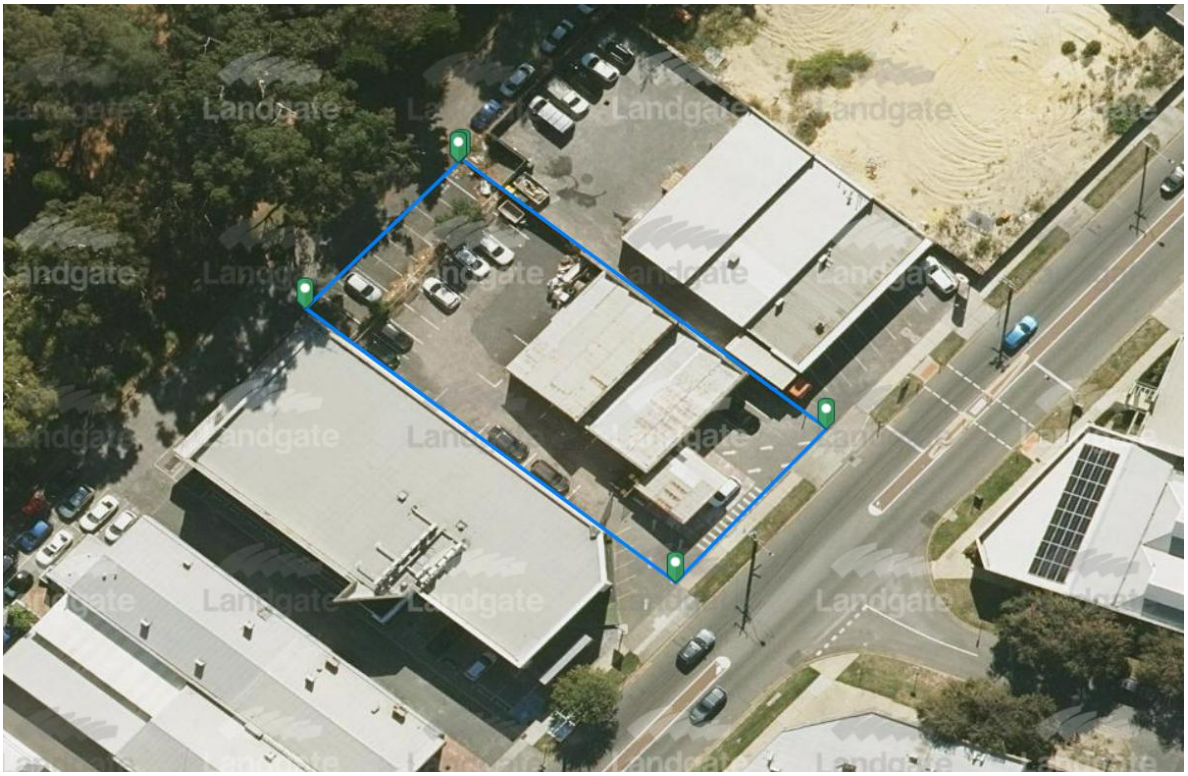
1977	
1983	

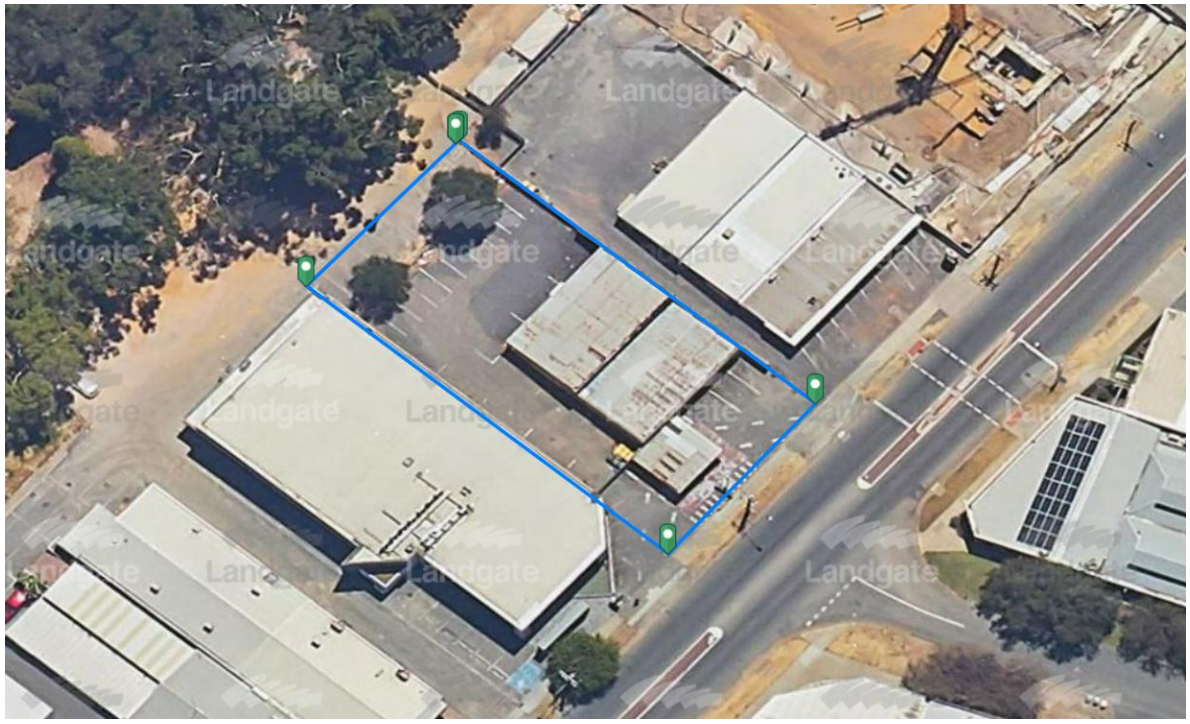
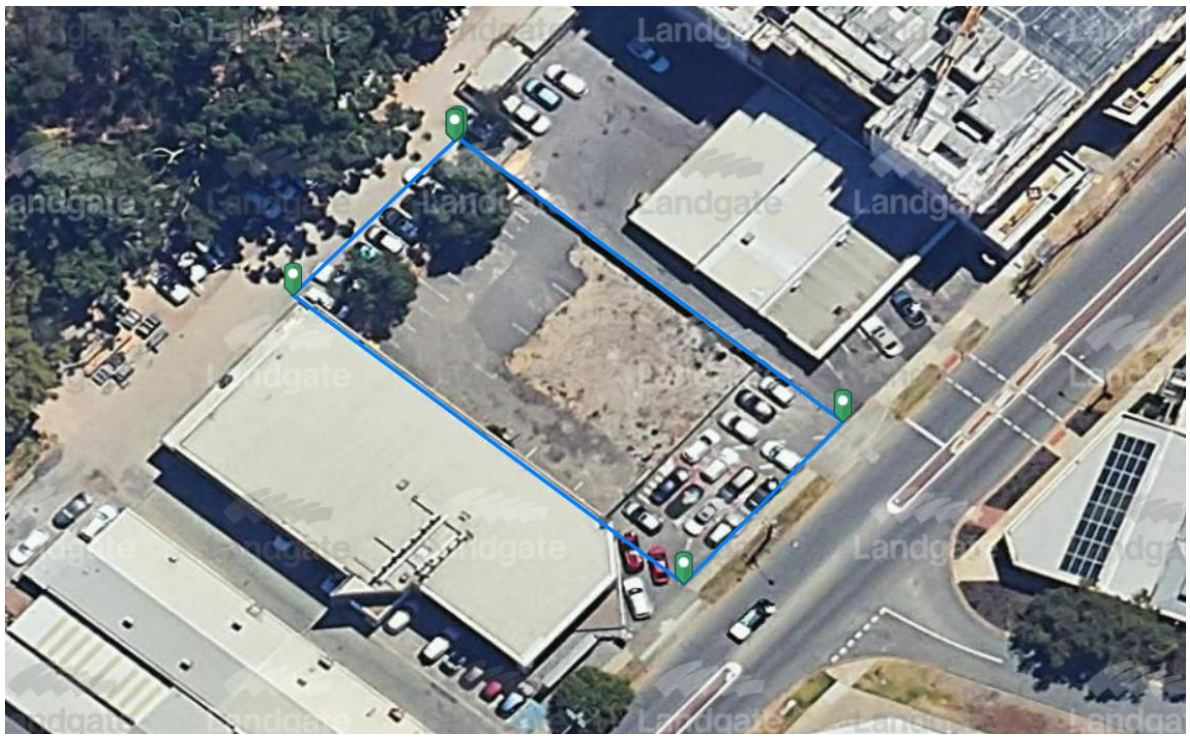
1989	
1995	

2000	
2005	

2010	
2011	

2014	
2017	

2018	
2020	

2022	
2023	

APPENDIX C
Certificate of Title Summary

Landgate

Historical Search Summary Report

Requestor Name: Sam Mueller

Company Name: West Soil & Water

Our Reference: LG8-693447-V3Q8

Officers Name: Cher

Current Tenure	147 Burswood Road, Burswood				
	Survey/Crown Allotment	Ownership/Primary Interst Holder	Document	Date Acquired	Previous Tenure
Current Certificate of Title 1075-424	Lot 56 on Plan 2772	Ekta Holdings Pty Ltd	Transfer M774862	22/09/2014	Sketch Certificate of Title 1075-424
Sketch Certificate of Title 1075-424	portion of Swan Location 36 and being Lot 56 on Plan 2772	Edwin Clive Hunter (builder)	Transfer 6405/1941	22/08/1941	Cancelled Certificate of Title 653-49
Cancelled Certificate of Title 653-49	portion of Swan Location 36 and being Lot 56 and 57 on Plan 2772	Theresa Lillian Trevena (married woman)	Transfer 4978/1916	19/08/1916	Cancelled Certificate of Title 366-69
Cancelled Certificate of Title 366-69	portion of Swan Location 36 and being the whole of the land comprised in Deposited Plan 2722	Isabella Ferguson (widow)	Application355/1906	1/05/1906	Cancelled Certificate of Title 44-353
Cancelled Certificate of Title 44-353	portions of Swan Location 35 and 36 as is delineated and coloured green	Isabella Ferguson (widow)	TLA Application 44/1892	16/05/1894	Search Deeds Office Records
END OF SEARCH					

Current Tenure	147 Burswood Road, Burswood				
	Survey/Crown Allotment	Ownership/Primary Interst Holder	Document	Date Acquired	Previous Tenure
Current Certificate of Title 1075-425	Lot 57 on Plan 2772	Ekta Holdings Pty Ltd	Transfer M774862	22/09/2014	Sketch Certificate of Title 1075-425
Sketch Certificate of Title 1075-425	portion of Swan Location 36 and being Lot 57 on Plan 2772	Edwin Clive Hunter (builder)	Transfer 6405/1941	22/08/1941	Cancelled Certificate of Title 653-49 See above
END OF SEARCH					

APPENDIX D

Town of Victoria Park Summary of Records

Enquiries to: Mark Szabo 311 8163
Planning Officer
Your Ref:
Our Ref: 96/0067 147 Burswood Road
PRO 0098

TOWN OF
VICTORIA PARK

9 April 1996

FILE

Mr R J Preston
44 Ticehurst Way
BALGA WA 6064

Dear Mr Preston

NO 145-147 (LOTS 56 & 57) BURSWOOD ROAD BURSWOOD WA 6100 - DEVELOPMENT APPLICATION 96/0067 FOR VEHICLE REPAIR PREMISES (LIGHT INDUSTRY).

Thank you for plans submitted on 15 March 1996, showing the proposed development as detailed above.

The proposal was considered by the Council in accordance with the provisions of the Town of Victoria Park Town Planning Scheme and the Metropolitan Region Scheme. The Council's decision is outlined in the attached planning determination.

Yours sincerely

C CATCHPOLE
MANAGER PLANNING SERVICES

\\Vicparkoffice\ceo\Pln&Dev\Planning\DALETTER\147BURSWOOD.doc

Administration Centre
99 Shepperton Road
Victoria Park WA 6100
Locked Bag No. 437
Victoria Park WA 6979
Telephone: (09) 311 8111
Facsimile: (09) 311 8181

TOWN OF VICTORIA PARK

DATE: **26 March 1996**
SERIAL NUMBER: **32/130**
DA/BA: **96/0067**

CONDITIONS OF APPROVAL TO COMMENCE DEVELOPMENT

PLANNING CONDITIONS

1. No vehicles associated with the vehicle repair use being parked or stored on the verge or street at any time.

2. Before the vehicle repairs use commences operation nine (9) car parking spaces together with their access aisles to be clearly paved, sealed, marked and drained and thereafter maintained to the satisfaction of the Executive Manager Planning & Development Services.

3. No more than a maximum of six (6) vehicles associated with the vehicle repair use being parked or stored in front of the building -site at any one time.

4. Any areas to be used for storage of an untidy nature to be effectively screened from streets and adjoining properties with close fencing which may only be erected on or behind the front building setback line. Fencing as shown on the approved plan, to be erected prior to the subject development being first occupied.

5. Proposed development complying with setbacks, fencing, driveways, landscaping and other details as shown on the site plan approved on 26 March 1996.

ENGINEERING CONDITIONS

6. The levels at the street alignment including any driveways are required to match the existing footpath levels. The levels at the property boundary abutting the Right of Way are to match the existing pavement levels.

7. All stormwater runoff to be retained on site. Stormwater drainage to comply with Council's "Stormwater drainage requirements for residential and commercial developments" guidelines.

8. Any walls, fences or structures abutting street boundaries which are adjacent to crossovers are to be provided with a 2m x 2m ht line truncation. This area shall be maintained clear of obstructions above a height of 0.75 metres.

9. No access permitted from the ROW.

NO 145-147 (LOTS 56 & 57) BURSWOOD ROAD BURSWOOD WA 6100 - DEVELOPMENT APPLICATION 96/0067 FOR VEHICLE REPAIR PREMISES (LIGHT INDUSTRY).

THIS IS NOT A BUILDING LICENCE

Fourth Schedule Clause 38
For Office Use Only

Serial No. 32/130

TOWN OF VICTORIA PARK TOWN PLANNING SCHEME

APPROVAL TO COMMENCE DEVELOPMENT

Name of owner of land on which development proposed:

SURNAME: LAUTERBACH

OTHER NAMES: STANLEY

ADDRESS: 36 RIVERSDALE ROAD RIVERVALE WA 6103

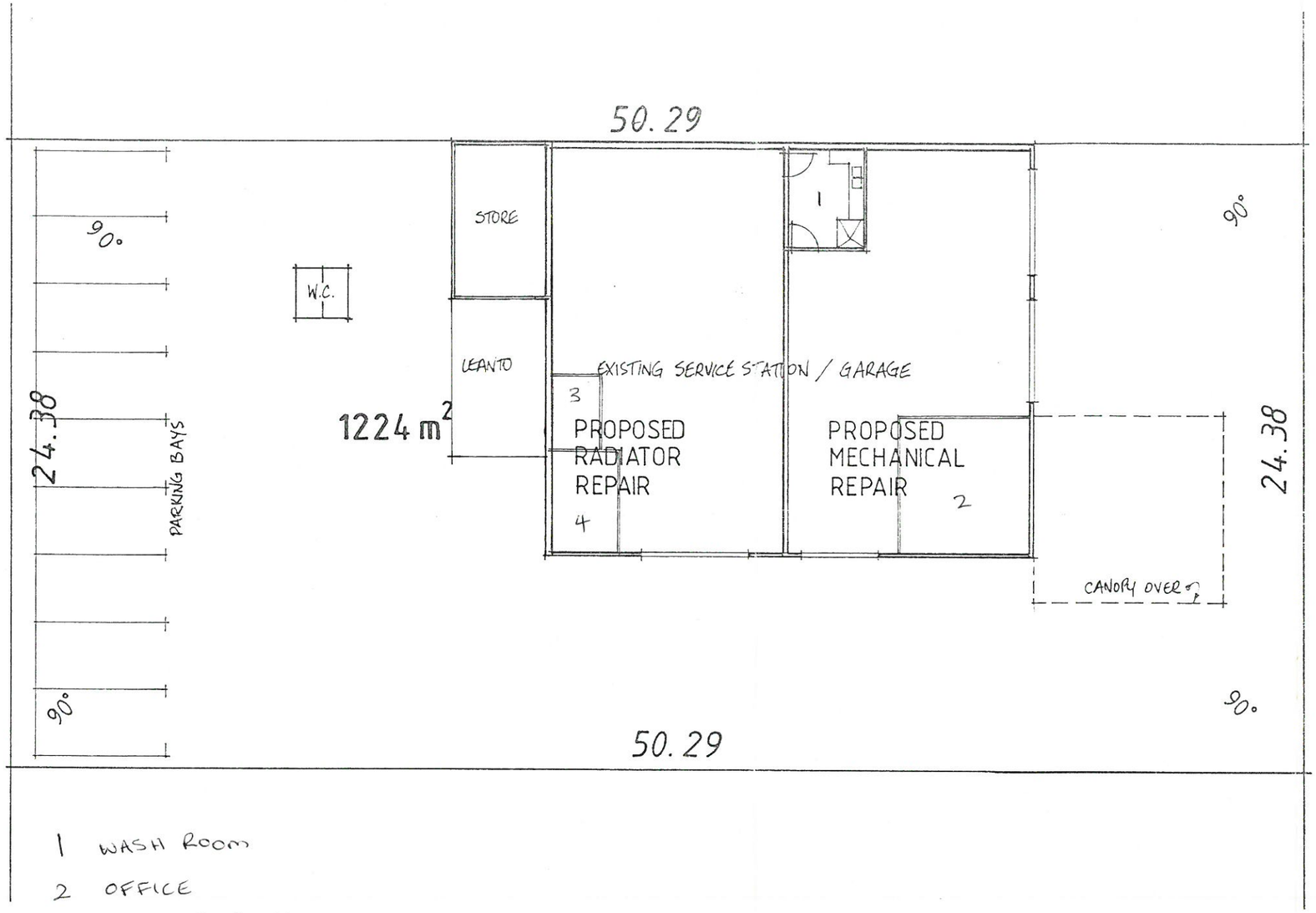
Approval to commence development in accordance with the application for Town Planning Approval dated 19 February 1996 and the attached approved plans date stamped 26 March 1996, was GRANTED by the Council at its meeting held on 26 March 1996 in accordance with the provisions of the Town of Victoria Park Town Planning Scheme and the Metropolitan Region Scheme and in accordance with the attached conditions.

NOTE: SHOULD THE APPLICANT BE AGGRIEVED BY THIS DECISION A RIGHT OF APPEAL MAY EXIST UNDER THE PROVISIONS OF THE TOWN PLANNING SCHEME OR THE METROPOLITAN REGION SCHEME.

This approval is valid for a period of TWO years only. If development is not commenced within this period a fresh approval must be obtained before commencing or continuing the development.

C CATCHPOLE
MANAGER PLANNING SERVICES
26 March 1996

J:PLN&DEV\PLANNING\APPROVAL\ a147burswood



1 WASH ROOM
2 OFFICE
3 CHANGE ROOM
4 LUNCH ROOM

PLAN OF 145 - 147 BURSWOOD ROAD
"VICTORIA PARK"

Scale - 1 : 200

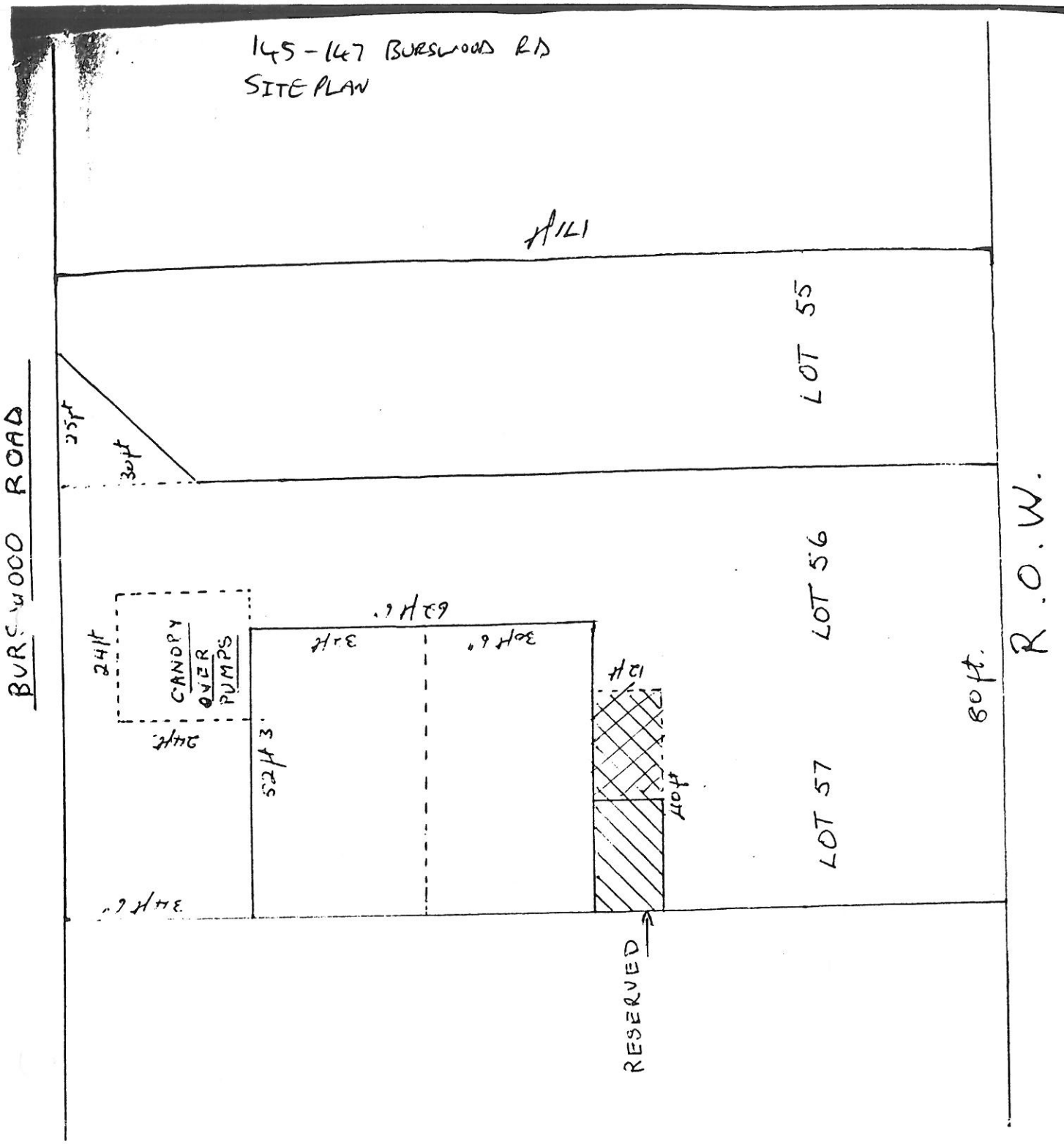
DCG MEETING
26 MAR 1996
APPLICATION REFFERED TO:
PLANNING (✓) 26/3
BUILDING ( ) "
HEALTH (✓) "
ENGINEERING (✓) "
PARKS ( )

RECEIVED
15 MAR 1996

PLANNING APPROVAL
GRANTED SUBJECT TO
Conditions 1-9
On form serial number 32/130
Dated 26/3/96
Executive Manager Planning and
Development Services
TOWN OF VICTORIA PARK
THIS APPROVAL IS NOT A BUILDING PERMIT

North

145 - 147 BURSWOOD RD
SITE PLAN



common use

reserved.

re-planning application
R. PRESTON
470 5747

RECEIVED
05 MAR 1996

Enquiries to: Leigh Parker 9311 8150
Planning Officer
Your Ref:
Our Ref: BURS147

TOWN OF VICTORIA PARK

9 February 2010

Peter Webb & Associates
PO Box 920
SUBIACO WA 6904

Dear Sir/Madam

NO. 147 (LOTS 56 & 57) BURSWOOD ROAD, BURSWOOD - DEVELOPMENT APPLICATION 09/0836 FOR RETROSPECTIVE APPROVAL FOR UNLISTED USE (CARPARK)

Thank you for your planning application dated 2 December 2009, detailing the proposed development as described above.

The proposal was considered by the Council in accordance with the provisions of The Town of Victoria Park Town Planning Scheme No 1 and the Metropolitan Region Scheme. The Council's decision is outlined in the attached planning determination.

Yours faithfully

ROBERT CRUICKSHANK
MANAGER PLANNING SERVICES

Enc

J:\Pln&Dev\PLANNING\Development Application Decisions\Approval Documents\2010 Council Approvals\BURS147 - Retrospective Approval for Unlisted Use (Car Park).doc

Administration Centre, 99 Shepperton Road, Victoria Park WA 6100
Locked Bag No. 437, Victoria Park WA 6979
E-mail: admin@vicpark.wa.gov.au
For more facts about the Town, visit our website: www.vicpark.wa.gov.au

Telephone: (08) 9311 8111
Facsimile: (08) 9311 8181
ABN: 77 284 859 739

DA NO.: 09/0836
File No: BURS147
Serial No: 32/08972

THIS IS NOT A BUILDING LICENCE

PLANNING AND DEVELOPMENT ACT 2005 (AS AMENDED)
TOWN OF VICTORIA PARK TOWN PLANNING SCHEME NO. 1

NOTICE OF PLANNING APPROVAL

PROPOSAL: *RETROSPECTIVE APPROVAL FOR UNLISTED USE (CARPARK)*

LOCATION: ***NO*** *147 (****LOTS*** *56 & 57) Burswood Road, BURSWOOD*

NAME OF OWNER OF LAND ON WHICH THE DEVELOPMENT IS PROPOSED:

SURNAME/COMPANY NAME: *Lauterbach*

OTHER NAMES: *Stanley*

ADDRESS: *36 Riversdale Road, Rivervale WA 6103*

Approval to commence development in accordance with the Application for Planning Approval dated 2 December 2009 and the approved plans date stamped 9 February 2010 was **APPROVED** by the Council, at its Meeting held on 9 February 2010 in accordance with the provisions of the Town of Victoria Park Town Planning Scheme No. 1 and the Metropolitan Region Scheme, subject to the attached conditions:

NOTE: SHOULD THE APPLICANT BE AGGRIEVED BY THIS DECISION A RIGHT TO MAKE APPLICATION FOR REVIEW TO THE STATE ADMINISTRATIVE TRIBUNAL MAY EXIST UNDER THE PROVISIONS OF THE TOWN PLANNING SCHEME OR THE METROPOLITAN REGION SCHEME.

This approval is valid for a period of twenty four months only. If development is not substantially commenced within this period a fresh approval must be obtained before commencing or continuing the development.

CHIEF EXECUTIVE OFFICER

9 February 2010
DATE

TOWN OF VICTORIA PARK

APPROVAL TO COMMENCE DEVELOPMENT

DA No: 09/0836
File No: BURS147
Serial No: 32/08972
Date of Approval: 9 February 2010

PLANNING CONDITIONS

1. This approval is for the temporary use of the premises for car parking by the Perth Montessori School until 30 November 2011. At the culmination of this temporary approval period, the applicant must cease use of the site for this purpose or submit a fresh application for planning approval for Council's consideration.
2. The owner entering into a legal agreement with the Town, prepared by the Town's solicitors at the owner's cost, limiting the use of the subject property for Car Parking purposes until no longer than 30 November 2011 with an agreement to cease the temporary use at that time should Council not grant a further planning approval for the use. The Legal Agreement is to be executed by all parties and to be secured by Absolute Caveat on the title of the property prior to the continued use of the site as a Car Park.
3. This approval applies to the use of the external area surrounding the existing building on the site for car parking, and does not include approval for use of the existing building for storage (other than the School bus) or repair purposes. Any use of the existing building on the site is subject to further planning approval from the Council and may only be used in accordance with the provisions of Town Planning Scheme No 1.
4. Within 30 days of the date of this approval, the following being provided and implemented to the satisfaction of the Manager Technical Services:
   (a) Revised plans which demonstrate that car parking bays, internal driveways and vehicle manoeuvring areas are designed in accordance with AS2890.1-1993 Parking Facilities Part 1: Off Street Parking.
   (b) Written evidence that the owner has a legal right of access over the adjoining property located at No 141-143 (Lot 125) Burswood Road OR application being made to Council's Technical Services for a new crossover to the subject site to provide a legal right of access to the property and the approved 'kiss n' ride' facility.
5. The owner/applicant implementing and complying with all necessary approvals, legal agreements and works associated with parts (a) and (b) of Condition 3.
6. This approval does not include the approval of any signage. An application for Retrospective Planning Approval and Sign Licence(s) for all existing signage associated with the use of the premises by the Perth Montessori School is to be lodged with the Council within 30 days of this approval.
7. Compliance with Council's Building, Environmental Health and Technical Services requirements.

Advice to Applicant:

1. Should the applicant be aggrieved by this decision a right of appeal may exist under the provisions of the Town Planning Scheme or the Metropolitan Region Scheme and the applicant may apply for a review of the determination of Council by the State Administrative Tribunal within 28 days of the date of this decision.
2. Any modifications to the approved drawings, with the exception of those required by Condition 3 of this planning approval, may require the submission of an application for modification to planning approval and reassessment of the proposal.

TOWN OF VICTORIA PARK

DA No: 09/0836
File No: BURS147
Serial No: 32/08972
Date of Approval: 9 February 2010

TECHNICAL SERVICES REQUIREMENTS

Nil.

For further details relating to these requirements please contact John Wong Manager Infrastructure Services on 9311 8140.

TOWN OF VICTORIA PARK

DA No: 09/0836
File No: BURS147
Serial No: 32/08972
Date of Approval: 9 February 2010

BUILDING REQUIREMENTS

Nil.

For further details relating to these requirements please contact Chris Wells Building Surveyor on 9311 8169.

MAX JONES
MANAGER ENVIRONMENTAL
HEALTH & BUILDING SERVICES

TOWN OF VICTORIA PARK

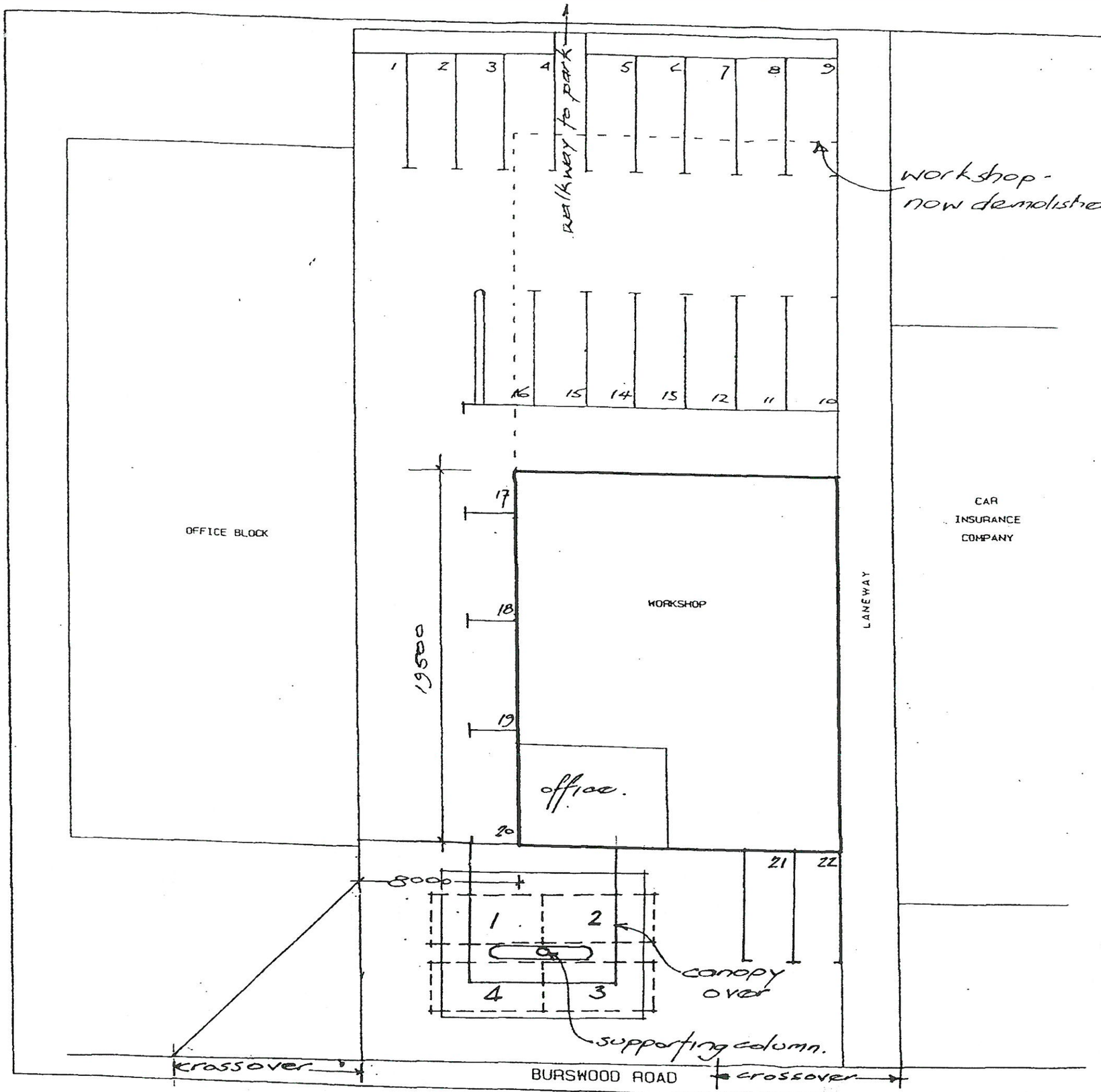
DA No: 09/0836
File No: BURS147
Serial No: 32/08972
Date of Approval: 9 February 2010

HEALTH REQUIREMENTS

1. Should any portion of this development involve the servicing, maintenance or washing of vehicles then an approved wash down bay is to be provided that complies with the requirements of the Water Corporation, the Department of Environment and Environmental Health Services.
2. Sound levels created are not to exceed the provisions of the Environmental Protection (Noise) Regulations 1997.

For further details relating to these requirements please contact David Shimmin Environmental Health Officer on 9311 8156.

MAX JONES
MANAGER ENVIRONMENTAL
HEALTH & BUILDING SERVICES



- PROPOSED ANCILLARY PARKING FACILITY for PERTH MONTESSORI SCHOOL 147 BURSWOOD ROAD BURSWOOD.

- NOTES :

Parking bays — 5.5m x 2.5m
Additional bays in workshop
'Kiss and Ride' bays on front forecourt area.

3 — Kiss & ride bays

PLANNING APPROVAL
GRANTED
Subject to conditions: 1-7
On form serial number: 32/08972
Dated: 9/2/2010
Director Sustainable Development
TOWN OF VICTORIA PARK
THIS APPROVAL IS NOT A BUILDING PERMIT

0 5 10 15 metres
ORIGINAL SCALE 1: 200

RECEIVED
22 DEC 2009
BY:

prepared from base by :
Mackie Martin & Associates
GROUNDWATER ENGINEERS

SCANNED
TOWN OF VICTORIA PARK
PR2196
14 MAR 2022
D22/14810

9th March 2022

147 Burswood Rd Burswood

Hi Brian i have attached the application for the Demolition of 147 Burswood rd Burswood
There is no gas at the property and the cut and seal is not applicable The car park is to stay the shed is to be demolished

There is some asbestos there which will be removed by a licensed contractor

Gj Demo 0413318213 Wara 1582

I have enclosed the necessary documents please let me know if there is anything else you need thankyou Terena Mindiggers 0438331778

Terena.atkinson@gmail.com

Lot 56 147 Burswood Rd, Burswood WA 6100

Commercial owner details

Legal entity / Company name

ekta holdings pty ltd

Contact person

manasvi hirani

ABN / ACN

57331068114

Email address

terena.atkinson@gmail.com

Mailing address

35 Distinction Road, WANGARA WA 6065

Landline phone number

Mobile phone number

+61 0431638953

Supply abolishment payment details

Supply abolishment fee

$484.00 (including GST)

Gmail **Terena Atkinson <terena.atkinson@gmail.com>**

(no subject)

Fax_Demo <Fax_Demo@atco.com> Tue, Mar 8, 2022 at 1:02 PM
To: Terena Atkinson <terena.atkinson@gmail.com>

Hi,

According to our records, there is no live gas feeding the property.

Please proceed with caution for any planned works and refer to the DBYD's.

Many thanks

.lex Cork

Planner

ATCO, Gas Division, Australia

A. 81 Prinsep Road, Jandakot, Western Australia, 6164

atco.com.au Facebook Twitter LinkedIn

ATCO always there anywhere

`TCO acknowledges Aboriginal people as the Traditional Custodians of country throughout Australia including Torres Strait Islander peoples.
/e pay respect to their cultures, Elders past and present, and in the spirit of reconciliation, we commit to working together for our shared future.

***IMPORTANT NOTE**: All disconnection and removal of gas service jobs will need to be pre-paid with successful payment occurring before any work commences. Payment can be made via the online form, with credit/debit cards issued by Visa or MasterCard and is securely processed by Westpac Banking Corporation. If you would like to discuss this change with an ATCO representative, or need further clarity on the change, please contact ATCO on 13 13 56.*

From: Terena Atkinson <terena.atkinson@gmail.com>
Sent: Tuesday, 8 March 2022 12:12 PM
To: Fax_Demo <Fax_Demo@atco.com>
Subject:

Caution – This email is from an external source. If you are concerned about this message, please forward it to spam@atco.com for analysis.

Demolishing a property?

Completed

Great news! Your supply abolishment request has been successfully submitted.

Please allow up to 5 business days for this request to be processed. We will email you confirmation once your supply abolishment request has been approved.

Print

Supply Abolishment Reference Number

8002257642

Meter details

Property electricity meter number

0348007959

Address

147 Burswood Rd
Burswood

APPLICATION BA5

Application for demolition permit

Building Act 2011, section 15, 16
Building Regulations 2012, regulation 4, 16

PERMIT AUTHORITY USE ONLY | Reference number

Permit authority: TOWN of VICTORIA PARK

1. Property this application relates to

Property street address (provide lot number where street number is not known)	Unit no	Street no 147	Level	Lot no 57 & 56
	Street name Burswood		Street type Road	Street suffix
	Suburb Burswood		State WA	Postcode 6100
Certificate of title (if known)	Volume 1075		Folio 425 & 424	

Year of construction of oldest building to be demolished: 1966

Local government area (if different from permit authority):

2. Details of demolition work

Project name (if any):

Type of demolition: ☑ Full demolition ☐ Partial demolition ☐ Relocation of a building from this site to another

Description of the demolition work: Removal of SHED -

Building Code of Australia (BCA) class of the building(s) to be demolished

Main BCA class 1			
Secondary BCA class (for multi-purpose buildings)		Third BCA class (for multi-purpose buildings)	

Occupancy permit number of the building(s) (if known)		Number of dwellings relocated FROM this site to another site	
Floor area to be demolished (m^2)		Site (lot) area (m^2)	
Number of dwellings to be demolished	1	Estimated value of demolition work (including GST)	$ 28,000
Number of storeys of the highest building (above ground)	1	Number of basement storeys of the building (below ground)	

3. Owner details

Where there are multiple owners, please attach a list with the names and signatures of each owner. If each of those owners requires a copy of the demolition permit, please also provide forwarding details for each owner.

Owner's name: Ekta holdings pty Ltd

Street address (provide lot number where street number is not known)

Unit no	Street no	Level	Lot no
	35		
Street name		**Street type**	**Street suffix**
Distinction		Road	
Suburb	**State**	**Postcode**	**Country (if not Australia)**
Wangara	wa	6065	

OR

PO Box address

PO Box no			
Suburb	**State**	**Postcode**	**Country (if not Australia)**

Email address: manasvi@elvenproperty.com.au

Phone/fax

Phone no	Fax
0863050505	

Owner's signature*: [signature] Date 02/03/2022

*If you are authorised to sign on behalf of the owner, please provide your written legal authorisation with your application.

4. Demolition contractor details

Demolition contractor's name: Terena Lomas

Street address (provide lot number where street number is not known)

Unit no	Street no	Level	Lot no
Street name		**Street type**	**Street suffix**
/			
Suburb	**State**	**Postcode**	**Country (if not Australia)**

OR

PO Box address

PO Box no	64		
Suburb	**State**	**Postcode**	**Country (if not Australia)**
Herne Hill	WA	6056	

Email address: Terena.atkinson@gmail.com

Phone/fax

Phone no	Fax
0438331778	

Demolition licence number: Issued under the Occupational Safety and Health Regulations 1996 (if applicable) WARA 1582

Demolition contractor's signature		
	Name (print) Terena Thomas	
	Signature	Date 3.22

5. Applicant details

Who is the applicant? (Tick one box)

☐ Owner ☑ Demolition contractor ☐ Other

If 'Other' was selected above, complete the following details:

Applicant's name Terena Thomas

Street address (provide lot number where street number is not known)

Unit no	Street no	Level	Lot no
Street name		Street type	Street suffix
Suburb	State	Postcode	Country (if not Australia)

OR

PO Box address

PO Box no 64			
Suburb Herne Hill	State WA	Postcode 6056	Country (if not Australia)

Email address Terena.atkinson@gmail.com

Phone/fax

Phone no 0438331778	Fax

1022/14810

FEATURE SURVEY

CLIENTS DETAILS: ELVEN PROPERTY PTY LTD

STREET NAME	EST No.	HOUSE No.	SUBURB	LOCAL AUTHORITY	LOT AREA	R.CODE	SURVEY DATE	SHEET/PLAN SIZE
BURSWOOD ROAD	56 & 57	147	BURSWOOD	TOWN OF VICTORIA PARK	1226m²		27/03/2014	1:200

FIELD DATUM: AHD (Approx.) | BM's USED: Burswood 145 -15.Y, Burswood 5

LEGEND: WATER METER | SEWER AC | TELSTRA PIT | POWER POLE | POWER DOME | TREE (TO SCALE) | W WINDOW | D DOOR | TEMP. BENCHMARK | SURVEY STATION | SIGN POLE | VALVE

Remove high steel post & wire fence

Reduce level to 4.000AD & finish with bitumen

New 500mm high retaining wall with steel post & wire fence

Top of retaining wall 4.500AD

Toilet to be removed and replaced with bitumen

Lean to, awning and raised concrete to be removed and replaced with bitumen

New Toilet to be installed within existing structure, no new windows or openings to the external walls

R.O.W. Centre Line of Lane

Edge of Bitumen

Sewer Junction In: 0.7 Up:1.6 Depth: 1.3m Invert: 1.18

Sewer Junction Depth: 2.9m Invert: 1.09

Sewer Line

High Steel Post & Wire Fence

Balcony

Concrete

Brick Retainer

Brick Outhouse?

Gully

Parapet Wall

High Brick Wall

Raised Concrete

Galv. Awning

LOT 125 — Double Storey Brick Building #141

LOT 56

LOT 57

LOT 58

50.29

12.19

Brick Building #147 F.F.L. 5.50

Brick Building #149 F.F.L. 5.59

11.33(ridge ht.)

13.83 (T.O.W. Height)

10.53 (T.O.W. Height)

11.44 (T.O.W. Height)

10.45 (T.O.W. Height)

Gate

8.94(roof ht.)

Skillion Roof Carport

9.26(roof ht.)

10.06(eave ht.)

Bollard

O/H Power Consumer Wire

Concrete X/O

Concrete Footpath

Grass

HIGH VOLTAGE O/H Power Wires

No Kerb

Non Mt.

TBM Nail & Plate
R.L 5.24 AHD
Est. from Water Corp. Sewer AC # R0048B

BURSWOOD ROAD

Centre Line of Road

Traffic Island

Bitumen

N W E S

VISION SURVEYS
Licensed & Engineering Surveyors
TEL: (08) 6148 0000
Fax (08) 6148 0099
39 SCARBOROUGH BEACH RD
SCARBOROUGH WA 6019
Email: info@visionsurveys.com.au

SCALE 1:200 @ A3

IMPORTANT NOTES:

THE PLAN IS CERTIFIED CORRECT DUE TO LACK OF SURVEY MARKS, PEGS, ALL BUILDING DIMENSIONS & FEATURES ARE APPROXIMATE ONLY. FENCES MAY CONTAIN ENCROACHMENTS OR ENCROACHMENTS MAY EXIST. RETAINING WALLS AND/OR OTHER FEATURES LOCATED ON THE BOUNDARY MAY BE OWNED BY ADJOINING PROPERTIES. THIS PLAN MUST NOT BE USED FOR ANY PURPOSE WHERE THE BOUNDARIES ARE REQUIRED WITH ACCURACY.

SURVEY DATE: 27/03/2014 | DRAWN: DJ | CHECKED: RH

MIDLAND PEST CONTROL
DOMESTIC AND COMMERCIAL

38 Great Northern Highway MIDDLE SWAN WA 6056
Phone: 9274 6011 Fax: 9274 6062
Public Health Licence No 396

Certificate No: 220005

Baiting Certificate

Purchaser(s) or agents name: Mini Diggers

Address inspected: 147 Burswood Road, Burswood WA 6100

Date of Inspection: 02/03/22

Baited house for rats and mice for demolition using Ditrac wax blocks.

CONDITIONS OF ISSUE

a) No replacements of any kind are allowed for under this report and it does no imply that the property cannot be damaged by termites any future time.
b) This report is not a warranty to third parties and is not a certificate of termite treatment.
c) This report only covers areas reasonably accessible and does not cover areas where access was denied.
d) This report is not a structural report and if such a report is required professional structural engineering advise should be sought.
e) This report is only valid for 30 days from date of inspection.
f) This report is in accordance with AS3660 but does not meet AS3360.3

FOR MIDLAND PEST CONTROL .....
LICENCE NO 2575

ABN 44 080 402 982

TOWN OF VICTORIA PARK

APPLICATION FOR ACCESS TO DOCUMENTS

Under Western Australian Freedom of Information Act 1992, Section 12

99 Shepperton Road
Victoria Park WA 6100
Phone: (08) 9311 8111
Facsimile: (08) 9311 8181

Locked Bag 437
Victoria Park WA 6979
admin@vicpark.wa.gov.au
www.victoriapark.wa.gov.au

Instructions: Please print using dark pen (black preferably) in the spaces provided.

1. APPLICANT DETAILS

Surname	Scanlan			
Given Names	Audrey			
Australian Postal Address	48 Pearson St, Ashfield			
		Post Code		
Telephone		Mobile		
Email	audrey@westsoilandwater.com.au			

Name of Organisation/Business	West Soil and Water
	*If you are acting on behalf of another person/organisation, written authorisation from this person/organisation will be required.**

2. REQUEST DETAILS

Please indicate whether documents are:

Personal ❑ Non Personal ($30 application fee applies) ❑

(Please tick appropriate box)

Personal - Information about yourself, eg. details of employment, material in personal records.
Non Personal - Information you are seeking is not directly about you.

Please provide as much information as possible to identify the documents i.e location, subject matter.
Please specify actual documents rather than entire files. Your reason for access (optional) may assist locating documents.

I am applying for access to document(s) concerning:

As part of an ongoing environmental investigation to develop a historic petrol station into an early childcare center, I am requesting any records that the Town of Victoria Park may hold for 147 Burswood Rd, Burswood (please note that this site is on 2 lots). Specifically, I am requesting the following:
Inspection Records
Construction/desgin records (including layouts for fuel storage or pumps)

Continued:

Environmental Complaints/Incidents		
Specify Dates	From All historic documents available	To Present day

3. FORM OF ACCESS

Please indicate form of access required:

Inspection ❑ Printed Copy ❑ Electronic Copy ❑

(Please tick appropriate box)

4. FEES AND CHARGES

Attached is a cheque/cash/money order/credit card payment for the amount of $30.00 to cover the application fee.

I understand that before I obtain access to documents I may be required to pay processing charges in respect of this application and that I will be supplied with a statement of charges, if applicable.

I declare that all of the details set out above are true and correct.

Signature		Date	

OFFICE USE ONLY

FOI File Reference	
Received On	
Deadline for response	

* **Proof of Identity (if applicable)**

Type		
Sighted By (Officer)	Print Name	Signature

APPENDIX E
DWER Documentation

147 Burswood Road, Burswood, DMO5406

16/07/2024

1:2,250

0 0.01 0.03 0.06 mi

0 0.03 0.05 0.1 km

Esri Community Maps Contributors, © OpenStreetMap, Microsoft, Esri, TomTom, Garmin, Foursquare, METI/NASA, USGS, Sources: Esri, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen, Rijkswaterstaat, GSA, Geoland, FEMA, Intermap and the GIS user community

INSTRUCTIONS

1. If insufficient space in any section, Additional Sheet Form B1, should be used with appropriate headings. The boxed sections should only contain the words "see page....."

2. Additional Sheets shall be numbered consecutively and bound to this document by staples along the left margin prior to execution by the parties.

3. No alteration should be made by erasure. The words rejected should be scored through and those substituted typed or written above them, the alteration being initialled by the persons signing this document and their witnesses.

NOTES

1. **DESCRIPTION OF LAND**
   Lot and Diagram/Plan/Strata/Survey-Strata Plan number or Location name and number to be stated.
   Extent - Whole, part or balance of the land comprised in the Certificate of Title to be stated. If this document relates to only part of the land comprised in the Certificate of Title further narrative or graphic description may be necessary. The volume and folio number to be stated.

2. **REGISTERED PROPRIETOR**
   State full name and address of the Registered Proprietors as shown on the Certificate of Title and the address / addresses to which future notices can be sent.

3. **INFORMATION CONCERNING SITE CLASSIFICATION**
   Include information concerning site classification as either: contaminated – restricted use, contamination – remediation required, remediated for restricted use or possibly contaminated – investigation required.

4. **CHIEF EXECUTIVE OFFICER'S ATTESTATION**
   This document must be signed by or on behalf of the Chief Executive Officer, Department of Water and Environmental Regulation under Section 91 of Contaminated Sites Act 2003. An Adult Person should witness this signature. The address and occupation of the witness must be stated.

EXAMINED

OFFICE USE ONLY

Q097895 ML

13 Aug 2024 08:49:24 Midland

MEMORIAL

CONTAMINATED SITES ACT 2003

LODGED BY
Department of Water and Environmental Regulation

ADDRESS
Locked Bag 10
Joondalup DC, WA 6919

PHONE No. 1300 762 982

FAX No. (08) 6364 7001

EMAIL: info@dwer.wa.gov.au

REFERENCE No. 59560

ISSUING BOX No. 888V

PREPARED BY
Contaminated Sites
Department of Water and Environmental Regulation

ADDRESS
Prime House, 8 Davidson Terrace
Joondalup, WA 6027

PHONE No. 1300 762 982 FAX No. (08) 6364 7001
EMAIL: info@dwer.wa.gov.au

INSTRUCT IF ANY DOCUMENTS ARE TO ISSUE TO OTHER THAN LODGING PARTY

3/4

TITLES, LEASES, DECLARATIONS ETC LODGED HEREWITH

1.
2.
3.
4.
5.
6.

Received Items

Nos. 2

Receiving Clerk

Lodged pursuant to the provisions of the TRANSFER OF LAND ACT 1893 as amended on the day and time shown above and particulars entered in the Register.

LANDGATE COPY OF ORIGINAL NOT TO SCALE 18/10/2024 08:42 AM Request number: 67295787

Landgate
www.landgate.wa.gov.au

APPROVAL NUMBER
2020-44711

DEPARTMENT OF WATER AND ENVIRONMENTAL REGULATION
Client ID 5406

WESTERN AUSTRALIA
TRANSFER OF LAND ACT 1893 AS AMENDED

MEMORIAL

CONTAMINATED SITES ACT 2003

SECTION 58(1) (a) (i) (I) (II) (III) (IV)

DESCRIPTION OF LAND (Note 1)	EXTENT	VOLUME	FOLIO
LOT 56 ON PLAN 2772	Whole	1075	424
LOT 57 ON PLAN 2772	Whole	1075	425

REGISTERED PROPRIETOR (Note 2)

EKTA HOLDINGS PTY LTD OF 35 DISTINCTION ROAD, WANGARA

INFORMATION CONCERNING SITE CLASSIFICATION (Note 3)

Under the Contaminated Sites Act 2003, this site has been classified as "possibly contaminated - investigation required". For further information on the contamination status of this site, please contact Contaminated Sites at the Department of Water and Environmental Regulation.

Dated this First day of August Year 2024

CHIEF EXECUTIVE OFFICER'S ATTESTATION (Note 4)

Andrew Miller
SENIOR MANAGER

DELEGATE OF THE CHIEF EXECUTIVE OFFICER
DEPARTMENT OF WATER AND ENVIRONMENTAL REGULATION
UNDER SECTION 91 OF THE
CONTAMINATED SITES ACT 2003

SIGNATURE OF WITNESS

FULL NAME: CHRISTOPHER CHAU
ADDRESS: PRIME HOUSE, 8 DAVIDSON TCE, JOONDALUP WA 6027
OCCUPATION: BUSINESS SYSTEMS CO-ORDINATOR

LANDGATE COPY OF ORIGINAL NOT TO SCALE 18/10/2024 08:42 AM Request number: 67295787

Landgate
www.landgate.wa.gov.au

Government of Western Australia
Department of Water and Environmental Regulation

Your ref: 5.2024.130.1; DAP/24/02697
Our ref: DMO 5406; DWERVT15398
Enquiries: Michelle Brierley, Ph 6364 7910
Email: michelle.brierley@dwer.wa.gov.au

Nathan Carbone
Planning Officer
Town of Victoria Park
99 Shepperton Road
Victoria Park WA 6100

By email NCarbone@vicpark.wa.gov.au and admin@victoriapark.wa.gov.au

Dear Nathan Carbone

DEVELOPMENT APPLICATION NUMBER 5.2024.130.1 - NO.147 BURSWOOD ROAD BURSWOOD

I refer to your email dated 6 June 2024 with attached supporting information to the Department of Water and Environmental Regulation (the department) regarding an application to the Town of Victoria Park for the proposed development of land at 147 Burswood Road for childcare premises and offices. The application included the submission of a Due Diligence Contamination Investigation report (West Soil & Water, 10 June 2023).

Land at Lot 56 and Lot 57 on Plan 2772 (the site) historically operated as a service station and mechanics workshop. These are land uses that have the potential to cause contamination, as specified in 'Assessment and management of contaminated sites' (Department of Water and Environment Regulation, 2021). Records indicate that the underground storage tanks were removed in 1997 and that demolition of structures occurred in 2022. The site is currently vacant.

The site has not been reported to the department as a known or suspected contaminated site and the department holds no other records for the site, other than the Due Diligence Contamination Investigation report.

The due diligence assessment involved the collection of soil and groundwater samples from the site during April 2023.

Benzo(a)pyrene was found to be present at concentrations exceeding Health Investigation Levels for residential land with accessible soil, as published in the 'National Environment Protection (Assessment of Site Contamination) Measure 1999' (the NEPM) in localised areas of the site. Zinc and benzo(a)pyrene were also found to be present in soils at concentrations exceeding the relevant Ecological Investigation Levels for urban residential land and public open space, as published in the NEPM in localised areas of the site.

The limited groundwater investigation found that metals (copper and zinc) were found to be present in groundwater at concentrations exceeding Water Quality Australia's default guideline values for the protection of freshwater ecosystems. These criteria were considered to be relevant due to the proximity of the Swan River. Groundwater concentrations in a background water

quality bore indicate that concentrations of metals may be regionally elevated and may not be attributable to the historical use of the site.

The findings of the due diligence assessment indicate that further investigation and risk assessment of the site is required.

The proposed development involves a change of land use from a potentially contaminating activity to a childcare premises which is considered a more sensitive land use.

Given the uncertainties associated with the current contamination status of Lot 56 and Lot 57, the department cannot comment on the suitability of the site for the proposed development.

The department recommends that contamination condition EN9 and advice Ena2 are applied to any approval granted by the Town of Victoria Park, as published in 'Model Subdivision Conditions Schedule' (Department of Planning, Lands and Heritage; WAPC, December 2022).

Condition X

a) Prior to commencement of development works, investigation for soil and groundwater contamination is to be carried out to determine if remediation is required.

b) If required, remediation, including validation of remediation, of any contamination identified shall be completed prior to the completion of construction works to the satisfaction of the Town of Victoria Park on advice from the Department of Water and Environmental Regulation, to ensure that the site is suitable for the proposed use.

   Investigations and remediation are to be carried out in compliance with the *Contaminated Sites Act 2003* and current Department of Water and Environmental Regulation contaminated sites guidelines. (Department of Water and Environmental Regulation)

Advice

In relation to Condition [X] and in accordance with regulation 31(1)(c) of the *Contaminated Sites Regulations 2006*, a Mandatory Auditor's Report, prepared by an accredited contaminated sites auditor, will need to be submitted to the Department of Water and Environmental Regulation as evidence of compliance with Condition [X]. A current list of accredited auditors is available from www.dwer.wa.gov.au.

Acid sulfate soil risk mapping indicates that the site lies within an area identified as having a high to moderate risk of acid sulfate soils occurring within three metres of the natural soil surface.

As the proposed subdivision works have the potential to disturb acid sulfate soils the department recommends that the following advice note be applied to any approval granted by WAPC:

Advice

Acid sulfate soils (ASS) risk mapping indicates that the site is located within an area identified as representing a high to moderate risk of ASS occurring within 3 metres of the natural soil surface. Please refer to Department of Water and Environmental Regulation's acid sulfate soil guidelines for information to assist with the management of ground and/or groundwater disturbing works. *https://www.wa.gov.au/government/publications/treatment-and-management-of-soil-and-water-acid-sulfate-soil-landscapes*

Certain parties (i.e. owner/ occupier of a site and a person who knows or suspects that they have caused or contributed to the contamination) have a duty to report a contaminated site under the *Contaminated Sites Act 2003*. A known contaminated site must be reported within 21 days of a

person becoming aware of the contamination. *https://www.wa.gov.au/system/files/2023-05/contaminated-sites-form-1.pdf*

If you have any queries in relation to the above, please contact Senior Environmental Officer, Michelle Brierley, on 6364 7910.

Yours sincerely

Andrew Miller
SENIOR MANAGER
CONTAMINATED SITES

12 June 2024

Government of Western Australia
Department of Water and Environmental Regulation

Your ref:
Our ref: DMO 5406
Enquiries: Registrar
Phone: 1300 762 982
Fax: (08) 6364 7001
Email: info@dwer.wa.gov.au

Ekta Holdings Pty Ltd
PO Box 1659
Wangara Dc WA 6947

Dear Sir/Madam

NOTIFICATION OF REGISTRATION OF MEMORIAL
SECTION 59 OF THE *CONTAMINATED SITES ACT 2003*

In accordance with section 59 of the *Contaminated Sites Act 2003* (the Act), please be advised that, on instruction by Department of Water and Environmental Regulation (the department), a memorial has been registered against the Certificate(s) of Title listed below, under section 58 of the Act, for the site consisting of 2 parcel(s) of land including the following:

- Memorial Q097895 ML, LOT 56 ON PLAN 2772 as shown on certificate of title 1075/424 known as 147 Burswood Rd, Burswood WA 6100
- Memorial Q097895 ML, LOT 57 ON PLAN 2772 as shown on certificate of title 1075/425 known as 147 Burswood Rd, Burswood WA 6100

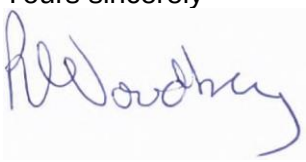
The memorial records the site classification as 'Possibly contaminated - investigation required'.

Given that a memorial has been registered against the site, under section 58(6) of the Act, the Western Australian Planning Commission may not approve the subdivision of the land under Section 35 of the *Planning and Development Act 2005*, or the amalgamation of that land with any other land without seeking, and taking into account, the advice of the department as to the suitability of the land for subdivision or amalgamation. Furthermore, a responsible authority (e.g. Local Government Authorities) may not grant approval under a scheme for any proposed development of the land without seeking, and taking into account, advice from the department as to the suitability of the proposed development.

A memorial registered under the Act has effect until it is formally withdrawn. A copy of the memorial is attached for your information.

For further information, please contact the Registrar on 1300 762 982.

Yours sincerely



Penny Woodberry, Manager

CONTAMINATED SITES REGULATION
Delegated Officer under section 91
of the *Contaminated Sites Act 2003*

18/10/2024
Enc: Copy of Memorial(s)

CSSID = 5406

Government of Western Australia
Department of Water and Environmental Regulation

Your ref:
Our ref: DMO 5406
Enquiries: Michelle Brierley
Phone: 1300 762 982
Fax: (08) 6364 7001
Email: info@dwer.wa.gov.au

Ekta Holdings Pty Ltd
PO Box 1659
Wangara Dc WA 6947

Dear Sir/Madam

This letter is the formal notice of classification of a known or suspected contaminated site in which you have an interest. This constitutes the notice the Department of Water and Environmental Regulation (the department) is legally obliged to give under the *Contaminated Sites Act 2003* (the Act), which came into effect on 1 December 2006.

The Act was set up to record and manage contaminated sites in Western Australia, in order to protect people's health and the environment. Please note that contamination does not necessarily mean that an area is unsafe to live or work in – for example, it may be limited to groundwater, and only becomes an issue to be managed if a groundwater bore was being considered.

This notice explains why the site has been classified, what restrictions, if any, have been placed on the use of the site and how you can appeal the classification. In some cases, this notice may include other lots which also form part of the classified site, in addition to the lot in which you have an interest.

If, after reading this letter, you have any further queries, please contact the department on 1300 762 982 (Contaminated Sites Information Line).

NOTICE OF A CLASSIFICATION OF A KNOWN OR SUSPECTED CONTAMINATED SITE GIVEN UNDER SECTION 15 OF THE *CONTAMINATED SITES ACT 2003*

The site detailed below **(the site),** consisting of 2 parcel(s) of land, was reported to the CEO of the department as a known or suspected contaminated site and has been classified under the Act:

- LOT 56 ON PLAN 2772 as shown on certificate of title 1075/424 known as 147 Burswood Rd, Burswood WA 6100
- LOT 57 ON PLAN 2772 as shown on certificate of title 1075/425 known as 147 Burswood Rd, Burswood WA 6100

This notification is being sent to you in accordance with section 15(1) of the Act on the grounds that you, as the recipient, are one or more of the following:

(a) owner of the site (contact details sourced from the current certificate of title);
(b) occupier of the site;
(c) relevant public authority;
(d) person who, in the CEO's opinion, there is particular reason to notify;
(e) person who made the report under section 11 or 12; and
(f) person who, in the CEO's opinion, may be responsible for remediation of a site classified as *contaminated – remediation required.*

Site Classification

Category of site classification: Possibly contaminated - investigation required

Date of site classification: 25/07/2024

Reasons for classification: This site was reported to the Department of Water and Environmental Regulation (the department) as per reporting obligations under section 11 of the 'Contaminated Sites Act 2003' (the Act), which commenced on 1 December 2006.

The site has been classified under section 13 of the Act based on information submitted to the department by June 2024.

The site was reported because it has historically been used as a service station and because a due diligence investigation found hydrocarbons (such as from petrol or diesel) in soils and metals in groundwater. Aerial photographs indicate that the site was likely to have been used as a service station and workshop since the 1960s. Service stations and motor vehicle workshops have the potential to cause contamination, as specified in the guideline 'Assessment and management of contaminated sites' (Department of Water and Environmental Regulation, 2021).

Records indicate that the underground storage tanks (UST) were removed in 1997 and that demolition of service station structures occurred in 2022. The site is currently vacant. A due diligence investigation was carried out in April 2023 in relation to the proposed redevelopment of the site to a childcare centre.

A site walkover was carried out in April 2023. No visual or olfactory were observed on the ground surface.

An initial screening soil investigation was subsequently carried out that targeted areas where former fuel infrastructure was suspected to have been located. Fill material comprising bricks, bitumen and gravel was encountered in a localised area near to the area of the former USTs. Benzo(a)pyrene was found to be present in soils in two locations, the vicinity of the former USTs at depths between 1 metre and 1.5 metres below ground level (mbgl) at concentrations exceeding Health Investigation Levels for residential land with accessible soil, as published in the 'National Environment Protection (Assessment of Site Contamination) Measure 1999' (the NEPM). Metals (zinc and nickel) were found to be present in soils in the central portion of the site at concentrations exceeding the relevant Ecological Investigation Levels for urban residential land and public open space, as published in the NEPM. Soils in the former building footprint and the north-west portion of the site were not sampled.

One groundwater monitoring event was carried in April 2023. Groundwater samples were collected from historical on-site monitoring wells. The well construction details are unknown. Metals (copper and zinc) were found to be present in groundwater at concentrations exceeding Water Quality Australia's default guideline values for the protection of freshwater ecosystems in all monitoring wells. These criteria are relevant because the Swan River is located around 600 metres down-gradient of the site. The widespread presence of copper in groundwater, including in an up-gradient monitoring well, may reflect regional conditions. No monitoring wells were located down-gradient of the former USTs or down-gradient of the areas where soils were impacted by benzo(a)pyrene. Concentrations of contaminants exceed adopted assessment levels for residential land with accessible soil and ecological investigation levels. Therefore, a tier 1 screening risk assessment indicates that further investigation is required to determine the risk to human health, the environment and environmental values.

The site is not suitable for redevelopment to a childcare centre until further investigations have been undertaken.

There are grounds to indicate possible contamination of the site and soil and groundwater quality has not been fully investigated. Therefore, the site is classified as 'possibly contaminated - investigation required'.

A memorial stating the site's classification has been placed on the certificate of title and will notify any interested parties of the contamination status of the site.

When the results of further soil and groundwater investigations are submitted to the department, these will be reviewed, and the site may be reclassified.

The department, in consultation with the Department of Health, has classified this site based on the information available to the department at the time of classification. It is acknowledged that the contamination status of the site may have changed since the information was collated and/or submitted to the department, and as such, the usefulness of this information may be limited.

In accordance with Department of Health advice, if groundwater is being, or is proposed to be abstracted, the department recommends that analytical testing should be carried out to determine whether the groundwater is suitable for its intended use.

Other Relevant Information:

Additional information included herein is relevant to the contamination status of the site and includes the department's expectations for action that should be taken to address potential or actual contamination described in the Reasons for Classification.

Action Required:

Further soil and groundwater investigations are required to characterise soil and groundwater quality. The department expects actions to be taken in accordance with the timeframes specified in section 8.3.3 of "Identification, reporting and classification of contaminated sites in Western Australia' (Department of Environment Regulation, June 2017).

Investigations are to be carried out in accordance with the department's contaminated sites guidelines and the NEPM. Asbestos investigations, if relevant, are to be carried out in accordance with the 'Guidelines for the Assessment, Remediation and Management of Asbestos Contaminated Sites in Western Australia' (Department of Health, 2021).

General Information

The nature and extent of contamination and any restrictions on the use of the land, if applicable, are listed in Attachment A.

Information relating to the classification of the site is also available by submitting a request for a summary of records (using Form 2) to: Department of Water and Environmental Regulation, Locked Bag 10, Joondalup DC, WA 6919. A fee of $44 currently applies for a Basic Summary of Records. Forms are available from https://www.wa.gov.au/organisation/department-of-water-and-environmental-regulation/contaminated-sites.

In some instances the department has had to classify sites based on historical information. A site may be re-classified at any stage when additional information becomes available, for example where a new investigation or remediation report completed in accordance with the department's 'Contaminated Sites Guidelines' and the *National Environment Protection (Assessment of Site Contamination) Measure 1999*, is submitted to the department. The current site classification is the classification most recently conferred on the site.

Memorials

In accordance with section 58(1) of the Act, the department will lodge a memorial with the Registrar of Landgate, recording the classification against the site's Certificate(s) of Title 1075/424, 1075/425. Parcel(s) without a registration number or certificate of title will not have a memorial lodged against them until a certificate of title has been created. Once complete, confirmation of the lodgement of the memorial(s) will be forwarded to the following people:

(a) each owner,
(b) Western Australian Planning Commission;
(c) CEO of the Department of Health;
(d) Local Government Authority;
(e) relevant scheme authority.

Given that memorial(s) will be lodged against the site, the Western Australian Planning Commission (WAPC) may not approve the subdivision of the land under Section 135 of the *Planning and Development Act 2005*, or the amalgamation of that land with any other land without seeking, and taking into account, the advice of the department as to the suitability of the land for subdivision or amalgamation. Furthermore, a responsible authority (e.g. Local Government Authorities) may not grant approval under a scheme for any proposed development of the land without seeking, and taking into account, advice from the department as to the suitability of the proposed development.

Appealing the Site Classification

All site classifications given by the department are appealable. However, only certain people can lodge a valid appeal. The people who can lodge a valid appeal varies, depending on the classification category, as detailed in Fact Sheet 4: *Site classifications and appeals*. Appeals need to be lodged in writing with the Contaminated Sites Committee at Level 18, Millgreen Complex, 197 St Georges Terrace, Perth WA 6000, within **45 days** of being given this notification. The appeal should set out the appellant's relationship to the site, and must include the grounds and facts upon which it is based. An appeal fee (currently $66) applies.

To find out more about the appeal process, see the Contaminated Sites Committee website at https://www.wa.gov.au/organisation/contaminated-sites-committee or contact the office of the Committee on (08) 6364 7264.

For further information on all aspects of site classification, please refer to Fact Sheet 4 and the 'Contaminated Sites Guidelines', which are available from the department's website at https://www.wa.gov.au/organisation/department-of-water-and-environmental-regulation/contaminated-sites or by contacting the Contaminated Sites Information Line on 1300 762 982.

Yours sincerely

Penny Woodberry, Manager

CONTAMINATED SITES REGULATION
Delegated Officer under section 91
of the *Contaminated Sites Act 2003*

25/07/2024

Enc. Attachment A – Nature and Extent and Restrictions on Use.

Fact Sheet 4: *Site classifications and appeals*
Fact Sheet 5: *Buyer beware – buying and selling contaminated land*

ATTACHMENT A – Nature and Extent and Restrictions on Use

- LOT 56 ON PLAN 2772
- LOT 57 ON PLAN 2772

Nature and Extent: Hydrocarbons (such as from petrol or diesel) are present in sub-surface soils in the vicinity of the former underground storage tanks. Metals are also present in sub-subsurface soil in the central portion of the site and in groundwater.

Restriction on Use: Please refer to Reasons for Classification for further information on the potential contamination present at the site.

APPENDIX F
DEMIRS Documentation

Government of **Western Australia**
Department of **Mines, Industry Regulation and Safety**

Sam Mueller
West Soil and Water
3/194 Holbeck Street
DOUBLEVIEW WA 6018

Your Ref: Burswood Rd
Our Ref: DMS1157/2023
Enquiries: Dylan Rowles
FOI@dmirs.wa.gov.au

Dear Mr Mueller,

I refer to your Freedom of Information application received on 12 April 2023, requesting access to documents which may be held by the Department of Mines, Industry Regulation and Safety.

I have decided to provide full access to the documents, for the reasons outlined in the attached decision.

If you are dissatisfied with my decision, you have a right to apply for an internal review. Details of review processes are set out at the end of the Notice of Decision.

Yours sincerely,

DYLAN ROWLES
COORDINATOR FREEDOM OF INFORMATION
INFORMATION MANAGEMENT SERVICES BRANCH
DEPARTMENT OF MINES, INDUSTRY REGULATION AND SAFETY

3 June 2023

NOTICE OF DECISION

UNDER SECTION 30
OF THE
FREEDOM OF INFORMATION ACT 1992

APPLICANT: WEST SOIL AND WATER

DECISION MAKER: DYLAN ROWLES
COORDINATOR FREEDOM OF INFORMATION
INFORMATION MANAGEMENT SERVICES BRANCH
DEPT. OF MINES INDUSTRY REGULATION & SAFETY

DATE OF DECISION: 3 June 2023

ACCESS APPLICATION

1. On 12 April 2023, a valid Freedom of Information application was received from you, requesting documents regarding the site located at 147 Burswood Road, Burswood.

THE REQUESTED DOCUMENTS

2. On 4 May 2023 Ms Michelle Esrkine of the Information Management Services branch wrote to your office, whereupon it was agreed that the ambit of your application would be amended to:

    - Historical copies of licences to store dangerous goods;
    - Inspection reports with orders relating to matters requiring improvement;
    - Site plans showing locations of dangerous goods and
    - Documentation concerning spills/incidents.

3. In response, searches of the following Department of Mines, Industry Regulation and Safety databases were conducted, resulting in 28 documents being identified:

    a. Geospatial Information System
    b. Records Manager

4. As you have consented to remove the personal information of third parties, these particulars are considered outside the scope of your application and have consequently been removed from the documents.

DECISION

Full Access

Documents 1-28

5. These documents are provided complete and unedited, albeit, with out of scope matter removed.

6. Please note that it is not always possible to identify whether a Dangerous Goods Storage (DGS) licence currently exists or previously existed for a particular site solely from location details provided by applicants. As such, we request the DGS licence number be provided where possible. Notwithstanding this, our office conducted searches and endeavoured to identify the relevant documentation based on the information supplied in your request.

7. The lack of information held by the department in relation to a property does not necessarily confirm that the property is not, or has never been, a dangerous goods storage site. Accordingly, if you have any reason to suspect the location is or may have been the subject to a DGS licence or dangerous goods may have been stored there, you may wish to consider carrying out additional site inspection investigations.

For more detailed information on the legislation applied, please see the attached excerpt copies of the FOI Act.

RIGHTS OF REVIEW

8. If you are dissatisfied or aggrieved by the decision of this agency regarding access to documents, you can apply for a review of that decision. An explanation of the Review and Appeal Process is provided in the document attached to this notice of decision.

COSTS AND CHARGES

9.

Application Fee	@ $30.00	$30.00
Processing Charges		NIL
Less Paid		-$30.00
Total Due		**NIL**

Yours sincerely,

DYLAN ROWLES
COORDINATOR FREEDOM OF INFORMATION
INFORMATION MANAGEMENT SERVICES BRANCH
DEPARTMENT OF MINES, INDUSTRY REGULATION AND SAFETY

3 June 2023

REVIEW AND APPEAL PROCESS

Step 1 - Internal Review (Section 39 - 40 and 54)

If you disagree with a decision made by an agency about your access application, your request for amendment of personal information or an access application where you are a third party, you have the right to apply to the agency for an internal review.

To apply for an internal review, you must lodge a written request with the Department of Mines, Industry Regulation and Safety within 30 days of being given this decision. An independent officer will be appointed to conduct your review within 15 days.

In some circumstances, the agency's Principal Officer may allow the application for internal review to be lodged after the specified period.

The application for internal review must:

1. Be in writing;
2. Give sufficient details of the decision/s you wish to have reviewed; and
3. Give an address in Australia to which notices can be sent.

There is no charge for lodging an application for an internal review.

Applications for internal review should be addressed and sent to:

Freedom of Information
Department of Mines, Industry Regulation and Safety
Locked Bag 100
EAST PERTH WA 6892

Step 2 - External Review by the Information Commissioner (Section 65-66)

After internal review, if you still disagree with the agency's decision, you may lodge a complaint with the Information Commissioner, seeking external review of the agency's decision. The Commissioner is independent of executive government and reports directly to Parliament.

If you are the access applicant, you must apply for external review within 60 days after being given the agency's decision. If you are a third party who objects to disclosure of your information, you must apply for external review within 30 days after being given the agency's decision.

In exceptional circumstances, the Commissioner may allow a complaint to be lodged after these periods have elapsed.

A complaint to the Information Commissioner must:

1. Be in writing;
2. Give an address in Australia to which notices may be sent;
3. Give particulars of the decision you want reviewed;
4. Enclose a copy of this notice of decision; and
5. Be lodged at the Office of the Information Commissioner.

Office of the Information Commissioner
Albert Facey House
469 Wellington Street
PERTH WA 6000
Tel: (08) 6551 7888 or 1800 621 244 (Country)

EXCERPT COPIES OF THE ACT

Sections

14. Ambit of application may be reduced by agreement

If it is apparent from the terms of the access application that an applicant seeks information of a certain kind contained in documents of the agency, the agency may, with the agreement of the applicant, deal with the application as if it were an application relating only to those parts of those documents that contain information of that kind.

SCHEDULE OF DOCUMENTS
DMS1157/2023 - APPLICANT: WEST SOIL AND WATER

DOC. NO.	DATE	DESCRIPTION	ACCESS DECISION	REASON
File: DGS001557				
1	5/8/2004	Licence Cancelled File Sheet	F	
2	22/8/1996	Letter Fuel Tanks Not Removed and filled with water	F	Matter Outside of Scope Removed
3	Expiry 28/2/1996	Licence to Store Flammable Liquids	F	
4	No Visible Date	Site Map	F	
5	3/3/1994	Storage of Dangerous Goods – Inspection Report	F	Matter Outside of Scope Removed
6	3/9/1990	Inspection of Flammable Liquids	F	Matter Outside of Scope Removed
7	Expiry 28/2/1985	Licence to Store Flammable Liquids	F	Matter Outside of Scope Removed
8	Expiry 28/2/1987	Licence to Store Flammable Liquids	F	Matter Outside of Scope Removed
9	10/10/1985	Inspection of Flammable Liquids	F	Matter Outside of Scope Removed
10	Expiry 28/2/1984	Licence to Store Flammable Liquids	F	Matter Outside of Scope Removed
11	Expiry 28/2/1983	Licence to Store Flammable Liquids	F	Matter Outside of Scope Removed
12	Expiry 28/2/1982	Licence to Store Flammable Liquids	F	Matter Outside of Scope Removed
13	Expiry 28/2/1981	Licence to Store Flammable Liquids	F	

DECISION
F = FULL ACCESS
E = EDITED ACCESS
R = REFUSED ACCESS
O = OUTSIDE OF SCOPE OF APPLICATION

SCHEDULE OF DOCUMENTS
DMS1157/2023 - APPLICANT: WEST SOIL AND WATER

DOC. NO.	DATE	DESCRIPTION	ACCESS DECISION	REASON
14	Expiry 28/2/1980	Licence to Store Flammable Liquids	F	Matter Outside of Scope Removed
15	Expiry 28/2/1979	Licence to Store Flammable Liquids	F	Matter Outside of Scope Removed
16	Expiry 28/2/1978	Licence to Store Flammable Liquids	F	Matter Outside of Scope Removed
17	14/2/1969	Site Map Drawing No. W.A.-W2805	F	Matter Outside of Scope Removed
18	Expiry 28/2/1977	Licence to Store Flammable Liquids	F	Matter Outside of Scope Removed
19	Expiry 28/2/1976	Licence to Store Flammable Liquids	F	Matter Outside of Scope Removed
20	Expiry 28/2/1975	Licence to Store Flammable Liquids	F	Matter Outside of Scope Removed
21	Expiry 28/2/1974	Licence to Store Flammable Liquids	F	Matter Outside of Scope Removed
22	21/2/1974	Inspection of Flammable Liquids	F	Matter Outside of Scope Removed
23	5/4/1973	Letter Inspection 3 April 1973	F	Matter Outside of Scope Removed
24	Expiry 28/2/1973	Licence to Store Flammable Liquids	F	Matter Outside of Scope Removed
25	Expiry 28/2/1972	Licence to Store Flammable Liquids	F	Matter Outside of Scope Removed
26	7/1/1972	Inspection of Flammable Liquids	F	Matter Outside of Scope Removed
27	Expiry 28/2/1971	Licence to Store Flammable Liquids	F	Matter Outside of Scope Removed

DECISION
F = FULL ACCESS
E = EDITED ACCESS
R = REFUSED ACCESS
O = OUTSIDE OF SCOPE OF APPLICATION

SCHEDULE OF DOCUMENTS
DMS1157/2023 - APPLICANT: WEST SOIL AND WATER

DOC. NO.	DATE	DESCRIPTION	ACCESS DECISION	REASON
28	No Visible Date	Site Map	F	

DECISION
F = FULL ACCESS
E = EDITED ACCESS
R = REFUSED ACCESS
O = OUTSIDE OF SCOPE OF APPLICATION

RSD/X.....

DG Licence No DGS001557

LICENCE CANCELLED

Date:.....5/8/04.....

Cancel licence checklist

- ☐ Request file from CI
- ☐ Complete this form and place on the front of the file
- ☐ Insert "Licence Cancelled" on the front of file under your signature
- ☐ Return file to CI
- ☐ Cancel file under "Log" on Hazman

DEPARTMENT OF MINES, INDUSTRY REGULATION AND SAFETY
RELEASED UNDER FOI

S1557
LH006

61

Mobil Oil Australia Limited

A.C.N. 004 052 984

SINGAPORE AIRLINES HOUSE
4TH FLOOR, 178 ST. GEORGES TERRACE
PERTH, W.A. 6000
TELEPHONE: (08) 320 5444

G.P.O. BOX 10A,
PERTH, W.A. 6001
FAX: (08) 321 3054

DATE: 28 April 1997
TO: Department of Minerals and Energy
ATT: Cathy Bryant
FROM: Donna Cassidy
SUBJECT: Amgas Address Change

Please be advised that the address for all Amgas correspondence has been changed to:

G.P.O. BOX 10A
PERTH WA 6001

This replaces the Claremont address of:

Unit 12/237 Stirling Highway

Please call me on: 320 5455 if you have any queries.

With regards

[redacted]

DONNA CASSIDY

[redacted]

pls amend holder address for all Amgas licences

[redacted] 25/4/97

25/4/97.

Environmental Awareness

DEPARTMENT OF MINES, INDUSTRY REGULATION AND SAFETY
RELEASED UNDER FOI

60

DEPARTMENT OF
MINERALS AND ENERGY
WESTERN AUSTRALIA

EXPLOSIVES AND
DANGEROUS GOODS
DIVISION

MINERAL HOUSE
100 PLAIN STREET (CNR ADELAIDE TCE)
EAST PERTH
WESTERN AUSTRALIA 6004

TELEPHONE (09) 222 3333
FACSIMILE (09) 222 3525

Your Ref:
Our Ref: DL S 1557
Enquiries to: Daniel Lasserre
Telephone: [redacted]

Please quote our Ref No when replying

Stan Lauterbach
36 Riversdale Road
RIVERVALE W.A. 6103

Dear Mr Lauterbach,

DANGEROUS GOODS REGULATIONS 1992
PREMISES: 145-147 Great Eastern Highway, Victoria Park 6100
SUBJECT: 4 x underground fuel tanks

Thank you for your letter dated 22 August 1996.

I advise that the tanks shall be rendered safe in accordance with Clause 9.8.13 of AS1940-1993 (see our letter to you dated 5 May 1996) by 28 February 1997. Written confirmation of compliance with this Clause is required in this office no later than 4 days thereafter.

If you have any queries, please do not hesitate to contact this Division.

Daniel Lasserre
for CHIEF INSPECTOR
EXPLOSIVES AND DANGEROUS GOODS DIVISION
2 September 1996

DEPARTMENT OF MINES, INDUSTRY
REGULATION AND SAFETY
RELEASED UNDER FOI

BU MSB 5/4/97
DLA 3/9/96

BPA LTD.
R 18–11/60

56.

BP
PETROLEUM PRODUCTS

[redacted] AUTO WORKS
Specialised Repairs, General Engineering, Wheel Aligning, Engine Reconditioning
145-147 Great Eastern Highway, VICTORIA PARK. Phone 6 2882
REPAIRS ARE OUR BUSINESS

EXPLOSIVES DIVISION
30 AUG 1996
RECEIVED

Dept. of Minerals & Energy
30 AUG 1996 36
A.M.
RECORDS OFFICE

22/8/96.

[redacted]
Reversdale Rd
Rivervale 6103

[redacted]

Chief Inspector of Explosives.
Mr P. Bell,

Dear Sir,

This is in response to your correspondence regarding the underground fuel tanks at above address.

I have discussed the future of these tanks with the new tenants and we have decided to leave the tanks in-situ and fill them with water for the present to remove any possible fuel remnants and then in the dry of summer remove the water & fill them with sand or similar

Thanking you for your tobrave

Yours faithfully

[redacted]

[redacted]

DEPARTMENT OF MINES, INDUSTRY REGULATION AND SAFETY
RELEASED UNDER FOI

BP ENERGOL LUBRICATION SERVICE

48.

EXPLOSIVES AND DANGEROUS GOODS DIVISION

Department of Minerals and Energy, Western Australia Ph. (09) 222 3333

K. PRICE
Chief Inspector

LICENCE TO STORE DANGEROUS GOODS

Issued in accordance with the Explosives and Dangerous Goods Act, 1961

Holder Name and Address
SOLO OIL AUSTRALIA P/L
PO BOX 7070
CLOISTERS SQ
PERTH 6850

Address of Storage
145-147 BURSWOOD RD
SOLO SERVICE STATION
VICTORIA PARK 6100

File Number 1557
Expiry Date 28/02/96

No. of Depots	Depot Type	Dangerous Goods Stored	Class	Quantity (kl/tonnes)	Fee ($)
01	GTD	FLAMMABLE LIQUIDS	3.2	0.4	
04	UTD	FLAMMABLE LIQUIDS	3.1	18.2	

Not To Be Renewed

Total Fee Payable $25.20

Conditions :-

(Refer overleaf for payment details and condition descriptions)

PLEASE DO NOT DETACH

Holder Name
SOLO OIL AUSTRALIA P/L
PO BOX 7070
CLOISTERS SQ
PERTH 6850

File Number 1557
Expiry Date 28/02/96
Fee Payable $25.20
Licence Type S

DEPARTMENT OF MINES, INDUSTRY REGULATION AND SAFETY
RELEASED UNDER FOI

EXPLOSIVES AND BLASTING AGENTS
CONDITIONS MADE UNDER SECTION 38(2) OF
THE EXPLOSIVES AND DANGEROUS GOODS ACT 1961

CONDITIONS CODE

I Licence issued subject to compliance with the provisions of Guidance Note X514 CONDITIONS FOR THE DESIGN AND LICENSING OF BLASTING AGENT MIXING VEHICLES and attached hereto.

J Vehicle approved to convey blasting agent precursors only.

K Vehicle approved to convey Class 1.5D explosives only.

L Vehicle approved to convey Class 1,5D explosives in road train configuration.

M Vehicle approved to convey detonators and explosives subject to compliance with the provisions of Guidance Note X503 VEHICLE REQUIREMENTS FOR THE ROAD TRANSPORT OF EXPLOSIVES IN RISK CATEGORY 3 QUANTITIES and attached hereto.

N Notwithstanding any specific limitations indicated in this licence, the vehicle shall not be used to convey explosives in a quantity which exceeds 15 tonnes or causes the vehicle to exceed 100% of its registered carrying capacity, whichever is the lesser quantity.
This condition is not applicable when conveying only Class 1.5D explosives or blasting agent precursors.

Q Licence issued subject to compliance with the provisions of document EB 106 CONDITIONS FOR THE MANUFACTURE OF BLASTING AGENTS and attached hereto.

TRANSPORT OF DANGEROUS GOODS
CONDITIONS MADE UNDER SECTION 46B(2) OF
THE EXPLOSIVES AND DANGEROUS GOODS ACT 1961

CONDITIONS CODE

R This licence does not authorise the transport of liquid cyanide solutions.

STORAGE OF DANGEROUS GOODS

DESCRIPTION OF DEPOTS

PDA Storage of dangerous goods in packages in the open.

PDB Storage of dangerous goods in packages in a closed lockable building.

PDC Storage of dangerous goods in packages in a lockable enclosure that is inside another building.

UTD Storage of dangerous goods in bulk in underground tanks.

GTD Storage of dangerous goods in bulk in ground level tanks.

ETD Storage of dangerous goods in bulk in elevated tanks.

BSS Storage of dangerous goods that are solids in bulk in an approved storage area.

IDA Storage of dangerous goods in intermediate bulk containers in the open.

IDB Storage of dangerous goods in intermediate bulk containers in a closed lockable building.

PAYMENT DETAILS

PAYMENT TO BE MADE TO:

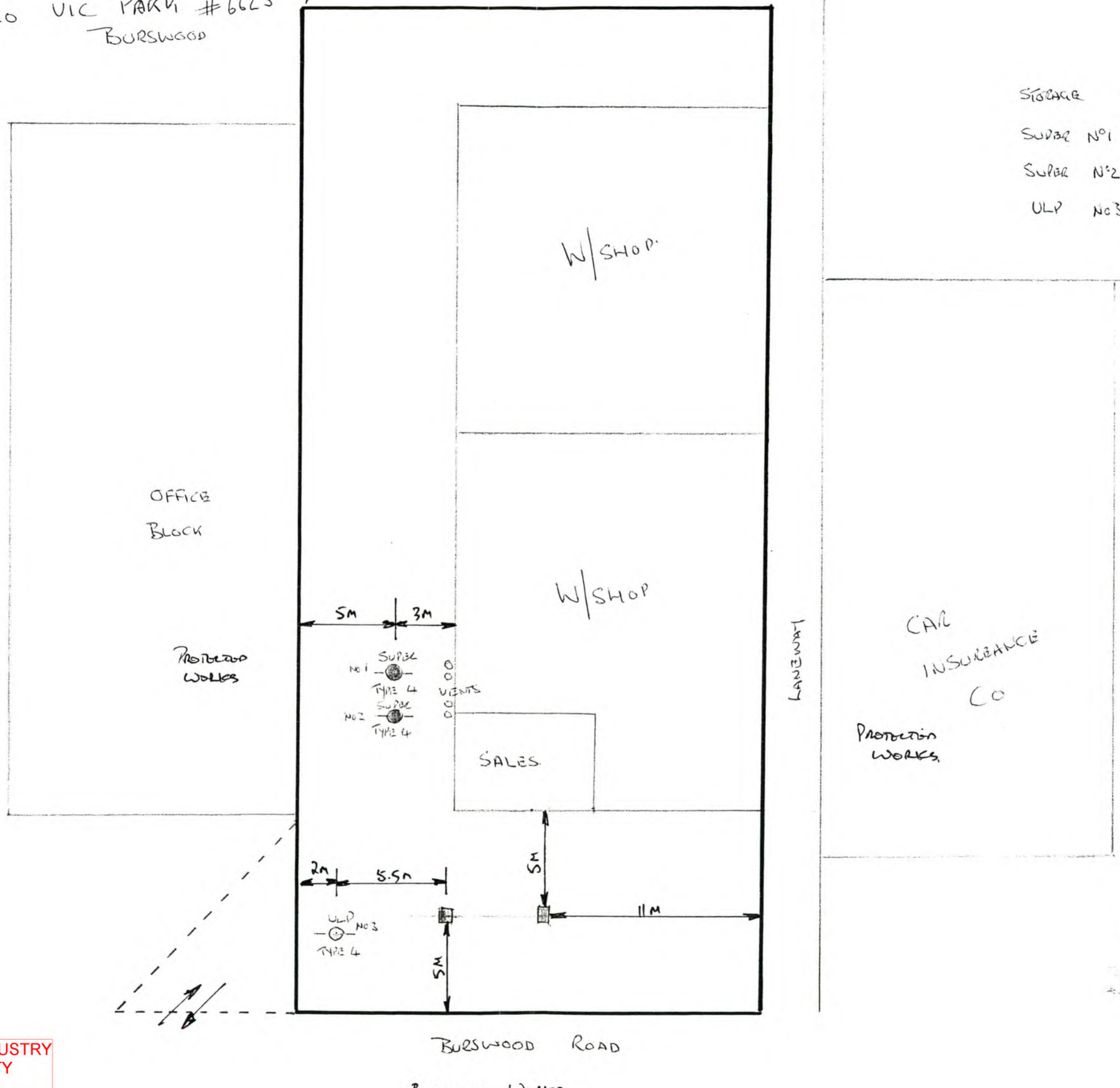
Explosives and Dangerous Goods Division
9th Floor, Mineral Hoise
100 Plain Street (Cnr Adelaide Terrace)
East Perth WA 6004

Cheques to be made payable to the "Chief Inspector of Explosives"
Hours of business (Mon-Fri 8.30-4.30)
This form must be returned with your remittance.
Licence not valid unless cash register imprint thereon.
Any change in details pertaining to this licence must be notified to the Chief Inspector in writing.

DEPARTMENT OF MINES, INDUSTRY
REGULATION AND SAFETY
RELEASED UNDER FOI

SOLO VIC PARK #6623
BURSWOOD

STORAGE TANKS.
SUPER No1 TYPE 4 # 6623-1
SUPER No2 TYPE 4 # 6623-2
ULP No3 TYPE 4 # 6623-3



DEPARTMENT OF MINES, INDUSTRY
REGULATION AND SAFETY
RELEASED UNDER FOI

4

W.A. DEPARTMENT OF MINERALS & ENERGY - EXPLOSIVES & DANGEROUS GOODS DIVISION
EXPLOSIVES AND DANGEROUS GOODS ACT 1961
DANGEROUS GOODS REGULATIONS 1992

STORAGE OF DANGEROUS GOODS - INSPECTION REPORT 2759

LICENCE HOLDER: Esso Australia Pty FILE No: 1557

ADDRESS OF PREMISES: 145-147 Burswood Rd

Victoria Park PCODE: 6100

Inspection of the abovementioned premises has shown the following items require your immediate attention:

1. Provide an additional dry chemical powder fire extinguisher having a rating of at least 2A:60B in the vicinity of the fuel bowser.
2. Prepare an Emergency Response Plan and Manifest in accordance with Regulation 4.28 (Guidance Note 3310 is supplied to assist in plan preparation).
3. Material Safety Data sheets shall be provided for all dangerous goods handled on site.
4. An adequate training must be given to all personnel engaged in the handling of dangerous goods in accordance with Regulation 4.30.
5. Complete an application form for licence attached to Guidance Note 3309 and forward to this Division.
6. Replace the vent pipes for the underground tanks. The vent needs for the underground tanks.

INSPECTOR: [redacted] LICENSEE/OCCUPIER: [redacted]

HEALTH & SAFETY REP: [redacted] DATE: 3/3/94

BOTTOM SECTION TO BE DETACHED AND RETURNED WITHIN 28 DAYS OF ABOVE DATE.

FILE No. 1557 **RI CODE** 6 **STORAGE INSPECTION REPORT** 2759

RETURN TO : CHIEF INSPECTOR OF EXPLOSIVES, 100 PLAIN STREET, EAST PERTH 6004 OR FAX (09) 222 3525

I HEREBY CONFIRM ALL ITEMS SPECIFIED IN THIS INSPECTION REPORT HAVE BEEN COMPLETED:

NAME _____ SIGNATURE _____ DATE _____

ENTERED

DEPARTMENT OF MINES, INDUSTRY REGULATION AND SAFETY
RELEASED UNDER FOI

CC 2874/1/93 50 PADS

6

DEPARTMENT OF MINES, W.A.
EXPLOSIVES AND DANGEROUS GOODS DIVISION

39

FLAMMABLE LIQUIDS STORAGE INSPECTION

NAME: SOLO OIL AUSTRALIA FILE No.: 1557

ADDRESS: 145-147 BURSWOOD RD
VICTORIA PARK

The above premises have been inspected and **do not comply** with the provisions of the FLAMMABLE LIQUIDS REGULATIONS, 1967.

It is required that the following instructions be given your **immediate attention:**

☐—Service _____ fire extinguisher(s). Last serviced _____.

☐—Recharge _____ fire extinguisher(s).

☐—Clear combustibles within, and for 3 metres surrounding the tank/drum depot.

☐—Repair or replace vent head of _____ tank. (Brass gauze damaged/missing)

☐—Extend vent pipe of _____ tank, to a height of 4 metres above ground level.

☐—Repair/Upgrade bund wall of the tank/drum depot. Minimum bund capacity shall be _____% of the licensed storage capacity of the depot.

☐—Provide 'Danger No Smoking Stop Engine'/'Danger No Smoking No Naked Lights' sign(s).

☐—The storage facilities are to be rendered safe in accordance with Regulation(s) 41 (4) and 73 (3).

Provide a 1x 2.3 kg BCF type fire extinguisher

RO/PL file [redacted] 4/9/90

ENTERED [redacted] 7/9/90

A follow-up inspection of these premises will be conducted in 3 months.

[redacted]
Inspector of Dangerous Goods

[redacted]
Owner or Representative

3/9/90
Date

DEPARTMENT OF MINES, INDUSTRY REGULATION AND SAFETY
RELEASED UNDER FOI

7 OFFICE COPY

6100 MD 231

DATE PAID	17 AUG 1984
DUPLICATE	✓
FILE	✓
FINAL NOTICE	
LETTER	

[redacted] AUTO WORKS
145-147 BURSWOOD ROAD
VICTORIA PARK 6100

Address of Licensed Premises: BP PUMPS, 145-147 BURSWOOD ROAD, VICTORIA PARK 6100

Licence Expiry Date: 28 February 1985

File Reference: 1557

Date of Last Inspection:

PARTICULARS OF DRUM DEPOTS AND TANKS

TYPE OF DEPOT	No. of DEPOTS	QUANTITY STORED (KILOLITRES) CLASS 1	CLASS 2	CLASS 3	TOTAL QTY. ALL CLASSES (Kilolitres)
DRUM DEPOT A					
DRUM DEPOT B					
DRUM DEPOT C					
UNDERGROUND TANKS	4	18.2			18.2
GROUND LEVEL TANKS					
ELEVATED TANKS					
TOTAL QUANTITY OF ALL LIQUIDS APPROVED UNDER LICENCE					18.2

LICENCE FEE

THE CHIEF INSPECTOR OF EXPLOSIVES MUST BE NOTIFIED IN WRITING OF ANY CHANGES OF DEPOTS, TANKS OR QUANTITY STORED; AND DISTANCES BETWEEN DEPOTS AND PROTECTED WORKS.

FEE DUE $ 16.00

SCALE OF FEES IN ACCORDANCE WITH REGULATION 156 OF THE FLAMMABLE LIQUIDS REGULATIONS, 1967

CONDITIONS OF LICENCE:

DEPARTMENT OF MINES, INDUSTRY REGULATION AND SAFETY
RELEASED UNDER FOI

THIS LICENCE IS GRANTED IN ACCORDANCE WITH REG. 147A OF THE FLAMMABLE LIQUIDS REGULATIONS 1967.

THIS LICENCE IS A PROVISIONAL LICENCE IN ACCORDANCE WITH REG. 147B OF THE FLAMMABLE LIQUIDS REGULATIONS 1967.

[redacted]
Chief Inspector of Explosives

CP 11114/1/82-10M

R/S File please + return to [redacted]

+ [redacted] Please send the [redacted] 4/11/82
usual follow up letter

Noted [redacted] 4/11/82

10

(32)

EXPLOSIVES AND DANGEROUS GOODS DIVISION
Department of Mines ph. (09) 325 9966

LICENCE TO STORE FLAMMABLE LIQUIDS

Issued in accordance with the Flammable Liquids Regulations 1967 (see over for payment details)

ADDRESS OF LICENCED PREMISES
SOLO SERVICE STATION
145-147 BURSWOOD ROAD
VICTORIA PARK 6100

TYPE OF LICENCE
THIS LICENCE GRANTED UNDER REG. 147(A)
FLAMMABLE LIQUIDS REGULATIONS(1967)

HOLDERS NAME AND ADDRESS
[redacted] AUTO WORKS
145-147 BURSWOOD ROAD
VICTORIA PARK 6100
SOLO SERVICE STATION
145-147 BURSWOOD ROAD
VICTORIA PARK 6100

FILE No. 1557
DATE OF ISSUE 28/02/86
EXPIRY DATE 28/02/87
INSPECTION DATE

CONDITIONS OF LICENCE
Noted [redacted] 29/1/86 renewal sent

PARTICULARS OF DRUM DEPOTS AND TANKS						
TYPE OF DEPOT	No. OF DEPOTS	QUANTITY STORED (KILOLITRES)			TOTAL QTY. ALL CLASSES (Kilolitres)	
		CLASS 1	CLASS 2	CLASS 3		
DRUM DEPOT A						
DRUM DEPOT B						
DRUM DEPOT C						
UNDERGROUND TANKS	4	18.2			18.2	
GROUND LEVEL TANKS	1		.4		.4	
ELEVATED TANKS						
TOTAL QUANTITY OF ALL LIQUIDS APPROVED UNDER LICENCE					18.6	$16.00

H. DOUGLAS
CHIEF INSPECTOR

HOLDERS NAME AND ADDRESS
[redacted] AUTO WORKS
145-147 BURSWOOD ROAD
VICTORIA PARK 6100

FILE No. 1557
DATE OF ISSUE 28/02/86
FEE PAYABLE $16.00

DEPARTMENT OF MINES, INDUSTRY REGULATION AND SAFETY
RELEASED UNDER FOI

PAYMENT DETAILS

– Payment is to be made to the Cashier, Explosives and Dangerous Goods Division, 10 Victoria Ave, Perth, 6000.
– Hours of Business (Mon–Fri 8.30 – 4.30)
– Cheques are to be made payable to the "Chief Inspector of Explosives".
– This licence must accompany your remittance.
– This licence is not valid until it bears the official cash register imprint.

VARIATIONS

– Where the ownership or occupancy of the premises specified in this license is transferred or altered the new owner or occupier shall forthwith give notice in writing of the change to the Chief Inspector and where applicable pay the prescribed transfer fee.

DEPARTMENT OF MINES, INDUSTRY
REGULATION AND SAFETY
RELEASED UNDER FOI

MINES DEPARTMENT OF W.A.
EXPLOSIVES BRANCH

MD 77

31

INSPECTION OF FLAMMABLE LIQUIDS

Name Solo Sevice Station File No. 1557

Address 145 - 147 Burswood Rd
Victoria Park.

Remarks:

1. The above premises have been inspected and considered to be in compliance with the provisions of the FLAMMABLE LIQUIDS REGULATIONS, 1967.
2. The above premises have been inspected and do not comply with the provisions of the Flammable Liquids Regulations, 1967. It is required that the following instructions be given your immediate attention:—

1. Provide approved vent for one of the underground tanks. And also check the vent heads (ensure that the brass gauzes are intact).

EXPLOSIVES BRANCH
FILE

1474.

Inspection of these premises will be made again in ..... months.

[redacted]

DEPARTMENT OF MINES, INDUSTRY REGULATION AND SAFETY
RELEASED UNDER FOI

Date 10 Oct 85

[redacted]
Inspector of Explosives

90510/11/79—100PDS—H868

OFFICE COPY 6100

MD 231

DATE PAID	4 MAR 1983
DUPLICATE	✓
FILE	✓
FINAL NOTICE	
LETTER	

[redacted]
145-147 BURSWOOD ROAD
VICTORIA PARK 6100

Address of Licensed Premises: [redacted] AUTO WORKS (BP PUMPS), 145-147 BURSWOOD RD VICTORIA PARK 6100

Licence Expiry Date: 28 Feb '84

File Reference: 1557

Date of Last Inspection:

PARTICULARS OF DRUM DEPOTS AND TANKS

TYPE OF DEPOT	No. of DEPOTS	QUANTITY STORED (KILOLITRES) CLASS 1	CLASS 2	CLASS 3	TOTAL QTY. ALL CLASSES (Kilolitres)
DRUM DEPOT A					
DRUM DEPOT B					
DRUM DEPOT C					
UNDERGROUND TANKS	4	18.2			18.2
GROUND LEVEL TANKS					
ELEVATED TANKS					
TOTAL QUANTITY OF ALL LIQUIDS APPROVED UNDER LICENCE					18.2

EXPIRED

LICENCE FEE

THE CHIEF INSPECTOR OF EXPLOSIVES MUST BE NOTIFIED IN WRITING OF ANY CHANGES OF DEPOTS, TANKS OR QUANTITY STORED; AND DISTANCES BETWEEN DEPOTS AND PROTECTED WORKS.

FEE DUE

$ ~~14.00~~ 16-00

SCALE OF FEES IN ACCORDANCE WITH REGULATION 156 OF THE FLAMMABLE LIQUIDS REGULATIONS, 1967

CONDITIONS OF LICENCE:

DEPARTMENT OF MINES, INDUSTRY REGULATION AND SAFETY
RELEASED UNDER FOI

THIS LICENCE IS GRANTED IN ACCORDANCE WITH REG. 147A OF THE FLAMMABLE LIQUIDS REGULATIONS 1967.

THIS LICENCE IS A PROVISIONAL LICENCE IN ACCORDANCE WITH REG. 147B OF THE FLAMMABLE LIQUIDS REGULATIONS 1967.

6793

17 AUG 1984

[redacted]

Chief Inspector of Explosives

CP 11114/1/82-10M

11

OFFICE COPY 6100 MD 231

28

DATE PAID	8 FEB 1982
DUPLICATE	✓
FILE	✓
FINAL NOTICE	
LETTER	

[redacted]
145-147 BURSWOOD ROAD
VICTORIA PARK 6100

Address of Licensed Premises: [redacted] AUTO WORKS (BP)
145-147 BURSWOOD ROAD
VICTORIA PARK 6100

Licence Expiry Date: 28 Feb '83
File Reference: 1567 1557
Date of Last Inspection:

PARTICULARS OF DRUM DEPOTS AND TANKS

TYPE OF DEPOT	No. of DEPOTS	QUANTITY STORED (KILOLITRES) CLASS 1	CLASS 2	CLASS 3	TOTAL QTY. ALL CLASSES (Kilolitres)
DRUM DEPOT A					
DRUM DEPOT B					
DRUM DEPOT C					
UNDERGROUND TANKS	4	18.2			18.2
GROUND LEVEL TANKS					
ELEVATED TANKS					
TOTAL QUANTITY OF ALL LIQUIDS APPROVED UNDER LICENCE					18.2

EXPIRED

LICENCE FEE

THE CHIEF INSPECTOR OF EXPLOSIVES MUST BE NOTIFIED IN WRITING OF ANY CHANGES OF DEPOTS, TANKS OR QUANTITY STORED; AND DISTANCES BETWEEN DEPOTS AND PROTECTED WORKS.

FEE DUE

$ ~~12.00~~ 1400

9/12

SCALE OF FEES IN ACCORDANCE WITH REGULATION 156 OF THE FLAMMABLE LIQUIDS REGULATIONS, 1967

CONDITIONS OF LICENCE:

DEPARTMENT OF MINES, INDUSTRY REGULATION AND SAFETY RELEASED UNDER FOI

7142 4 MAR 1983

THIS LICENCE IS GRANTED IN ACCORDANCE WITH REG. 147A OF THE FLAMMABLE LIQUIDS REGULATIONS 1967.

THIS LICENCE IS A PROVISIONAL LICENCE IN ACCORDANCE WITH REG. 147B OF THE FLAMMABLE LIQUIDS REGULATIONS 1967

[redacted]
Chief Inspector of Explosives

XS 5071 5/78-20M

15

12 OFFICE COPY

MD 231

6100

26.

DEPARTMENT OF MINES, INDUSTRY REGULATION AND SAFETY
RELEASED UNDER FOI

DATE PAID	29 JAN 1981
DUPLICATE	✓
FILE	✓
FINAL NOTICE	
LETTER	

[redacted]
145-147 BURSWOOD ROAD
VICTORIA PARK 6100

Address of Licensed Premises [redacted] AUTO WORKS (BP)
145-147 BURSWOOD ROAD
VICTORIA PARK 6100

Licence Expiry Date 28 Feb '82

File Reference 1557

Date of Last Inspection

PARTICULARS OF DRUM DEPOTS AND TANKS						LICENCE FEE
TYPE OF DEPOT	No. of DEPOTS	QUANTITY STORED (KILOLITRES) CLASS 1	CLASS 2	CLASS 3	TOTAL QTY. ALL CLASSES (Kilolitres)	
DRUM DEPOT A						THE CHIEF INSPECTOR OF EXPLOSIVES MUST BE NOTIFIED IN WRITING OF ANY CHANGES OF DEPOTS, TANKS OR QUANTITY STORED; AND DISTANCES BETWEEN DEPOTS AND PROTECTED WORKS.
DRUM DEPOT B						
DRUM DEPOT C						
UNDERGROUND TANKS	4	18.2			18.2	
GROUND LEVEL TANKS						
ELEVATED TANKS						FEE DUE
TOTAL QUANTITY OF ALL LIQUIDS APPROVED UNDER LICENCE					18.2	$ 12.00

EXPIRED

[redacted] 8/1

SCALE OF FEES IN ACCORDANCE WITH REGULATION 156 OF THE FLAMMABLE LIQUIDS REGULATIONS, 1967

CONDITIONS OF LICENCE:

8607. 8 FEB 1982

THIS LICENCE IS GRANTED IN ACCORDANCE WITH REG. 147A OF THE FLAMMABLE LIQUIDS REGULATIONS 1967.

THIS LICENCE IS A PROVISIONAL LICENCE IN ACCORDANCE WITH XXXX

13

OFFICE COPY

6100 MD 231

DATE PAID	11 FEB 1980
DUPLICATE	✓
FILE	✓
FINAL NOTICE	
LETTER	

[redacted]
145-147 BURSWOOD ROAD
VICTORIA PARK 6100

Address of Licensed Premises: [redacted] AUTO WORKS (BP)
145-147 BURSWOOD ROAD
VICTORIA PARK 6100

Licence Expiry Date: 28 FEB '81
File Reference: 1557
Date of Last Inspection:

EXPIRED

PARTICULARS OF DRUM DEPOTS AND TANKS

TYPE OF DEPOT	No. of DEPOTS	QUANTITY STORED (KILOLITRES) CLASS 1	CLASS 2	CLASS 3	TOTAL QTY. ALL CLASSES (Kilolitres)
DRUM DEPOT A					
DRUM DEPOT B					
DRUM DEPOT C					
UNDERGROUND TANKS	4	18.2			18.2
GROUND LEVEL TANKS					
ELEVATED TANKS					
TOTAL QUANTITY OF ALL LIQUIDS APPROVED UNDER LICENCE					18.2

LICENCE FEE

THE CHIEF INSPECTOR OF EXPLOSIVES MUST BE NOTIFIED IN WRITING OF ANY CHANGES OF DEPOTS, TANKS OR QUANTITY STORED; AND DISTANCES BETWEEN DEPOTS AND PROTECTED WORKS.

FEE DUE

$ ~~6.00~~ 12.00

3/1

SCALE OF FEES IN ACCORDANCE WITH REGULATION 156 OF THE FLAMMABLE LIQUIDS REGULATIONS, 1967

CONDITIONS OF LICENCE:

584 29 JAN 1981

DEPARTMENT OF MINES, INDUSTRY REGULATION AND SAFETY
RELEASED UNDER FOI

THIS LICENCE IS GRANTED IN ACCORDANCE WITH REG. 147A OF THE FLAMMABLE LIQUIDS REGULATIONS 1967. 147(A)

~~THIS LICENCE IS A PROVISIONAL LICENCE IN ACCORDANCE WITH REG. 147B OF THE FLAMMABLE LIQUIDS REGULATIONS 1967.~~

[redacted]
Chief Inspector of Explosives

XS 5071 5/78-20M

17

14

OFFICE COPY 6100 MD 231 23

DATE PAID	6 FEB 1979
DUPLICATE	
FILE	
FINAL NOTICE	
LETTER	

[redacted]
145-147 BURSWOOD ROAD
VICTORIA PARK 6100

Address of Licensed Premises: [redacted] AUTO WORKS (BP)
145-147 BURSWOOD ROAD
VICTORIA PARK 6100

Licence Expiry Date: 28 Feb '80
File Reference: 1557
Date of Last Inspection:

PARTICULARS OF DRUM DEPOTS AND TANKS

TYPE OF DEPOT	No. of DEPOTS	QUANTITY STORED (KILOLITRES) CLASS 1	CLASS 2	CLASS 3	TOTAL QTY. ALL CLASSES (Kilolitres)
DRUM DEPOT A					
DRUM DEPOT B					
DRUM DEPOT C					
UNDERGROUND TANKS	4	18.2			18.2
GROUND LEVEL TANKS					
ELEVATED TANKS					
TOTAL QUANTITY OF ALL LIQUIDS APPROVED UNDER LICENCE					18.2

EXPIRED

LICENCE FEE

THE CHIEF INSPECTOR OF EXPLOSIVES MUST BE NOTIFIED IN WRITING OF ANY CHANGES OF DEPOTS, TANKS OR QUANTITY STORED; AND DISTANCES BETWEEN DEPOTS AND PROTECTED WORKS.

FEE DUE $ 6.00

[redacted] 4/1

SCALE OF FEES IN ACCORDANCE WITH REGULATION 156 OF THE FLAMMABLE LIQUIDS REGULATIONS, 1967

CONDITIONS OF LICENCE:

2914.
11 FEB 1980

DEPARTMENT OF MINES, INDUSTRY REGULATION AND SAFETY
RELEASED UNDER FOI

THIS LICENCE IS GRANTED IN ACCORDANCE WITH REG. 147A OF THE FLAMMABLE LIQUIDS REGULATIONS 1967.

THIS LICENCE IS A PROVISIONAL LICENCE IN ACCORDANCE WITH REG. 147B OF THE FLAMMABLE LIQUIDS REGULATIONS 1967.

[redacted]
Chief Inspector of Explosives

XS 5071 5/78-20M

18

15

OFFICE COPY

MD 231

21

6100

DATE PAID	10 FEB
DUPLICATE	/
FILE	/
FINAL NOTICE	
LETTER	

OFFICIAL RECEIPT as printed by Cash Register

[redacted]
145-147 BURSWOOD ROAD
VICTORIA PARK 61-0

[redacted] AUTO WORKS (BP)

Address of Licensed Premises 145-147 BURSWOOD ROAD VICTORIA PARK 6100

Licence Expiry Date 28 Feb '79

File Reference 1557

Date of Last Inspection

PARTICULARS OF DRUM DEPOTS AND TANKS						LICENCE FEE
TYPE OF DEPOT	No. of DEPOTS	QUANTITY STORED (KILOLITRES) CLASS 1	CLASS 2	CLASS 3	TOTAL QTY. ALL CLASSES (Kilolitres)	
DRUM DEPOT A						
DRUM DEPOT B	1	0.6			0.6	
DRUM DEPOT C						
UNDERGROUND TANKS	4	45.0 18.2			45.0 18.2	
GROUND LEVEL TANKS						
ELEVATED TANKS						
TOTAL QUANTITY OF ALL LIQUIDS APPROVED UNDER LICENCE					45.6	$15.00 6.00

EXPIRED

[redacted] 9/1

18.2

6 FEB 1979

5268.

DEPARTMENT OF MINES, INDUSTRY REGULATION AND SAFETY
RELEASED UNDER FOI

THIS LICENCE IS GRANTED IN ACCORDANCE WITH REG. 147A OF THE FLAMMABLE LIQUIDS REGULATIONS 1967.

THIS LICENCE IS A PROVISIONAL LICENCE IN ACCORDANCE WITH REG. 147B OF THE FLAMMABLE LIQUIDS REGULATIONS 1967.

OFFICE COPY

6100 MD 231

(19)

DATE PAID	15 FEB 1977
DUPLICATE	
FILE	
FINAL NOTICE	
LETTER	

OFFICIAL RECEIPT as printed by Cash Register

DEPARTMENT OF MINES, INDUSTRY REGULATION AND SAFETY
RELEASED UNDER FOI

[redacted]
145-147 Burswood Road
VICTORIA PARK 6100

[redacted] AUTO WORKS (BP)

Address of Licensed Premises: 145-147 BURSWOOD ROAD, VICTORIA PARK 6100

Licence Expiry Date: 28 Feb'78

File Reference: 1557

Date of Last Inspection:

PARTICULARS OF DRUM DEPOTS AND TANKS

TYPE OF DEPOT	No. of DEPOTS	QUANTITY STORED (KILOLITRES) CLASS 1	CLASS 2	CLASS 3	TOTAL QTY. ALL CLASSES (Kilolitres)
DRUM DEPOT A					
DRUM DEPOT B	~~1~~	~~0.6~~			~~0.6~~
DRUM DEPOT C					
UNDERGROUND TANKS	~~4~~ 4	~~18.2~~ 18.2			~~18.2~~ 18.2
GROUND LEVEL TANKS					
ELEVATED TANKS					
TOTAL QUANTITY OF ALL LIQUIDS APPROVED UNDER LICENCE					~~18.8~~ 18.2

EXPIRED

LICENCE FEE: $ ~~6.00~~ ~~15.00~~ 6.00

~~456~~
18.2

[redacted] 31/1

THIS LICENCE IS GRANTED IN ACCORDANCE WITH REG. 147A OF THE FLAMMABLE LIQUIDS REGULATIONS 1967.

THIS LICENCE IS A PROVISIONAL LICENCE IN ACCORDANCE WITH REG. 147B OF THE FLAMMABLE LIQUIDS REGULATIONS 1967.

10 FEB 1978

755

GREAT EASTERN HIGHWAY

Floodlight on Stand

EASEMENT

Corral fence

Two Vents

BITUMEN

Super F&D Super F&D

PROPOSED 6000 GLN TANK TYPE 25.

Line of Bitumen

Line of Gravel

Regular F&D Super F&D

RED CONCRETE

Super Pump

Display Stand

Super Mid Pump

P.M.G.

POLE SIGN with flood light

SEC Pole

SEC Run in

4" ø DP

W Meter Box

Two Vents

Fire Extinguisher 3 Phase

Single Phase

Floodlight

For Partition details and Sales layout refer WAXEBOX

Incandescent

Truss Over

3 Single Phase Switches

9 Blade louver Windows

Roof Overhang

Fire Extinguisher

SERVICE BAY

WORKSHOP

CONCRETE FLOOR

Sub - Switchboard

3 Phase P.P. Fire Extinguisher

Steam Cleaning

3 Blade louver Window

M.W.S.

BITUMEN

Single Phase

Hoist Bolte

LUBRICATION

Oil Bar

Louver Windows

R.S.J. Over

Rail type hoist

4 leaf folding doors

Playboard

3 Single Phase

STORE

Sink

H.W. System

COMP

Notice board Stand

NATURAL AREA

GRAVEL AREA

165' 0"

RIGHT OF CARRIAGE WAY

EXPLOSIVES BRANCH - DEPT. OF MINES
Location of Flammable [redacted]
Depots approved as [redacted]
on this plan
CHIEF INSPECTOR [redacted]
FILE No.
Date 13.7.77

• NORTH EAST ELEVATION

[redacted] AUTO WORKS - VICTORIA PARK

AMENDMENTS

AMENDMENTS

• [redacted] AUTO WORKS
• 147 GREAT EASTERN HIGHWAY
• VICTORIA PARK

DEPARTMENT OF MINES, INDUSTRY REGULATION AND SAFETY
RELEASED UNDER FOI

BP AUSTRALIA
WESTERN AUSTRALIAN BRANCH

DRAWN	[redacted]	APPROVED	DRAWING No. W.A.-W2805
DATE	14 FEB 69		
CHECKED			ISSUE No. [redacted]
SCALES	1/8" to 1'0"		

18 OFFICE COPY 6100 MD 231

DATE PAID	27 APR 1976
DUPLICATE	/
FILE	/
FINAL NOTICE	1.4.76
LETTER	

OFFICIAL RECEIPT as printed by Cash Register

[redacted]
145-147 Burswood Road
VICTORIA PARK 6100

Address of Licensed Premises: STAN LAUTERBACH'S AUTO WORKS (BP), 145-147 BURSWOOD ROAD, VICTORIA PARK 6100

Licence Expiry Date: 38 Feb'77

File Reference: 1557

Date of Last Inspection:

EXPIRED

PARTICULARS OF DRUM DEPOTS AND TANKS						LICENCE FEE
TYPE OF DEPOT	No. of DEPOTS	QUANTITY STORED (KILOLITRES) CLASS 1	CLASS 2	CLASS 3	TOTAL QTY. ALL CLASSES (Kilolitres)	
DRUM DEPOT A						
DRUM DEPOT B	1	0.6			0.6	
DRUM DEPOT C						
UNDERGROUND TANKS	5 ~~4~~	45.0 ~~18.2~~			45.0 ~~18.2~~	
GROUND LEVEL TANKS						
ELEVATED TANKS						
TOTAL QUANTITY OF ALL LIQUIDS APPROVED UNDER LICENCE					~~18.8~~ 45.6	$ ~~6.00~~ $15.00

30/1

DEPARTMENT OF MINES, INDUSTRY REGULATION AND SAFETY
RELEASED UNDER FOI

THIS LICENCE IS GRANTED IN ACCORDANCE WITH REG. 147A OF THE FLAMMABLE LIQUIDS REGULATIONS 1967.

15 FEB 1977

THIS LICENCE IS A PROVISIONAL LICENCE IN ACCORDANCE WITH REG. 147B OF THE FLAMMABLE LIQUIDS REGULATIONS 1967.

19

OFFICE COPY 6100

13

DEPARTMENT OF MINES, INDUSTRY REGULATION AND SAFETY
RELEASED UNDER FOI

DATE PAID 25 FEB 1975
DUPLICATE
FILE

[redacted]
145-147 Burswood Road,
VICTORIA PARK WA 6100

OFFICIAL RECEIPT as printed by Cash Register.

[redacted] AUTO WORKS (BP)

Address of Licensed Premises: 145-147 BURSWOOD ROAD, VICTORIA PARK WA 6100

Licence Expiry Date: 28th Feb '76
File Reference: 1557
Date of Last Inspection: 22.7.75

EXPIRED

PARTICULARS OF DRUM DEPOTS AND TANKS						LICENCE FEE
TYPE OF DEPOT	No. of DEPOTS	QUANTITY STORED (GALLONS) Kilolitres			TOTAL QTY. ALL CLASSES (Gallons) Kilolitres	
		CLASS 1	CLASS 2	CLASS 3		
DRUM DEPOT A						
DRUM DEPOT B	1	0.6			0.6	
DRUM DEPOT C						
UNDER-GROUND TANKS	4	18.2			18.2	
GROUND LEVEL TANKS						
ELEVATED TANKS						
TOTAL QUANTITY OF ALL LIQUIDS APPROVED UNDER LICENCE					18.8	$ 6.00

31/1 [redacted]

EXPLOSIVES BRANCH FILE

THIS LICENCE IS GRANTED IN ACCORDANCE WITH REG. 147A OF THE FLAMMABLE LIQUIDS REGULATIONS 1967.

THIS LICENCE IS A PROVISIONAL LICENCE IN ACCORDANCE WITH REG. 147B OF THE FLAMMABLE LIQUIDS REGULATIONS 1967.

2 APR 1976

98820/6/72—20,000 SETS

23

20

6100

11

OFFICE COPY

[redacted]

145-147 Burswood Road,
VICTORIA PARK. W.A. 6100.

DUPLICATE
FILE
FILE COPY
13 FEB 1974

OFFICIAL RECEIPT as printed by Cash Register.

Address of Licensed Premises: 145 - 147 BURSWOOD ROAD, VICTORIA PARK. W.A. 6100.

Licence Expiry Date: 28th Feb.'75

File Reference: ~~1577~~ 1557

Date of Last Inspection:

PARTICULARS OF DRUM DEPOTS AND TANKS

TYPE OF DEPOT	No. of DEPOTS	QUANTITY STORED (GALLONS) CLASS 1	CLASS 2	CLASS 3	TOTAL QTY. ALL CLASSES (Gallons)
DRUM DEPOT A					
DRUM DEPOT B	1	0·6 ~~132~~			0·6 ~~132~~
DRUM DEPOT C					
UNDER-GROUND TANKS	4	18·2 ~~4,000~~			18·2 ~~4,000~~
GROUND LEVEL TANKS					
ELEVATED TANKS					
TOTAL QUANTITY OF ALL LIQUIDS APPROVED UNDER LICENCE					~~4,132~~ 18·8

LICENCE FEE

Expired

$ 6.00

31/1 [redacted]

DEPARTMENT OF MINES, INDUSTRY REGULATION AND SAFETY
RELEASED UNDER FOI

THIS LICENCE IS GRANTED IN ACCORDANCE WITH REG. 147A OF THE FLAMMABLE LIQUIDS REGULATIONS 1967.

THIS LICENCE IS A PROVISIONAL LICENCE IN ACCORDANCE WITH REG. 147B OF THE FLAMMABLE LIQUIDS REGULATIONS 1967.

25 FEB 1975

8690

98820/6/72—20,000 SETS

OFFICE COPY

10

6100

DATE PAID 13 FEB 1973
DUPLICATE
TWIE
FIRST NOTICE
LETTER

R. No R7010

OFFICIAL RECEIPT as printed by Cash Register.

[redacted]
145-7 Burswood Road,
VICTORIA PARK. W.A. 6100

Address of Licensed Premises: 145-7 BURSWOOD ROAD, VICTORIA PARK. W.A. 6100

Licence Expiry Date: 28th Feb'74

File Reference: 1557

Date of Last Inspection:

PARTICULARS OF DRUM DEPOTS AND TANKS						LICENCE FEE
TYPE OF DEPOT	No. of DEPOTS	QUANTITY STORED (GALLONS) CLASS 1	CLASS 2	CLASS 3	TOTAL QTY. ALL CLASSES (Gallons)	
DRUM DEPOT A						
DRUM DEPOT B	1	132			132	
DRUM DEPOT C						
UNDER-GROUND TANKS	4	4,000			4,000	
GROUND LEVEL TANKS						
ELEVATED TANKS						
TOTAL QUANTITY OF ALL LIQUIDS APPROVED UNDER LICENCE					~~4,000~~ 4132.	$ 6.00

31/1 [redacted]

Expired

DEPARTMENT OF MINES, INDUSTRY REGULATION AND SAFETY
RELEASED UNDER FOI

NEW AMENDED SCALE OF FEES OPERATE FROM 1ST JANUARY, 1973.

THIS LICENCE IS GRANTED IN ACCORDANCE WITH REG. 147A OF THE FLAMMABLE LIQUIDS REGULATIONS 1967.

2751

THIS LICENCE IS A PROVISIONAL LICENCE IN ACCORDANCE WITH REG. 147B OF THE FLAMMABLE LIQUIDS REGULATIONS 1967.

13 FEB 1974

Received

98820/6/72—20,000 SETS

MD 77

MINES DEPARTMENT OF W.A.
EXPLOSIVES BRANCH
INSPECTION OF FLAMMABLE LIQUIDS

Name [redacted] File No. 1557

Address B.P. Service Station
145-147 Burswood Road
Victoria Park 6100

Remarks :

1. The above premises have been inspected and considered to be in compliance with the provisions of the FLAMMABLE LIQUIDS REGULATIONS, 1967.

2. The above premises have been inspected and do not comply with the provisions of the Flammable Liquids Regulations, 1967. It is required that the following instructions be given your immediate attention:–

To provide 1 x 20 dcp
To erect a small D/D or u/g tank to store 2000 petrol, at present stored in lube room (3 x 44 gallons)
To kept locked Fill & dip pipes of u/g petrol tank

Note please: This is a old type of service station it is build from bricks and front part is a storeroom, office & lube room and back part is workshop.
two petrol pumps connected with u/g tanks store in front of premises

Inspection of these premises will be made again in 3 months.

Covered with canopy. Vent pipe in good order after last repairs
Here are 2 x 2 gallon tins only

Date 21/2/74 [redacted] Inspector of Explosives

81869/7/70–50 PDS–H868

DEPARTMENT OF MINES, INDUSTRY REGULATION AND SAFETY
RELEASED UNDER FOI

DEPARTMENT OF MINES, INDUSTRY REGULATION AND SAFETY
RELEASED UNDER FOI

7.

[redacted]
145-147 Burswood Road,
VICTORIA PARK. W.A. 6100

JB:ER/1557
Mr. Best

Dear Sir,

Re: 145-147 Burswood Road, Victoria Pk.

The above premises were inspected on 3rd April, 1973 and showed the following instances of non-compliance with the Flammable Liquids Regulations, 1967.

1. New gauze wire to be installed in vent pipe heads.

2. Locks to be fitted to underground petrol tank fill and dip pipe caps.

3. The storage of outboard fuel and mower fuel does not comply with Flammable Liquids Regulations and a suitable depot for the storage of these fuels must be provided. I enclose a booklet on different types of depots for your information.

Your early advice in respect of these requirements would be appreciated.

Yours faithfully,

EXPLOSIVES BRANCH - 9 APR 1973 FILE

[redacted]
G.A. Greaves
CHIEF INSPECTOR OF EXPLOSIVES

noted [redacted] 10/4/73

5th April, 1973.

[redacted] 11/4 amended. 11/4 amend quantities to page 5 [redacted] 6/4/73

(Encl.)

OFFICE COPY

6100

DEPARTMENT OF MINES, INDUSTRY REGULATION AND SAFETY
RELEASED UNDER FOI

[redacted]
145-7 Burswood Road,
VICTORIA PARK. W.A. 6100

B. P. Service Station

DATE PAID 14 FEB 1972
DUPLICATE
FILE

OFFICIAL RECEIPT as printed by Cash Register

Address of Licensed Premises: 145-7 BURSWOOD ROAD, VICTORIA PARK. W.A. 6100

Licence Expiry Date: 28th Feb'73
File Reference: 1557
Date of Last Inspection:

PARTICULARS OF DRUM DEPOTS AND TANKS

TYPE OF DEPOT	No. of DEPOTS	QUANTITY STORED (GALLONS) CLASS 1	CLASS 2	CLASS 3	TOTAL QTY. ALL CLASSES (Gallons)
DRUM DEPOT A					
DRUM DEPOT B	1	132			132
DRUM DEPOT C					
UNDERGROUND TANKS	4	4,000			4,000
GROUND LEVEL TANKS					
ELEVATED TANKS					
TOTAL QUANTITY OF ALL LIQUIDS APPROVED UNDER LICENCE					~~4,000~~ 4132.

LICENCE FEE: $ 4.00

28/1 [redacted]

Renewed
13 FEB 1973

THIS LICENCE IS GRANTED IN ACCORDANCE WITH REG. 147A OF THE FLAMMABLE LIQUIDS REGULATIONS 1967.

THIS LICENCE IS A PROVISIONAL LICENCE IN ACCORDANCE WITH REG. 147B OF THE FLAMMABLE LIQUIDS REGULATIONS 1967.

4010

25

OFFICE COPY

6100

4

DATE PAID	17 APR 1971
DUPLICATE	✓
FILE	
FINAL NOTICE	25 MAR 1971
LETTER	

DEPARTMENT OF MINES, INDUSTRY REGULATION AND SAFETY
RELEASED UNDER FOI

[redacted]
36 Riverdale Road,
VICTORIA PARK. W.A. 6100
as below

OFFICIAL RECEIPT as printed by Cash Register

Address of Licensed Premises: 145-7 BURSWOOD ROAD, VICTORIA PARK. W.A. 6100

Licence Expiry Date: 28th Feb'72

File Reference: 1557

Date of Last Inspection:

PARTICULARS OF DRUM DEPOTS AND TANKS

TYPE OF DEPOT	No. of DEPOTS	QUANTITY STORED (GALLONS) CLASS 1	CLASS 2	CLASS 3	TOTAL QTY. ALL CLASSES (Gallons)
DRUM DEPOT A					
DRUM DEPOT B					
DRUM DEPOT C					
UNDERGROUND TANKS	4	4,000			4,000
GROUND LEVEL TANKS					
ELEVATED TANKS					
TOTAL QUANTITY OF ALL LIQUIDS APPROVED UNDER LICENCE					4,000

LICENCE FEE

$ 4.00

28/1 [redacted]

Receipt returned unclaimed 22/4/71
Now Sending Receipt [redacted]
to ADDRESS of Licenced Premises. 22/4/71 [redacted]

THIS LICENCE IS GRANTED IN ACCORDANCE WITH REG. 147A OF THE FLAMMABLE LIQUIDS REGULATIONS 1967.

THIS LICENCE IS A PROVISIONAL LICENCE IN ACCORDANCE WITH REG. 147B OF THE FLAMMABLE LIQUIDS REGULATIONS 1967.

Renewed 14 FEB 1972

MD 77

3

MINES DEPARTMENT OF W.A.

EXPLOSIVES BRANCH

INSPECTION OF FLAMMABLE LIQUIDS

Name..... [redacted] ..... File No. 1557

Address 145-7 Burswood Road
(BP Service Station)
VICTORIA PARK W.A. 6100

Remarks :

1. The above premises have been inspected and considered to be in compliance with the provisions of the FLAMMABLE LIQUIDS REGULATIONS, 1967.

2. The above premises have been inspected and do not comply with the provisions of the Flammable Liquids Regulations, 1967. It is required that the following instructions be given your immediate attention:–

1/ To provide additional two Extinguishers 1 x 20 lbs Dry Powder

2/ To kept locked when not in use

Noted [redacted] 10/1/72

[redacted]

DEPARTMENT OF MINES, INDUSTRY REGULATION AND SAFETY
RELEASED UNDER FOI

Inspection of these premises will be made again in 2 months.

[redacted]

EXPLOSIVES BRANCH 13 JAN 1972 FILE

Date 7/1/72

[redacted]
Inspector of Explosives

81869/7/70–50 PDS–H868

OFFICE COPY

2

[redacted]
36 Riversdale Road,
VICTORIA PARK. W.A. 6100

OFFICIAL RECEIPT as printed by Cash Register

Address of Licensed Premises: 145-7 BURSWOOD ROAD, VICTORIA PARK. W.A. 6100

Licence Expiry Date: 28th Feb'71

File Reference: 1557

Date of Last Inspection:

PARTICULARS OF DRUM DEPOTS AND TANKS

TYPE OF DEPOT	No. of DEPOTS	QUANTITY STORED (GALLONS) CLASS 1	CLASS 2	CLASS 3	TOTAL QTY. ALL CLASSES (Gallons)
DRUM DEPOT A					
DRUM DEPOT B					
DRUM DEPOT C					
UNDERGROUND TANKS	4	4,000			4,000
GROUND LEVEL TANKS					
ELEVATED TANKS					
TOTAL QUANTITY OF ALL LIQUIDS APPROVED UNDER LICENCE					4,000

LICENCE FEE: $5.33

Expired

DEPARTMENT OF MINES, INDUSTRY REGULATION AND SAFETY
RELEASED UNDER FOI

THIS LICENCE IS GRANTED IN ACCORDANCE WITH REG. 147A OF THE FLAMMABLE LIQUIDS REGULATIONS 1967.

THIS LICENCE IS A PROVISIONAL LICENCE IN ACCORDANCE WITH REG. 147B OF THE FLAMMABLE LIQUIDS REGULATIONS 1967.

Renewed

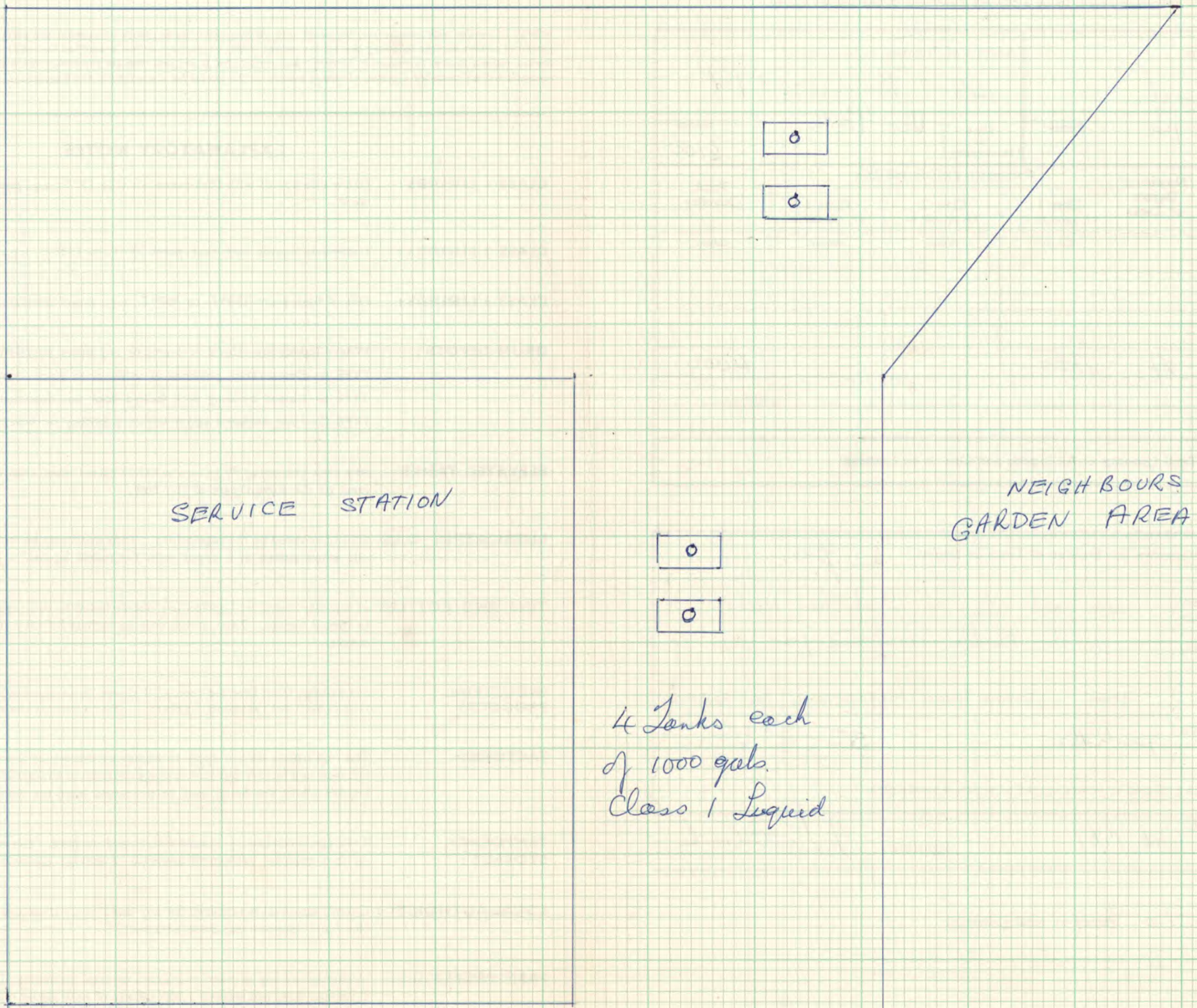
7 APR 1971

DEPARTMENT OF MINES, INDUSTRY
REGULATION AND SAFETY
RELEASED UNDER FOI

PLAN OF PREMISES

NOTE :—It is essential that the plan show the relative position of all Depots and Tanks and also the relative location of the premises to roads, railways, public buildings, dwellings and other works adjoining the boundaries. Please indicate capacity in gallons of each Depot or Tank and whether the liquid is Class 1, Class 2 or Class 3.

PLAN SHOULD BE DRAWN TO SCALE AND DISTANCES SHOWN



EMAIL PETROLEUM SYSTEMS

A DIVISION OF EMAIL LIMITED ACN 000 029 407

QUOTATION NO.: MP542

QUOTATION

DATE: 4/2/97

EFFECTIVE: 30 Days

PAGE NO.: 1 OF 2

FROM OUR OFFICE AT:

2/46 Collingwood Street
OSBORNE PARK WA 6017

TO:

Stan Lauterbach
36 Riversdale Road
RIVERVALE WA 6103

PROPOSAL FOR: **PREMISES: 145 BURSWOOD RD, VICTORIA PARK**

Remove and dispose of 4 X Type 5 underground tanks

PRICE: $5,568.00

SALES TAX: N/a

DELIVERY: On receipt of order

(STANDARD TERMS AND CONDITIONS ON REVERSE SIDE)

We thank you for the opportunity of submitting our proposal.
Yours faithfully,
EMAIL PETROLEUM SYSTEMS

Signed: .....

Bruce West
Estimator/Admin. Co-ordinator

VICTORIA
Unit 1/13 Elliott Road,
Dandenong, 3175
P.O. Box 4087,
Sth Dandenong, 3164
Phone: (03) 9791 6166
Fax: (03) 9792 5047

NEW SOUTH WALES
10 Stoddart Road,
Prospect, 2149
P.O. Box 1020,
Blacktown 2148
Phone: (02) 9896 1388
Fax: (02) 9896 4429

QUEENSLAND
937 Kingsford Smith Drive,
Eagle Farm
P.O. Box 1125
Eagle Farm, 4009
Phone: (07) 3868 1980
Fax: (07) 3868 1525

SOUTH AUSTRALIA
5 Moss Road,
Dry Creek
P.O. Box 80
Dry Creek, 5094
Phone: (08) 8349 7622
Fax: (08) 8349 7552

WESTERN AUSTRALIA
Unit 2/46 Collingwood Street,
Osborne Park, 6017
Phone: (09) 446 6133
Fax: (09) 446 6394

EMAIL PETROLEUM SYSTEMS

STANDARD TERMS & CONDITIONS OF SALE

1. **GENERAL**
   (a) DEFINITIONS
   "Company" means Email Petroleum Systems; a division of Email Limited which is submitting this quotation.
   "Contract" means the Agreement herein between the Company and the Customer.
   "Customer" means the person, firm or corporation to whom the quotation is addressed.
   "Terms & Conditions" means the terms and conditions hereof.
   "Quotation" means the quotation herein.
   (b) TERMS & CONDITONS
   The Terms & Conditions (subject only to amendments thereto in writing by the Company) and the law of the place where this Quotation is issued by the Company shall exclusively govern this Quotation and any Contract between the Company and the Customer which shall arise. The placing of an order by the Customer based upon this Quotation shall constitute acceptance by the Customer of such provisions, and agreement that the same shall supersede and prevail over all terms and conditions which may be contained in any order or in any correspondence or otherwise. These conditions of sale also apply to the sale of items and equipment included in the current issue of the Company's price list.

2. **TERMS**
   Strictly 30 days. Payment for all equipment and services provided by the Company to the Customer must be made within 30 days from the date of the invoice. When payment is not made within that period interest at the rate of 1.5% per month, from the initial date of the invoice, will be payable at a daily rate until payment is made. However, nothing herein contained shall be interpreted as an indulgence to the Customer to effect payment after the due date.

3. **VALIDITY**
   The Quotation is valid for a period of 30 days from the date hereon, unless otherwise stated or unless it is previously withdrawn by the Company.

4. **CANCELLATION OR VARIATION**
   This Contract may, at the Company's option, be terminated in the event of the insolvency of the Customer. The Customer may cancel its order only with the Company's written consent, and upon payment of reasonable and appropriate cancellation charges to be determined by the Company. An order may be varied only if such variations are accepted by the Company in writing.

5. **PRICES**
   All prices are subject to change without notice and all orders are accepted by the Company on the condition that they will be invoiced at the prices ruling at the date of despatch. All prices are strictly net (including prices for Imported equipment) unless otherwise stated in writing. Those prices shown in lists or catalogues, which may be recommended selling prices, provide no obligation upon the part of the Customer to abide by those list prices. For imported equipment, prices quoted are in local currency and are based upon the exchange rates existing at the date of Quotation or upon a specific exchange rate as listed within this Quotation. A specific exchange rate listed in the Quotation will take precedence. Any changes in this exchange rate, between time of Quotation and time of shipment, may be to Customer's account at the option of the Company. The Company reserves the right to correct all typographical and clerical errors which may be present in the prices or specifications of this Quotation. On any imported content in the quotation, costs for freight, insurance, agency fees, wharfage and storage charges and Customs Duty, have been allowed in accordance with the rates and methods of assessment in force at the date of quotation and if any variation shall occur after that date then it may be included in the final price to the customer at the option of the Company.

6. **SALES TAX**
   The prices quoted in this Quotation are exclusive of sales tax unless specifically stated otherwise.

7. **WARRANTY AND LIMITATION OF LIABILITY**
   (a) Equipment manufactured by the Company with the exception of Petroleum related equipment, is warranted to be free from defects in material and workmanship which may develop within one year after delivery of the goods to the original buyer with the exception of Petroleum related equipment. Petroleum equipment manufactured by the company is covered under the Email Equipment Warranty EPE-1 document, a copy of which is provided with the equipment and is also available upon demand. Where the equipment provided by the Company is not of a kind ordinarily acquired for personal, domestic or household use or consumption then the liability of the Company for a breach of condition or warranty implied by the Trade Practices Act 1974 (other than the condition or warranty implied by Section 69) shall be limited to the repair of the goods, provided that such equipment is returned to the place nominated by the Company, or at the Company's option the replacement of the goods or the supply of equivalent goods.
   (b) For equipment not manufactured by the Company then the original manufacturers warranty will be offered by the Company to the purchaser. The Company's liability for such equipment shall not exceed the liability provided in Clause 7(a).
   (c) In no event shall the Company be liable for any direct/indirect, special or consequential damages such as, but not limited to, economic loss how so ever caused.

8. **GOODS RETURNED FOR CREDIT**
   Goods will be accepted from the Customer for credit only by prior written agreement by the Company, or to the extent that they have been wrongly or over supplied. Returned goods shall be delivered to the Company free of charge, in good order and condition, unused and in the original packaging accompanied by a despatch note stating the original invoice number, date of supply, and the reason for return. Except where the goods have been wrongly or over supplied, the Company will determine a charge to be applied to the Customer for the purpose of covering handling and restocking costs. Goods made to special order by the Company cannot be returned nor credited unless they do not meet the specifications, or otherwise not in accordance with the specific terms of the Contract.

9. **SHIPMENTS AND DELIVERY**
   Delivery of the equipment shall be FOB from the Company's main point of supply. Delivery dates are approximate and are based upon the prompt receipt of all necessary information by the Company to ensure uninterrupted manufacture. Extra costs as determined by the Company owing to delay in starting the work or suspension of the work due to Customers delays, overtime, mistakes or other causes for which the Company is not responsible, or through additional work entailed in taking down and refixing equipment to suit Customers changed requirements, shall be chargeable to the Customer. The Company shall not be liable for delay of delivery and failure to manufacture due to any causes whatsoever beyond its control. Partial shipments may be made and invoiced upon completion of manufacture. If delivery is delayed at the request of the Customer, equipment may be stored subject to payment of an extra charge based upon storage costs and the Company will invoice the full value of the equipment stored. The risk of loss or damage to equipment shall pass from the Company to the Customer upon delivery by the Company to the carrier at the point of supply, unless storage of the equipment has been requested in which case the risk passes at the start of the storage period, and any claims for loss or damage after risk of loss has passed to the Customer shall not be the responsibility of the Company. Title to the goods does not pass to the Customer until payment in full has been made to the Company. The Company assumes no liability for loss, damage or consequential damages due to delays.

10. **INSPECTION**
    Where inspection by the Customer or other persons is required, this must be arranged by the Customer with the Company. Special witness tests are extras chargeable as determined by the Company.

11. **INJURY AND DAMAGE**
    The Customer shall indemnify the Company against all claims whether made under Contract or statute or under common law, in respect to any loss or damage to any property whatsoever or injury to any person whatsoever arising out of any defect in material or workmanship of equipment manufactured and/or sold by the Company or for any default or negligence on the part of the Company's personnel in connection with or during the carrying out of any work by the Company on the Customer's or any other person's property.

12. **INSTALLATION AND COMMISSIONING**
    All equipment shall be installed and commissioned by and at the expense of the Customer unless agreed to in writing or otherwise stated herein.

13. **PROPERTY AND TITLE**
    Notwithstanding that the goods shall in whole or in part be at the risk of the Customer the property in the goods shall remain with the Company until they have been paid for by the purchaser. In the case of the Customer being declared insolvent, the Company may enter the premises of the Customer and remove any goods supplied by the Company for which payment has not been made in full. In accordance with Clause 9, carriage of goods is the responsibility and obligation of the Customer, even though title may not have passed from the Company.

14. **RE-EXPORT OF U.S.A. SOURCED PRODUCTS**
    The re-export by the Customer in any form, of some products imported from the USA by the Company may constitute a violation of United States export license laws under which these items are obtained. Violation would result in subsequent denial of further products and the local office of the USA Department of Commerce should be contacted to determine to which countries such goods may be sent.

15. **ESCALATION**
    Prices quoted are based on material and equipment costs, wages as determined by appropriate National Awards rates and conditions, and material charges based upon C.P.I., operating at date of quotation, and any variation in cost due to any alteration in these factors which may occur from the quotation acceptance until the completion of the contract will be to the Customers Account.

16. **FORCE MAJEURE**
    All quotations, offers and contracts are subject to the express condition that the Company will not be in anyway responsible for loss, damage, or delays arising from strikes, lock-outs, cessation of labour, fire, transport delays, shortened hours of labour, accidents of any kind, perils of the sea or rivers, war or the like, acts of God, non-delivery of material or parts by other manufacturers, or any other cause or contingency whatsoever beyond the control of the Company, whether "ejusdem generis" with the preceding causes or not.

17. **EXCLUSIONS**
    All conversations, representations, and statements, not embodied in this quotation, or not confirmed in writing by the Company are expressly excluded, and shall not be deemed to be part of the quotation, or to have induced the order, or to have any legal affect whatsoever.

EMAIL PETROLEUM SYSTEMS

A DIVISION OF EMAIL LIMITED ACN 000 029 407

CUSTOMER: STAN LAUTERBACH	PAGE 2 OF 2	DATE: 4.2.97
	QUOTATION NO.: MP542	

ITEM NO.	QTY.	DESCRIPTION	UNIT PRICE	TOTAL PRICE
1		REMOVE BITUMEN SURFACE, EXPOSE TANKS		$1,562.00
2		REMOVE TANKS AND TRANSPORT OFF SITE FOR DISPOSAL. BACKFILL WITH CLEAN SAND 150 MM ROADBASE TO FINISHED LEVEL. COMPACT AREAS		$2,756.00
3		TANK DISPOSAL		$1,250.00
		TOTAL:		$5,568.00

EXCLUSIONS:

NO ALLOWANCE FOR REMOVAL AND DISPOSAL
OF CONTAMINATED WATER FROM TANKS IF REQUIRED.
DAMAGE TO UNFORSEEN SERVICES.

NOTE!

WE HAVE ENCLOSED A CREDIT APPLICATION,
TO BE COMPLETED AND SUBMITTED PRIOR
TO COMMENCEMENT OF WORKS.

ADDENDUM TO TERMS & CONDITIONS OF SALE

DISCLOSURES UNDER THE PRIVACY ACT 1988

Clause 18: I/We acknowledge that Email Petroleum Systems, a member of the Email Limited Group of Companies on its own behalf and on behalf of the Email Limited Group of Companies has informed me/us, in accordance with Section 18E (8) (c) of the privacy act of 1988, that certain items of personal information about me/us contained in this application and permitted to be kept on a credit information file might be disclosed to a credit reporting agency. In making this application I/we agree, in accordance with provisions of paragraph b, paragraph e, and h of Section 18K (1) and or Section 18L (4) of the privacy act that disclosure by a credit reporting agency and/or use by Email Petroleum Systems or any member of the Email Limited Group of Companies of the relevant information referred to in those sections may occur for the purpose of assessing this application and I/we acknowledge that on our own behalf and on behalf of any person referred to in this application that this agreement shall continue to have effect for the duration of the loan contract should my/our application be approved.

Directors Signature/s: .....

.....
(Print name in full)

Dated: .....

EMAIL ELECTRONICS

STANDARD TERMS & CONDITIONS OF SALE

1. **GENERAL**

(a) DEFINITIONS

"Company" means Email Electronics, a division of Email Limited which is submitting this quotation

"Contract" means the Agreement herein between the Company and the Customer.

"Customer" means the person, firm or corporation to whom the quotation is addressed.

"Terms & Conditions" means the terms and conditions hereof.

"Quotation" means the quotation herein.

(b) TERMS & CONDITONS

The Terms & Conditions (subject only to amendments thereto in writing by the Company) and the law of the place where this Quotation is issued by the Company shall exclusively govern this Quotation and any Contract between the Company and the Customer which shall arise. The placing of an order by the Customer based upon this Quotation shall constitute acceptance by the Customer of such provisions, and agreement that the same shall supersede and prevail over all terms and conditions which may be contained in any order or in any correspondence or otherwise. These conditions of sale also apply to the sale of items and equipment included in the current issue of the Company's price list.

2. **TERMS**

Strictly 30 days. Payment for all equipment and services provided by the Company to the Customer must be made within 30 days from the date of the invoice. When payment is not made within that period interest at the rate of 1.5% per month, from the initial date of the invoice, will be payable at a daily rate until payment is made. However, nothing herein contained shall be interpreted as an indulgence to the Customer to effect payment after the due date.

3. **VALIDITY**

The Quotation is valid for a period of 30 days from the date hereon, unless otherwise stated or unless it is previously withdrawn by the Company.

4. **CANCELLATION OR VARIATION**

This Contract may, at the Company's option, be terminated in the event of the insolvency of the Customer. The Customer may cancel its order only with the Company's written consent, and upon payment of reasonable and appropriate cancellation charges to be determined by the Company. An order may be varied only if such variations are accepted by the Company in writing.

5. **PRICES**

All prices are subject to change without notice and all orders are accepted by the Company on the condition that they will be invoiced at the prices ruling at the date of despatch. All prices are strictly net (including prices for Imported equipment) unless otherwise stated in writing. Those prices shown in lists or catalogues, which may be recommended selling prices, provide no obligation upon the part of the Customer to abide by those list prices. For imported equipment, prices quoted are in local currency and are based upon the exchange rates existing at the date of Quotation or upon a specific exchange rate as listed within this Quotation. A specific exchange rate listed in the Quotation will take precedence. Any changes in this exchange rate, between time of Quotation and time of shipment, may be to Customer's account at the option of the Company. The Company reserves the right to correct all typographical and clerical errors which may be present in the prices or specifications of this Quotation. On any imported content in the quotation, costs for freight, insurance, agency fees, wharfage and storage charges and Customs Duty, have been allowed in accordance with the rates and methods of assessment in force at the date of quotation and if any variation shall occur after that date then it may be included in the final price to the customer at the option of the Company.

6. **SALES TAX**

The prices quoted in this Quotation are exclusive of sales tax unless specifically stated otherwise.

7. **WARRANTY AND LIMITATION OF LIABILITY**

(a) Equipment manufactured by the Company with the exception of Petroleum related equipment, is warranted to be free from defects in material and workmanship which may develop within one year after delivery of the goods to the original buyer with the exception of Petroleum related equipment. Petroleum equipment manufactured by the company is covered under the Email Equipment Warranty EPE-1 document, a copy of which is provided with the equipment and is also available upon demand. Where the equipment provided by the Company is not of a kind ordinarily acquired for personal, domestic or household use or consumption then the liability of the Company for a breach of condition or warranty implied by the Trade Practices Act 1974 (other than the condition or warranty implied by Section 69) shall be limited to the repair of the goods, provided that such equipment is returned to the place nominated by the Company, or at the Company's option the replacement of the goods or the supply of equivalent goods.

(b) For equipment not manufactured by the Company then the original manufacturers warranty will be offered by the Company to the purchaser. The Company's liability for such equipment shall not exceed the liability provided in Clause 7(a).

(c) In no event shall the Company be liable for any direct/indirect, special or consequential damages such as, but not limited to, economic loss how so ever caused.

8. **GOODS RETURNED FOR CREDIT**

Goods will be accepted from the Customer for credit only by prior written agreement by the Company, or to the extent that they have been wrongly or over supplied. Returned goods shall be delivered to the Company free of charge, in good order and condition, unused and in the original packaging accompanied by a despatch note stating the original invoice number, date of supply, and the reason for return Except where the goods have been wrongly or over supplied, the Company will determine a charge to be applied to the Customer for the purpose of covering handling and restocking costs. Goods made to special order by the Company cannot be returned nor credited unless they do not meet the specifications, or otherwise not in accordance with the specific terms of the Contract.

9. **SHIPMENTS AND DELIVERY**

Delivery of the equipment shall be FOB from the Company's main point of supply. Delivery dates are approximate and are based upon the prompt receipt of all necessary information by the Company to ensure uninterrupted manufacture. Extra costs as determined by the Company owing to delay in starting the work or suspension of the work due to Customers delays, overtime, mistakes or other causes for which the Company is not responsible, or through additional work entailed in taking down and refixing equipment to suit Customers changed requirements, shall be chargeable to the Customer. The Company shall not be liable for delay of delivery and failure to manufacture due to any causes whatsoever beyond its control. Partial shipments may be made and invoiced upon completion of manufacture. If delivery is delayed at the request of the Customer, equipment may be stored subject to payment of an extra charge based upon storage costs and the Company will invoice the full value of the equipment stored. The risk of loss or damage to equipment shall pass from the Company to the Customer upon delivery by the Company to the carrier at the point of supply, unless storage of the equipment has been requested in which case the risk passes at the start of the storage period, and any claims for loss or damage after risk of loss has passed to the Customer shall not be the responsibility of the Company. Title to the goods does not pass to the Customer until payment in full has been made to the Company. The Company assumes no liability for loss, damage or consequential damages due to delays.

10. **INSPECTION**

Where inspection by the Customer or other persons is required, this must be arranged by the Customer with the Company. Special witness tests are extras chargeable as determined by the Company.

11. **INJURY AND DAMAGE**

The Customer shall indemnify the Company against all claims whether made under Contract or statute or under common law, in respect to any loss or damage to any property whatsoever or injury to any person whatsoever arising out of any defect in material or workmanship of equipment manufactured and/or sold by the Company or for any default or negligence on the part of the Company's personnel in connection with or during the carrying out of any work by the Company on the Customer's or any other person's property.

12. **INSTALLATION AND COMMISSIONING**

All equipment shall be installed and commissioned by and at the expense of the Customer unless agreed to in writing or otherwise stated herein.

13. **PROPERTY AND TITLE**

Notwithstanding that the goods shall in whole or in part be at the risk of the Customer the property in the goods shall remain with the Company until they have been paid for by the purchaser. In the case of the Customer being declared insolvent, the Company may enter the premises of the Customer and remove any goods supplied by the Company for which payment has not been made in full. In accordance with Clause 9, carriage of goods is the responsibility and obligation of the Customer, even though title may not have passed from the Company.

14. **RE-EXPORT OF U.S.A. SOURCED PRODUCTS**

The re-export by the Customer in any form, of some products imported from the USA by the Company may constitute a violation of United States export license laws under which these items are obtained. Violation would result in subsequent denial of further products and the local office of the USA Department of Commerce should be contacted to determine to which countries such goods may be sent.

15. **ESCALATION**

Prices quoted are based on material and equipment costs, wages as determined by appropriate National Awards rates and conditions, and material charges based upon C.P.I., operating at date of quotation, and any variation in cost due to any alteration in these factors which may occur from the quotation acceptance until the completion of the contract will be to the Customers Account.

16. **FORCE MAJEURE**

All quotations, offers and contracts are subject to the express condition that the Company will not be in anyway responsible for loss, damage, or delays arising from strikes, lock-outs, cessation of labour, fire, transport delays, shortened hours of labour, accidents of any kind, perils of the sea or rivers, war or the like, acts of God, non-delivery of material or parts by other manufacturers, or any other cause or contingency whatsoever beyond the control of the Company, whether "ejusdem generis" with the preceding causes or not.

17. **EXCLUSIONS**

All conversations, representations, and statements, not embodied in this quotation, or not confirmed in writing by the Company are expressly excluded, and shall not be deemed to be part of the quotation, or to have induced the order, or to have any legal affect whatsoever.

EMAIL PETROLEUM SYSTEMS

A DIVISION OF EMAIL LIMITED A.C.N. 000 029 407

INVOICE

Invoice Number 150230-1

HEAD OFFICE: 88-94 Canterbury Road Kilsyth
REMIT TO:
P.O. Box 154 Mooroolbark Victoria 3138 Australia
Telephone (03) 9728 1888 Fax (03) 9728 7420

GoodsSuppliedFrom: WA SERVICE
UNIT 2/46 COLLINGWOOD ST
OSBORNE PARK
WA 6017
CONTACT: (09)446-6133

Invoice Date 30-04-97
Cust. Order No. S. LAUTERBACH
Sales Tax No.
Del. Dkt. 150230

Cust. Code: 14988

INVOICE ADDRESS

STANLEY A LAUTERBACH
36 RIVERSDALE ROAD
RIVERVALE, WA 6103

SHIP TO ADDRESS

145 BURSWOOD RD
VICTORIA PARK

ITEM NO.	PRODUCT CODE	DESCRIPTION	QTY. ORD.	QTY. SUP.	QTY. B/O	UM	S/T %	UNIT PRICE		EXTENDED PRICE
1		REMOVE AND DISPOSE OF 4 TYPE 5 UNDERGROUND STORAGE TANKS. AS PER QUOTE MP542	1	1	0	EA	0.0	5568.00	0.0	5568.00
2		EXTRA COSTS: REMOVAL OF WOODEN BOARDS OVER TANKS AND DISPOSED OF AT TIP.	1	1	0	EA	0.0	128.00	0.0	128.00

Special Instructions:

PQ1226

Payment Terms:

Sub-Total $	5696.00
Freight $	0.00
TOTAL PAYABLE $	5696.00

EMAIL PETROLEUM SYSTEMS

STANDARD TERMS & CONDITIONS OF SALE

1. **GENERAL**

(a) DEFINITIONS

"Company" means Email Petroleum Systems, a division of Email Limited which is submitting this quotation.
"Contract" means the Agreement herein between the Company and the Customer.
"Customer" means the person, firm or corporation to whom the quotation is addressed.
"Terms & Conditions" means the terms and conditions hereof.
"Quotation" means the quotation herein.

(b) TERMS & CONDITIONS

The Terms & Conditions (subject only to amendments thereto in writing by the Company) and the law of the place where this Quotation is issued by the Company shall exclusively govern this Quotation and any Contract between the Company and the Customer which shall arise. The placing of an order by the Customer based upon this Quotation shall constitute acceptance by the Customer of such provisions, and agreement that the same shall supersede and prevail over all terms and conditions which may be contained in any order or in any correspondence or otherwise. These conditions of sale also apply to the sale of items and equipment included in the current issue of the Company's price list.

2. **TERMS**

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The re-export by the Customer in any form, of some products imported from the USA by the Company may constitute a violation of United States export license laws under which these items are obtained. Violation would result in subsequent denial of further products and the local office of the USA Department of Commerce should be contacted to determine to which countries such goods may be sent.

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Prices quoted are based on material and equipment costs, wages as determined by appropriate National Awards rates and conditions, and material charges based upon C.P.I., operating at date of quotation, and any variation in cost due to any alteration in these factors which may occur from the quotation acceptance until the completion of the contract will be to the Customers Account.

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17. **EXCLUSIONS**

All conversations, representations, and statements, not embodied in this quotation, or not confirmed in writing by the Company are expressly excluded, and shall not be deemed to be part of the quotation, or to have induced the order, or to have any legal effect whatsoever.

18. **LAPSE OF CREDIT FACILITY**

A lapse in purchasing against your credit facility for a period greater than 12 months will result in a lapse of credit approval.

EMAIL PETROLEUM SYSTEMS

A DIVISION OF EMAIL LIMITED A.C.N. 000 029 407

STATEMENT

REMIT TO:
Email Petroleum Systems
P.O. Box 154
Mooroolbark Vic 3138

CUSTOMER
14988

STANLEY A LAUTERBACH
36 RIVERSDALE ROAD
RIVERVALE, WA 6103

Page 1

30-04-97
PERIOD ENDED

Transaction Date	Code	Ref. No.	Debit $	Credit $	Balance $
30-04-97	INVCE	150230-1	5,696.00		5,696.00

Balance Due $5,696.00

CURRENT	1 MONTH	2 MONTHS	3 MONTHS	OVER 3 MOS.
5,696.00				

CODE: DISPUTED ITEMS are recorded with * prefix next to invoice number
CHGBCK — Deduction / Claim
ONACCT — Unapplied cash / Overpayment
PMT — Cash Receipt, Identified by your Cheque number
DBADJ — Journal Transfer

Account Queries
Phone (03) 9728 1888
Fax # (03) 9728 7420

SETTLEMENT 30 DAYS NET

432237 Iss 2

Page 1

Balance Date 30-04-97

Customer: 14988
STANLEY A LAUTERBACH

Transaction Date	Ref. No.	
30-04-97	150230-1	5,696.00

Balance Due $5,696.00

REMIT TO:
Email Petroleum Systems
P.O. Box 154 Mooroolbark Vic 3138
Account Queries:
Telephone (03) 9728 1888 Fax (03) 9728 7420

EMAIL PETROLEUM SYSTEMS

A DIVISION OF EMAIL LTD A.C.N. 000 029 407
RETAIL
HEAD OFFICE: 13 Elliott Road,
DANDENONG, VICTORIA 3175
AUSTRALIA

Postal Address: P.O. Box 4087
DANDENONG STH. VIC 3164
AUSTRALIA

Tel: (03) 9791 6166
Fax: (03) 9791 9328

1 April, 1997

Stanley A. Lauterbach
36 Riversdale Rd
Rivervale WA 6103

Dear ,

I am pleased to advise that your application for a credit facility has been approved.

Your Account Number is: 14988
Your Credit Limit is: $$6,000

Let me take this opportunity to remind you that our trading terms are STRICTLY 30 DAYS FROM INVOICE DATE.

Thank you for your application, we look forward to servicing your needs. Would you kindly ensure that our payment address is set up as:

PO BOX 154
MOOROOLBARK VIC 3138

Please do not hesitate to contact me should you have any queries on this account, my direct phone number is (03) 9728 7498.

Yours faithfully,

Katrina

Katrina Rykers
CREDIT OFFICER

cc: M. Ekert

VICTORIA
Unit 1/13 Elliott Road
Dandenong, 3175
P.O. Box 4087
Sth Dandenong, 3164
Phone: (03) 9791 6166
Fax: (03) 9792 5047

NEW SOUTH WALES
10 Stoddart Road,
Prospect, 2149
P.O. Box 1020
Blacktown, 2148
Phone: (02) 9896 1388
Fax: (02) 9896 4429

QUEENSLAND
937 Kingsford Smith Drive,
Eagle Farm
P.O. Box 1125
Eagle Farm, 4009
Phone: (07) 3868 1980
Fax: (07) 3868 1525

SOUTH AUSTRALIA
5 Moss Road,
Dry Creek
P.O. Box 80
Dry Creek, 5094
Phone: (08) 8349 7622
Fax: (08) 8349 7552

WESTERN AUSTRALIA
Unit 2/46 Collingwood Street,
Osborne Park, 6017
Phone: (09) 446 6133
Fax: (09) 446 6394

EMAIL PETROLEUM SYSTEMS

A DIVISION OF EMAIL LIMITED A.C.N. 000 029 407

STATEMENT

REMIT TO:
Email Petroleum Systems
P.O. Box 154
Mooroolbark Vic 3138

CUSTOMER
14988

STANLEY A LAUTERBACH
36 RIVERSDALE ROAD
RIVERVALE, WA 6103

30-06-97
PERIOD ENDED

Transaction Date	Code	Ref. No.	Debit $	Credit $	Balance $
30-04-97	INVCE	* 150230-1	5,696.00		5,696.00

Balance Due $5,696.00

CURRENT	1 MONTH	2 MONTHS	3 MONTHS	OVER 3 MOS.
		5,696.00		

CODE: DISPUTED ITEMS are recorded with * prefix next to invoice number
CHGBCK — Deduction / Claim
ONACCT — Unapplied cash / Overpayment
PMT — Cash Receipt, Identified by your Cheque number
DBADJ — Journal Transfer

Account Queries
Phone (03) 9728 1888
Fax # (03) 9728 7420

SETTLEMENT 30 DAYS NET

32237 Iss 2

EMAIL PETROLEUM SYSTEMS

A DIVISION OF EMAIL LIMITED A.C.N. 000 029 407

STATEMENT

REMIT TO:
Email Petroleum Systems
P.O. Box 1
Hallam Vic 3803

CUSTOMER 14988

STANLEY A LAUTERBACH
36 RIVERSDALE ROAD
RIVERVALE, WA 6103

Page 1

31-10-97
PERIOD ENDED

Transaction Date	Code	Ref. No.	Debit $	Credit $	Balance $
30-04-97	INVCE	150230-1	5,696.00		
30-10-97	*PMT*	Ck#OFFSET		5,568.00	128.00
30-10-97	ONACCT	P38046		5,568.00	
30-10-97	PMTADJ	Ck#OFFSET		-5,568.00	0.00

Balance Due $128.00

CURRENT	1 MONTH	2 MONTHS	3 MONTHS	OVER 3 MOS.
				128.00

CODE: DISPUTED ITEMS are recorded with * prefix next to invoice number
CHGBCK — Deduction / Claim
ONACCT — Unapplied cash / Overpayment
PMT — Cash Receipt, Identified by your Cheque number
DBADJ — Journal Transfer

Account Queries
Phone (03) 9728 1888
Fax # (03) 9728 7420

SETTLEMENT 30 DAYS NET

432237 Iss 2

9222
3333

Page 1

Balance Date 31-10-97

Customer: 14988
STANLEY A LAUTERBACH

Transaction Date	Ref. No.	
30-04-97	150230-1	128.00
30-10-97	P38046	0.00

Balance Due $128.00

REMIT TO:
Email Petroleum Systems
P.O. Box 1 Hallam Vic 3803
Account Queries:
Telephone (03) 9554 0800 Fax (03) 9554 0801

EMAIL PETROLEUM SYSTEMS

A DIVISION OF EMAIL LIMITED A.C.N. 000 029 407

STATEMENT

REMIT TO:
Email Petroleum Systems
P.O. Box 1
Hallam Vic 3803

CUSTOMER
14983

STANLEY A LAUTERBACH
36 RIVERSDALE ROAD
RIVERVALE WA 6103

31-08-97
PERIOD ENDED

Transaction Date	Code	Ref. No.	Debit $	Credit $	Balance $
30-04-97	INVCE	* 150230-1	5,696.00		5,696.00

Paid $5568.
21/10/97 Posted
letter we have not overlooked
18/9/97 of
waiting for completion

Balance Due $5,696.00

CURRENT	1 MONTH	2 MONTHS	3 MONTHS	OVER 3 MOS.
				5,696.00

CODE: DISPUTED ITEMS are recorded with * prefix next to invoice number
CHGBCK — Deduction / Claim
ONACCT — Unapplied cash / Overpayment
PMT — Cash Receipt, Identified by your Cheque number

Account Queries
Phone (03) 9728 1888
Fax # (03) 9728 7420

SETTLEMENT 30 DAYS NET

EMAIL PETROLEUM SYSTEMS

A DIVISION OF EMAIL LIMITED A.C.N. 000 029 407

STATEMENT

REMIT TO:
Email Petroleum Systems
P.O. Box 154
Mooroolbark Vic 3138

CUSTOMER
14988

STANLEY A LAUTERBACH
36 RIVERSDALE ROAD
RIVERVALE, WA 6103

Page 1

31-05-97
PERIOD ENDED

nsaction Date	Code	Ref. No.	Debit $	Credit $	Balance $
)-04-97	INVCE	150230-1	5,696.00		5,696.00

Balance Due $5,696.00

CURRENT	1 MONTH	2 MONTHS	3 MONTHS	OVER 3 MOS.
	5,696.00			

: DISPUTED ITEMS are recorded with * prefix next to invoice number
CHGBCK — Deduction / Claim
ONACCT — Unapplied cash / Overpayment
PMT — Cash Receipt, Identified by your Cheque number
DBADJ — Journal Transfer

2

Account Queries
Phone (03) 9728 1888
Fax # (03) 9728 7420

SETTLEMENT 30 DAYS NET

Remove Petrol tanks & pumps at Garage.

405 Date 23rd Oct 1998

To Emarl Petroleum Services

Balance B/Fwd

Deposits Garage

ATM & Other Withdrawals Tanks Station

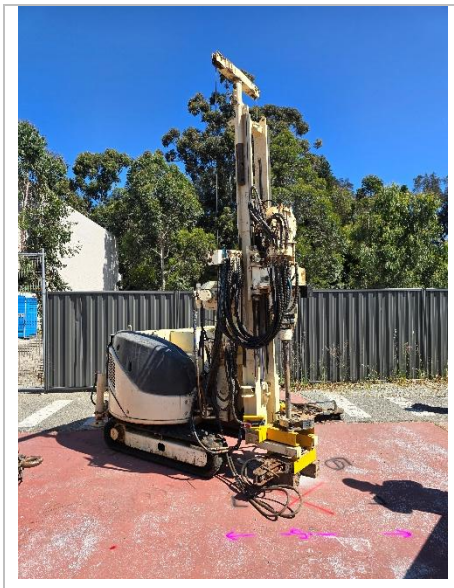
Sub-total

This Cheque 5568.00

Balance C/Fwd

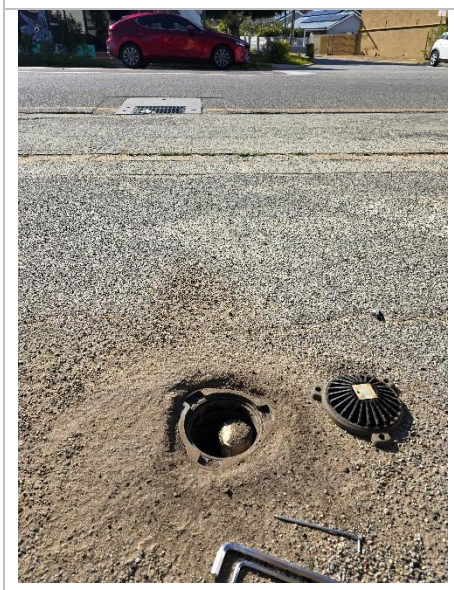
000325

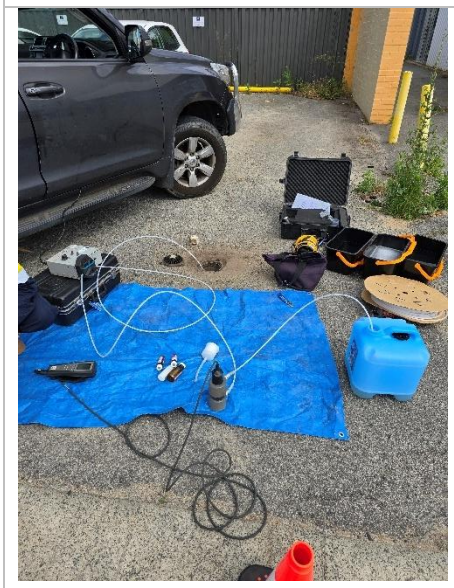
APPENDIX G
Photographs

	
DRILLING ACTIVITIES	SOIL BORE S10
SOIL BORE S11	SOIL BORE S12

SOIL BORE S13	SOIL BORE S14
SOIL BORE S15	SOIL BORE S16

SOIL BORE S17	SOIL BORE S17
SOIL BORE S18	SOIL BORE S19

SOIL BORE S20	DRILLING ACTIVITIES
	
MW1	MW2

MW4	MW3
	
GW SAMPLING ACTIVITIES	GW SAMPLING ACTIVITIES

APPENDIX H
NEPM Results

Inputs
Select contaminant from list below
As
Below needed to calculate fresh and aged ACLs
Below needed to calculate fresh and aged ABCs
or for fresh ABCs only
or for aged ABCs only

Outputs		
Land use	Arsenic generic EILs (mg contaminant/kg dry soil)	
	Fresh	Aged
National parks and areas of high conservation value	20	40
Urban residential and open public spaces	50	100
Commercial and industrial	80	160

Inputs
Select contaminant from list below
Naphthalene
Below needed to calculate fresh and aged ACLs
Below needed to calculate fresh and aged ABCs
or for fresh ABCs only
or for aged ABCs only

Outputs		
Land use	Naphthalene generic EILs (mg contaminant/kg dry soil)	
	Fresh	Aged
National parks and areas of high conservation value	10	10
Urban residential and open public spaces	170	170
Commercial and industrial	370	370

Inputs
Select contaminant from list below
Pb
Below needed to calculate fresh and aged ACLs
Below needed to calculate fresh and aged ABCs
or for fresh ABCs only
or for aged ABCs only

Outputs		
Land use	Lead generic EILs (mg contaminant/kg dry soil)	
	Fresh	Aged
National parks and areas of high conservation value	110	470
Urban residential and open public spaces	270	1100
Commercial and industrial	440	1800

Inputs
Select contaminant from list below
Cu
Below needed to calculate fresh and aged ACLs
Enter cation exchange capacity (silver thiourea method) (values from 0 to 100 cmolc/kg dwt)
0.2
Enter soil pH (calcium chloride method) (values from 1 to 14)
8.6
Enter organic carbon content (%OC) (values from 0 to 50%)
1
Below needed to calculate fresh and aged ABCs
Measured background concentration (mg/kg). Leave blank if no measured value
17
or for fresh ABCs only
Enter iron content (aqua regia method) (values from 0 to 50%) to obtain estimate of background concentration
0
or for aged ABCs only
Enter State (or closest State)
SA
Enter traffic volume (high or low)
low

Outputs		
Land use	Cu soil-specific EILs (mg contaminant/kg dry soil)	
	Fresh	Aged
National parks and areas of high conservation value	20	20
Urban residential and open public spaces	20	20
Commercial and industrial	20	20

Inputs
Select contaminant from list below
Ni
Below needed to calculate fresh and aged ACLs
Enter cation exchange capacity (silver thiourea method) (values from 0 to 100 cmolc/kg dwt)
0.2
Below needed to calculate fresh and aged ABCs
Measured background concentration (mg/kg). Leave blank if no measured value
2
or for fresh ABCs only
Enter iron content (aqua regia method) (values from 0 to 50%) to obtain estimate of background concentration
0
or for aged ABCs only
Enter State (or closest State)
SA
Enter traffic volume (high or low)
low

Outputs		
Land use	Ni soil-specific EILs (mg contaminant/kg dry soil)	
	Fresh	Aged
National parks and areas of high conservation value	2	2
Urban residential and open public spaces	2	2
Commercial and industrial	2	2

Inputs
Select contaminant from list below
Cr_III
Below needed to calculate fresh and aged ACLs
Enter % clay (values from 0 to 100%)
5
Below needed to calculate fresh and aged ABCs
Measured background concentration (mg/kg). Leave blank if no measured value
5
or for fresh ABCs only
Enter iron content (aqua regia method) (values from 0 to 50%) to obtain estimate of background concentration
0
or for aged ABCs only
Enter State (or closest State)
SA
Enter traffic volume (high or low)
low

Outputs		
Land use	Cr III soil-specific EILs (mg contaminant/kg dry soil)	
	Fresh	Aged
National parks and areas of high conservation value	45	110
Urban residential and open public spaces	130	320
Commercial and industrial	220	530

Inputs
Select contaminant from list below
Zn
Below needed to calculate fresh and aged ACLs
Enter cation exchange capacity (silver thiourea method) (values from 0 to 100 cmolc/kg dwt)
0.2
Enter soil pH (calcium chloride method) (values from 1 to 14)
8.6
Below needed to calculate fresh and aged ABCs
Measured background concentration (mg/kg). Leave blank if no measured value
80
or for fresh ABCs only
Enter iron content (aqua regia method) (values from 0 to 50%) to obtain estimate of background concentration
0
or for aged ABCs only
Enter State (or closest State)
SA
Enter traffic volume (high or low)
low

Outputs		
Land use	Zn soil-specific EILs (mg contaminant/kg dry soil)	
	Fresh	Aged
National parks and areas of high conservation value	80	85
Urban residential and open public spaces	85	100
Commercial and industrial	90	110

APPENDIX I
Calibration Certificates

ECO Environmental | Environment monitoring solutions

Head Office Perth
Tel: +61 8 9328 2900
eco@ecoenvironmental.com.au
www.ecoenvironmental.com.au

EQUIPMENT INFORMATION

Instrument: MR30005-K

Serial Number: 592-906076

Equipment Check	Enclosed	Comment
MiniRae PID Pump	☑	
Protective Boot	☑	
Charger / Alkaline Battery Pack	☑	
Rae Software	☐	No Software
USB Download Cable	☑	
Instrument Manual	☑	
Water Trap Filter (x2)	☑	1 x packed and 1x unpacked
Carry Case	☑	
2 x Humidity Filters & 1 x Tube Adaptor	☑	

Sensor Calibration Details	Pass	Comment
Lamp 10.6eV – Fresh Air Cal	☑	
Lamp 10.6eV – Isobutylene Gas 100ppm	☑	Lot 213353 /Cyl WO341086-24

Alarm Limits	
Alarm – Audible/ Visual	☑
Alarm – Low 50ppm	☑
Alarm – High 100ppm	☑

Inspection Details	
Inspection for faults, corrosion, damage	☑
Delete all previously logged data	☑
Correction factor set to 1.00	☑
Peak has been reset	☑

This is to certify that where possible, this instrument has been calibrated in accordance with the manufacturer's calibration procedure.
ECO Standard Rental Terms and Conditions apply to all equipment calibrations

Regards

Daniel Tran

Equipment Specialist
ECO Environmental Pty Ltd

Date: 29.10.2024

ECO Environmental | Environment monitoring solutions

Head Office Perth
Tel: +61 8 9328 2900
eco@ecoenvironmental.com.au
www.ecoenvironmental.com.au

EQUIPMENT INFORMATION

Instrument: YSIPP-8P
Serial Number: 17E103511 (Display)
Lot Number: 23H100392 (Sonde)

EQUIPMENT CHECK	Enclosed	Returned	Comment
YSI Pro Plus Display	✓		
YSI Quatro Sonde	✓		
Flow Cell	✓		
Probe Guard	✓		
Calibration Cup + Cap	✓		
YSI Pro Series ProComm II Kit	✓		
Instruction Manual & Field Sheets Spare	✓		
Batteries (x 2)	✓		
Philips Head Screwdriver	✓		

SENSOR CALIBRATION DETAILS

		Calibration Undertaken		Accuracy	Pass	Fail
Temperature		Factory Calibrated		±0.2°C	✓	
Dissolved Oxygen	✓	100% Saturation		±2%	✓	
		Pressure Compensation		1017 hPa	✓	
Conductivity	✓	12.88mS/cm		±0.5%	✓	
	✓	Check linearity at 1.4mS/cm		±0.5%	✓	
Salinity		Auto Calibrated		±1%	✓	
pH	✓	pH 7.00		± 0.2	✓	
	✓	pH 4.00		± 0.2	✓	
ORP	✓	222 mV at	24.5 °C	±20mV	✓	

This is to certify that where possible, this instrument has been calibrated in accordance with the manufacturer's calibration procedure as recommended in the instrument service manual.

ECO Standard Rental Terms & Conditions apply to all equipment calibrations.

Regards,

Daniel Tran

ECO Environmental Equipment Specialist

Date: 29.10.2024

ECO Environmental | Environment monitoring solutions

Head Office Perth
Tel: +61 8 9328 2900
eco@ecoenvironmental.com.au
www.ecoenvironmental.com.au

EQUIPMENT INFORMATION

Instrument: GPP-3P - Geotech Peristaltic Pump

Serial Number: A08003841

Equipment Check	Enclosed	Returned	Comment
GeoPump Controller	☑	☐	
Geotech 12v Battery & Charger	☑	☐	
Carry Case	☑	☐	
Power Supply Cable	☑	☐	
Car Battery Adapter	☑	☐	

Inspection Details	Pass	Fail	Comment
De-con wash of controller & cable	☑	☐	
De-con wash of battery & carry case	☑	☐	
Inspection for faults, corrosion and damage	☑	☐	
Unit in good working order, clean & ready for use	☑	☐	

This is to certify that where possible this instrument has been cleaned in accordance with the manufacture's general maintenance procedure as recommended in the instrument service manual.

ECO Standard Rental Terms & Conditions apply to all equipment calibrations.

Regards,

Daniel Tran

Equipment Specialist
ECO Environmental

Date: 04.11.2024

ECO Environmental | Environment monitoring solutions

Head Office Perth
Tel: +61 8 9328 2900
eco@ecoenvironmental.com.au
www.ecoenvironmental.com.au

EQUIPMENT INFORMATION

Instrument: HIM202

Serial Number: 02-0568

Equipment Check	Enclosed	Returned	Comment
Heron Interface Level Meter	☑	☐	
Heron Carry Bag	☑	☐	
Spare battery 9v	☑	☐	

Inspection Details	Pass	Fail	Comment
De-con wash of tape (20m)	☑	☐	
De-con wash of reel	☑	☐	
Inspection for faults, corrosion, damage	☑	☐	
Meter in good working order, clean and ready for use	☑	☐	

This is to certify that where possible this instrument has been cleaned in accordance with the manufacture's general *maintenance procedure as recommended* in the instrument service manual.

ECO Standard Rental Terms & Conditions apply to all equipment calibrations.

Regards,

Daniel Tran

Equipment Specialist
ECO Environmental

Date: 01.11.2024

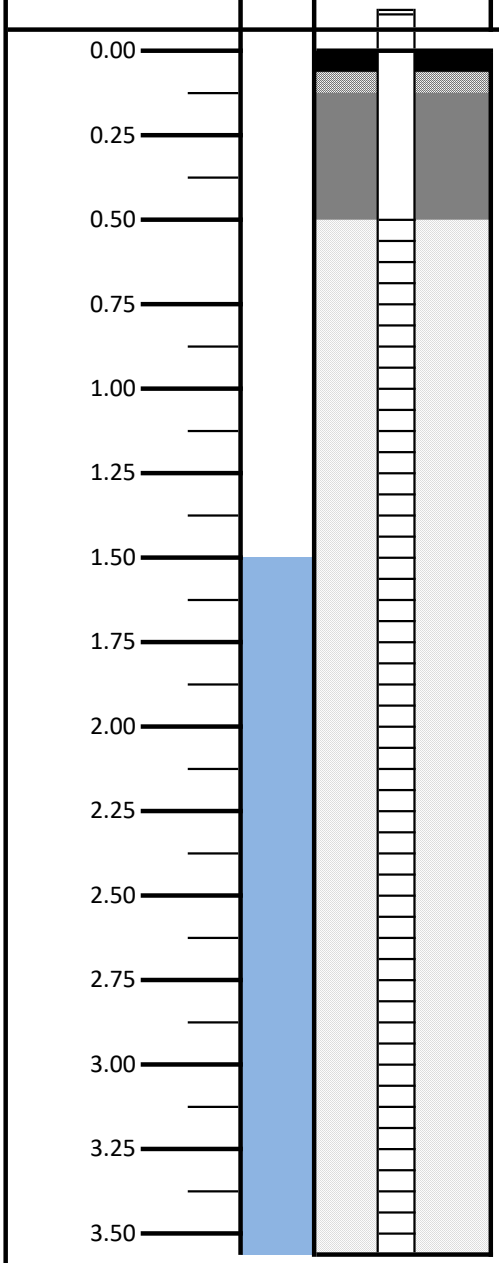
APPENDIX J
Field Logs

GMB CONSTRUCTION LOG

WEST SOIL & WATER

Gravel		Bentonite	
Sand		Slotted Material	
Clay		Backfill	
Rock		Groundwater	
Concrete		Silt	

Project Number	20240730_147 Burswood	**Bore ID**	**MW4**
Site Name	147 Burswood road	**Total Depth (mbgl)**	3.50
Date	31/10/2024	**Casing Height (mbgl)**	0.50
Time	PM	**Depth to Water (mbgl)**	1.50
Drilling Contractor	GeoSonic	**Well Cover Type**	Gatick
Drill Method	Sonic	**Well Casing Diameter**	50 mm
Scientist(s)	S.Mueller	**Type**	Class 18 PVC
		Thread	0.5 mm machine slots
		Samples?	Yes



Lithology

0.0-0.9m. BACKFILL & SAND. Medium to coarse grained, subrounded. Grey/orange. Dry. Some gravel inclusions.

0.9-1.5m. SAND. Coarse grained, subrounded, light grey. Dry

1.5-3.5m. SAND. Coarse grained, subrounded, light grey (black from 2-2.3m). Saturated.

WATER SAMPLING FIELD SHEET

WEST SOIL & WATER

Project	147 Burswood Road	Sample Point ID	**MW01**
Site Name	147 Burswood Road	Sample Recovery Method	Peristaltic Pump
Scientist(s)	S. Mueller, A. Scanlan	Collar Height (magl)	NA
Date	7/11/2024	Depth to GW (mbTOC)	1.64 m
Depth of Bore (mbTOC)	3.8 m	0.45um filter used?	Yes
QA/QC Sample IDs	NA		

GROUNDWATER PURGING DATA

Mins (total)	Appearance	pH	Temp (°C)	C	ORP	DO %	
0	Clear	6.19	22.5	165	-42.9	71.7	
1	Clear	6.22	22.5	765	-44.7	75.4	
2	Clear	6.24	22.5	160	-44.6	74.2	
3	Clear	6.24	22.7	166	-43.1	72.3	
4	Clear	6.25	22.7	155	-42.3	71.0	
5	Clear	6.25	22.4	140	-41.7	70.7	
6 (Final)	Clear	6.27	22.5	123	-39.3	73.1	

		Sample Point ID	**MW02**
		Sample Recovery Method	Peristaltic Pump
		Collar Height (magl)	NA
Date	7/11/2024	Depth to GW (mbTOC)	1.59 m
Depth of Bore (mbTOC)	3.5 m	0.45 um filtration used (Y/N)	Yes
QA/QC Sample IDs	X1, X2, 2 x samples for laboratory QA/QC		

GROUNDWATER PURGING DATA

Mins (total)	Appearance	pH	Temp (°C)	C	ORP	DO %	
0	Clear	5.73	23.4	568.0	-2.4	18.0	
1	Clear	5.90	22.7	521.0	-17.7	3.4	
2	Clear	5.94	22.8	472.7	-27.0	2.7	
3	Clear	5.95	23.1	462.0	-29.8	2.5	
4	Clear	5.97	23.3	460.2	-33.3	2.5	
5	Clear	5.97	23.5	460.8	-35.0	2.5	
6 (Final)	Clear	6.02	22.8	448.8	-39.7	6.2	

		Sample Point ID	**MW03**
		Sample Recovery Method	Peristaltic Pump
		Collar Height (magl)	NA
Date	7/11/2024	Depth to GW (mbTOC)	1.48
Depth of Bore (mbTOC)	3.49	0.45 um filtration used (Y/N)	Yes
QA/QC Sample IDs	NA		

GROUNDWATER PURGING DATA

Mins (total)	Appearance	pH	Temp (°C)	C	ORP	DO %	
0	Clear	6.23	23.3	453.3	5.00	17.3	
1	Clear	6.16	23.4	443.8	1.90	16.8	
2	Clear	6.12	23.6	432.6	-0.10	17.2	
3	Clear	6.11	23.7	428.9	-0.90	17.0	
4	Clear	6.12	23.4	422.0	-2.20	17.1	
5	Clear	6.12	23.6	417.2	-3.80	16.5	
6 (Final)	Clear	6.13	23.6	410.0	-7.60	18.8	

		Sample Point ID	**MW04**
		Sample Recovery Method	Peristaltic Pump
		Collar Height (magl)	NA
Date	7/11/2024	Depth of water (surface waters)	1.43
Depth of Bore (mbTOC)	22.2 m (obstructed)	0.45 um filtration used (Y/N)	Yes
QA/QC Sample IDs	NA		

GROUNDWATER PURGING DATA

Mins/Litres	Appearance	pH	Temp (°C)	C	ORP	DO %	
0	Slightly black	6.08	21.70	488.40	34.7	5.9	
1	Slightly black (clearer)	6.07	21.60	484.80	32.0	4.2	
2	Clearing	6.08	21.60	480.00	28.8	4.3	
3	Clear	6.09	21.60	478.80	26.2	4.5	
4	Clear	6.10	21.70	480.20	23.4	3.7	
5	Clear	6.10	21.60	480.20	21.0	3.6	
6 (Final)	Clear	6.15	21.60	483.20	17.7	6.3	

SOIL BORE LOG

WEST SOIL & WATER

Gravel	Bentonite
Sand	Slotted Material
Clay	Backfill
Rock	Moist
Concrete	Groundwater
	Silt

Project Number: 20240730_147 Burswood Road Additional Investigations	Bore ID: S10
Site Name: 147 Burswood Rd	Total Depth (mbgl) : 3.00
Start Date: 31/10/2024 **End Date:** 31/10/2024	Casing Height (mbgl): NA
Drilling Contractor: GeoSonic	Depth to Water (mbgl) : 1.50-1.60
Drill Method: Push Probe	Samples? Yes
Scientist(s): S.Mueller, A. Scanlan	

Depth (mbgl)	Water (mbgl)	Lithology	Sample IDs	PID Reading	Lithology Description
0					0.0-0.12m. CONCRETE.
0.25			S10-0.25	0.4	
0.5			S10-0.5	0	
0.75					0.12-1.40m. SAND. Medium grained. Subrounded. Grey/Black in colour. Natural. Dry.
1			S10-1.0	0.1	
1.25					
1.5			S10-1.5	0	
1.75					1.40-2.0m. SAND. Coarse grained, rounded to subrounded, light grey, saturated.
2			S10-2.0	0	
2.25					2.0-2.5m. SAND. Fine grained, subrounded, grey to black, dry.
2.5					
2.75					2.5-3.0m. SAND. Coarse grained, rounded to subrounded, light grey, wet.
3			S10-3.0	0.3	

SOIL BORE LOG

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WEST SOIL & WATER

Gravel	Bentonite
Sand	Slotted Material
Clay	Backfill
Rock	Moist
Concrete	Groundwater
	Silt

Project Number: 20240730_147 Burswood Road Additional Investigations	Bore ID: S11
Site Name: 147 Burswood Rd	Total Depth (mbgl) : 3.00
Start Date: 31/10/2024 **End Date:** 31/10/2024	Casing Height (mbgl): NA
Drilling Contractor: GeoSonic	Depth to Water (mbgl) : 1.50-1.60
Drill Method: Push Probe	Samples? Yes
Scientist(s): S.Mueller, A. Scanlan	

Depth (mbgl)	Water (mbgl)	Lithology	Sample IDs		Lithology Description
0					0.0-0.12m. CONCRETE
0.25			S11-0.25	0.7	0.12-0.4m. BACKFILL. Coarse grained, rubble, grey & orange. Dry.
0.5			S11-0.5 (X1/X2)	0.5	
0.75					
1			S11-1.0	0.1	0.4-1.6m. SAND. Coarse grained, subrounded, black to light grey, dry. Some BACKFILL around 1.1-1.2m.
1.25					
1.5			S11-1.5	0.2	
1.75					
2			S11-2.0	0.2	
2.25					1.6-3.0m. SAND. Coarse grained, subrounded, light grey. Saturated.
2.5					
2.75					
3			S11-3.0	0.1	

SOIL BORE LOG

WEST SOIL & WATER

Gravel	Bentonite
Sand	Slotted Material
Clay	Backfill
Rock	Moist
Concrete	Groundwater
	Silt

Project Number: 20240730_147 Burswood Road Additional Investigations	Bore ID: S12
Site Name: 147 Burswood Rd	Total Depth (mbgl) : 3.00
Start Date: 31/10/2024 **End Date:** 31/10/2024	Casing Height (mbgl): NA
Drilling Contractor: GeoSonic	Depth to Water (mbgl) : 1.30m
Drill Method: Push Probe	Samples? Yes
Scientist(s): S.Mueller, A. Scanlan	

Depth (mbgl)	Water (mbgl)	Lithology	Sample IDs		Lithology Description
0					0.0-0.1m. CONCRETE.
0.25			S12-0.25	0.1	0.1-0.5m. SAND. Medium grained, subangular, greyish brown to grey. Dry.
0.5			S12-0.5	1.5	
0.75					0.5-0.55m. BACKFILL. Cream coloured. Dry.
1			S12-1.0	0.2	0.55-1.3m. SAND. Coarse grained, subroundedm grey to dark grey. Dry.
1.25			S12-1.3	1	
1.5					
1.75					1.3-2.0m. SAND. Medium grained, subrounded, black to dark grey. Saturated.
2			S12-2.0	0.4	
2.25					2.0-2.2m. GRAVEL.
2.5					
2.75					2.2-3.0m. SAND. Coarse grained, subrounded, black to light grey. Very saturated.
3			S12-3.0	0.5	

SOIL BORE LOG

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WEST SOIL & WATER

Gravel	Bentonite
Sand	Slotted Material
Clay	Backfill
Rock	Moist
Concrete	Groundwater
	Silt

Project Number: 20240730_147 Burswood Road Additional Investigations	Bore ID: S13
Site Name: 147 Burswood Rd	Total Depth (mbgl) : 3.00
Start Date: 31/10/2024 **End Date:** 31/10/2024	Casing Height (mbgl): NA
Drilling Contractor: GeoSonic	Depth to Water (mbgl) : 1.50
Drill Method: Push Probe	Samples? Yes
Scientist(s): S.Mueller, A. Scanlan	

Depth (mbgl)	Water (mbgl)	Lithology	Sample IDs		Lithology Description
0					0.0-0.25m. CONCRETE/BACKFILL.
0.25			S13-0.25	0	
0.5			S13-0.5	0	
0.75					0.25-1.5m. SAND. Medium grained, subrounded, light grey to black to yellowish beige. Dry.
1			S13-1.0	0	
1.25					
1.5			S12-1.5	0	
1.75					
2			S12-2.0	0	
2.25					1.5-3.0m. SAND. Medium grained, subrounded, dark grey to light grey. Saturated.
2.5					
2.75					
3			S12-3.0	0	

SOIL BORE LOG

WEST SOIL & WATER

Gravel		Bentonite	
Sand		Slotted Material	
Clay		Backfill	
Rock		Moist	
Concrete		Groundwater	
		Silt	

Project Number: 20240730_147 Burswood Road Additional Investigations	Bore ID: S14
Site Name: 147 Burswood Rd	Total Depth (mbgl) : 3.00
Start Date: 31/10/2024 **End Date:** 31/10/2024	Casing Height (mbgl): NA
Drilling Contractor: GeoSonic	Depth to Water (mbgl) : 1.8
Drill Method: Push Probe	Samples? Yes
Scientist(s): S.Mueller, A. Scanlan	

Depth (mbgl)	Water (mbgl)	Lithology	Sample IDs		Lithology Description
0			S14-0.0	0	0.0-0.9m. SAND. Coarse grained, subrounded, grey & white. Dry.
0.25					
0.5			S14-0.5	0	
0.75					0.9-1.3m. SAND. Medium grained, subrounded, dark grey. Moist. A bit of gravel.
1			S14-1.0	0	
1.25					
1.5			S14-1.5	0	1.3-1.8m. SAND. Medium grained, subrounded, dark grey. Dry. A bit of gravel.
1.75					
2			S14-1.8	0	1.8-2.0m. SAND. Coarse grained, subrounded, grey. Saturated.
2.25					2.0-2.3m SAND & GRAVEL. Coarse grained, subrounded, dark grey. Saturated.
2.5			S14-2.5	0	
2.75					2.3-3.0m. SAND. Coarse grained, subrounded, grey. Saturated.
3			S14-3.0	0	

SOIL BORE LOG

WEST SOIL & WATER

Gravel	Bentonite
Sand	Slotted Material
Clay	Backfill
Rock	Moist
Concrete	Groundwater
	Silt

Project Number: 20240730_147 Burswood Road Additional Investigations
Site Name: 147 Burswood Rd
Start Date: 31/10/2024 **End Date:** 31/10/2024
Drilling Contractor: GeoSonic
Drill Method: Push Probe
Scientist(s): S.Mueller, A. Scanlan

Bore ID: S15
Total Depth (mbgl) : 3.00
Casing Height (mbgl): NA
Depth to Water (mbgl) : 1.7
Samples? Yes

Depth (mbgl)	Water (mbgl)	Lithology	Sample IDs		Lithology Description
0			S15-0.0	0.7	0.0-1.7m. SAND. Coarse grained, subrounded, dark grey to light grey. Dry. A bit of gravel around 1.0m.
0.25					
0.5			S15-0.5 (X3/X4)	0.9	
0.75					
1			S15-1.0	0.4	
1.25					
1.5					
1.75			S15-1.7	0.7	
2					1.7-2.0m. SAND. Coarse grained, subrounded, light grey. Saturated.
2.25					2.0-2.2m. SAND. Medium grained, subrounded, black. Saturated.
2.5			S15-2.5	0.6	
2.75					2.2-3.0m. SAND. Coarse grained, subrounded, light to medium grey. Saturated.
3			S15-3.0	0.7	

SOIL BORE LOG

Page___of____

WEST SOIL & WATER

Gravel	Bentonite
Sand	Slotted Material
Clay	Backfill
Rock	Moist
Concrete	Groundwater
	Silt

Project Number: 20240730_147 Burswood Road Additional Investigations	Bore ID: S16
Site Name: 147 Burswood Rd	Total Depth (mbgl) : 3.00
Start Date: 31/10/2024 **End Date:** 31/10/2024	Casing Height (mbgl): NA
Drilling Contractor: GeoSonic	Depth to Water (mbgl) : 1.7
Drill Method: Push Probe	Samples? Yes
Scientist(s): S.Mueller, A. Scanlan	

Depth (mbgl)	Water (mbgl)	Lithology	Sample IDs		Lithology Description
0			S16-0.0	0.2	
0.25					
0.5			S16-0.5	0.4	0.0-0.8m. SAND & GRAVEL. Coarse grained, subrounded, dark to medium grey. Dry.
0.75					
1			S16-1.0 (X5/X6)	0.1	
1.25					0.8-1.7m. SAND. Coarse grained, subrounded, grey to dark grey. Dry.
1.5					
1.75			S16-1.7	0	
2			S16-2.0	0.1	
2.25					
2.5					1.7-3.0m. SAND. Coarse grained, subrounded, dark grey to light grey. Saturated.
2.75					
3			S16-3.0	0.1	

SOIL BORE LOG

WEST SOIL & WATER

Gravel		Bentonite	
Sand		Slotted Material	
Clay		Backfill	
Rock		Moist	
Concrete		Groundwater	
		Silt	

Project Number: 20240730_147 Burswood Road Additional Investigations	Bore ID: S17
Site Name: 147 Burswood Rd	Total Depth (mbgl) : 3.00
Start Date: 31/10/2024 **End Date:** 31/10/2024	Casing Height (mbgl): NA
Drilling Contractor: GeoSonic	Depth to Water (mbgl) : 1.4
Drill Method: Push Probe	Samples? Yes
Scientist(s): S.Mueller, A. Scanlan	

Depth (mbgl)	Water (mbgl)	Lithology	Sample IDs		Lithology Description
0					
0.25			S17-0.25	0	
0.5			S17-0.5	0	0.0-0.7m. SAND & BACKFILL. Fine to coarse grained, with rubble. Grey. Dry.
0.75					
1			S17-1.0	0.7	
1.25					0.7-1.25m. SAND. Coarse grained, yellow to grey.
1.5			S17-1.4	1.5	
1.75					
2			S17-2.0	1.9	
2.25					1.25-3.5m. PEAT? Fine to coarse grained sand, black/grey. Same gravel (<10%) around 2-2.4m. No odour. Saturated. Water at 1.4 m.
2.5			S17-2.5	0.9	
2.75					
3			S17-3.0	0.2	

SOIL BORE LOG

Page___of___

WEST SOIL & WATER

Gravel	Bentonite
Sand	Slotted Material
Clay	Backfill
Rock	Moist
Concrete	Groundwater
	Silt

Project Number: 20240730_147 Burswood Road Additional Investigations	Bore ID: S18
Site Name: 147 Burswood Rd	Total Depth (mbgl) : 3.00
Start Date: 31/10/2024 **End Date:** 31/10/2024	Casing Height (mbgl): NA
Drilling Contractor: GeoSonic	Depth to Water (mbgl) : 1.2
Drill Method: Push Probe	Samples? Yes
Scientist(s): S.Mueller, A. Scanlan	

Depth (mbgl)	Water (mbgl)	Lithology	Sample IDs		Lithology Description
0					
0.25			S18-0.25	0.1	0.0-0.3m. SAND & BACKFILL. Fine to coarse grained, with rubble. Grey. Dry.
0.5			S18-0.5	0.1	
0.75					
1					
1.25			S18-1.2	0.2	0.3-1.8m. SAND. Coarse grained, yellow to grey. Water at 1.2m.
1.5					
1.75					
2			S18-2.0	1.2	
2.25					1.8-2.4m. PEAT? Fine to coarse grained sand, black/grey. Same gravel (<10%) around 2-2.4m. No odour. Saturated.
2.5					
2.75					2.4-3.0m. SAND. Coarse to medium grained. Black/grey. Saturated.
3			S18-3.0	1.6	

SOIL BORE LOG

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WEST SOIL & WATER

Gravel	Bentonite
Sand	Slotted Material
Clay	Backfill
Rock	Moist
Concrete	Groundwater
	Silt

Project Number: 20240730_147 Burswood Road Additional Investigations	Bore ID: S19
Site Name: 147 Burswood Rd	Total Depth (mbgl) : 3.00
Start Date: 31/10/2024 **End Date:** 31/10/2024	Casing Height (mbgl): NA
Drilling Contractor: GeoSonic	Depth to Water (mbgl) : 1.60
Drill Method: Push Probe	Samples? Yes
Scientist(s): S.Mueller, A. Scanlan	

Depth (mbgl)	Water (mbgl)	Lithology	Sample IDs	PID Reading	Lithology Description
0					0.0-0.3m. SAND. Fine to coarse grained. Some gravel and bitumen present. Orange. Dry.
0.25			S19-0.25	0.1	
0.5			S19-0.5	0	
0.75					0.3-1.6m. SAND. Coarse grained, grey/black/orange; minor gravel inclusions. Dry
1			S19-1.0	0	
1.25					
1.5			S19-1.5	0.1	
1.75					
2			S19-2.0	0.2	
2.25					1.6-3.0m. SAND. Coarse grained, grey. Saturated.
2.5					
2.75					
3			S19-3.0	0	

SOIL BORE LOG

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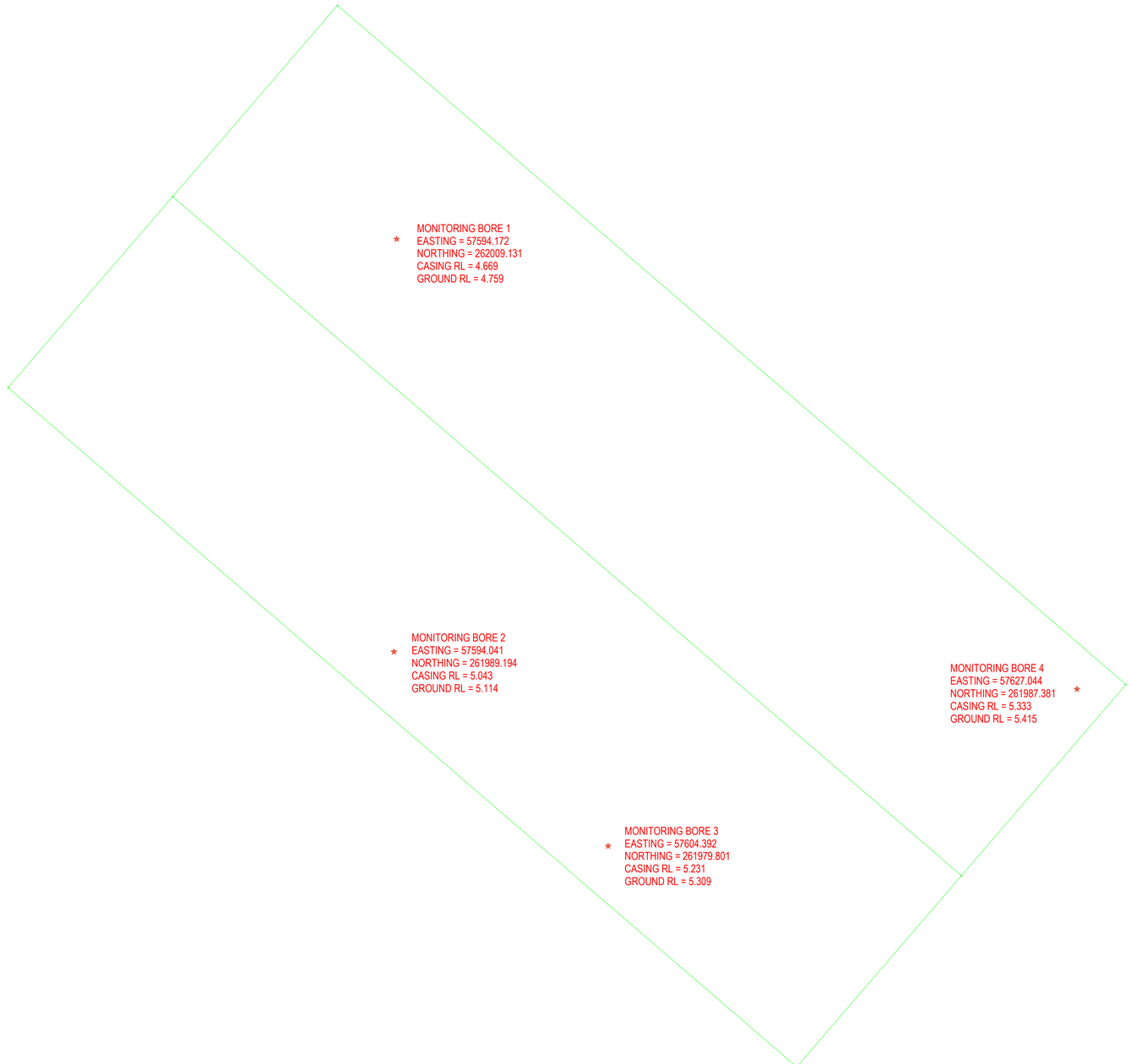
WEST SOIL & WATER

Gravel	Bentonite
Sand	Slotted Material
Clay	Backfill
Rock	Moist
Concrete	Groundwater
	Silt

Project Number: 20240730_147 Burswood Road Additional Investigations	Bore ID: S20 (GWB)
Site Name: 147 Burswood Rd	Total Depth (mbgl) : 3.00
Start Date: 31/10/2024 **End Date:** 31/10/2024	Casing Height (mbgl): NA
Drilling Contractor: GeoSonic	Depth to Water (mbgl) : 1.50
Drill Method: Push Probe	Samples? Yes
Scientist(s): S.Mueller, A. Scanlan	

Depth (mbgl)	Water (mbgl)	Lithology	Sample IDs	PID Reading	Lithology Description
0			S20-0.0	0.1	0.0-0.9m. BACKFILL & SAND. Medium to coarse grained, subrounded. Grey/orange. Dry. Some gravel inclusions.
0.25					
0.5			S20-0.5	0	
0.75					
1			S20-1.0	0	0.9-1.5m. SAND. Coarse grained, subrounded, light grey. Dry
1.25					
1.5			S20-1.5	0.4	
1.75					
2			S20-2.0	0.7	
2.25					1.5-3.0m. SAND. Coarse grained, subrounded, light grey (black from 2-2.3m). Saturated.
2.5					
2.75					
3			S20-3.0	0.1	

APPENDIX K
Survey Results



Notes:

REV	DESCRIPTION	DRN	DATE	APP
0				

LandSurveys
19 Brennan Way
Belmont WA 6104
T (08) 9477 4477
E admin@landsurveys.net.au
www.landsurveys.net.au

SCALE @ A1 : 1:
NOT TO SCALE

SURVEYED BY: LC
SURVEYED ON: 07/11/2024
DRAWN BY: LC
DRAWN ON: 07/11/2024
HOR DATUM: PCG94
VERT DATUM: AHD

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BOREHOLE ASCON SURVEY
147 BURSWOOD ROAD, BURSWOOD, 6100

CLIENT:
WEST SOIL WATER

JOB No.	PLAN	DRG	REV	SHEET
2401269			0	1 OF 1

APPENDIX L
Tabulated Soil Results

			BTEX								TRH								Phenols												Amino Aliphatics				Amino Aromatics		Other		
			Naphthalene (VOC)	Benzene	Toluene	Ethylbenzene	Xylene (m & p)	Xylene (o)	Xylene Total	Total BTEX	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)	3&4-Methylphenol (m&p-cresol)	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	4-chloro-3-methylphenol	Pentachlorophenol	Phenol	N-nitrosodiethylamine	N-nitrosodi-n-butylamine	N-nitrosodi-n-propylamine	N-Nitrosomethylethylamine	1-naphthylamine	N-Nitrosodiphenyl & Diphenylamine	Acetophenone	2-nitroaniline	3-nitroaniline
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL			1	0.2	0.5	0.5	0.5	0.5	0.5	0.2	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	1	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	1	1
EIL Aged - 147 Burswood Road																																						
EIL Fresh - 147 Burswood Road																																						
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil											700		1,000		2,500	10,000																						
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand			3	0.5 | 0.5 | 0.5 | 0.5	160 | 220 | 310 | 540	55			40 | 60 | 95 | 170			45 | 70 | 110 | 200		110 | 240 | 440																						
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil				50	85	70			105			180	120	120	300	2,800																						
NEPM 2013 Table 1A(1) HILs Res A Soil																												100	3,000									
Field ID	**Location Code**	**Date**																																				
S10 0.25		**30 Oct 2024**	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<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	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.0	<1.0
S10 0.50		**30 Oct 2024**	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<10	<10	<50	<50	200	100	300	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.0	<1.0
S10 1.00		**30 Oct 2024**																																				
S10 1.50		**30 Oct 2024**	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<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	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.0	<1.0
S11 0.25		**30 Oct 2024**	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<10	<10	<50	<50	180	270	450	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.0	<1.0
S11 0.50		**30 Oct 2024**	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<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	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.0	<1.0
S11 1.00		**30 Oct 2024**																																				
S11 1.50		**30 Oct 2024**	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<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	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.0	<1.0
S11 2.00		**30 Oct 2024**																																				
S12 0.25		**30 Oct 2024**	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<10	<10	<50	<50	320	380	700	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.0	<1.0
S12 0.50		**30 Oct 2024**	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<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	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.0	<1.0
S12 1.30		**30 Oct 2024**	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<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	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.0	<1.0
S12 2.00		**30 Oct 2024**																																				
S12 3.00		**30 Oct 2024**																																				
S13 0.25		**30 Oct 2024**	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<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	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.0	<1.0
S13 0.50		**30 Oct 2024**	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<10	<10	<50	<50	180	160	340	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.0	<1.0
S13 1.00		**30 Oct 2024**																																				
S13 1.50		**30 Oct 2024**	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<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	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.0	<1.0
S13 2.00		**30 Oct 2024**																																				
S13 3.00		**30 Oct 2024**																																				
S14 0.00		**30 Oct 2024**	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<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	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.0	<1.0
S14 0.50		**30 Oct 2024**	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<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	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.0	<1.0
S14 1.00		**30 Oct 2024**																																				
S14 1.50		**30 Oct 2024**																																				
S14 1.80		**30 Oct 2024**	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<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	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.0	<1.0
S15 0.00		**30 Oct 2024**	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<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	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.0	<1.0
S15 0.50		**30 Oct 2024**	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<10	<10	<50	<50	110	<100	110	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.0	<1.0
S15 1.00		**30 Oct 2024**																																				
S15 1.70		**30 Oct 2024**	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<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	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.0	<1.0
S16 0.00		**30 Oct 2024**	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<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	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.0	<1.0
S16 0.50		**30 Oct 2024**	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<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	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.0	<1.0
S16 1.00		**30 Oct 2024**																																				
S16 1.70		**30 Oct 2024**	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<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	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.0	<1.0
S16 2.00		**30 Oct 2024**																																				
S16 3.00		**30 Oct 2024**																																				
S17 0.25		**30 Oct 2024**	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<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	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.0	<1.0
S17 0.50		**30 Oct 2024**	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<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	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.0	<1.0
S17 1.00		**30 Oct 2024**																																				
S17 1.40		**30 Oct 2024**	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<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	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.0	<1.0
S17 2.00		**30 Oct 2024**	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<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	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.0	<1.0
S17 2.50		**30 Oct 2024**																																				
S17 3.00		**30 Oct 2024**																																				
S18 0.25		**30 Oct 2024**	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<10	<10	<50	<50	160	150	310	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.0	<1.0
S18 0.50		**30 Oct 2024**																																				
S18 2.00		**30 Oct 2024**	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<10	<10	<50	<50	140	<100	140	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.0	<1.0
S18 3.00		**30 Oct 2024**																																				
S19 0.25		**30 Oct 2024**	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<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	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.0	<1.0
S19 0.50		**30 Oct 2024**	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<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	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.0	<1.0
S19 1.00		**30 Oct 2024**																																				
S19 1.50		**30 Oct 2024**	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<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	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.0	<1.0
S19 2.00		**30 Oct 2024**																																				
S19 3.00		**30 Oct 2024**																																				
S20 0.00		**31 Oct 2024**	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<10	<10	<50	<50	190	260	450	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.0	<1.0
S20 0.50		**31 Oct 2024**	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<10	<10	<50	<50	320	290	610	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.0	<1.0
S20 1.00		**31 Oct 2024**	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<10	<10	<50	<50	290	270	560																						
S20 1.50		**31 Oct 2024**	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<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	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.0	<1.0
EP2416162	**S11 0.50**	**30 Oct 2024**	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<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	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.0	<1.0
EP2416162	**X1**	**31 Oct 2024**	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<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	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.0	<1.0
RPD			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EP2416162	**S11 0.50**	**30 Oct 2024**	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<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	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.0	<1.0
1155566	**X2**	**30 Oct 2024**	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3		<20	<20	<50	<50	<100	<100	<100	<0.4	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.2	<1	<1	<1	<0.5		<0.5	<0.5		<0.5			<0.5	<0.5	
RPD			0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0		0			0	0	
EP2416162	**X1**	**31 Oct 2024**	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<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	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.0	<1.0
1155566	**X2**	**30 Oct 2024**	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3		<20	<20	<50	<50	<100	<100	<100	<0.4	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.2	<1	<1	<1	<0.5		<0.5	<0.5		<0.5			<0.5	<0.5	
RPD			0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0		0			0	0	
EP2416162	**S15 0.50**	**30 Oct 2024**	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<10	<10	<50	<50	110	<100	110	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.0	<1.0
EP2416162	**X3**	**31 Oct 2024**	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<10	<10	<50	<50	130	<100	130	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.0	<1.0
RPD			0	0	0	0	0	0	0	0	0	0	0	0	17	0	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EP2416162	**S15 0.50**	**30 Oct 2024**	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<10	<10	<50	<50	110	<100	110	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.0	<1.0
1155566	**X4**	**30 Oct 2024**	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3		<20	<20	<50	<50	110	<100	110	<0.4	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.2	<1	<1	<1	<0.5		<0.5	<0.5		<0.5			<0.5	<0.5	
RPD			0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0		0			0	0	
EP2416162	**X3**	**31 Oct 2024**	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<10	<10	<50	<50	130	<100	130	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.0	<1.0
1155566	**X4**	**30 Oct 2024**	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3		<20	<20	<50	<50	110	<100	110	<0.4	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.2	<1	<1	<1	<0.5		<0.5	<0.5		<0.5			<0.5	<0.5	
RPD			0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0		0			0	0	

Environmental Standards

NEPM, NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil
2013, NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand
2013, NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil
2013, NEPM 2013 Table 1A(1) HILs Res A Soil

			Anilines				Chlorinated Hydrocarbons			Explosives				Halogenated Benzenes						Herbicides	Metals							Nitroaromatics									
			4-chloroaniline	4-nitroaniline	2-methyl-5-nitroaniline	Aniline	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	1,3,5-Trinitrobenzene	2,4-Dinitrotoluene	2,6-dinitrotoluene	Nitrobenzene	1,2,4-trichlorobenzene	1,2-dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	Hexachlorobenzene	Pentachlorobenzene	Pronamide	Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc	2-Picoline	4-aminobiphenyl	Pentachloronitrobenzene	4,4-DDE	a-BHC	Aldrin	Aldrin + Dieldrin	b-BHC	Chlordane	Chlordane (cis)	Chlordane (trans)
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL			0.5	0.5	0.5	0.5	0.5	2.5	0.5	0.5	1	1	0.5	0.5	0.5	0.5	0.5	0.05	0.5	0.5	5	1	2	5	5	0.1	2	5	0.5	0.5	0.5	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
EIL Aged - 147 Burswood Road																					100		320	20	1,100		2	100											
EIL Fresh - 147 Burswood Road																					50		130	20	270		2	85											
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																																						
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand																																						
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																																						
NEPM 2013 Table 1A(1) HILs Res A Soil																		10			100	20		6,000	300	40	400	7,400						6		50		
Field ID	**Location Code**	**Date**																																				
S10 0.25		**30 Oct 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<2.5	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5		<5	<1	<2	<5	13	<0.1	<2	34	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
S10 0.50		**30 Oct 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<2.5	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5		<5	2	15	93	442	<0.1	6	277	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
S10 1.00		**30 Oct 2024**																						<5	<5		<2	<5											
S10 1.50		**30 Oct 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<2.5	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5		<5	<1	<2	<5	<5	<0.1	<2	<5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
S11 0.25		**30 Oct 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<2.5	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5		<5	<1	13	9	29	<0.1	2	14	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
S11 0.50		**30 Oct 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<2.5	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5		<5	<1	<2	<5	6	<0.1	<2	19	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
S11 1.00		**30 Oct 2024**																										172										
S11 1.50		**30 Oct 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<2.5	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5		<5	<1	3	<5	13	<0.1	<2	37	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
S11 2.00		**30 Oct 2024**																										<5										
S12 0.25		**30 Oct 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<2.5	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5		<5	1	11	115	352	<0.1	4	301	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
S12 0.50		**30 Oct 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<2.5	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5		<5	2	2	39	27	<0.1	<2	53	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	0.10	<0.05	<0.05	<0.05	<0.05
S12 1.30		**30 Oct 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<2.5	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5		<5	<1	8	13	43	<0.1	<2	187	<0.5	<0.5	<0.5	0.21	<0.05	<0.05	0.15	<0.05	<0.05	<0.05	<0.05
S12 2.00		**30 Oct 2024**																						36				211										
S12 3.00		**30 Oct 2024**																						<5				<5										
S13 0.25		**30 Oct 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<2.5	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5		<5	<1	16	16	13	<0.1	4	54	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	0.05	<0.05	<0.05	<0.05	<0.05
S13 0.50		**30 Oct 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<2.5	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5		<5	<1	6	55	152	<0.1	3	79	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
S13 1.00		**30 Oct 2024**																						6			<2	36										
S13 1.50		**30 Oct 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<2.5	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5		<5	<1	3	8	40	<0.1	<2	101	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
S13 2.00		**30 Oct 2024**																						<5				23										
S13 3.00		**30 Oct 2024**																						<5				<5										
S14 0.00		**30 Oct 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<2.5	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5		<5	<1	<2	6	27	<0.1	<2	37	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	0.06	<0.05	<0.05	<0.05	<0.05
S14 0.50		**30 Oct 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<2.5	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5		<5	<1	2	6	28	<0.1	<2	38	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
S14 1.00		**30 Oct 2024**																										48										
S14 1.50		**30 Oct 2024**																										43										
S14 1.80		**30 Oct 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<2.5	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5		<5	<1	<2	<5	<5	<0.1	<2	14	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
S15 0.00		**30 Oct 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<2.5	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5		<5	<1	<2	6	14	<0.1	<2	48	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
S15 0.50		**30 Oct 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<2.5	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5		<5	<1	3	10	20	<0.1	4	32	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
S15 1.00		**30 Oct 2024**																						<5			<2	<5										
S15 1.70		**30 Oct 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<2.5	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5		<5	<1	<2	<5	<5	<0.1	<2	5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
S16 0.00		**30 Oct 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<2.5	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5		<5	<1	3	11	51	<0.1	<2	68	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	0.06	<0.05	<0.05	<0.05	<0.05
S16 0.50		**30 Oct 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<2.5	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5		<5	<1	3	7	24	<0.1	<2	78	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	0.08	<0.05	<0.05	<0.05	<0.05
S16 1.00		**30 Oct 2024**																						<5				43										
S16 1.70		**30 Oct 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<2.5	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5		<5	<1	<2	<5	<5	<0.1	<2	30	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
S16 2.00		**30 Oct 2024**																										9										
S16 3.00		**30 Oct 2024**																										<5										
S17 0.25		**30 Oct 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<2.5	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5		<5	<1	6	21	76	<0.1	<2	77	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	0.06	<0.05	<0.05	<0.05	<0.05
S17 0.50		**30 Oct 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<2.5	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5		<5	<1	<2	5	12	<0.1	<2	22	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	0.25	<0.05	<0.05	<0.05	<0.05
S17 1.00		**30 Oct 2024**																						5			<2	56										
S17 1.40		**30 Oct 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<2.5	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5		<5	<1	5	62	66	0.2	<2	404	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	0.08	<0.05	<0.05	<0.05	<0.05
S17 2.00		**30 Oct 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<2.5	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5		12	<1	5	27	60	0.1	8	214	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
S17 2.50		**30 Oct 2024**																						<5			<2	<5										
S17 3.00		**30 Oct 2024**																						<5			<2	8										
S18 0.25		**30 Oct 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<2.5	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5		<5	<1	6	32	158	0.2	4	103	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	0.09	<0.05	<0.05	<0.05	<0.05
S18 0.50		**30 Oct 2024**																																	<0.5				
S18 2.00		**30 Oct 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<2.5	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5		<5	<1	<2	<5	13	<0.1	<2	50	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
S18 3.00		**30 Oct 2024**																										<5										
S19 0.25		**30 Oct 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<2.5	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5		<5	<1	16	7	16	<0.1	<2	46	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
S19 0.50		**30 Oct 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<2.5	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5		<5	<1	<2	<5	<5	<0.1	<2	24	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
S19 1.00		**30 Oct 2024**																						<5				122										
S19 1.50		**30 Oct 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<2.5	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5		<5	<1	2	7	69	<0.1	<2	75	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
S19 2.00		**30 Oct 2024**																						<5				<5										
S19 3.00		**30 Oct 2024**																						<5				<5										
S20 0.00		**31 Oct 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<2.5	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5		<5	<1	13	105	460	<0.1	5	189	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	0.12	<0.05	<0.05	<0.05	<0.05
S20 0.50		**31 Oct 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<2.5	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5		<5	1	8	54	232	<0.1	3	121	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	11.9	<0.05	<0.05	<0.05	<0.05
S20 1.00		**31 Oct 2024**																						<5	<5		<2	6							<0.05	<0.05			
S20 1.50		**31 Oct 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<2.5	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5		<5	<1	<2	<5	<5	<0.1	<2	7	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP2416162	**S11 0.50**	**30 Oct 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<2.5	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5		<5	<1	<2	<5	6	<0.1	<2	19	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP2416162	**X1**	**31 Oct 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<2.5	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5		<5	<1	<2	<5	5	<0.1	<2	14	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
RPD			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	18	0	0	30	0	0	0	0	0	0	0	0	0	0	0
EP2416162	**S11 0.50**	**30 Oct 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<2.5	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5		<5	<1	<2	<5	6	<0.1	<2	19	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1155566	**X2**	**30 Oct 2024**				<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.01	<0.5		<0.5	<2	<0.1	<1	3.7	13	0.02	<1	32	<0.5	<0.5	<0.5	<0.01	<0.01	<0.01	<0.5	<0.01	<0.01	
RPD						0	0	0	0		0	0	0	0	0	0	0	0	0		0	0	0	0	0	74	0	0	51	0	0	0	0	0	0	0	0	0	
EP2416162	**X1**	**31 Oct 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<2.5	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5		<5	<1	<2	<5	5	<0.1	<2	14	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1155566	**X2**	**30 Oct 2024**				<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.01	<0.5		<0.5	<2	<0.1	<1	3.7	13	0.02	<1	32	<0.5	<0.5	<0.5	<0.01	<0.01	<0.01	<0.5	<0.01	<0.01	
RPD						0	0	0	0		0	0	0	0	0	0	0	0	0		0	0	0	0	0	89	0	0	0	0	0	0	0	0	0	0	0	0	
EP2416162	**S15 0.50**	**30 Oct 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<2.5	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5		<5	<1	3	10	20	<0.1	4	32	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP2416162	**X3**	**31 Oct 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<2.5	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5		<5	<1	3	9	18	<0.1	4	34	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
RPD			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	11	11	0	0	6	0	0	0	0	0	0	0	0	0	0
EP2416162	**S15 0.50**	**30 Oct 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<2.5	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5		<5	<1	3	10	20	<0.1	4	32	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1155566	**X4**	**30 Oct 2024**				<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.01	<0.5		<0.5	<2	<0.1	2.2	4.8	15	0.03	2.7	25	<0.5	<0.5	<0.5	<0.01	<0.01	<0.01	<0.5	<0.01	<0.01	
RPD						0	0	0	0		0	0	0	0	0	0	0	0	0		0	0	0	31	70	29	0	39	25	0	0	0	0	0	0	0	0	0	
EP2416162	**X3**	**31 Oct 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<2.5	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5		<5	<1	3	9	18	<0.1	4	34	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1155566	**X4**	**30 Oct 2024**				<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.01	<0.5		<0.5	<2	<0.1	2.2	4.8	15	0.03	2.7	25	<0.5	<0.5	<0.5	<0.01	<0.01	<0.01	<0.5	<0.01	<0.01	
RPD						0	0	0	0		0	0	0	0	0	0	0	0	0		0	0	0	31	61	18	0	39	31	0	0	0	0	0	0	0	0	0	

Environmental Standards

NEPM, NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil
2013, NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand
2013, NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil
2013, NEPM 2013 Table 1A(1) HILs Res A Soil

| | | | Organochlorine Pesticides | | | | | | | | | | | | | | | Organophosphorous Pesticides | | | | | | | | | | | | | | |

			PAH																		Pesticides						Phthalates						Solvents						
			Acenaphthylene	Anthracene	Benz(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-cd)pyrene	Naphthalene	Pheanthrene	Pyrene	Benzo(a)pyrene TEQ calc (Half)	Benzo(a)pyrene TEQ (LOR)	Benzo(a)pyrene TEQ calc (Zero)	PAHs (Sum of total)	Chlorobenzilate	Carbazole	Demeton-S-methyl	Fenamiphos	Parathion	Pirimphos-ethyl	Bis(2-ethylhexyl) phthalate	Butyl benzyl phthalate	Diethylphthalate	Dimethyl phthalate	Di-n-butyl phthalate	Di-n-octyl phthalate	Isophorone	2-[acetylamino] fluorene	3,3-Dichlorobenzidine	4-(dimethylamino) azobenzene	4-bromophenyl phenyl ether	4-chlorophenyl phenyl ether
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL			0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.05	0.05	0.2	0.05	5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
EIL Aged - 147 Burswood Road															170																								
EIL Fresh - 147 Burswood Road															170																								
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																																							
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand															3																								
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil						0.7																																	
NEPM 2013 Table 1A(1) HILs Res A Soil																		3	3	3	300																		
Field ID	**Location Code**	**Date**																																					
S10 0.25		**30 Oct 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.2	<0.05	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
S10 0.50		**30 Oct 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.2	<0.05	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
S10 1.00		**30 Oct 2024**																																					
S10 1.50		**30 Oct 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.2	<0.05	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
S11 0.25		**30 Oct 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.2	<0.05	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
S11 0.50		**30 Oct 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.2	<0.05	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
S11 1.00		**30 Oct 2024**																																					
S11 1.50		**30 Oct 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	0.6	1.2	<0.5	0.5	<0.5	<0.5	<0.05	<0.05	<0.2	<0.05	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
S11 2.00		**30 Oct 2024**																																					
S12 0.25		**30 Oct 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.2	<0.05	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
S12 0.50		**30 Oct 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.2	<0.05	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
S12 1.30		**30 Oct 2024**	<0.5	<0.5	<0.5	<0.5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.2	<0.05	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
S12 2.00		**30 Oct 2024**																																					
S12 3.00		**30 Oct 2024**																																					
S13 0.25		**30 Oct 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.2	<0.05	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
S13 0.50		**30 Oct 2024**	<0.5	<0.5	0.9	0.8	1.2	0.6	0.6	1.0	<0.5	2.1	<0.5	<0.5	<0.5	1.4	2.2	1.3	1.6	1.0	10.0	<0.5	<0.5	<0.05	<0.05	<0.2	<0.05	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
S13 1.00		**30 Oct 2024**				<0.5																																	
S13 1.50		**30 Oct 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.2	<0.05	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
S13 2.00		**30 Oct 2024**				<0.5																																	
S13 3.00		**30 Oct 2024**				<0.5																																	
S14 0.00		**30 Oct 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.2	<0.05	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
S14 0.50		**30 Oct 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.2	<0.05	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
S14 1.00		**30 Oct 2024**																																					
S14 1.50		**30 Oct 2024**																																					
S14 1.80		**30 Oct 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.2	<0.05	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
S15 0.00		**30 Oct 2024**	<0.5	<0.5	<0.5	0.7	1.0	<0.5	<0.5	0.6	<0.5	0.8	<0.5	<0.5	<0.5	<0.5	0.8	1.1	1.4	0.8	3.9	<0.5	<0.5	<0.05	<0.05	<0.2	<0.05	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
S15 0.50		**30 Oct 2024**	<0.5	<0.5	0.8	1.2	1.7	0.8	0.8	0.9	<0.5	1.7	<0.5	0.5	<0.5	<0.5	1.7	1.8	2.0	1.5	9.6	<0.5	<0.5	<0.05	<0.05	<0.2	<0.05	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
S15 1.00		**30 Oct 2024**				<0.5																																	
S15 1.70		**30 Oct 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.2	<0.05	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
S16 0.00		**30 Oct 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.2	<0.05	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
S16 0.50		**30 Oct 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.2	<0.05	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
S16 1.00		**30 Oct 2024**																																					
S16 1.70		**30 Oct 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.2	<0.05	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
S16 2.00		**30 Oct 2024**																																					
S16 3.00		**30 Oct 2024**																																					
S17 0.25		**30 Oct 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.2	<0.05	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
S17 0.50		**30 Oct 2024**	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.2	<0.05	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
S17 1.00		**30 Oct 2024**																																					
S17 1.40		**30 Oct 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.2	<0.05	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
S17 2.00		**30 Oct 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.2	<0.05	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
S17 2.50		**30 Oct 2024**																																					
S17 3.00		**30 Oct 2024**																																					
S18 0.25		**30 Oct 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.2	<0.05	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
S18 0.50		**30 Oct 2024**																																					
S18 2.00		**30 Oct 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.2	<0.05	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
S18 3.00		**30 Oct 2024**																																					
S19 0.25		**30 Oct 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.2	<0.05	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
S19 0.50		**30 Oct 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.2	<0.05	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
S19 1.00		**30 Oct 2024**				<0.5																																	
S19 1.50		**30 Oct 2024**	<0.5	<0.5	<0.5	0.6	1.1	<0.5	<0.5	0.5	<0.5	0.7	<0.5	0.5	<0.5	<0.5	0.7	1.0	1.3	0.6	2.5	<0.5	<0.5	<0.05	<0.05	<0.2	<0.05	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
S19 2.00		**30 Oct 2024**				<0.5																																	
S19 3.00		**30 Oct 2024**				<0.5																																	
S20 0.00		**31 Oct 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.2	<0.05	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
S20 0.50		**31 Oct 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.2	<0.05	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
S20 1.00		**31 Oct 2024**																																					
S20 1.50		**31 Oct 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.2	<0.05	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
EP2416162	**S11 0.50**	**30 Oct 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.2	<0.05	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
EP2416162	**X1**	**31 Oct 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.2	<0.05	<5.0	<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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EP2416162	**S11 0.50**	**30 Oct 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.2	<0.05	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1155566	**X2**	**30 Oct 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							0	0	0	0	0	0			0	0	0	0
EP2416162	**X1**	**31 Oct 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.2	<0.05	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1155566	**X2**	**30 Oct 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							0	0	0	0	0	0			0	0	0	0
EP2416162	**S15 0.50**	**30 Oct 2024**	<0.5	<0.5	0.8	1.2	1.7	0.8	0.8	0.9	<0.5	1.7	<0.5	0.5	<0.5	<0.5	1.7	1.8	2.0	1.5	9.6	<0.5	<0.5	<0.05	<0.05	<0.2	<0.05	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
EP2416162	**X3**	**31 Oct 2024**	<0.5	<0.5	1.3	1.5	1.8	<0.5	0.6	1.1	<0.5	2.1	<0.5	0.8	<0.5	0.6	2.1	2.2	2.5	2.0	12.8	<0.5	<0.5	<0.05	<0.05	<0.2	<0.05	<5.0	<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	48	22	6	46	29	20	0	21	0	46	0	18	21	20	22	29	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EP2416162	**S15 0.50**	**30 Oct 2024**	<0.5	<0.5	1.2	1.5	1.7	0.9	0.8	1.1	<0.5	2.1	<0.5	0.7	<0.5	0.6	2.1	2.2	2.5	2.0	12.7	<0.5	<0.5	<0.05	<0.05	<0.2	<0.05	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1155566	**X4**	**30 Oct 2024**	<0.5	<0.5	<0.5	0.6	0.5	<0.5	<0.5	0.6	<0.5	0.7	<0.5	<0.5	<0.5	<0.5	0.8	1.0	1.3	0.7	3.2							<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	82	86	109	57	46	59	0	100	0	33	0	18	90	75	63	96	119							0	0	0	0	0	0			0	0	0	0
EP2416162	**X3**	**31 Oct 2024**	<0.5	<0.5	1.3	1.5	1.8	<0.5	0.6	1.1	<0.5	2.1	<0.5	0.8	<0.5	0.6	2.1	2.2	2.5	2.0	12.8	<0.5	<0.5	<0.05	<0.05	<0.2	<0.05	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1155566	**X4**	**30 Oct 2024**	<0.5	<0.5	<0.5	0.6	0.5	<0.5	<0.5	0.6	<0.5	0.7	<0.5	<0.5	<0.5	<0.5	0.8	1.0	1.3	0.7	3.2							<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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120.00							0	0	0	0	0	0			0	0	0	0

Environmental Standards

NEPM, NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil
2013, NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand
2013, NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil
2013, NEPM 2013 Table 1A(1) HILs Res A Soil

			SVOCs											TPH				
			4-Nitroquinoline-N-oxide	Azobenzene	Bis(2-chloroethoxy) methane	Bis(2-chloroethyl)ether	Dibenzofuran	Hexachloropropene	Methapyrilene	N-nitrosomorpholine	N-nitrosopiperidine	N-nitrosopyrrolidine	Phenacetin	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (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/kg	mg/kg	mg/kg
EQL			0.5	1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	10	50	100	100	50
EIL Aged - 147 Burswood Road																		
EIL Fresh - 147 Burswood Road																		
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																		
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand																		
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																		
NEPM 2013 Table 1A(1) HILs Res A Soil																		
Field ID	**Location Code**	**Date**																
S10 0.25		**30 Oct 2024**	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<10	<50	<100	<100	<50
S10 0.50		**30 Oct 2024**	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<10	<50	<100	170	170
S10 1.00		**30 Oct 2024**																
S10 1.50		**30 Oct 2024**	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<10	<50	<100	<100	<50
S11 0.25		**30 Oct 2024**	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<10	<50	<100	180	180
S11 0.50		**30 Oct 2024**	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<10	<50	<100	<100	<50
S11 1.00		**30 Oct 2024**																
S11 1.50		**30 Oct 2024**	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<10	<50	<100	<100	<50
S11 2.00		**30 Oct 2024**																
S12 0.25		**30 Oct 2024**	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<10	<50	160	260	420
S12 0.50		**30 Oct 2024**	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<10	<50	<100	<100	<50
S12 1.30		**30 Oct 2024**	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<10	<50	<100	<100	<50
S12 2.00		**30 Oct 2024**																
S12 3.00		**30 Oct 2024**																
S13 0.25		**30 Oct 2024**	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<10	<50	<100	<100	<50
S13 0.50		**30 Oct 2024**	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<10	<50	<100	150	150
S13 1.00		**30 Oct 2024**																
S13 1.50		**30 Oct 2024**	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<10	<50	<100	<100	<50
S13 2.00		**30 Oct 2024**																
S13 3.00		**30 Oct 2024**																
S14 0.00		**30 Oct 2024**	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<10	<50	<100	<100	<50
S14 0.50		**30 Oct 2024**	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<10	<50	<100	<100	<50
S14 1.00		**30 Oct 2024**																
S14 1.50		**30 Oct 2024**																
S14 1.80		**30 Oct 2024**	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<10	<50	<100	<100	<50
S15 0.00		**30 Oct 2024**	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<10	<50	<100	<100	<50
S15 0.50		**30 Oct 2024**	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<10	<50	<100	<100	<50
S15 1.00		**30 Oct 2024**																
S15 1.70		**30 Oct 2024**	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<10	<50	<100	<100	<50
S16 0.00		**30 Oct 2024**	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<10	<50	<100	<100	<50
S16 0.50		**30 Oct 2024**	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<10	<50	<100	<100	<50
S16 1.00		**30 Oct 2024**																
S16 1.70		**30 Oct 2024**	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<10	<50	<100	<100	<50
S16 2.00		**30 Oct 2024**																
S16 3.00		**30 Oct 2024**																
S17 0.25		**30 Oct 2024**	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<10	<50	<100	<100	<50
S17 0.50		**30 Oct 2024**	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<10	<50	<100	<100	<50
S17 1.00		**30 Oct 2024**																
S17 1.40		**30 Oct 2024**	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<10	<50	<100	<100	<50
S17 2.00		**30 Oct 2024**	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<10	<50	<100	<100	<50
S17 2.50		**30 Oct 2024**																
S17 3.00		**30 Oct 2024**																
S18 0.25		**30 Oct 2024**	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<10	<50	<100	120	120
S18 0.50		**30 Oct 2024**																
S18 2.00		**30 Oct 2024**	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<10	<50	<100	<100	<50
S18 3.00		**30 Oct 2024**																
S19 0.25		**30 Oct 2024**	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<10	<50	<100	<100	<50
S19 0.50		**30 Oct 2024**	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<10	<50	<100	<100	<50
S19 1.00		**30 Oct 2024**																
S19 1.50		**30 Oct 2024**	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<10	<50	<100	<100	<50
S19 2.00		**30 Oct 2024**																
S19 3.00		**30 Oct 2024**																
S20 0.00		**31 Oct 2024**	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<10	<50	<100	160	160
S20 0.50		**31 Oct 2024**	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<10	<50	140	280	420
S20 1.00		**31 Oct 2024**												<10	<50	<100	280	280
S20 1.50		**31 Oct 2024**	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<10	<50	<100	<100	<50
EP2416162	**S11 0.50**	**30 Oct 2024**	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<10	<50	<100	<100	<50
EP2416162	**X1**	**31 Oct 2024**	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<10	<50	<100	<100	<50
RPD			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EP2416162	**S11 0.50**	**30 Oct 2024**	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<10	<50	<100	<100	<50
1155566	**X2**	**30 Oct 2024**			<0.5		<0.5				<0.5			<20	<20	<50	<50	<50
RPD					0		0				0			0	0	0	0	0
EP2416162	**X1**	**31 Oct 2024**	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<10	<50	<100	<100	<50
1155566	**X2**	**30 Oct 2024**			<0.5		<0.5				<0.5			<20	<20	<50	<50	<50
RPD					0		0				0			0	0	0	0	0
EP2416162	**S15 0.50**	**30 Oct 2024**	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<10	<50	<100	<100	<50
EP2416162	**X3**	**31 Oct 2024**	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<10	<50	<100	<100	<50
RPD			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EP2416162	**S15 0.50**	**30 Oct 2024**	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<10	<50	<100	<100	<50
1155566	**X4**	**30 Oct 2024**			<0.5		<0.5				<0.5			<20	<20	62	73	135
RPD					0		0				0			0	0	0	0	92
EP2416162	**X3**	**31 Oct 2024**	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<10	<50	<100	<100	<50
1155566	**X4**	**30 Oct 2024**			<0.5		<0.5				<0.5			<20	<20	62	73	135
RPD					0		0				0			0	0	47	31	-92

Environmental Standards

NEPM, NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil
2013, NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand
2013, NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil
2013, NEPM 2013 Table 1A(1) HILs Res A Soil

APPENDIX M
Soil Laboratory Certificates

Page 1 of 1

Project Reference	147-BR
WSW Reference	20240730_147 Burswood Road Additional Investigations
Site	147 Buswood Rd
Sample Type	Soil/Water
Scientist(s)	S.Mueller A. Scanlan
Results:	sam@westsoilandwater.com.au audrey@westsoilandwater.com.au brad@westsoilandwater.com.au
Invoice:	sam@westsoilandwater.com.au admin@westsoilandwater.com.au

WEST SOIL & WATER

p: 0424021264
e: sam@westsoilandwater.com.au

w: www.westsoilandwater.com.au

	SAMPLE ID.	DATE	TIME	PRESERVATION Ice	PRESERVATION None	TRH	BTEXN	PAH	Suite of Eight Heavy Metals (As, Cd, Cr, Cu, Hg, Ni, Pb, Zn)	OC/OP Pesticides	SVOCs					Total # of Containers	COMMENTS	LAB ID
						ANALYSIS SUITES												
	SOILS																	
1	S10 0.25	30/10/2024	900	X		X	X	X	X	X	X					1		
2	S10 0.50	30/10/2024		X		X	X	X	X	X	X					1		
3	S10 1.00	30/10/2024		X												1	Please hold sample	
4	S10 1.50	30/10/2024		X		X	X	X	X	X	X					1		
5	S10 2.00	30/10/2024		X												1	Please hold sample	
6	S10 3.00	30/10/2024		X												1	Please hold sample	
7	S11 0.25	30/10/2024	930	X		X	X	X	X	X	X					1		
8	S11 0.50	30/10/2024		X		X	X	X	X	X	X					1		
9	S11 1.00	30/10/2024		X												1	Please hold sample	
10	S11 1.50	30/10/2024		X		X	X	X	X	X	X					1		
11	S11 2.00	30/10/2024		X												1	Please hold sample	
12	S11 3.00	30/10/2024		X												1	Please hold sample	
13	S12 0.25	30/10/2024	1000	X		X	X	X	X	X	X					1		
14	S12 0.50	30/10/2024		X		X	X	X	X	X	X					1		
15	S12 1.00	30/10/2024		X												1	Please hold sample	
16	S12 1.30	30/10/2024		X		X	X	X	X	X	X					1		
17	S12 2.00	30/10/2024		X												1	Please hold sample	
18	S12 3.00	30/10/2024		X												1	Please hold sample	
19	S13 0.25	30/10/2024	1100	X		X	X	X	X	X	X					1		
20	S13 0.50	30/10/2024		X		X	X	X	X	X	X					1		
21	S13 1.00	30/10/2024		X												1	Please hold sample	
22	S13 1.50	30/10/2024		X		X	X	X	X	X	X					1		
23	S13 2.00	30/10/2024		X												1	Please hold sample	
24	S13 3.00	30/10/2024		X												1	Please hold sample	
25	S14 0.00	30/10/2024	1130	X		X	X	X	X	X	X					1		
26	S14 0.50	30/10/2024		X		X	X	X	X	X	X					1		
27	S14 1.00	30/10/2024		X												1	Please hold sample	
28	S14 1.50	30/10/2024		X												1	Please hold sample	
29	S14 1.80	30/10/2024		X		X	X	X	X	X	X					1		
30	S14 2.50	30/10/2024		X												1	Please hold sample	
31	S14 3.00	30/10/2024		X												1	Please hold sample	
32	S15 0.00	30/10/2024	1300	X		X	X	X	X	X	X					1		
33	S15 0.50	30/10/2024		X		X	X	X	X	X	X					1		
34	S15 1.00	30/10/2024		X												1	Please hold sample	
35	S15 1.70	30/10/2024		X		X	X	X	X	X	X					1		
36	S15 2.50	30/10/2024		X												1	Please hold sample	
37	S15 3.00	30/10/2024		X												1	Please hold sample	
38	S16 0.00	30/10/2024	1400	X		X	X	X	X	X	X					1		
39	S16 0.50	30/10/2024		X		X	X	X	X	X	X					1		
40	S16 1.00	30/10/2024		X												1	Please hold sample	
41	S16 1.70	30/10/2024		X		X	X	X	X	X	X					1		
42	S16 2.00	30/10/2024		X												1	Please hold sample	
43	S16 3.00	30/10/2024		X												1	Please hold sample	
44	S17 0.25	30/10/2024	1430	X		X	X	X	X	X	X					1		
45	S17 0.50	30/10/2024		X		X	X	X	X	X	X					1		
46	S17 1.00	30/10/2024		X												1	Please hold sample	
47	S17 1.40	30/10/2024		X		X	X	X	X	X	X					1		
48	S17 2.00	30/10/2024		X		X	X	X	X	X	X					1		
49	S17 2.50	30/10/2024		X												1	Please hold sample	
50	S17 3.00	30/10/2024		X												1	Please hold sample	
51	S18 0.25	30/10/2024	1530	X		X	X	X	X	X	X					1		
52	S18 0.50	30/10/2024		X		X	X	X	X	X	X					1		
53	S18 1.20	30/10/2024		X		X	X	X	X	X	X					1	Please hold sample	
54	S18 2.00	30/10/2024		X		X	X	X	X	X	X					1		
55	S18 3.00	30/10/2024		X												1	Please hold sample	
56	S19 0.25	30/10/2024	1600	X		X	X	X	X	X	X					1		
57	S19 0.50	30/10/2024		X		X	X	X	X	X	X					1		
58	S19 1.00	30/10/2024		X												1	Please hold sample	
59	S19 1.50	30/10/2024		X		X	X	X	X	X	X					1		
60	S19 2.00	30/10/2024		X												1	Please hold sample	
61	S19 3.00	30/10/2024		X												1	Please hold sample	
62	S20 0.00	31/10/2024	930	X		X	X	X	X	X	X					1		
63	S20 0.50	31/10/2024		X		X	X	X	X	X	X					1		
64	S20 1.00	31/10/2024		X												1	Please hold sample	
65	S20 1.50	31/10/2024		X		X	X	X	X	X	X					1		
66	S20 2.00	31/10/2024		X												1	Please hold sample	
67	S20 3.00	31/10/2024		X												1	Please hold sample	
68	X1	30/10/2024	NA	X		X	X	X	X	X	X					1		
69	X3	30/10/2024	NA	X		X	X	X	X	X	X					1		
70	X5	30/10/2024	NA	X												1	Please hold sample	
71	TB	30/10/2024	NA	X		X	X	X	X	X	X					1	TB lab ref 604	
72	TB	31/10/2024	NA	X		X	X	X	X	X	X					1	TB lab ref 605	
	WATER																	
73	RB	30/10/2024	NA	X		X	X	X	X	X	X					5		
74	FB	30/10/2024	NA	X		X	X	X	X	X	X					5		
75	RB	31/10/2024	NA	X		X	X	X	X	X	X					5		
76	FB	31/10/2024	NA	X		X	X	X	X	X	X					5		
															Total # of Containers:	92		

Relinquished by	S.Mueller
Organisation	WS&W
Date	31/10/2024
Time	1230
Signature	

Received by	
Organisation	
Date	
Time	
Condition upon reciept	

Notes:

Quote #:

Environmental Division
Perth
Work Order Reference
EP2416162

Telephone -- 61-8-9406 1301

SAMPLE RECEIPT NOTIFICATION (SRN)

Work Order : **EP2416162**

Client	: **West Soil & Water**	Laboratory	: Environmental Division Perth
Contact	: Sam Mueller	Contact	: Bethany Hatter
Address	: 3/194 Holbeck Street Doubleview 6018	Address	: 26 Rigali Way Wangara WA Australia 6065
E-mail	: sam@westsoilandwater.com.au	E-mail	: bethany.hatter@alsglobal.com
Telephone	: ----	Telephone	: +61-8-9406 1301
Facsimile	: ----	Facsimile	: +61-8-9406 1399
Project	: 20240730_147 Burswood Road Additional Investigations	Page	: 1 of 5
Order number	: ----	Quote number	: EP2023WESSOI0002 (WA Custom Rates)
C-O-C number	: ----	QC Level	: NEPM 2013 B3 & ALS QC Standard
Site	: 147 Burswood Road		
Sampler	: Audrey Scanlan, Sam Mueller		

Dates

Date Samples Received	: 31-Oct-2024 13:00	Issue Date	: 01-Nov-2024
Client Requested Due Date	: 08-Nov-2024	Scheduled Reporting Date	: **08-Nov-2024**

Delivery Details

Mode of Delivery	: Carrier	Security Seal	: Intact.
No. of coolers/boxes	: 3	Temperature	: 24.1 - Ice Bricks present
Receipt Detail	:	No. of samples received / analysed	: 76 / 42

General Comments

- This report contains the following information:
  - Sample Container(s)/Preservation Non-Compliances
  - Summary of Sample(s) and Requested Analysis
  - Proactive Holding Time Report
  - Requested Deliverables
- Please see scanned COC for sample discrepencies: extra samples , samples not received etc.
- Please direct any queries related to sample condition / numbering / breakages to Sample Receipt (Samples.Perth@alsglobal.com)
- Unless otherwise stated, analytical work for this work order will be conducted at ALS Perth, NATA accreditation no. 825, site no. 15847.
- Please direct any turnaround / technical queries to the laboratory contact designated above.
- Sample Disposal - Aqueous (3 weeks), Solid (2 months) from receipt of samples.
- **pH analysis should be conducted within 6 hours of sampling.**
- **Please refer to the Proactive Holding Time Report table below which summarises breaches of recommended holding times that have occurred prior to samples/instructions being received at the laboratory. The laboratory will process these samples unless instructions are received from you indicating you do not wish to proceed. The absence of this summary table indicates that all samples have been received within the recommended holding times for the analysis requested.**
- Please be aware that APHA/NEPM recommends water and soil samples be chilled to less than or equal to 6°C for chemical analysis, and less than or equal to 10°C but unfrozen for Microbiological analysis. Where samples are received above this temperature, it should be taken into consideration when interpreting results. Refer to ALS EnviroMail 85 for ALS recommendations of the best practice for chilling samples after sampling and for maintaining a cool temperature during transit.

Sample Container(s)/Preservation Non-Compliances

All comparisons are made against pretreatment/preservation AS, APHA, USEPA standards.

- **No sample container / preservation non-compliance exists.**

Summary of Sample(s) and Requested Analysis

Some items described below may be part of a laboratory process necessary for the execution of client requested tasks. Packages may contain additional analyses, such as the determination of moisture content and preparation tasks, that are included in the package.
If no sampling time is provided, the sampling time will default 00:00 on the date of sampling. If no sampling date is provided, the sampling date will be assumed by the laboratory and displayed in brackets without a time component

Matrix: **SOIL**

Laboratory sample ID	Sampling date / time	Sample ID	(On Hold) SOIL No analysis requested	SOIL - EA055-103 Moisture Content	SOIL - EP075 (solids) Semivolatile Organic Compounds	SOIL - S-12 OC/OP Pesticides	SOIL - S-26 8 metals/TRH/BTEXN/PAH
EP2416162-001	30-Oct-2024 00:00	S10 0.25		✓	✓	✓	✓
EP2416162-002	30-Oct-2024 00:00	S10 0.50		✓	✓	✓	✓
EP2416162-003	30-Oct-2024 00:00	S10 1.00	✓				
EP2416162-004	30-Oct-2024 00:00	S10 1.50		✓	✓	✓	✓
EP2416162-005	30-Oct-2024 00:00	S10 2.00	✓				
EP2416162-006	30-Oct-2024 00:00	S10 3.00	✓				
EP2416162-007	30-Oct-2024 00:00	S11 0.25		✓	✓	✓	✓
EP2416162-008	30-Oct-2024 00:00	S11 0.50		✓	✓	✓	✓
EP2416162-009	30-Oct-2024 00:00	S11 1.00	✓				
EP2416162-010	30-Oct-2024 00:00	S11 1.50		✓	✓	✓	✓
EP2416162-011	30-Oct-2024 00:00	S11 2.00	✓				
EP2416162-012	30-Oct-2024 00:00	S11 3.00	✓				
EP2416162-013	30-Oct-2024 00:00	S12 0.25		✓	✓	✓	✓
EP2416162-014	30-Oct-2024 00:00	S12 0.50		✓	✓	✓	✓
EP2416162-015	30-Oct-2024 00:00	S12 1.00	✓				
EP2416162-016	30-Oct-2024 00:00	S12 1.30		✓	✓	✓	✓
EP2416162-017	30-Oct-2024 00:00	S12 2.00	✓				
EP2416162-018	30-Oct-2024 00:00	S12 3.00	✓				
EP2416162-019	30-Oct-2024 00:00	S13 0.25		✓	✓	✓	✓
EP2416162-020	30-Oct-2024 00:00	S13 0.50		✓	✓	✓	✓
EP2416162-021	30-Oct-2024 00:00	S13 1.00	✓				
EP2416162-022	30-Oct-2024 00:00	S13 1.50		✓	✓	✓	✓
EP2416162-023	30-Oct-2024 00:00	S13 2.00	✓				
EP2416162-024	30-Oct-2024 00:00	S13 3.00	✓				
EP2416162-025	30-Oct-2024 00:00	S14 0.00		✓	✓	✓	✓
EP2416162-026	30-Oct-2024 00:00	S14 0.50		✓	✓	✓	✓
EP2416162-027	30-Oct-2024 00:00	S14 1.00	✓				
EP2416162-028	30-Oct-2024 00:00	S14 1.50	✓				
EP2416162-029	30-Oct-2024 00:00	S14 1.80		✓	✓	✓	✓
EP2416162-030	30-Oct-2024 00:00	S14 2.50	✓				
EP2416162-031	30-Oct-2024 00:00	S14 3.00	✓				
EP2416162-032	30-Oct-2024 00:00	S15 0.00		✓	✓	✓	✓
EP2416162-033	30-Oct-2024 00:00	S15 0.50		✓	✓	✓	✓
EP2416162-034	30-Oct-2024 00:00	S15 1.00	✓				
EP2416162-035	30-Oct-2024 00:00	S15 1.70		✓	✓	✓	✓

			(On Hold) SOIL No analysis requested	SOIL - EA055-103 Moisture Content	SOIL - EP075 (solids) Semivolatile Organic Compounds	SOIL - S-12 OC/OP Pesticides	SOIL - S-26 8 metals/TRH/BTEXN/PAH
EP2416162-036	30-Oct-2024 00:00	S15 2.50	✓				
EP2416162-037	30-Oct-2024 00:00	S15 3.00	✓				
EP2416162-038	30-Oct-2024 00:00	S16 0.00		✓	✓	✓	✓
EP2416162-039	30-Oct-2024 00:00	S16 0.50		✓	✓	✓	✓
EP2416162-040	30-Oct-2024 00:00	S16 1.00	✓				
EP2416162-041	30-Oct-2024 00:00	S16 1.70		✓	✓	✓	✓
EP2416162-042	30-Oct-2024 00:00	S16 2.00	✓				
EP2416162-043	30-Oct-2024 00:00	S16 3.00	✓				
EP2416162-044	30-Oct-2024 00:00	S17 0.25		✓	✓	✓	✓
EP2416162-045	30-Oct-2024 00:00	S17 0.50		✓	✓	✓	✓
EP2416162-046	30-Oct-2024 00:00	S17 1.00	✓				
EP2416162-047	30-Oct-2024 00:00	S17 1.40		✓	✓	✓	✓
EP2416162-048	30-Oct-2024 00:00	S17 2.00		✓	✓	✓	✓
EP2416162-049	30-Oct-2024 00:00	S17 2.50	✓				
EP2416162-050	30-Oct-2024 00:00	S17 3.00	✓				
EP2416162-051	30-Oct-2024 00:00	S18 0.25		✓	✓	✓	✓
EP2416162-052	30-Oct-2024 00:00	S18 0.50		✓	✓	✓	✓
EP2416162-053	30-Oct-2024 00:00	S18 1.20	✓				
EP2416162-054	30-Oct-2024 00:00	S18 2.00		✓	✓	✓	✓
EP2416162-055	30-Oct-2024 00:00	S18 3.00	✓				
EP2416162-056	30-Oct-2024 00:00	S19 0.25		✓	✓	✓	✓
EP2416162-057	30-Oct-2024 00:00	S19 0.50		✓	✓	✓	✓
EP2416162-058	30-Oct-2024 00:00	S19 1.00	✓				
EP2416162-059	30-Oct-2024 00:00	S19 1.50		✓	✓	✓	✓
EP2416162-060	30-Oct-2024 00:00	S19 2.00	✓				
EP2416162-061	30-Oct-2024 00:00	S19 3.00	✓				
EP2416162-062	31-Oct-2024 00:00	S20 0.00		✓	✓	✓	✓
EP2416162-063	31-Oct-2024 00:00	S20 0.50		✓	✓	✓	✓
EP2416162-064	31-Oct-2024 00:00	S20 1.00	✓				
EP2416162-065	31-Oct-2024 00:00	S20 1.50		✓	✓	✓	✓
EP2416162-066	31-Oct-2024 00:00	S20 2.00	✓				
EP2416162-067	31-Oct-2024 00:00	S20 3.00	✓				
EP2416162-068	31-Oct-2024 00:00	X1		✓	✓	✓	✓
EP2416162-069	31-Oct-2024 00:00	X3		✓	✓	✓	✓
EP2416162-070	31-Oct-2024 00:00	X5	✓				
EP2416162-071	31-Oct-2024 00:00	TB		✓	✓	✓	✓
EP2416162-072	31-Oct-2024 00:00	TB		✓	✓	✓	✓

Matrix: **WATER**

Laboratory sample ID	Sampling date / time	Sample ID	WATER - W-12 OC/OP Pesticides	WATER - W-26T TRH/BTEXN/PAH/Total 8 Metals
EP2416162-073	30-Oct-2024 00:00	RB	✓	✓
EP2416162-074	30-Oct-2024 00:00	FB	✓	✓
EP2416162-075	31-Oct-2024 00:00	RB	✓	✓
EP2416162-076	31-Oct-2024 00:00	FB	✓	✓

Matrix: **WATER**

Laboratory sample ID	Sampling date / time	Sample ID	WATER - EP075 Semivolatile Organic Compounds
EP2416162-073	30-Oct-2024 00:00	RB	✓
EP2416162-074	30-Oct-2024 00:00	FB	✓
EP2416162-075	31-Oct-2024 00:00	RB	✓
EP2416162-076	31-Oct-2024 00:00	FB	✓

Proactive Holding Time Report

Sample(s) have been received within the recommended holding times for the requested analysis.

Requested Deliverables

Admin

- A4 - AU Tax Invoice (INV)	Email	admin@westsoilandwater.com.au

Audrey Scanlan

- *AU Certificate of Analysis - NATA (COA)	Email	audrey@westsoilandwater.com.au
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	audrey@westsoilandwater.com.au
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	audrey@westsoilandwater.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	audrey@westsoilandwater.com.au
- Chain of Custody (CoC) (COC)	Email	audrey@westsoilandwater.com.au
- EDI Format - ESDAT (ESDAT)	Email	audrey@westsoilandwater.com.au
- EDI Format - XTab (XTAB)	Email	audrey@westsoilandwater.com.au

BRAD ERCEG

- *AU Certificate of Analysis - NATA (COA)	Email	brad@westsoilandwater.com.au
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	brad@westsoilandwater.com.au
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	brad@westsoilandwater.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	brad@westsoilandwater.com.au
- Chain of Custody (CoC) (COC)	Email	brad@westsoilandwater.com.au
- EDI Format - ESDAT (ESDAT)	Email	brad@westsoilandwater.com.au
- EDI Format - XTab (XTAB)	Email	brad@westsoilandwater.com.au

Sam Mueller

- *AU Certificate of Analysis - NATA (COA)	Email	sam@westsoilandwater.com.au
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	sam@westsoilandwater.com.au
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	sam@westsoilandwater.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	sam@westsoilandwater.com.au
- A4 - AU Tax Invoice (INV)	Email	sam@westsoilandwater.com.au
- Chain of Custody (CoC) (COC)	Email	sam@westsoilandwater.com.au
- EDI Format - ESDAT (ESDAT)	Email	sam@westsoilandwater.com.au
- EDI Format - XTab (XTAB)	Email	sam@westsoilandwater.com.au

CERTIFICATE OF ANALYSIS

Work Order	: **EP2416162**	Page	: 1 of 94
Client	: **West Soil & Water**	Laboratory	: Environmental Division Perth
Contact	: Sam Mueller	Contact	: Bethany Hatter
Address	: 3/194 Holbeck Street Doubleview 6018	Address	: 26 Rigali Way Wangara WA Australia 6065
Telephone	: ----	Telephone	: +61-8-9406 1301
Project	: 20240730_147 Burswood Road Additional Investigations	Date Samples Received	: 31-Oct-2024 13:00
Order number	: ----	Date Analysis Commenced	: 04-Nov-2024
C-O-C number	: ----	Issue Date	: 13-Nov-2024 20:07
Sampler	: Audrey Scanlan, Sam Mueller		
Site	: 147 Burswood Road		
Quote number	: WA Custom Rates		
No. of samples received	: 76		
No. of samples analysed	: 42		

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*
Canhuang Ke	Inorganics Supervisor	Perth Inorganics, Wangara, WA
Daniel Anthony	Instrument Chemist	Perth Organics, Wangara, WA
David Viner	SENIOR LAB TECH	Perth Organics, Wangara, WA
Efua Wilson	Metals Chemist	Perth Inorganics, Wangara, WA
Hayley Baines	Lab Technician	Perth Organics, Wangara, WA
John Horwood	Organic Supervisor	Perth Organics, Wangara, WA

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.

- EP075 (SIM): Where reported, 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.
- EP075: Where reported, 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.
- 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.
- EG035: Positive Mercury for samples EP2416162- 047 and 051 have been confirmed by re-digestion and re-analysis.
- EP075: High bias surrogate recovery deemed acceptable for samples "EP2416162-075 and 076" as all associated analyte results are <LOR.
- EP068 and EP075: High LCS recovery deemed acceptable as all associated analyte results are less than LOR.
- EP075: Low surrogate recoveries for sample "EP2416162-068" due to suspected matrix interferences.
- EP075: Where reported, 'Sum of PAH' is the sum of the USEPA 16 priority PAHs
- Benzo(a)pyrene Toxicity Equivalent Quotient (TEQ) 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.

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	S10 0.25	S10 0.50	S10 1.50	S11 0.25	S11 0.50
			Sampling date / time	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00
Compound	CAS Number	LOR	Unit	EP2416162-001	EP2416162-002	EP2416162-004	EP2416162-007	EP2416162-008
				Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	**2.1**	**6.2**	**9.3**	**4.2**	**2.6**
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	**2**	<1	<1	<1
Chromium	7440-47-3	2	mg/kg	<2	**15**	<2	**13**	<2
Copper	7440-50-8	5	mg/kg	<5	**93**	<5	**9**	<5
Lead	7439-92-1	5	mg/kg	**13**	**442**	<5	**29**	**6**
Nickel	7440-02-0	2	mg/kg	<2	**6**	<2	**2**	<2
Zinc	7440-66-6	5	mg/kg	**34**	**277**	<5	**14**	**19**
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	<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	<0.05
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<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	<0.05
gamma-BHC - (Lindane)	58-89-9	0.05	mg/kg	<0.05	<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	<0.05
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Aldrin	309-00-2	0.05	mg/kg	<0.05	<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	<0.05
^ Total Chlordane (sum)	----	0.05	mg/kg	<0.05	<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	<0.05
alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<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	<0.05
Dieldrin	60-57-1	0.05	mg/kg	<0.05	<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	<0.05
Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	S10 0.25	S10 0.50	S10 1.50	S11 0.25	S11 0.50
				Sampling date / time	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00
Compound	CAS Number	LOR	Unit		EP2416162-001	EP2416162-002	EP2416162-004	EP2416162-007	EP2416162-008
					Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued									
beta-Endosulfan	33213-65-9	0.05	mg/kg		<0.05	<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	<0.05
4.4`-DDD	72-54-8	0.05	mg/kg		<0.05	<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	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDT	50-29-3	0.2	mg/kg		<0.2	<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	<0.05
Methoxychlor	72-43-5	0.2	mg/kg		<0.2	<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	<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	<0.05
EP068B: Organophosphorus Pesticides (OP)									
Dichlorvos	62-73-7	0.05	mg/kg		<0.05	<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	<0.05
Monocrotophos	6923-22-4	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Dimethoate	60-51-5	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Diazinon	333-41-5	0.05	mg/kg		<0.05	<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	<0.05
Parathion-methyl	298-00-0	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	121-75-5	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Fenthion	55-38-9	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos	2921-88-2	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Parathion	56-38-2	0.2	mg/kg		<0.2	<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	<0.05
Chlorfenvinphos	470-90-6	0.05	mg/kg		<0.05	<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	<0.05
Fenamiphos	22224-92-6	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	S10 0.25	S10 0.50	S10 1.50	S11 0.25	S11 0.50
			Sampling date / time	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00
Compound	CAS Number	LOR	Unit	EP2416162-001	EP2416162-002	EP2416162-004	EP2416162-007	EP2416162-008
				Result	Result	Result	Result	Result
EP068B: Organophosphorus Pesticides (OP) - Continued								
Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<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	<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	<0.5	<0.5
Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	**1.2**	**1.2**	**1.2**	**1.2**	**1.2**
EP075A: Phenolic Compounds								
Phenol	108-95-2	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	S10 0.25	S10 0.50	S10 1.50	S11 0.25	S11 0.50
			Sampling date / time	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00
Compound	CAS Number	LOR	Unit	EP2416162-001	EP2416162-002	EP2416162-004	EP2416162-007	EP2416162-008
				Result	Result	Result	Result	Result
EP075A: Phenolic Compounds - Continued								
2-Chlorophenol	95-57-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
2-Methylphenol	95-48-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
3- & 4-Methylphenol	1319-77-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
2-Nitrophenol	88-75-5	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
2.4-Dimethylphenol	105-67-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
2.4-Dichlorophenol	120-83-2	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
2.6-Dichlorophenol	87-65-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
2.4.6-Trichlorophenol	88-06-2	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
2.4.5-Trichlorophenol	95-95-4	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Pentachlorophenol	87-86-5	1	mg/kg	<1	<1	<1	<1	<1
EP075B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
2-Methylnaphthalene	91-57-6	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
2-Chloronaphthalene	91-58-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
N-2-Fluorenyl Acetamide	53-96-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1	mg/kg	<1	<1	<1	<1	<1

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	S10 0.25	S10 0.50	S10 1.50	S11 0.25	S11 0.50
				Sampling date / time	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00
Compound	CAS Number	LOR	Unit		EP2416162-001	EP2416162-002	EP2416162-004	EP2416162-007	EP2416162-008
					Result	Result	Result	Result	Result
EP075B: Polynuclear Aromatic Hydrocarbons - Continued									
7.12-Dimethylbenz(a)anthracene	57-97-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
3-Methylcholanthrene	56-49-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of PAHs	----	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg		**0.6**	**0.6**	**0.6**	**0.6**	**0.6**
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg		**1.2**	**1.2**	**1.2**	**1.2**	**1.2**
EP075C: Phthalate Esters									
Dimethyl phthalate	131-11-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Diethyl phthalate	84-66-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Di-n-butyl phthalate	84-74-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Butyl benzyl phthalate	85-68-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
bis(2-ethylhexyl) phthalate	117-81-7	5.0	mg/kg		<5.0	<5.0	<5.0	<5.0	<5.0
Di-n-octylphthalate	117-84-0	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
EP075D: Nitrosamines									
N-Nitrosomethylethylamine	10595-95-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
N-Nitrosodiethylamine	55-18-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
N-Nitrosopyrrolidine	930-55-2	1.0	mg/kg		<1.0	<1.0	<1.0	<1.0	<1.0
N-Nitrosomorpholine	59-89-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
N-Nitrosodi-n-propylamine	621-64-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
N-Nitrosopiperidine	100-75-4	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
N-Nitrosodibutylamine	924-16-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
N-Nitrosodiphenyl & Diphenylamine	86-30-6 122-39-4	1.0	mg/kg		<1.0	<1.0	<1.0	<1.0	<1.0

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	S10 0.25	S10 0.50	S10 1.50	S11 0.25	S11 0.50
			Sampling date / time	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00
Compound	CAS Number	LOR	Unit	EP2416162-001	EP2416162-002	EP2416162-004	EP2416162-007	EP2416162-008
				Result	Result	Result	Result	Result
EP075D: Nitrosamines - Continued								
Methapyrilene	91-80-5	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
EP075E: Nitroaromatics and Ketones								
2-Picoline	109-06-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acetophenone	98-86-2	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Nitrobenzene	98-95-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Isophorone	78-59-1	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
2.6-Dinitrotoluene	606-20-2	1.0	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
2.4-Dinitrotoluene	121-14-2	1.0	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
1-Naphthylamine	134-32-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
4-Nitroquinoline-N-oxide	56-57-5	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
5-Nitro-o-toluidine	99-55-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Azobenzene	103-33-3	1	mg/kg	<1	<1	<1	<1	<1
1.3.5-Trinitrobenzene	99-35-4	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Phenacetin	62-44-2	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
4-Aminobiphenyl	92-67-1	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Pentachloronitrobenzene	82-68-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Pronamide	23950-58-5	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethylaminoazobenzene	60-11-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorobenzilate	510-15-6	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
EP075F: Haloethers								
Bis(2-chloroethyl) ether	111-44-4	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethoxy) methane	111-91-1	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
4-Chlorophenyl phenyl ether	7005-72-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
4-Bromophenyl phenyl ether	101-55-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
EP075G: Chlorinated Hydrocarbons								
1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	S10 0.25	S10 0.50	S10 1.50	S11 0.25	S11 0.50
				Sampling date / time	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00
Compound	CAS Number	LOR	Unit		EP2416162-001	EP2416162-002	EP2416162-004	EP2416162-007	EP2416162-008
					Result	Result	Result	Result	Result
EP075G: Chlorinated Hydrocarbons - Continued									
1.2-Dichlorobenzene	95-50-1	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Hexachloroethane	67-72-1	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Hexachloropropylene	1888-71-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Hexachlorobutadiene	87-68-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Hexachlorocyclopentadiene	77-47-4	2.5	mg/kg		<2.5	<2.5	<2.5	<2.5	<2.5
Pentachlorobenzene	608-93-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Hexachlorobenzene (HCB)	118-74-1	1.0	mg/kg		<1.0	<1.0	<1.0	<1.0	<1.0
EP075H: Anilines and Benzidines									
Aniline	62-53-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
4-Chloroaniline	106-47-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
2-Nitroaniline	88-74-4	1.0	mg/kg		<1.0	<1.0	<1.0	<1.0	<1.0
3-Nitroaniline	99-09-2	1.0	mg/kg		<1.0	<1.0	<1.0	<1.0	<1.0
Dibenzofuran	132-64-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
4-Nitroaniline	100-01-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Carbazole	86-74-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
3.3`-Dichlorobenzidine	91-94-1	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
EP075I: Organochlorine Pesticides									
alpha-BHC	319-84-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
beta-BHC	319-85-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
gamma-BHC - (Lindane)	58-89-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
delta-BHC	319-86-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Heptachlor	76-44-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Aldrin	309-00-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Heptachlor epoxide	1024-57-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
alpha-Endosulfan	959-98-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
4.4`-DDE	72-55-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	S10 0.25	S10 0.50	S10 1.50	S11 0.25	S11 0.50
				Sampling date / time	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00
Compound	CAS Number	LOR	Unit		EP2416162-001	EP2416162-002	EP2416162-004	EP2416162-007	EP2416162-008
					Result	Result	Result	Result	Result
EP075I: Organochlorine Pesticides - Continued									
Dieldrin	60-57-1	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Endrin	72-20-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
beta-Endosulfan	33213-65-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
4.4`-DDD	72-54-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Endosulfan sulfate	1031-07-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
4.4`-DDT	50-29-3	1.0	mg/kg		<1.0	<1.0	<1.0	<1.0	<1.0
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-29-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
EP075J: Organophosphorus Pesticides									
Dichlorvos	62-73-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	60-51-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon	333-41-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Chlorpyrifos-methyl	5598-13-0	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Malathion	121-75-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Fenthion	55-38-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Chlorpyrifos	2921-88-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Pirimphos-ethyl	23505-41-1	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Chlorfenvinphos	470-90-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Prothiofos	34643-46-4	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	563-12-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
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	**170**	<100	**180**	<100
^ C10 - C36 Fraction (sum)	----	50	mg/kg		<50	**170**	<50	**180**	<50

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	S10 0.25	S10 0.50	S10 1.50	S11 0.25	S11 0.50
				Sampling date / time	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00
Compound	CAS Number	LOR	Unit		EP2416162-001	EP2416162-002	EP2416162-004	EP2416162-007	EP2416162-008
					Result	Result	Result	Result	Result
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	**200**	<100	**180**	<100
>C34 - C40 Fraction	----	100	mg/kg		<100	**100**	<100	**270**	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg		<50	**300**	<50	**450**	<50
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg		<50	<50	<50	<50	<50
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of BTEX	----	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
^ Total Xylenes	----	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene	91-20-3	1	mg/kg		<1	<1	<1	<1	<1
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.05	%		**98.2**	**100**	**104**	**96.1**	**101**
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.05	%		**85.9**	**121**	**80.8**	**144**	**144**
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	0.5	%		**73.6**	**88.2**	**87.9**	**87.8**	**85.4**
2-Chlorophenol-D4	93951-73-6	0.5	%		**81.7**	**89.3**	**88.7**	**89.4**	**85.3**
2.4.6-Tribromophenol	118-79-6	0.5	%		**63.8**	**107**	**84.5**	**113**	**85.5**
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	0.5	%		**100**	**104**	**104**	**102**	**101**

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	S10 0.25	S10 0.50	S10 1.50	S11 0.25	S11 0.50
			Sampling date / time	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00
Compound	CAS Number	LOR	Unit	EP2416162-001	EP2416162-002	EP2416162-004	EP2416162-007	EP2416162-008
				Result	Result	Result	Result	Result
EP075(SIM)T: PAH Surrogates - Continued								
Anthracene-d10	1719-06-8	0.5	%	96.0	103	107	104	90.6
4-Terphenyl-d14	1718-51-0	0.5	%	106	109	111	111	98.6
EP075S: Acid Extractable Surrogates								
2-Fluorophenol	367-12-4	0.5	%	63.4	43.4	71.5	64.9	58.1
Phenol-d6	13127-88-3	0.5	%	77.1	80.1	82.7	73.4	79.1
2-Chlorophenol-D4	93951-73-6	0.5	%	66.1	86.0	62.8	64.5	66.9
2.4.6-Tribromophenol	118-79-6	0.5	%	59.6	84.1	59.7	76.4	73.1
EP075T: Base/Neutral Extractable Surrogates								
Nitrobenzene-D5	4165-60-0	0.5	%	58.4	107	65.8	60.9	65.8
1.2-Dichlorobenzene-D4	2199-69-1	0.5	%	61.8	94.3	67.5	63.9	66.3
2-Fluorobiphenyl	321-60-8	0.5	%	66.6	112	67.8	69.5	69.3
Anthracene-d10	1719-06-8	0.5	%	60.1	85.6	62.2	63.8	60.1
4-Terphenyl-d14	1718-51-0	0.5	%	72.0	95.4	69.8	67.5	68.0
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.2	%	90.5	93.9	85.4	90.5	92.2
Toluene-D8	2037-26-5	0.2	%	94.5	100	91.8	96.7	98.0
4-Bromofluorobenzene	460-00-4	0.2	%	90.8	94.5	88.6	92.0	92.5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	S11 1.50	S12 0.25	S12 0.50	S12 1.30	S13 0.25
			Sampling date / time	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00
Compound	CAS Number	LOR	Unit	EP2416162-010	EP2416162-013	EP2416162-014	EP2416162-016	EP2416162-019
				Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	**8.9**	**2.2**	**2.3**	**17.3**	**4.0**
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**	**2**	<1	<1
Chromium	7440-47-3	2	mg/kg	**3**	**11**	**2**	**8**	**16**
Copper	7440-50-8	5	mg/kg	<5	**115**	**39**	**13**	**16**
Lead	7439-92-1	5	mg/kg	**13**	**352**	**27**	**43**	**13**
Nickel	7440-02-0	2	mg/kg	<2	**4**	<2	<2	**4**
Zinc	7440-66-6	5	mg/kg	**37**	**301**	**53**	**187**	**54**
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	<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	<0.05
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<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	<0.05
gamma-BHC - (Lindane)	58-89-9	0.05	mg/kg	<0.05	<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	<0.05
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Aldrin	309-00-2	0.05	mg/kg	<0.05	<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	<0.05
^ Total Chlordane (sum)	----	0.05	mg/kg	<0.05	<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	<0.05
alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<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	<0.05
Dieldrin	60-57-1	0.05	mg/kg	<0.05	**0.06**	**0.10**	**0.15**	**0.05**
4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	<0.05	**0.21**	<0.05
Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	S11 1.50	S12 0.25	S12 0.50	S12 1.30	S13 0.25
				Sampling date / time	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00
Compound	CAS Number	LOR	Unit		EP2416162-010	EP2416162-013	EP2416162-014	EP2416162-016	EP2416162-019
					Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued									
beta-Endosulfan	33213-65-9	0.05	mg/kg		<0.05	<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	<0.05
4.4`-DDD	72-54-8	0.05	mg/kg		<0.05	<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	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDT	50-29-3	0.2	mg/kg		<0.2	<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	<0.05
Methoxychlor	72-43-5	0.2	mg/kg		<0.2	<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	**0.10**	**0.15**	**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	**0.21**	<0.05
EP068B: Organophosphorus Pesticides (OP)									
Dichlorvos	62-73-7	0.05	mg/kg		<0.05	<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	<0.05
Monocrotophos	6923-22-4	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Dimethoate	60-51-5	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Diazinon	333-41-5	0.05	mg/kg		<0.05	<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	<0.05
Parathion-methyl	298-00-0	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	121-75-5	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Fenthion	55-38-9	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos	2921-88-2	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Parathion	56-38-2	0.2	mg/kg		<0.2	<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	<0.05
Chlorfenvinphos	470-90-6	0.05	mg/kg		<0.05	<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	<0.05
Fenamiphos	22224-92-6	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	S11 1.50	S12 0.25	S12 0.50	S12 1.30	S13 0.25
				Sampling date / time	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00
Compound	CAS Number	LOR	Unit		EP2416162-010	EP2416162-013	EP2416162-014	EP2416162-016	EP2416162-019
					Result	Result	Result	Result	Result
EP068B: Organophosphorus Pesticides (OP) - Continued									
Prothiofos	34643-46-4	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Ethion	563-12-2	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Carbophenothion	786-19-6	0.05	mg/kg		<0.05	<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	<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	<0.5	<0.5
Anthracene	120-12-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg		<0.5	<0.5	<0.5	**0.6**	<0.5
Pyrene	129-00-0	0.5	mg/kg		**0.5**	<0.5	<0.5	**0.5**	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Chrysene	218-01-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg		<0.5	<0.5	<0.5	**0.5**	<0.5
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg		**0.5**	<0.5	<0.5	**1.6**	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg		**0.6**	**0.6**	**0.6**	**0.6**	**0.6**
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg		**1.2**	**1.2**	**1.2**	**1.2**	**1.2**
EP075A: Phenolic Compounds									
Phenol	108-95-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	S11 1.50	S12 0.25	S12 0.50	S12 1.30	S13 0.25
				Sampling date / time	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00
Compound	CAS Number	LOR	Unit		EP2416162-010	EP2416162-013	EP2416162-014	EP2416162-016	EP2416162-019
					Result	Result	Result	Result	Result
EP075A: Phenolic Compounds - Continued									
2-Chlorophenol	95-57-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
2-Methylphenol	95-48-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
3- & 4-Methylphenol	1319-77-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
2-Nitrophenol	88-75-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
2.4-Dimethylphenol	105-67-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
2.4-Dichlorophenol	120-83-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
2.6-Dichlorophenol	87-65-0	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
2.4.6-Trichlorophenol	88-06-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
2.4.5-Trichlorophenol	95-95-4	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Pentachlorophenol	87-86-5	1	mg/kg		<1	<1	<1	<1	<1
EP075B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
2-Methylnaphthalene	91-57-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
2-Chloronaphthalene	91-58-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene	83-32-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	85-01-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Anthracene	120-12-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	129-00-0	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
N-2-Fluorenyl Acetamide	53-96-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Chrysene	218-01-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1	mg/kg		<1	<1	<1	<1	<1

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	S11 1.50	S12 0.25	S12 0.50	S12 1.30	S13 0.25
				Sampling date / time	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00
Compound	CAS Number	LOR	Unit		EP2416162-010	EP2416162-013	EP2416162-014	EP2416162-016	EP2416162-019
					Result	Result	Result	Result	Result
EP075B: Polynuclear Aromatic Hydrocarbons - Continued									
7.12-Dimethylbenz(a)anthracene	57-97-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
3-Methylcholanthrene	56-49-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of PAHs	----	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg		**0.6**	**0.6**	**0.6**	**0.6**	**0.6**
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg		**1.2**	**1.2**	**1.2**	**1.2**	**1.2**
EP075C: Phthalate Esters									
Dimethyl phthalate	131-11-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Diethyl phthalate	84-66-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Di-n-butyl phthalate	84-74-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Butyl benzyl phthalate	85-68-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
bis(2-ethylhexyl) phthalate	117-81-7	5.0	mg/kg		<5.0	<5.0	<5.0	<5.0	<5.0
Di-n-octylphthalate	117-84-0	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
EP075D: Nitrosamines									
N-Nitrosomethylethylamine	10595-95-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
N-Nitrosodiethylamine	55-18-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
N-Nitrosopyrrolidine	930-55-2	1.0	mg/kg		<1.0	<1.0	<1.0	<1.0	<1.0
N-Nitrosomorpholine	59-89-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
N-Nitrosodi-n-propylamine	621-64-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
N-Nitrosopiperidine	100-75-4	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
N-Nitrosodibutylamine	924-16-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
N-Nitrosodiphenyl & Diphenylamine	86-30-6 122-39-4	1.0	mg/kg		<1.0	<1.0	<1.0	<1.0	<1.0

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	S11 1.50	S12 0.25	S12 0.50	S12 1.30	S13 0.25
				Sampling date / time	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00
Compound	CAS Number	LOR	Unit		EP2416162-010	EP2416162-013	EP2416162-014	EP2416162-016	EP2416162-019
					Result	Result	Result	Result	Result
EP075D: Nitrosamines - Continued									
Methapyrilene	91-80-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
EP075E: Nitroaromatics and Ketones									
2-Picoline	109-06-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Acetophenone	98-86-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Nitrobenzene	98-95-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Isophorone	78-59-1	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
2.6-Dinitrotoluene	606-20-2	1.0	mg/kg		<1.0	<1.0	<1.0	<1.0	<1.0
2.4-Dinitrotoluene	121-14-2	1.0	mg/kg		<1.0	<1.0	<1.0	<1.0	<1.0
1-Naphthylamine	134-32-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
4-Nitroquinoline-N-oxide	56-57-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
5-Nitro-o-toluidine	99-55-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Azobenzene	103-33-3	1	mg/kg		<1	<1	<1	<1	<1
1.3.5-Trinitrobenzene	99-35-4	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Phenacetin	62-44-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
4-Aminobiphenyl	92-67-1	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Pentachloronitrobenzene	82-68-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Pronamide	23950-58-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Dimethylaminoazobenzene	60-11-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Chlorobenzilate	510-15-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
EP075F: Haloethers									
Bis(2-chloroethyl) ether	111-44-4	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethoxy) methane	111-91-1	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
4-Chlorophenyl phenyl ether	7005-72-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
4-Bromophenyl phenyl ether	101-55-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
EP075G: Chlorinated Hydrocarbons									
1.3-Dichlorobenzene	541-73-1	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
1.4-Dichlorobenzene	106-46-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	S11 1.50	S12 0.25	S12 0.50	S12 1.30	S13 0.25
				Sampling date / time	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00
Compound	CAS Number	LOR	Unit		EP2416162-010	EP2416162-013	EP2416162-014	EP2416162-016	EP2416162-019
					Result	Result	Result	Result	Result
EP075G: Chlorinated Hydrocarbons - Continued									
1.2-Dichlorobenzene	95-50-1	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Hexachloroethane	67-72-1	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Hexachloropropylene	1888-71-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Hexachlorobutadiene	87-68-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Hexachlorocyclopentadiene	77-47-4	2.5	mg/kg		<2.5	<2.5	<2.5	<2.5	<2.5
Pentachlorobenzene	608-93-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Hexachlorobenzene (HCB)	118-74-1	1.0	mg/kg		<1.0	<1.0	<1.0	<1.0	<1.0
EP075H: Anilines and Benzidines									
Aniline	62-53-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
4-Chloroaniline	106-47-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
2-Nitroaniline	88-74-4	1.0	mg/kg		<1.0	<1.0	<1.0	<1.0	<1.0
3-Nitroaniline	99-09-2	1.0	mg/kg		<1.0	<1.0	<1.0	<1.0	<1.0
Dibenzofuran	132-64-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
4-Nitroaniline	100-01-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Carbazole	86-74-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
3.3`-Dichlorobenzidine	91-94-1	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
EP075I: Organochlorine Pesticides									
alpha-BHC	319-84-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
beta-BHC	319-85-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
gamma-BHC - (Lindane)	58-89-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
delta-BHC	319-86-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Heptachlor	76-44-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Aldrin	309-00-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Heptachlor epoxide	1024-57-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
alpha-Endosulfan	959-98-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
4.4`-DDE	72-55-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	S11 1.50	S12 0.25	S12 0.50	S12 1.30	S13 0.25
				Sampling date / time	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00
Compound	CAS Number	LOR	Unit		EP2416162-010	EP2416162-013	EP2416162-014	EP2416162-016	EP2416162-019
					Result	Result	Result	Result	Result
EP075I: Organochlorine Pesticides - Continued									
Dieldrin	60-57-1	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Endrin	72-20-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
beta-Endosulfan	33213-65-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
4.4`-DDD	72-54-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Endosulfan sulfate	1031-07-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
4.4`-DDT	50-29-3	1.0	mg/kg		<1.0	<1.0	<1.0	<1.0	<1.0
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-29-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
EP075J: Organophosphorus Pesticides									
Dichlorvos	62-73-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	60-51-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon	333-41-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Chlorpyrifos-methyl	5598-13-0	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Malathion	121-75-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Fenthion	55-38-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Chlorpyrifos	2921-88-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Pirimphos-ethyl	23505-41-1	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Chlorfenvinphos	470-90-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Prothiofos	34643-46-4	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	563-12-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
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	**160**	<100	<100	<100
C29 - C36 Fraction	----	100	mg/kg		<100	**260**	<100	<100	<100
^ C10 - C36 Fraction (sum)	----	50	mg/kg		<50	**420**	<50	<50	<50

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	S11 1.50	S12 0.25	S12 0.50	S12 1.30	S13 0.25
				Sampling date / time	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00
Compound	CAS Number	LOR	Unit		EP2416162-010	EP2416162-013	EP2416162-014	EP2416162-016	EP2416162-019
					Result	Result	Result	Result	Result
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	**320**	<100	<100	<100
>C34 - C40 Fraction	----	100	mg/kg		<100	**380**	<100	<100	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg		<50	**700**	<50	<50	<50
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg		<50	<50	<50	<50	<50
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of BTEX	----	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
^ Total Xylenes	----	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene	91-20-3	1	mg/kg		<1	<1	<1	<1	<1
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.05	%		**115**	**99.1**	**107**	**102**	**116**
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.05	%		**75.2**	**129**	**145**	**150**	**130**
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	0.5	%		**86.6**	**92.9**	**88.3**	**87.2**	**85.7**
2-Chlorophenol-D4	93951-73-6	0.5	%		**87.7**	**92.6**	**87.9**	**89.4**	**87.2**
2.4.6-Tribromophenol	118-79-6	0.5	%		**90.8**	**107**	**82.7**	**113**	**47.8**
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	0.5	%		**104**	**105**	**104**	**104**	**101**

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	S11 1.50	S12 0.25	S12 0.50	S12 1.30	S13 0.25
			Sampling date / time	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00
Compound	CAS Number	LOR	Unit	EP2416162-010	EP2416162-013	EP2416162-014	EP2416162-016	EP2416162-019
				Result	Result	Result	Result	Result
EP075(SIM)T: PAH Surrogates - Continued								
Anthracene-d10	1719-06-8	0.5	%	107	107	107	106	103
4-Terphenyl-d14	1718-51-0	0.5	%	114	113	112	112	109
EP075S: Acid Extractable Surrogates								
2-Fluorophenol	367-12-4	0.5	%	62.5	64.9	63.4	59.8	59.6
Phenol-d6	13127-88-3	0.5	%	79.6	76.7	81.9	81.6	79.3
2-Chlorophenol-D4	93951-73-6	0.5	%	67.0	62.4	63.8	63.2	67.5
2.4.6-Tribromophenol	118-79-6	0.5	%	68.8	79.0	70.9	70.4	42.1
EP075T: Base/Neutral Extractable Surrogates								
Nitrobenzene-D5	4165-60-0	0.5	%	64.7	67.1	64.1	63.2	61.3
1.2-Dichlorobenzene-D4	2199-69-1	0.5	%	63.3	65.5	64.4	65.1	65.5
2-Fluorobiphenyl	321-60-8	0.5	%	70.6	68.8	73.9	72.8	72.7
Anthracene-d10	1719-06-8	0.5	%	64.4	63.2	65.3	63.8	64.5
4-Terphenyl-d14	1718-51-0	0.5	%	71.8	71.4	74.5	70.1	74.4
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.2	%	89.7	95.5	92.2	87.9	89.2
Toluene-D8	2037-26-5	0.2	%	92.2	97.9	102	94.1	95.4
4-Bromofluorobenzene	460-00-4	0.2	%	88.8	95.8	97.1	88.8	91.5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	S13 0.50	S13 1.50	S14 0.00	S14 0.50	S14 1.80
			Sampling date / time	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00
Compound	CAS Number	LOR	Unit	EP2416162-020	EP2416162-022	EP2416162-025	EP2416162-026	EP2416162-029
				Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	**1.8**	**22.5**	**3.1**	**1.5**	**14.6**
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	**6**	**3**	<2	**2**	<2
Copper	7440-50-8	5	mg/kg	**55**	**8**	**6**	**6**	<5
Lead	7439-92-1	5	mg/kg	**152**	**40**	**27**	**28**	<5
Nickel	7440-02-0	2	mg/kg	**3**	<2	<2	<2	<2
Zinc	7440-66-6	5	mg/kg	**79**	**101**	**37**	**38**	**14**
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	<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	<0.05
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<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	<0.05
gamma-BHC - (Lindane)	58-89-9	0.05	mg/kg	<0.05	<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	<0.05
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Aldrin	309-00-2	0.05	mg/kg	<0.05	<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	<0.05
^ Total Chlordane (sum)	----	0.05	mg/kg	<0.05	<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	<0.05
alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<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	<0.05
Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	**0.06**	<0.05	<0.05
4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	S13 0.50	S13 1.50	S14 0.00	S14 0.50	S14 1.80
				Sampling date / time	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00
Compound	CAS Number	LOR	Unit		EP2416162-020	EP2416162-022	EP2416162-025	EP2416162-026	EP2416162-029
					Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued									
beta-Endosulfan	33213-65-9	0.05	mg/kg		<0.05	<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	<0.05
4.4`-DDD	72-54-8	0.05	mg/kg		<0.05	<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	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDT	50-29-3	0.2	mg/kg		<0.2	<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	<0.05
Methoxychlor	72-43-5	0.2	mg/kg		<0.2	<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	**0.06**	<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	<0.05
EP068B: Organophosphorus Pesticides (OP)									
Dichlorvos	62-73-7	0.05	mg/kg		<0.05	<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	<0.05
Monocrotophos	6923-22-4	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Dimethoate	60-51-5	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Diazinon	333-41-5	0.05	mg/kg		<0.05	<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	<0.05
Parathion-methyl	298-00-0	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	121-75-5	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Fenthion	55-38-9	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos	2921-88-2	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Parathion	56-38-2	0.2	mg/kg		<0.2	<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	<0.05
Chlorfenvinphos	470-90-6	0.05	mg/kg		<0.05	<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	<0.05
Fenamiphos	22224-92-6	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	S13 0.50	S13 1.50	S14 0.00	S14 0.50	S14 1.80
				Sampling date / time	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00
Compound	CAS Number	LOR	Unit		EP2416162-020	EP2416162-022	EP2416162-025	EP2416162-026	EP2416162-029
					Result	Result	Result	Result	Result
EP068B: Organophosphorus Pesticides (OP) - Continued									
Prothiofos	34643-46-4	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Ethion	563-12-2	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Carbophenothion	786-19-6	0.05	mg/kg		<0.05	<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	<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		1.6	<0.5	<0.5	<0.5	<0.5
Anthracene	120-12-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg		2.2	<0.5	<0.5	<0.5	<0.5
Pyrene	129-00-0	0.5	mg/kg		2.3	<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg		1.1	<0.5	<0.5	<0.5	<0.5
Chrysene	218-01-9	0.5	mg/kg		1.0	<0.5	<0.5	<0.5	<0.5
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg		1.2	<0.5	<0.5	<0.5	<0.5
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg		0.6	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg		1.1	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg		0.6	<0.5	<0.5	<0.5	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg		0.8	<0.5	<0.5	<0.5	<0.5
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg		12.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg		1.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg		1.7	0.6	0.6	0.6	0.6
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg		2.0	1.2	1.2	1.2	1.2
EP075A: Phenolic Compounds									
Phenol	108-95-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	S13 0.50	S13 1.50	S14 0.00	S14 0.50	S14 1.80
				Sampling date / time	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00
Compound	CAS Number	LOR	Unit		EP2416162-020	EP2416162-022	EP2416162-025	EP2416162-026	EP2416162-029
					Result	Result	Result	Result	Result
EP075A: Phenolic Compounds - Continued									
2-Chlorophenol	95-57-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
2-Methylphenol	95-48-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
3- & 4-Methylphenol	1319-77-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
2-Nitrophenol	88-75-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
2.4-Dimethylphenol	105-67-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
2.4-Dichlorophenol	120-83-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
2.6-Dichlorophenol	87-65-0	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
2.4.6-Trichlorophenol	88-06-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
2.4.5-Trichlorophenol	95-95-4	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Pentachlorophenol	87-86-5	1	mg/kg		<1	<1	<1	<1	<1
EP075B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
2-Methylnaphthalene	91-57-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
2-Chloronaphthalene	91-58-7	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		1.4	<0.5	<0.5	<0.5	<0.5
Anthracene	120-12-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg		2.1	<0.5	<0.5	<0.5	<0.5
Pyrene	129-00-0	0.5	mg/kg		2.2	<0.5	<0.5	<0.5	<0.5
N-2-Fluorenyl Acetamide	53-96-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg		0.9	<0.5	<0.5	<0.5	<0.5
Chrysene	218-01-9	0.5	mg/kg		1.0	<0.5	<0.5	<0.5	<0.5
Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1	mg/kg		1	<1	<1	<1	<1

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	S13 0.50	S13 1.50	S14 0.00	S14 0.50	S14 1.80
				Sampling date / time	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00
Compound	CAS Number	LOR	Unit		EP2416162-020	EP2416162-022	EP2416162-025	EP2416162-026	EP2416162-029
					Result	Result	Result	Result	Result
EP075B: Polynuclear Aromatic Hydrocarbons - Continued									
7.12-Dimethylbenz(a)anthracene	57-97-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg		**0.8**	<0.5	<0.5	<0.5	<0.5
3-Methylcholanthrene	56-49-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg		**0.6**	<0.5	<0.5	<0.5	<0.5
^ Sum of PAHs	----	0.5	mg/kg		**10.0**	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg		**1.0**	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg		**1.3**	**0.6**	**0.6**	**0.6**	**0.6**
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg		**1.6**	**1.2**	**1.2**	**1.2**	**1.2**
EP075C: Phthalate Esters									
Dimethyl phthalate	131-11-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Diethyl phthalate	84-66-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Di-n-butyl phthalate	84-74-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Butyl benzyl phthalate	85-68-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
bis(2-ethylhexyl) phthalate	117-81-7	5.0	mg/kg		<5.0	<5.0	<5.0	<5.0	<5.0
Di-n-octylphthalate	117-84-0	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
EP075D: Nitrosamines									
N-Nitrosomethylethylamine	10595-95-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
N-Nitrosodiethylamine	55-18-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
N-Nitrosopyrrolidine	930-55-2	1.0	mg/kg		<1.0	<1.0	<1.0	<1.0	<1.0
N-Nitrosomorpholine	59-89-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
N-Nitrosodi-n-propylamine	621-64-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
N-Nitrosopiperidine	100-75-4	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
N-Nitrosodibutylamine	924-16-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
N-Nitrosodiphenyl & Diphenylamine	86-30-6 122-39-4	1.0	mg/kg		<1.0	<1.0	<1.0	<1.0	<1.0

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	S13 0.50	S13 1.50	S14 0.00	S14 0.50	S14 1.80
				Sampling date / time	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00
Compound	CAS Number	LOR	Unit		EP2416162-020	EP2416162-022	EP2416162-025	EP2416162-026	EP2416162-029
					Result	Result	Result	Result	Result
EP075D: Nitrosamines - Continued									
Methapyrilene	91-80-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
EP075E: Nitroaromatics and Ketones									
2-Picoline	109-06-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Acetophenone	98-86-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Nitrobenzene	98-95-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Isophorone	78-59-1	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
2.6-Dinitrotoluene	606-20-2	1.0	mg/kg		<1.0	<1.0	<1.0	<1.0	<1.0
2.4-Dinitrotoluene	121-14-2	1.0	mg/kg		<1.0	<1.0	<1.0	<1.0	<1.0
1-Naphthylamine	134-32-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
4-Nitroquinoline-N-oxide	56-57-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
5-Nitro-o-toluidine	99-55-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Azobenzene	103-33-3	1	mg/kg		<1	<1	<1	<1	<1
1.3.5-Trinitrobenzene	99-35-4	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Phenacetin	62-44-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
4-Aminobiphenyl	92-67-1	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Pentachloronitrobenzene	82-68-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Pronamide	23950-58-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Dimethylaminoazobenzene	60-11-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Chlorobenzilate	510-15-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
EP075F: Haloethers									
Bis(2-chloroethyl) ether	111-44-4	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethoxy) methane	111-91-1	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
4-Chlorophenyl phenyl ether	7005-72-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
4-Bromophenyl phenyl ether	101-55-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
EP075G: Chlorinated Hydrocarbons									
1.3-Dichlorobenzene	541-73-1	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
1.4-Dichlorobenzene	106-46-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	S13 0.50	S13 1.50	S14 0.00	S14 0.50	S14 1.80
			Sampling date / time	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00
Compound	CAS Number	LOR	Unit	EP2416162-020	EP2416162-022	EP2416162-025	EP2416162-026	EP2416162-029
				Result	Result	Result	Result	Result
EP075G: Chlorinated Hydrocarbons - Continued								
1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Hexachloroethane	67-72-1	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Hexachloropropylene	1888-71-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Hexachlorobutadiene	87-68-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Hexachlorocyclopentadiene	77-47-4	2.5	mg/kg	<2.5	<2.5	<2.5	<2.5	<2.5
Pentachlorobenzene	608-93-5	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Hexachlorobenzene (HCB)	118-74-1	1.0	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
EP075H: Anilines and Benzidines								
Aniline	62-53-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
4-Chloroaniline	106-47-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
2-Nitroaniline	88-74-4	1.0	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
3-Nitroaniline	99-09-2	1.0	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Dibenzofuran	132-64-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
4-Nitroaniline	100-01-6	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Carbazole	86-74-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
3.3`-Dichlorobenzidine	91-94-1	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
EP075I: Organochlorine Pesticides								
alpha-BHC	319-84-6	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
beta-BHC	319-85-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
gamma-BHC - (Lindane)	58-89-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
delta-BHC	319-86-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Heptachlor	76-44-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Aldrin	309-00-2	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Heptachlor epoxide	1024-57-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
alpha-Endosulfan	959-98-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
4.4`-DDE	72-55-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	S13 0.50	S13 1.50	S14 0.00	S14 0.50	S14 1.80
				Sampling date / time	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00
Compound	CAS Number	LOR	Unit		EP2416162-020	EP2416162-022	EP2416162-025	EP2416162-026	EP2416162-029
					Result	Result	Result	Result	Result
EP075I: Organochlorine Pesticides - Continued									
Dieldrin	60-57-1	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Endrin	72-20-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
beta-Endosulfan	33213-65-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
4.4`-DDD	72-54-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Endosulfan sulfate	1031-07-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
4.4`-DDT	50-29-3	1.0	mg/kg		<1.0	<1.0	<1.0	<1.0	<1.0
^ **Sum of DDD + DDE + DDT**	72-54-8/72-55-9/50-29-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
^ **Sum of Aldrin + Dieldrin**	309-00-2/60-57-1	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
EP075J: Organophosphorus Pesticides									
Dichlorvos	62-73-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	60-51-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon	333-41-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Chlorpyrifos-methyl	5598-13-0	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Malathion	121-75-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Fenthion	55-38-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Chlorpyrifos	2921-88-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Pirimphos-ethyl	23505-41-1	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Chlorfenvinphos	470-90-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Prothiofos	34643-46-4	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	563-12-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
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		**150**	<100	<100	<100	<100
^ **C10 - C36 Fraction (sum)**	----	50	mg/kg		**150**	<50	<50	<50	<50

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	S13 0.50	S13 1.50	S14 0.00	S14 0.50	S14 1.80
				Sampling date / time	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00
Compound	CAS Number	LOR	Unit		EP2416162-020	EP2416162-022	EP2416162-025	EP2416162-026	EP2416162-029
					Result	Result	Result	Result	Result
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		180	<100	<100	<100	<100
>C34 - C40 Fraction	----	100	mg/kg		160	<100	<100	<100	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg		340	<50	<50	<50	<50
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg		<50	<50	<50	<50	<50
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of BTEX	----	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
^ Total Xylenes	----	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene	91-20-3	1	mg/kg		<1	<1	<1	<1	<1
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.05	%		102	103	96.5	93.3	102
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.05	%		129	75.1	141	73.0	73.2
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	0.5	%		92.2	84.7	86.8	88.6	90.6
2-Chlorophenol-D4	93951-73-6	0.5	%		91.7	87.1	88.5	86.5	93.4
2.4.6-Tribromophenol	118-79-6	0.5	%		104	106	92.1	79.3	84.4
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	0.5	%		104	101	103	102	110

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	S13 0.50	S13 1.50	S14 0.00	S14 0.50	S14 1.80
			Sampling date / time	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00
Compound	CAS Number	LOR	Unit	EP2416162-020	EP2416162-022	EP2416162-025	EP2416162-026	EP2416162-029
				Result	Result	Result	Result	Result
EP075(SIM)T: PAH Surrogates - Continued								
Anthracene-d10	1719-06-8	0.5	%	102	105	106	105	116
4-Terphenyl-d14	1718-51-0	0.5	%	107	110	114	113	123
EP075S: Acid Extractable Surrogates								
2-Fluorophenol	367-12-4	0.5	%	66.9	65.3	66.4	72.8	59.6
Phenol-d6	13127-88-3	0.5	%	80.5	82.8	84.7	87.4	73.8
2-Chlorophenol-D4	93951-73-6	0.5	%	65.8	65.4	65.9	69.4	64.0
2.4.6-Tribromophenol	118-79-6	0.5	%	78.2	64.4	58.1	66.0	66.7
EP075T: Base/Neutral Extractable Surrogates								
Nitrobenzene-D5	4165-60-0	0.5	%	64.0	58.0	60.5	66.2	57.5
1.2-Dichlorobenzene-D4	2199-69-1	0.5	%	64.7	63.0	64.8	67.7	63.6
2-Fluorobiphenyl	321-60-8	0.5	%	68.3	70.0	71.4	72.8	69.8
Anthracene-d10	1719-06-8	0.5	%	64.2	62.4	65.4	66.6	64.6
4-Terphenyl-d14	1718-51-0	0.5	%	71.4	69.3	71.1	69.3	74.7
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.2	%	90.9	84.9	91.7	92.0	85.0
Toluene-D8	2037-26-5	0.2	%	89.9	85.0	99.1	100	89.0
4-Bromofluorobenzene	460-00-4	0.2	%	91.2	85.1	97.7	95.0	86.3

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	S15 0.00	S15 0.50	S15 1.70	S16 0.00	S16 0.50
			Sampling date / time	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00
Compound	CAS Number	LOR	Unit	EP2416162-032	EP2416162-033	EP2416162-035	EP2416162-038	EP2416162-039
				Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	**5.1**	**2.4**	**14.7**	<1.0	**2.1**
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	<2	**3**	<2	**3**	**3**
Copper	7440-50-8	5	mg/kg	**6**	**10**	<5	**11**	**7**
Lead	7439-92-1	5	mg/kg	**14**	**20**	<5	**51**	**24**
Nickel	7440-02-0	2	mg/kg	<2	**4**	<2	<2	<2
Zinc	7440-66-6	5	mg/kg	**48**	**32**	**5**	**68**	**78**
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	<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	<0.05
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<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	<0.05
gamma-BHC - (Lindane)	58-89-9	0.05	mg/kg	<0.05	<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	<0.05
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Aldrin	309-00-2	0.05	mg/kg	<0.05	<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	<0.05
^ Total Chlordane (sum)	----	0.05	mg/kg	<0.05	<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	<0.05
alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<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	<0.05
Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	**0.06**	**0.08**
4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	S15 0.00	S15 0.50	S15 1.70	S16 0.00	S16 0.50
				Sampling date / time	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00
Compound	CAS Number	LOR	Unit		EP2416162-032	EP2416162-033	EP2416162-035	EP2416162-038	EP2416162-039
					Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued									
beta-Endosulfan	33213-65-9	0.05	mg/kg		<0.05	<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	<0.05
4.4`-DDD	72-54-8	0.05	mg/kg		<0.05	<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	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDT	50-29-3	0.2	mg/kg		<0.2	<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	<0.05
Methoxychlor	72-43-5	0.2	mg/kg		<0.2	<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	**0.06**	**0.08**
^ **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	<0.05
EP068B: Organophosphorus Pesticides (OP)									
Dichlorvos	62-73-7	0.05	mg/kg		<0.05	<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	<0.05
Monocrotophos	6923-22-4	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Dimethoate	60-51-5	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Diazinon	333-41-5	0.05	mg/kg		<0.05	<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	<0.05
Parathion-methyl	298-00-0	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	121-75-5	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Fenthion	55-38-9	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos	2921-88-2	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Parathion	56-38-2	0.2	mg/kg		<0.2	<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	<0.05
Chlorfenvinphos	470-90-6	0.05	mg/kg		<0.05	<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	<0.05
Fenamiphos	22224-92-6	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	S15 0.00	S15 0.50	S15 1.70	S16 0.00	S16 0.50
				Sampling date / time	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00
Compound	CAS Number	LOR	Unit		EP2416162-032	EP2416162-033	EP2416162-035	EP2416162-038	EP2416162-039
					Result	Result	Result	Result	Result
EP068B: Organophosphorus Pesticides (OP) - Continued									
Prothiofos	34643-46-4	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Ethion	563-12-2	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Carbophenothion	786-19-6	0.05	mg/kg		<0.05	<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	<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	**0.6**	<0.5	<0.5	<0.5
Anthracene	120-12-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg		**1.0**	**2.1**	<0.5	<0.5	<0.5
Pyrene	129-00-0	0.5	mg/kg		**1.0**	**2.1**	<0.5	<0.5	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg		**0.7**	**1.2**	<0.5	<0.5	<0.5
Chrysene	218-01-9	0.5	mg/kg		**0.6**	**1.1**	<0.5	<0.5	<0.5
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg		**1.0**	**1.7**	<0.5	<0.5	<0.5
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg		<0.5	**0.8**	<0.5	<0.5	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg		**0.9**	**1.5**	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg		<0.5	**0.7**	<0.5	<0.5	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg		**0.6**	**0.9**	<0.5	<0.5	<0.5
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg		**5.8**	**12.7**	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg		**1.1**	**2.0**	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg		**1.4**	**2.2**	**0.6**	**0.6**	**0.6**
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg		**1.7**	**2.5**	**1.2**	**1.2**	**1.2**
EP075A: Phenolic Compounds									
Phenol	108-95-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	S15 0.00	S15 0.50	S15 1.70	S16 0.00	S16 0.50
				Sampling date / time	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00
Compound	CAS Number	LOR	Unit		EP2416162-032	EP2416162-033	EP2416162-035	EP2416162-038	EP2416162-039
					Result	Result	Result	Result	Result
EP075A: Phenolic Compounds - Continued									
2-Chlorophenol	95-57-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
2-Methylphenol	95-48-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
3- & 4-Methylphenol	1319-77-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
2-Nitrophenol	88-75-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
2.4-Dimethylphenol	105-67-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
2.4-Dichlorophenol	120-83-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
2.6-Dichlorophenol	87-65-0	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
2.4.6-Trichlorophenol	88-06-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
2.4.5-Trichlorophenol	95-95-4	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Pentachlorophenol	87-86-5	1	mg/kg		<1	<1	<1	<1	<1
EP075B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
2-Methylnaphthalene	91-57-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
2-Chloronaphthalene	91-58-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene	83-32-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	85-01-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Anthracene	120-12-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg		**0.8**	**1.7**	<0.5	<0.5	<0.5
Pyrene	129-00-0	0.5	mg/kg		**0.8**	**1.7**	<0.5	<0.5	<0.5
N-2-Fluorenyl Acetamide	53-96-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg		<0.5	**0.8**	<0.5	<0.5	<0.5
Chrysene	218-01-9	0.5	mg/kg		**0.6**	**0.9**	<0.5	<0.5	<0.5
Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1	mg/kg		**1**	**2**	<1	<1	<1

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	S15 0.00	S15 0.50	S15 1.70	S16 0.00	S16 0.50
				Sampling date / time	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00
Compound	CAS Number	LOR	Unit		EP2416162-032	EP2416162-033	EP2416162-035	EP2416162-038	EP2416162-039
					Result	Result	Result	Result	Result
EP075B: Polynuclear Aromatic Hydrocarbons - Continued									
7.12-Dimethylbenz(a)anthracene	57-97-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg		**0.7**	**1.2**	<0.5	<0.5	<0.5
3-Methylcholanthrene	56-49-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg		<0.5	**0.5**	<0.5	<0.5	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg		<0.5	**0.8**	<0.5	<0.5	<0.5
^ Sum of PAHs	----	0.5	mg/kg		**3.9**	**9.6**	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg		**0.8**	**1.5**	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg		**1.1**	**1.8**	**0.6**	**0.6**	**0.6**
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg		**1.4**	**2.0**	**1.2**	**1.2**	**1.2**
EP075C: Phthalate Esters									
Dimethyl phthalate	131-11-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Diethyl phthalate	84-66-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Di-n-butyl phthalate	84-74-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Butyl benzyl phthalate	85-68-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
bis(2-ethylhexyl) phthalate	117-81-7	5.0	mg/kg		<5.0	<5.0	<5.0	<5.0	<5.0
Di-n-octylphthalate	117-84-0	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
EP075D: Nitrosamines									
N-Nitrosomethylethylamine	10595-95-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
N-Nitrosodiethylamine	55-18-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
N-Nitrosopyrrolidine	930-55-2	1.0	mg/kg		<1.0	<1.0	<1.0	<1.0	<1.0
N-Nitrosomorpholine	59-89-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
N-Nitrosodi-n-propylamine	621-64-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
N-Nitrosopiperidine	100-75-4	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
N-Nitrosodibutylamine	924-16-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
N-Nitrosodiphenyl & Diphenylamine	86-30-6 122-39-4	1.0	mg/kg		<1.0	<1.0	<1.0	<1.0	<1.0

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	S15 0.00	S15 0.50	S15 1.70	S16 0.00	S16 0.50
				Sampling date / time	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00
Compound	CAS Number	LOR	Unit		EP2416162-032	EP2416162-033	EP2416162-035	EP2416162-038	EP2416162-039
					Result	Result	Result	Result	Result
EP075D: Nitrosamines - Continued									
Methapyrilene	91-80-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
EP075E: Nitroaromatics and Ketones									
2-Picoline	109-06-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Acetophenone	98-86-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Nitrobenzene	98-95-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Isophorone	78-59-1	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
2.6-Dinitrotoluene	606-20-2	1.0	mg/kg		<1.0	<1.0	<1.0	<1.0	<1.0
2.4-Dinitrotoluene	121-14-2	1.0	mg/kg		<1.0	<1.0	<1.0	<1.0	<1.0
1-Naphthylamine	134-32-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
4-Nitroquinoline-N-oxide	56-57-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
5-Nitro-o-toluidine	99-55-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Azobenzene	103-33-3	1	mg/kg		<1	<1	<1	<1	<1
1.3.5-Trinitrobenzene	99-35-4	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Phenacetin	62-44-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
4-Aminobiphenyl	92-67-1	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Pentachloronitrobenzene	82-68-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Pronamide	23950-58-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Dimethylaminoazobenzene	60-11-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Chlorobenzilate	510-15-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
EP075F: Haloethers									
Bis(2-chloroethyl) ether	111-44-4	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethoxy) methane	111-91-1	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
4-Chlorophenyl phenyl ether	7005-72-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
4-Bromophenyl phenyl ether	101-55-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
EP075G: Chlorinated Hydrocarbons									
1.3-Dichlorobenzene	541-73-1	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
1.4-Dichlorobenzene	106-46-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	S15 0.00	S15 0.50	S15 1.70	S16 0.00	S16 0.50
				Sampling date / time	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00
Compound	CAS Number	LOR	Unit		EP2416162-032	EP2416162-033	EP2416162-035	EP2416162-038	EP2416162-039
					Result	Result	Result	Result	Result
EP075G: Chlorinated Hydrocarbons - Continued									
1.2-Dichlorobenzene	95-50-1	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Hexachloroethane	67-72-1	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Hexachloropropylene	1888-71-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Hexachlorobutadiene	87-68-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Hexachlorocyclopentadiene	77-47-4	2.5	mg/kg		<2.5	<2.5	<2.5	<2.5	<2.5
Pentachlorobenzene	608-93-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Hexachlorobenzene (HCB)	118-74-1	1.0	mg/kg		<1.0	<1.0	<1.0	<1.0	<1.0
EP075H: Anilines and Benzidines									
Aniline	62-53-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
4-Chloroaniline	106-47-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
2-Nitroaniline	88-74-4	1.0	mg/kg		<1.0	<1.0	<1.0	<1.0	<1.0
3-Nitroaniline	99-09-2	1.0	mg/kg		<1.0	<1.0	<1.0	<1.0	<1.0
Dibenzofuran	132-64-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
4-Nitroaniline	100-01-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Carbazole	86-74-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
3.3`-Dichlorobenzidine	91-94-1	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
EP075I: Organochlorine Pesticides									
alpha-BHC	319-84-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
beta-BHC	319-85-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
gamma-BHC - (Lindane)	58-89-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
delta-BHC	319-86-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Heptachlor	76-44-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Aldrin	309-00-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Heptachlor epoxide	1024-57-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
alpha-Endosulfan	959-98-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
4.4`-DDE	72-55-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	S15 0.00	S15 0.50	S15 1.70	S16 0.00	S16 0.50
				Sampling date / time	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00
Compound	CAS Number	LOR	Unit		EP2416162-032	EP2416162-033	EP2416162-035	EP2416162-038	EP2416162-039
					Result	Result	Result	Result	Result
EP075I: Organochlorine Pesticides - Continued									
Dieldrin	60-57-1	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Endrin	72-20-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
beta-Endosulfan	33213-65-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
4.4`-DDD	72-54-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Endosulfan sulfate	1031-07-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
4.4`-DDT	50-29-3	1.0	mg/kg		<1.0	<1.0	<1.0	<1.0	<1.0
^ **Sum of DDD + DDE + DDT**	72-54-8/72-55-9/50-29-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
^ **Sum of Aldrin + Dieldrin**	309-00-2/60-57-1	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
EP075J: Organophosphorus Pesticides									
Dichlorvos	62-73-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	60-51-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon	333-41-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Chlorpyrifos-methyl	5598-13-0	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Malathion	121-75-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Fenthion	55-38-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Chlorpyrifos	2921-88-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Pirimphos-ethyl	23505-41-1	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Chlorfenvinphos	470-90-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Prothiofos	34643-46-4	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	563-12-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
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

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	S15 0.00	S15 0.50	S15 1.70	S16 0.00	S16 0.50
				Sampling date / time	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00
Compound	CAS Number	LOR	Unit		EP2416162-032	EP2416162-033	EP2416162-035	EP2416162-038	EP2416162-039
					Result	Result	Result	Result	Result
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	**110**	<100	<100	<100
>C34 - C40 Fraction	----	100	mg/kg		<100	<100	<100	<100	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg		<50	**110**	<50	<50	<50
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg		<50	<50	<50	<50	<50
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of BTEX	----	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
^ Total Xylenes	----	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene	91-20-3	1	mg/kg		<1	<1	<1	<1	<1
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.05	%		**104**	**104**	**91.6**	**80.0**	**78.0**
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.05	%		**75.0**	**73.7**	**71.3**	**102**	**136**
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	0.5	%		**87.2**	**70.6**	**87.6**	**82.1**	**88.5**
2-Chlorophenol-D4	93951-73-6	0.5	%		**90.0**	**68.6**	**87.9**	**89.1**	**97.2**
2.4.6-Tribromophenol	118-79-6	0.5	%		**104**	**74.5**	**74.7**	**59.3**	**72.0**
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	0.5	%		**106**	**106**	**105**	**95.1**	**103**

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	S15 0.00	S15 0.50	S15 1.70	S16 0.00	S16 0.50
				Sampling date / time	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00
Compound	CAS Number	LOR	Unit		EP2416162-032	EP2416162-033	EP2416162-035	EP2416162-038	EP2416162-039
					Result	Result	Result	Result	Result
EP075(SIM)T: PAH Surrogates - Continued									
Anthracene-d10	1719-06-8	0.5	%		110	98.1	108	103	104
4-Terphenyl-d14	1718-51-0	0.5	%		116	109	114	115	118
EP075S: Acid Extractable Surrogates									
2-Fluorophenol	367-12-4	0.5	%		61.1	48.5	55.1	49.0	57.2
Phenol-d6	13127-88-3	0.5	%		76.6	72.4	75.0	88.2	86.6
2-Chlorophenol-D4	93951-73-6	0.5	%		65.1	54.9	63.4	82.4	80.0
2.4.6-Tribromophenol	118-79-6	0.5	%		65.3	47.4	59.9	59.2	59.7
EP075T: Base/Neutral Extractable Surrogates									
Nitrobenzene-D5	4165-60-0	0.5	%		60.3	63.7	56.6	74.8	73.7
1.2-Dichlorobenzene-D4	2199-69-1	0.5	%		64.3	66.2	57.7	79.8	78.5
2-Fluorobiphenyl	321-60-8	0.5	%		70.1	69.3	73.9	97.8	89.5
Anthracene-d10	1719-06-8	0.5	%		64.2	56.6	64.1	66.0	69.0
4-Terphenyl-d14	1718-51-0	0.5	%		74.7	66.4	75.4	83.3	84.0
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	0.2	%		84.1	86.8	84.5	100	106
Toluene-D8	2037-26-5	0.2	%		86.9	88.6	87.5	98.9	104
4-Bromofluorobenzene	460-00-4	0.2	%		84.4	83.7	84.4	96.6	96.8

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	S16 1.70	S17 0.25	S17 0.50	S17 1.40	S17 2.00
			Sampling date / time	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00
Compound	CAS Number	LOR	Unit	EP2416162-041	EP2416162-044	EP2416162-045	EP2416162-047	EP2416162-048
				Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	9.3	3.3	2.9	10.8	24.0
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	<5	<5	<5	<5	12
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1
Chromium	7440-47-3	2	mg/kg	<2	6	<2	5	5
Copper	7440-50-8	5	mg/kg	<5	21	5	62	27
Lead	7439-92-1	5	mg/kg	<5	76	12	66	60
Nickel	7440-02-0	2	mg/kg	<2	<2	<2	<2	8
Zinc	7440-66-6	5	mg/kg	30	77	22	404	214
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	0.2	0.1
EP068A: Organochlorine Pesticides (OC)								
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<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	<0.05
beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
gamma-BHC - (Lindane)	58-89-9	0.05	mg/kg	<0.05	<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	<0.05
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Aldrin	309-00-2	0.05	mg/kg	<0.05	<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	<0.05
^ Total Chlordane (sum)	----	0.05	mg/kg	<0.05	<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	<0.05
alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<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	<0.05
Dieldrin	60-57-1	0.05	mg/kg	<0.05	0.06	0.25	0.08	<0.05
4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	S16 1.70	S17 0.25	S17 0.50	S17 1.40	S17 2.00
				Sampling date / time	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00
Compound	CAS Number	LOR	Unit		EP2416162-041	EP2416162-044	EP2416162-045	EP2416162-047	EP2416162-048
					Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued									
beta-Endosulfan	33213-65-9	0.05	mg/kg		<0.05	<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	<0.05
4.4`-DDD	72-54-8	0.05	mg/kg		<0.05	<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	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDT	50-29-3	0.2	mg/kg		<0.2	<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	<0.05
Methoxychlor	72-43-5	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
^ **Sum of Aldrin + Dieldrin**	309-00-2/60-57-1	0.05	mg/kg		<0.05	**0.06**	**0.25**	**0.08**	<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	<0.05
EP068B: Organophosphorus Pesticides (OP)									
Dichlorvos	62-73-7	0.05	mg/kg		<0.05	<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	<0.05
Monocrotophos	6923-22-4	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Dimethoate	60-51-5	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Diazinon	333-41-5	0.05	mg/kg		<0.05	<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	<0.05
Parathion-methyl	298-00-0	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	121-75-5	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Fenthion	55-38-9	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos	2921-88-2	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Parathion	56-38-2	0.2	mg/kg		<0.2	<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	<0.05
Chlorfenvinphos	470-90-6	0.05	mg/kg		<0.05	<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	<0.05
Fenamiphos	22224-92-6	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	S16 1.70	S17 0.25	S17 0.50	S17 1.40	S17 2.00
				Sampling date / time	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00
Compound	CAS Number	LOR	Unit		EP2416162-041	EP2416162-044	EP2416162-045	EP2416162-047	EP2416162-048
					Result	Result	Result	Result	Result
EP068B: Organophosphorus Pesticides (OP) - Continued									
Prothiofos	34643-46-4	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Ethion	563-12-2	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Carbophenothion	786-19-6	0.05	mg/kg		<0.05	<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	<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	<0.5	<0.5
Anthracene	120-12-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	129-00-0	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Chrysene	218-01-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg		<0.5	<0.5	**0.6**	<0.5	<0.5
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg		<0.5	<0.5	**0.6**	<0.5	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg		**0.6**	**0.6**	**0.6**	**0.6**	**0.6**
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg		**1.2**	**1.2**	**1.2**	**1.2**	**1.2**
EP075A: Phenolic Compounds									
Phenol	108-95-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	S16 1.70	S17 0.25	S17 0.50	S17 1.40	S17 2.00
				Sampling date / time	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00
Compound	CAS Number	LOR	Unit		EP2416162-041	EP2416162-044	EP2416162-045	EP2416162-047	EP2416162-048
					Result	Result	Result	Result	Result
EP075A: Phenolic Compounds - Continued									
2-Chlorophenol	95-57-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
2-Methylphenol	95-48-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
3- & 4-Methylphenol	1319-77-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
2-Nitrophenol	88-75-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
2.4-Dimethylphenol	105-67-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
2.4-Dichlorophenol	120-83-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
2.6-Dichlorophenol	87-65-0	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
2.4.6-Trichlorophenol	88-06-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
2.4.5-Trichlorophenol	95-95-4	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Pentachlorophenol	87-86-5	1	mg/kg		<1	<1	<1	<1	<1
EP075B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
2-Methylnaphthalene	91-57-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
2-Chloronaphthalene	91-58-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene	83-32-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	85-01-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Anthracene	120-12-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	129-00-0	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
N-2-Fluorenyl Acetamide	53-96-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Chrysene	218-01-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1	mg/kg		<1	<1	<1	<1	<1

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	S16 1.70	S17 0.25	S17 0.50	S17 1.40	S17 2.00
				Sampling date / time	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00
Compound	CAS Number	LOR	Unit		EP2416162-041	EP2416162-044	EP2416162-045	EP2416162-047	EP2416162-048
					Result	Result	Result	Result	Result
EP075B: Polynuclear Aromatic Hydrocarbons - Continued									
7.12-Dimethylbenz(a)anthracene	57-97-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
3-Methylcholanthrene	56-49-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of PAHs	----	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg		**0.6**	**0.6**	**0.6**	**0.6**	**0.6**
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg		**1.2**	**1.2**	**1.2**	**1.2**	**1.2**
EP075C: Phthalate Esters									
Dimethyl phthalate	131-11-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Diethyl phthalate	84-66-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Di-n-butyl phthalate	84-74-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Butyl benzyl phthalate	85-68-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
bis(2-ethylhexyl) phthalate	117-81-7	5.0	mg/kg		<5.0	<5.0	<5.0	<5.0	<5.0
Di-n-octylphthalate	117-84-0	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
EP075D: Nitrosamines									
N-Nitrosomethylethylamine	10595-95-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
N-Nitrosodiethylamine	55-18-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
N-Nitrosopyrrolidine	930-55-2	1.0	mg/kg		<1.0	<1.0	<1.0	<1.0	<1.0
N-Nitrosomorpholine	59-89-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
N-Nitrosodi-n-propylamine	621-64-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
N-Nitrosopiperidine	100-75-4	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
N-Nitrosodibutylamine	924-16-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
N-Nitrosodiphenyl & Diphenylamine	86-30-6 122-39-4	1.0	mg/kg		<1.0	<1.0	<1.0	<1.0	<1.0

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	S16 1.70	S17 0.25	S17 0.50	S17 1.40	S17 2.00
				Sampling date / time	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00
Compound	CAS Number	LOR	Unit		EP2416162-041	EP2416162-044	EP2416162-045	EP2416162-047	EP2416162-048
					Result	Result	Result	Result	Result
EP075D: Nitrosamines - Continued									
Methapyrilene	91-80-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
EP075E: Nitroaromatics and Ketones									
2-Picoline	109-06-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Acetophenone	98-86-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Nitrobenzene	98-95-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Isophorone	78-59-1	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
2.6-Dinitrotoluene	606-20-2	1.0	mg/kg		<1.0	<1.0	<1.0	<1.0	<1.0
2.4-Dinitrotoluene	121-14-2	1.0	mg/kg		<1.0	<1.0	<1.0	<1.0	<1.0
1-Naphthylamine	134-32-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
4-Nitroquinoline-N-oxide	56-57-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
5-Nitro-o-toluidine	99-55-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Azobenzene	103-33-3	1	mg/kg		<1	<1	<1	<1	<1
1.3.5-Trinitrobenzene	99-35-4	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Phenacetin	62-44-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
4-Aminobiphenyl	92-67-1	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Pentachloronitrobenzene	82-68-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Pronamide	23950-58-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Dimethylaminoazobenzene	60-11-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Chlorobenzilate	510-15-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
EP075F: Haloethers									
Bis(2-chloroethyl) ether	111-44-4	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethoxy) methane	111-91-1	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
4-Chlorophenyl phenyl ether	7005-72-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
4-Bromophenyl phenyl ether	101-55-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
EP075G: Chlorinated Hydrocarbons									
1.3-Dichlorobenzene	541-73-1	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
1.4-Dichlorobenzene	106-46-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	S16 1.70	S17 0.25	S17 0.50	S17 1.40	S17 2.00
				Sampling date / time	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00
Compound	CAS Number	LOR	Unit		EP2416162-041	EP2416162-044	EP2416162-045	EP2416162-047	EP2416162-048
					Result	Result	Result	Result	Result
EP075G: Chlorinated Hydrocarbons - Continued									
1.2-Dichlorobenzene	95-50-1	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Hexachloroethane	67-72-1	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Hexachloropropylene	1888-71-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Hexachlorobutadiene	87-68-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Hexachlorocyclopentadiene	77-47-4	2.5	mg/kg		<2.5	<2.5	<2.5	<2.5	<2.5
Pentachlorobenzene	608-93-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Hexachlorobenzene (HCB)	118-74-1	1.0	mg/kg		<1.0	<1.0	<1.0	<1.0	<1.0
EP075H: Anilines and Benzidines									
Aniline	62-53-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
4-Chloroaniline	106-47-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
2-Nitroaniline	88-74-4	1.0	mg/kg		<1.0	<1.0	<1.0	<1.0	<1.0
3-Nitroaniline	99-09-2	1.0	mg/kg		<1.0	<1.0	<1.0	<1.0	<1.0
Dibenzofuran	132-64-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
4-Nitroaniline	100-01-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Carbazole	86-74-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
3.3`-Dichlorobenzidine	91-94-1	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
EP075I: Organochlorine Pesticides									
alpha-BHC	319-84-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
beta-BHC	319-85-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
gamma-BHC - (Lindane)	58-89-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
delta-BHC	319-86-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Heptachlor	76-44-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Aldrin	309-00-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Heptachlor epoxide	1024-57-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
alpha-Endosulfan	959-98-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
4.4`-DDE	72-55-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	S16 1.70	S17 0.25	S17 0.50	S17 1.40	S17 2.00
				Sampling date / time	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00
Compound	CAS Number	LOR	Unit		EP2416162-041	EP2416162-044	EP2416162-045	EP2416162-047	EP2416162-048
					Result	Result	Result	Result	Result
EP075I: Organochlorine Pesticides - Continued									
Dieldrin	60-57-1	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Endrin	72-20-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
beta-Endosulfan	33213-65-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
4.4`-DDD	72-54-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Endosulfan sulfate	1031-07-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
4.4`-DDT	50-29-3	1.0	mg/kg		<1.0	<1.0	<1.0	<1.0	<1.0
^ **Sum of DDD + DDE + DDT**	72-54-8/72-55-9/50-29-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
^ **Sum of Aldrin + Dieldrin**	309-00-2/60-57-1	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
EP075J: Organophosphorus Pesticides									
Dichlorvos	62-73-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	60-51-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon	333-41-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Chlorpyrifos-methyl	5598-13-0	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Malathion	121-75-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Fenthion	55-38-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Chlorpyrifos	2921-88-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Pirimphos-ethyl	23505-41-1	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Chlorfenvinphos	470-90-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Prothiofos	34643-46-4	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	563-12-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
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

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	S16 1.70	S17 0.25	S17 0.50	S17 1.40	S17 2.00
				Sampling date / time	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00
Compound	CAS Number	LOR	Unit		EP2416162-041	EP2416162-044	EP2416162-045	EP2416162-047	EP2416162-048
					Result	Result	Result	Result	Result
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg		<10	<10	<10	<10	<10
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg		<10	<10	<10	<10	<10
>C10 - C16 Fraction	----	50	mg/kg		<50	<50	<50	<50	<50
>C16 - C34 Fraction	----	100	mg/kg		<100	<100	<100	<100	<100
>C34 - C40 Fraction	----	100	mg/kg		<100	<100	<100	<100	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg		<50	<50	<50	<50	<50
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg		<50	<50	<50	<50	<50
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of BTEX	----	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
^ Total Xylenes	----	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene	91-20-3	1	mg/kg		<1	<1	<1	<1	<1
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.05	%		**77.3**	**85.7**	**78.4**	**81.7**	**79.9**
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.05	%		**130**	**131**	**134**	**139**	**146**
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	0.5	%		**83.7**	**82.0**	**80.4**	**79.1**	**84.7**
2-Chlorophenol-D4	93951-73-6	0.5	%		**93.5**	**91.1**	**91.2**	**89.9**	**90.0**
2.4.6-Tribromophenol	118-79-6	0.5	%		**72.8**	**71.6**	**52.0**	**65.9**	**69.5**
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	0.5	%		**97.8**	**97.4**	**95.8**	**96.8**	**94.2**

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	S16 1.70	S17 0.25	S17 0.50	S17 1.40	S17 2.00
				Sampling date / time	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00
Compound	CAS Number	LOR	Unit		EP2416162-041	EP2416162-044	EP2416162-045	EP2416162-047	EP2416162-048
					Result	Result	Result	Result	Result
EP075(SIM)T: PAH Surrogates - Continued									
Anthracene-d10	1719-06-8	0.5	%		101	100.0	99.1	98.4	97.7
4-Terphenyl-d14	1718-51-0	0.5	%		116	114	111	112	109
EP075S: Acid Extractable Surrogates									
2-Fluorophenol	367-12-4	0.5	%		44.7	85.6	50.8	87.3	85.6
Phenol-d6	13127-88-3	0.5	%		81.2	94.7	86.7	84.7	84.4
2-Chlorophenol-D4	93951-73-6	0.5	%		73.5	81.3	76.5	82.1	81.7
2.4.6-Tribromophenol	118-79-6	0.5	%		52.6	53.1	53.9	51.8	55.7
EP075T: Base/Neutral Extractable Surrogates									
Nitrobenzene-D5	4165-60-0	0.5	%		79.9	85.0	68.9	84.8	84.3
1.2-Dichlorobenzene-D4	2199-69-1	0.5	%		74.4	93.6	76.4	71.8	74.3
2-Fluorobiphenyl	321-60-8	0.5	%		90.5	113	92.8	82.1	81.0
Anthracene-d10	1719-06-8	0.5	%		70.3	64.4	68.6	72.7	68.1
4-Terphenyl-d14	1718-51-0	0.5	%		80.7	68.8	81.5	97.8	84.5
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	0.2	%		104	105	102	94.2	96.8
Toluene-D8	2037-26-5	0.2	%		103	105	102	90.6	93.5
4-Bromofluorobenzene	460-00-4	0.2	%		97.3	98.6	96.6	88.5	88.1

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	S18 0.25	S18 0.50	S18 2.00	S19 0.25	S19 0.50
			Sampling date / time	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00
Compound	CAS Number	LOR	Unit	EP2416162-051	EP2416162-052	EP2416162-054	EP2416162-056	EP2416162-057
				Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	**2.0**	**1.9**	**27.0**	**5.0**	**1.6**
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	**6**	<2	<2	**16**	<2
Copper	7440-50-8	5	mg/kg	**32**	<5	<5	**7**	<5
Lead	7439-92-1	5	mg/kg	**158**	**5**	**13**	**16**	<5
Nickel	7440-02-0	2	mg/kg	**4**	<2	<2	<2	<2
Zinc	7440-66-6	5	mg/kg	**103**	**78**	**50**	**46**	**24**
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	**0.2**	<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	<0.05
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<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	<0.05
gamma-BHC - (Lindane)	58-89-9	0.05	mg/kg	<0.05	<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	<0.05
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Aldrin	309-00-2	0.05	mg/kg	<0.05	<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	<0.05
^ Total Chlordane (sum)	----	0.05	mg/kg	<0.05	<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	<0.05
alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<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	<0.05
Dieldrin	60-57-1	0.05	mg/kg	**0.09**	**0.06**	<0.05	<0.05	<0.05
4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	S18 0.25	S18 0.50	S18 2.00	S19 0.25	S19 0.50
				Sampling date / time	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00
Compound	CAS Number	LOR	Unit		EP2416162-051	EP2416162-052	EP2416162-054	EP2416162-056	EP2416162-057
					Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued									
beta-Endosulfan	33213-65-9	0.05	mg/kg		<0.05	<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	<0.05
4.4`-DDD	72-54-8	0.05	mg/kg		<0.05	<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	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDT	50-29-3	0.2	mg/kg		<0.2	<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	<0.05
Methoxychlor	72-43-5	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg		**0.09**	**0.06**	<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	<0.05
EP068B: Organophosphorus Pesticides (OP)									
Dichlorvos	62-73-7	0.05	mg/kg		<0.05	<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	<0.05
Monocrotophos	6923-22-4	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Dimethoate	60-51-5	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Diazinon	333-41-5	0.05	mg/kg		<0.05	<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	<0.05
Parathion-methyl	298-00-0	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	121-75-5	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Fenthion	55-38-9	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos	2921-88-2	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Parathion	56-38-2	0.2	mg/kg		<0.2	<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	<0.05
Chlorfenvinphos	470-90-6	0.05	mg/kg		<0.05	<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	<0.05
Fenamiphos	22224-92-6	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	S18 0.25	S18 0.50	S18 2.00	S19 0.25	S19 0.50
				Sampling date / time	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00
Compound	CAS Number	LOR	Unit		EP2416162-051	EP2416162-052	EP2416162-054	EP2416162-056	EP2416162-057
					Result	Result	Result	Result	Result
EP068B: Organophosphorus Pesticides (OP) - Continued									
Prothiofos	34643-46-4	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Ethion	563-12-2	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Carbophenothion	786-19-6	0.05	mg/kg		<0.05	<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	<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	<0.5	<0.5
Anthracene	120-12-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	129-00-0	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Chrysene	218-01-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg		**0.6**	**0.6**	**0.6**	**0.6**	**0.6**
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg		**1.2**	**1.2**	**1.2**	**1.2**	**1.2**
EP075A: Phenolic Compounds									
Phenol	108-95-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	S18 0.25	S18 0.50	S18 2.00	S19 0.25	S19 0.50
				Sampling date / time	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00
Compound	CAS Number	LOR	Unit		EP2416162-051	EP2416162-052	EP2416162-054	EP2416162-056	EP2416162-057
					Result	Result	Result	Result	Result
EP075A: Phenolic Compounds - Continued									
2-Chlorophenol	95-57-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
2-Methylphenol	95-48-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
3- & 4-Methylphenol	1319-77-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
2-Nitrophenol	88-75-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
2.4-Dimethylphenol	105-67-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
2.4-Dichlorophenol	120-83-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
2.6-Dichlorophenol	87-65-0	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
2.4.6-Trichlorophenol	88-06-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
2.4.5-Trichlorophenol	95-95-4	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Pentachlorophenol	87-86-5	1	mg/kg		<1	<1	<1	<1	<1
EP075B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
2-Methylnaphthalene	91-57-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
2-Chloronaphthalene	91-58-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene	83-32-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	85-01-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Anthracene	120-12-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	129-00-0	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
N-2-Fluorenyl Acetamide	53-96-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Chrysene	218-01-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1	mg/kg		<1	<1	<1	<1	<1

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	S18 0.25	S18 0.50	S18 2.00	S19 0.25	S19 0.50
				Sampling date / time	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00
Compound	CAS Number	LOR	Unit		EP2416162-051	EP2416162-052	EP2416162-054	EP2416162-056	EP2416162-057
					Result	Result	Result	Result	Result
EP075B: Polynuclear Aromatic Hydrocarbons - Continued									
7.12-Dimethylbenz(a)anthracene	57-97-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
3-Methylcholanthrene	56-49-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of PAHs	----	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg		**0.6**	**0.6**	**0.6**	**0.6**	**0.6**
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg		**1.2**	**1.2**	**1.2**	**1.2**	**1.2**
EP075C: Phthalate Esters									
Dimethyl phthalate	131-11-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Diethyl phthalate	84-66-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Di-n-butyl phthalate	84-74-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Butyl benzyl phthalate	85-68-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
bis(2-ethylhexyl) phthalate	117-81-7	5.0	mg/kg		<5.0	<5.0	<5.0	<5.0	<5.0
Di-n-octylphthalate	117-84-0	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
EP075D: Nitrosamines									
N-Nitrosomethylethylamine	10595-95-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
N-Nitrosodiethylamine	55-18-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
N-Nitrosopyrrolidine	930-55-2	1.0	mg/kg		<1.0	<1.0	<1.0	<1.0	<1.0
N-Nitrosomorpholine	59-89-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
N-Nitrosodi-n-propylamine	621-64-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
N-Nitrosopiperidine	100-75-4	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
N-Nitrosodibutylamine	924-16-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
N-Nitrosodiphenyl & Diphenylamine	86-30-6 122-39-4	1.0	mg/kg		<1.0	<1.0	<1.0	<1.0	<1.0

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	S18 0.25	S18 0.50	S18 2.00	S19 0.25	S19 0.50
				Sampling date / time	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00
Compound	CAS Number	LOR	Unit		EP2416162-051	EP2416162-052	EP2416162-054	EP2416162-056	EP2416162-057
					Result	Result	Result	Result	Result
EP075D: Nitrosamines - Continued									
Methapyrilene	91-80-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
EP075E: Nitroaromatics and Ketones									
2-Picoline	109-06-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Acetophenone	98-86-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Nitrobenzene	98-95-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Isophorone	78-59-1	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
2.6-Dinitrotoluene	606-20-2	1.0	mg/kg		<1.0	<1.0	<1.0	<1.0	<1.0
2.4-Dinitrotoluene	121-14-2	1.0	mg/kg		<1.0	<1.0	<1.0	<1.0	<1.0
1-Naphthylamine	134-32-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
4-Nitroquinoline-N-oxide	56-57-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
5-Nitro-o-toluidine	99-55-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Azobenzene	103-33-3	1	mg/kg		<1	<1	<1	<1	<1
1.3.5-Trinitrobenzene	99-35-4	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Phenacetin	62-44-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
4-Aminobiphenyl	92-67-1	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Pentachloronitrobenzene	82-68-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Pronamide	23950-58-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Dimethylaminoazobenzene	60-11-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Chlorobenzilate	510-15-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
EP075F: Haloethers									
Bis(2-chloroethyl) ether	111-44-4	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethoxy) methane	111-91-1	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
4-Chlorophenyl phenyl ether	7005-72-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
4-Bromophenyl phenyl ether	101-55-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
EP075G: Chlorinated Hydrocarbons									
1.3-Dichlorobenzene	541-73-1	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
1.4-Dichlorobenzene	106-46-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	S18 0.25	S18 0.50	S18 2.00	S19 0.25	S19 0.50
				Sampling date / time	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00
Compound	CAS Number	LOR	Unit		EP2416162-051	EP2416162-052	EP2416162-054	EP2416162-056	EP2416162-057
					Result	Result	Result	Result	Result
EP075G: Chlorinated Hydrocarbons - Continued									
1.2-Dichlorobenzene	95-50-1	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Hexachloroethane	67-72-1	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Hexachloropropylene	1888-71-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Hexachlorobutadiene	87-68-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Hexachlorocyclopentadiene	77-47-4	2.5	mg/kg		<2.5	<2.5	<2.5	<2.5	<2.5
Pentachlorobenzene	608-93-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Hexachlorobenzene (HCB)	118-74-1	1.0	mg/kg		<1.0	<1.0	<1.0	<1.0	<1.0
EP075H: Anilines and Benzidines									
Aniline	62-53-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
4-Chloroaniline	106-47-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
2-Nitroaniline	88-74-4	1.0	mg/kg		<1.0	<1.0	<1.0	<1.0	<1.0
3-Nitroaniline	99-09-2	1.0	mg/kg		<1.0	<1.0	<1.0	<1.0	<1.0
Dibenzofuran	132-64-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
4-Nitroaniline	100-01-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Carbazole	86-74-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
3.3`-Dichlorobenzidine	91-94-1	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
EP075I: Organochlorine Pesticides									
alpha-BHC	319-84-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
beta-BHC	319-85-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
gamma-BHC - (Lindane)	58-89-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
delta-BHC	319-86-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Heptachlor	76-44-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Aldrin	309-00-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Heptachlor epoxide	1024-57-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
alpha-Endosulfan	959-98-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
4.4`-DDE	72-55-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	S18 0.25	S18 0.50	S18 2.00	S19 0.25	S19 0.50
				Sampling date / time	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00
Compound	CAS Number	LOR	Unit		EP2416162-051	EP2416162-052	EP2416162-054	EP2416162-056	EP2416162-057
					Result	Result	Result	Result	Result
EP075I: Organochlorine Pesticides - Continued									
Dieldrin	60-57-1	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Endrin	72-20-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
beta-Endosulfan	33213-65-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
4.4`-DDD	72-54-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Endosulfan sulfate	1031-07-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
4.4`-DDT	50-29-3	1.0	mg/kg		<1.0	<1.0	<1.0	<1.0	<1.0
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-29-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
EP075J: Organophosphorus Pesticides									
Dichlorvos	62-73-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	60-51-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon	333-41-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Chlorpyrifos-methyl	5598-13-0	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Malathion	121-75-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Fenthion	55-38-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Chlorpyrifos	2921-88-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Pirimphos-ethyl	23505-41-1	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Chlorfenvinphos	470-90-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Prothiofos	34643-46-4	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	563-12-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
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		**120**	<100	<100	<100	<100
^ C10 - C36 Fraction (sum)	----	50	mg/kg		**120**	<50	<50	<50	<50

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	S18 0.25	S18 0.50	S18 2.00	S19 0.25	S19 0.50
				Sampling date / time	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00
Compound	CAS Number	LOR	Unit		EP2416162-051	EP2416162-052	EP2416162-054	EP2416162-056	EP2416162-057
					Result	Result	Result	Result	Result
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		**160**	<100	**140**	<100	<100
>C34 - C40 Fraction	----	100	mg/kg		**150**	<100	<100	<100	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg		**310**	<50	**140**	<50	<50
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg		<50	<50	<50	<50	<50
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of BTEX	----	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
^ Total Xylenes	----	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene	91-20-3	1	mg/kg		<1	<1	<1	<1	<1
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.05	%		**90.6**	**90.4**	**93.0**	**91.0**	**92.2**
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.05	%		**133**	**136**	**122**	**143**	**131**
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	0.5	%		**84.7**	**86.6**	**89.3**	**87.3**	**86.4**
2-Chlorophenol-D4	93951-73-6	0.5	%		**92.2**	**94.1**	**97.4**	**96.5**	**95.0**
2.4.6-Tribromophenol	118-79-6	0.5	%		**71.6**	**64.4**	**79.9**	**64.8**	**64.5**
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	0.5	%		**92.4**	**98.1**	**104**	**96.5**	**97.0**

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	S18 0.25	S18 0.50	S18 2.00	S19 0.25	S19 0.50
			Sampling date / time	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00	30-Oct-2024 00:00
Compound	CAS Number	LOR	Unit	EP2416162-051	EP2416162-052	EP2416162-054	EP2416162-056	EP2416162-057
				Result	Result	Result	Result	Result
EP075(SIM)T: PAH Surrogates - Continued								
Anthracene-d10	1719-06-8	0.5	%	97.2	106	104	103	106
4-Terphenyl-d14	1718-51-0	0.5	%	106	117	115	115	118
EP075S: Acid Extractable Surrogates								
2-Fluorophenol	367-12-4	0.5	%	87.1	92.8	89.4	86.4	53.6
Phenol-d6	13127-88-3	0.5	%	83.0	90.2	83.7	82.7	76.9
2-Chlorophenol-D4	93951-73-6	0.5	%	80.2	83.7	82.5	80.3	63.0
2.4.6-Tribromophenol	118-79-6	0.5	%	54.6	55.9	57.7	58.8	41.4
EP075T: Base/Neutral Extractable Surrogates								
Nitrobenzene-D5	4165-60-0	0.5	%	82.5	87.3	85.9	82.8	55.3
1.2-Dichlorobenzene-D4	2199-69-1	0.5	%	74.2	76.8	74.8	73.2	59.9
2-Fluorobiphenyl	321-60-8	0.5	%	79.7	84.5	83.1	80.9	69.6
Anthracene-d10	1719-06-8	0.5	%	68.9	72.7	70.0	68.2	56.9
4-Terphenyl-d14	1718-51-0	0.5	%	77.6	86.5	83.1	83.3	62.1
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.2	%	91.4	106	92.7	101	110
Toluene-D8	2037-26-5	0.2	%	80.7	99.5	85.1	102	105
4-Bromofluorobenzene	460-00-4	0.2	%	82.9	94.5	81.7	93.2	98.4

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	S19 1.50	S20 0.00	S20 0.50	S20 1.50	X1
			Sampling date / time	30-Oct-2024 00:00	31-Oct-2024 00:00	31-Oct-2024 00:00	31-Oct-2024 00:00	31-Oct-2024 00:00
Compound	CAS Number	LOR	Unit	EP2416162-059	EP2416162-062	EP2416162-063	EP2416162-065	EP2416162-068
				Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	**13.0**	**2.3**	**4.2**	**1.9**	**3.3**
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	**2**	**13**	**8**	<2	<2
Copper	7440-50-8	5	mg/kg	**7**	**105**	**54**	<5	<5
Lead	7439-92-1	5	mg/kg	**69**	**460**	**232**	<5	**5**
Nickel	7440-02-0	2	mg/kg	<2	**5**	**3**	<2	<2
Zinc	7440-66-6	5	mg/kg	**75**	**189**	**121**	**7**	**14**
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	<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	<0.05
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<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	<0.05
gamma-BHC - (Lindane)	58-89-9	0.05	mg/kg	<0.05	<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	<0.05
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Aldrin	309-00-2	0.05	mg/kg	<0.05	<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	<0.05
^ Total Chlordane (sum)	----	0.05	mg/kg	<0.05	<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	<0.05
alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<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	<0.05
Dieldrin	60-57-1	0.05	mg/kg	<0.05	**0.12**	**12.0**	<0.05	<0.05
4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	**0.22**	<0.05	<0.05

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	S19 1.50	S20 0.00	S20 0.50	S20 1.50	X1
				Sampling date / time	30-Oct-2024 00:00	31-Oct-2024 00:00	31-Oct-2024 00:00	31-Oct-2024 00:00	31-Oct-2024 00:00
Compound	CAS Number	LOR	Unit		EP2416162-059	EP2416162-062	EP2416162-063	EP2416162-065	EP2416162-068
					Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued									
beta-Endosulfan	33213-65-9	0.05	mg/kg		<0.05	<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	<0.05
4.4`-DDD	72-54-8	0.05	mg/kg		<0.05	<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	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDT	50-29-3	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Endrin ketone	53494-70-5	0.05	mg/kg		<0.05	<0.05	**0.09**	<0.05	<0.05
Methoxychlor	72-43-5	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
^ **Sum of Aldrin + Dieldrin**	309-00-2/60-57-1	0.05	mg/kg		<0.05	**0.12**	**12.0**	<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	<0.05
EP068B: Organophosphorus Pesticides (OP)									
Dichlorvos	62-73-7	0.05	mg/kg		<0.05	<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	<0.05
Monocrotophos	6923-22-4	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Dimethoate	60-51-5	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Diazinon	333-41-5	0.05	mg/kg		<0.05	<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	<0.05
Parathion-methyl	298-00-0	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	121-75-5	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Fenthion	55-38-9	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos	2921-88-2	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Parathion	56-38-2	0.2	mg/kg		<0.2	<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	<0.05
Chlorfenvinphos	470-90-6	0.05	mg/kg		<0.05	<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	<0.05
Fenamiphos	22224-92-6	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	S19 1.50	S20 0.00	S20 0.50	S20 1.50	X1
				Sampling date / time	30-Oct-2024 00:00	31-Oct-2024 00:00	31-Oct-2024 00:00	31-Oct-2024 00:00	31-Oct-2024 00:00
Compound	CAS Number	LOR	Unit		EP2416162-059	EP2416162-062	EP2416162-063	EP2416162-065	EP2416162-068
					Result	Result	Result	Result	Result
EP068B: Organophosphorus Pesticides (OP) - Continued									
Prothiofos	34643-46-4	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Ethion	563-12-2	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Carbophenothion	786-19-6	0.05	mg/kg		<0.05	<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	<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	<0.5	<0.5
Anthracene	120-12-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg		**0.9**	<0.5	<0.5	<0.5	<0.5
Pyrene	129-00-0	0.5	mg/kg		**0.9**	<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg		**0.7**	<0.5	<0.5	<0.5	<0.5
Chrysene	218-01-9	0.5	mg/kg		**0.6**	<0.5	<0.5	<0.5	<0.5
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg		**1.1**	<0.5	<0.5	<0.5	<0.5
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg		**1.0**	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg		**0.5**	<0.5	<0.5	<0.5	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg		**0.7**	<0.5	<0.5	<0.5	<0.5
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg		**6.4**	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg		**1.2**	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg		**1.5**	**0.6**	**0.6**	**0.6**	**0.6**
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg		**1.8**	**1.2**	**1.2**	**1.2**	**1.2**
EP075A: Phenolic Compounds									
Phenol	108-95-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	S19 1.50	S20 0.00	S20 0.50	S20 1.50	X1
				Sampling date / time	30-Oct-2024 00:00	31-Oct-2024 00:00	31-Oct-2024 00:00	31-Oct-2024 00:00	31-Oct-2024 00:00
Compound	CAS Number	LOR	Unit		EP2416162-059	EP2416162-062	EP2416162-063	EP2416162-065	EP2416162-068
					Result	Result	Result	Result	Result
EP075A: Phenolic Compounds - Continued									
2-Chlorophenol	95-57-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
2-Methylphenol	95-48-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
3- & 4-Methylphenol	1319-77-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
2-Nitrophenol	88-75-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
2.4-Dimethylphenol	105-67-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
2.4-Dichlorophenol	120-83-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
2.6-Dichlorophenol	87-65-0	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
2.4.6-Trichlorophenol	88-06-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
2.4.5-Trichlorophenol	95-95-4	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Pentachlorophenol	87-86-5	1	mg/kg		<1	<1	<1	<1	<1
EP075B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
2-Methylnaphthalene	91-57-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
2-Chloronaphthalene	91-58-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene	83-32-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	85-01-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Anthracene	120-12-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg		**0.7**	<0.5	<0.5	<0.5	<0.5
Pyrene	129-00-0	0.5	mg/kg		**0.7**	<0.5	<0.5	<0.5	<0.5
N-2-Fluorenyl Acetamide	53-96-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Chrysene	218-01-9	0.5	mg/kg		**0.5**	<0.5	<0.5	<0.5	<0.5
Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1	mg/kg		<1	<1	<1	<1	<1

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	S19 1.50	S20 0.00	S20 0.50	S20 1.50	X1
				Sampling date / time	30-Oct-2024 00:00	31-Oct-2024 00:00	31-Oct-2024 00:00	31-Oct-2024 00:00	31-Oct-2024 00:00
Compound	CAS Number	LOR	Unit		EP2416162-059	EP2416162-062	EP2416162-063	EP2416162-065	EP2416162-068
					Result	Result	Result	Result	Result
EP075B: Polynuclear Aromatic Hydrocarbons - Continued									
7.12-Dimethylbenz(a)anthracene	57-97-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg		**0.6**	<0.5	<0.5	<0.5	<0.5
3-Methylcholanthrene	56-49-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of PAHs	----	0.5	mg/kg		**2.5**	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg		**0.6**	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg		**1.0**	**0.6**	**0.6**	**0.6**	**0.6**
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg		**1.3**	**1.2**	**1.2**	**1.2**	**1.2**
EP075C: Phthalate Esters									
Dimethyl phthalate	131-11-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Diethyl phthalate	84-66-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Di-n-butyl phthalate	84-74-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Butyl benzyl phthalate	85-68-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
bis(2-ethylhexyl) phthalate	117-81-7	5.0	mg/kg		<5.0	<5.0	<5.0	<5.0	<5.0
Di-n-octylphthalate	117-84-0	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
EP075D: Nitrosamines									
N-Nitrosomethylethylamine	10595-95-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
N-Nitrosodiethylamine	55-18-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
N-Nitrosopyrrolidine	930-55-2	1.0	mg/kg		<1.0	<1.0	<1.0	<1.0	<1.0
N-Nitrosomorpholine	59-89-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
N-Nitrosodi-n-propylamine	621-64-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
N-Nitrosopiperidine	100-75-4	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
N-Nitrosodibutylamine	924-16-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
N-Nitrosodiphenyl & Diphenylamine	86-30-6 122-39-4	1.0	mg/kg		<1.0	<1.0	<1.0	<1.0	<1.0

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	S19 1.50	S20 0.00	S20 0.50	S20 1.50	X1
			Sampling date / time	30-Oct-2024 00:00	31-Oct-2024 00:00	31-Oct-2024 00:00	31-Oct-2024 00:00	31-Oct-2024 00:00
Compound	CAS Number	LOR	Unit	EP2416162-059	EP2416162-062	EP2416162-063	EP2416162-065	EP2416162-068
				Result	Result	Result	Result	Result
EP075D: Nitrosamines - Continued								
Methapyrilene	91-80-5	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
EP075E: Nitroaromatics and Ketones								
2-Picoline	109-06-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acetophenone	98-86-2	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Nitrobenzene	98-95-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Isophorone	78-59-1	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
2.6-Dinitrotoluene	606-20-2	1.0	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
2.4-Dinitrotoluene	121-14-2	1.0	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
1-Naphthylamine	134-32-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
4-Nitroquinoline-N-oxide	56-57-5	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
5-Nitro-o-toluidine	99-55-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Azobenzene	103-33-3	1	mg/kg	<1	<1	<1	<1	<1
1.3.5-Trinitrobenzene	99-35-4	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Phenacetin	62-44-2	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
4-Aminobiphenyl	92-67-1	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Pentachloronitrobenzene	82-68-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Pronamide	23950-58-5	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethylaminoazobenzene	60-11-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorobenzilate	510-15-6	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
EP075F: Haloethers								
Bis(2-chloroethyl) ether	111-44-4	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethoxy) methane	111-91-1	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
4-Chlorophenyl phenyl ether	7005-72-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
4-Bromophenyl phenyl ether	101-55-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
EP075G: Chlorinated Hydrocarbons								
1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	S19 1.50	S20 0.00	S20 0.50	S20 1.50	X1
				Sampling date / time	30-Oct-2024 00:00	31-Oct-2024 00:00	31-Oct-2024 00:00	31-Oct-2024 00:00	31-Oct-2024 00:00
Compound	CAS Number	LOR	Unit		EP2416162-059	EP2416162-062	EP2416162-063	EP2416162-065	EP2416162-068
					Result	Result	Result	Result	Result
EP075G: Chlorinated Hydrocarbons - Continued									
1.2-Dichlorobenzene	95-50-1	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Hexachloroethane	67-72-1	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Hexachloropropylene	1888-71-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Hexachlorobutadiene	87-68-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Hexachlorocyclopentadiene	77-47-4	2.5	mg/kg		<2.5	<2.5	<2.5	<2.5	<2.5
Pentachlorobenzene	608-93-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Hexachlorobenzene (HCB)	118-74-1	1.0	mg/kg		<1.0	<1.0	<1.0	<1.0	<1.0
EP075H: Anilines and Benzidines									
Aniline	62-53-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
4-Chloroaniline	106-47-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
2-Nitroaniline	88-74-4	1.0	mg/kg		<1.0	<1.0	<1.0	<1.0	<1.0
3-Nitroaniline	99-09-2	1.0	mg/kg		<1.0	<1.0	<1.0	<1.0	<1.0
Dibenzofuran	132-64-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
4-Nitroaniline	100-01-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Carbazole	86-74-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
3.3`-Dichlorobenzidine	91-94-1	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
EP075I: Organochlorine Pesticides									
alpha-BHC	319-84-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
beta-BHC	319-85-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
gamma-BHC - (Lindane)	58-89-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
delta-BHC	319-86-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Heptachlor	76-44-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Aldrin	309-00-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Heptachlor epoxide	1024-57-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
alpha-Endosulfan	959-98-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
4.4`-DDE	72-55-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	S19 1.50	S20 0.00	S20 0.50	S20 1.50	X1
				Sampling date / time	30-Oct-2024 00:00	31-Oct-2024 00:00	31-Oct-2024 00:00	31-Oct-2024 00:00	31-Oct-2024 00:00
Compound	CAS Number	LOR	Unit		EP2416162-059	EP2416162-062	EP2416162-063	EP2416162-065	EP2416162-068
					Result	Result	Result	Result	Result
EP075I: Organochlorine Pesticides - Continued									
Dieldrin	60-57-1	0.5	mg/kg		<0.5	<0.5	**11.9**	<0.5	<0.5
Endrin	72-20-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
beta-Endosulfan	33213-65-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
4.4`-DDD	72-54-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Endosulfan sulfate	1031-07-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
4.4`-DDT	50-29-3	1.0	mg/kg		<1.0	<1.0	<1.0	<1.0	<1.0
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-29-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.5	mg/kg		<0.5	<0.5	**11.9**	<0.5	<0.5
EP075J: Organophosphorus Pesticides									
Dichlorvos	62-73-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	60-51-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon	333-41-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Chlorpyrifos-methyl	5598-13-0	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Malathion	121-75-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Fenthion	55-38-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Chlorpyrifos	2921-88-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Pirimphos-ethyl	23505-41-1	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Chlorfenvinphos	470-90-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Prothiofos	34643-46-4	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	563-12-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
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	**140**	<100	<100
C29 - C36 Fraction	----	100	mg/kg		<100	**160**	**280**	<100	<100
^ C10 - C36 Fraction (sum)	----	50	mg/kg		<50	**160**	**420**	<50	<50

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	S19 1.50	S20 0.00	S20 0.50	S20 1.50	X1
				Sampling date / time	30-Oct-2024 00:00	31-Oct-2024 00:00	31-Oct-2024 00:00	31-Oct-2024 00:00	31-Oct-2024 00:00
Compound	CAS Number	LOR	Unit		EP2416162-059	EP2416162-062	EP2416162-063	EP2416162-065	EP2416162-068
					Result	Result	Result	Result	Result
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	**190**	**320**	<100	<100
>C34 - C40 Fraction	----	100	mg/kg		<100	**260**	**290**	<100	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg		<50	**450**	**610**	<50	<50
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg		<50	<50	<50	<50	<50
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of BTEX	----	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
^ Total Xylenes	----	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene	91-20-3	1	mg/kg		<1	<1	<1	<1	<1
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.05	%		**90.5**	**84.4**	**83.8**	**89.6**	**93.1**
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.05	%		**133**	**124**	**128**	**138**	**144**
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	0.5	%		**84.5**	**86.1**	**86.8**	**89.4**	**87.4**
2-Chlorophenol-D4	93951-73-6	0.5	%		**95.2**	**94.2**	**94.6**	**94.4**	**92.6**
2.4.6-Tribromophenol	118-79-6	0.5	%		**68.8**	**69.4**	**71.8**	**61.6**	**60.2**
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	0.5	%		**96.1**	**96.1**	**92.6**	**91.2**	**95.1**

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	S19 1.50	S20 0.00	S20 0.50	S20 1.50	X1
			Sampling date / time	30-Oct-2024 00:00	31-Oct-2024 00:00	31-Oct-2024 00:00	31-Oct-2024 00:00	31-Oct-2024 00:00
Compound	CAS Number	LOR	Unit	EP2416162-059	EP2416162-062	EP2416162-063	EP2416162-065	EP2416162-068
				Result	Result	Result	Result	Result
EP075(SIM)T: PAH Surrogates - Continued								
Anthracene-d10	1719-06-8	0.5	%	105	101	99.6	99.8	74.0
4-Terphenyl-d14	1718-51-0	0.5	%	116	108	105	111	86.7
EP075S: Acid Extractable Surrogates								
2-Fluorophenol	367-12-4	0.5	%	60.8	55.1	54.2	55.6	51.4
Phenol-d6	13127-88-3	0.5	%	77.0	68.8	77.8	72.5	73.5
2-Chlorophenol-D4	93951-73-6	0.5	%	65.2	62.5	59.3	54.4	60.1
2.4.6-Tribromophenol	118-79-6	0.5	%	55.2	63.6	49.8	52.9	46.5
EP075T: Base/Neutral Extractable Surrogates								
Nitrobenzene-D5	4165-60-0	0.5	%	55.4	55.4	56.6	53.3	53.8
1.2-Dichlorobenzene-D4	2199-69-1	0.5	%	64.0	60.3	59.8	59.8	57.2
2-Fluorobiphenyl	321-60-8	0.5	%	75.2	63.5	63.7	64.4	66.9
Anthracene-d10	1719-06-8	0.5	%	59.6	57.2	56.6	57.2	36.2
4-Terphenyl-d14	1718-51-0	0.5	%	67.3	67.4	59.9	62.6	45.4
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.2	%	101	107	101	94.6	107
Toluene-D8	2037-26-5	0.2	%	100	104	97.1	93.1	102
4-Bromofluorobenzene	460-00-4	0.2	%	95.7	96.4	89.8	86.4	93.0

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	X3	TB	TB	----	----
			Sampling date / time	31-Oct-2024 00:00	31-Oct-2024 00:00	31-Oct-2024 00:00	----	----
Compound	CAS Number	LOR	Unit	EP2416162-069	EP2416162-071	EP2416162-072	--------	--------
				Result	Result	Result	----	----
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	**2.5**	<1.0	<1.0	----	----
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	**3**	<2	<2	----	----
Copper	7440-50-8	5	mg/kg	**9**	<5	<5	----	----
Lead	7439-92-1	5	mg/kg	**18**	<5	<5	----	----
Nickel	7440-02-0	2	mg/kg	**4**	<2	<2	----	----
Zinc	7440-66-6	5	mg/kg	**34**	<5	<5	----	----
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<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	----	----
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
gamma-BHC - (Lindane)	58-89-9	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
^ Total Chlordane (sum)	----	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	X3	TB	TB	----	----
				Sampling date / time	31-Oct-2024 00:00	31-Oct-2024 00:00	31-Oct-2024 00:00	----	----
Compound	CAS Number	LOR	Unit		EP2416162-069	EP2416162-071	EP2416162-072	--------	--------
					Result	Result	Result	----	----
EP068A: Organochlorine Pesticides (OC) - Continued									
beta-Endosulfan	33213-65-9	0.05	mg/kg		<0.05	<0.05	<0.05	----	----
^ **Endosulfan (sum)**	115-29-7	0.05	mg/kg		<0.05	<0.05	<0.05	----	----
4.4`-DDD	72-54-8	0.05	mg/kg		<0.05	<0.05	<0.05	----	----
Endrin aldehyde	7421-93-4	0.05	mg/kg		<0.05	<0.05	<0.05	----	----
Endosulfan sulfate	1031-07-8	0.05	mg/kg		<0.05	<0.05	<0.05	----	----
4.4`-DDT	50-29-3	0.2	mg/kg		<0.2	<0.2	<0.2	----	----
Endrin ketone	53494-70-5	0.05	mg/kg		<0.05	<0.05	<0.05	----	----
Methoxychlor	72-43-5	0.2	mg/kg		<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	----	----
^ **Sum of DDD + DDE + DDT**	72-54-8/72-55-9/50-2	0.05	mg/kg		<0.05	<0.05	<0.05	----	----
EP068B: Organophosphorus Pesticides (OP)									
Dichlorvos	62-73-7	0.05	mg/kg		<0.05	<0.05	<0.05	----	----
Demeton-S-methyl	919-86-8	0.05	mg/kg		<0.05	<0.05	<0.05	----	----
Monocrotophos	6923-22-4	0.2	mg/kg		<0.2	<0.2	<0.2	----	----
Dimethoate	60-51-5	0.05	mg/kg		<0.05	<0.05	<0.05	----	----
Diazinon	333-41-5	0.05	mg/kg		<0.05	<0.05	<0.05	----	----
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg		<0.05	<0.05	<0.05	----	----
Parathion-methyl	298-00-0	0.2	mg/kg		<0.2	<0.2	<0.2	----	----
Malathion	121-75-5	0.05	mg/kg		<0.05	<0.05	<0.05	----	----
Fenthion	55-38-9	0.05	mg/kg		<0.05	<0.05	<0.05	----	----
Chlorpyrifos	2921-88-2	0.05	mg/kg		<0.05	<0.05	<0.05	----	----
Parathion	56-38-2	0.2	mg/kg		<0.2	<0.2	<0.2	----	----
Pirimphos-ethyl	23505-41-1	0.05	mg/kg		<0.05	<0.05	<0.05	----	----
Chlorfenvinphos	470-90-6	0.05	mg/kg		<0.05	<0.05	<0.05	----	----
Bromophos-ethyl	4824-78-6	0.05	mg/kg		<0.05	<0.05	<0.05	----	----
Fenamiphos	22224-92-6	0.05	mg/kg		<0.05	<0.05	<0.05	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	X3	TB	TB	----	----
				Sampling date / time	31-Oct-2024 00:00	31-Oct-2024 00:00	31-Oct-2024 00:00	----	----
Compound	CAS Number	LOR	Unit		EP2416162-069	EP2416162-071	EP2416162-072	--------	--------
					Result	Result	Result	----	----
EP068B: Organophosphorus Pesticides (OP) - Continued									
Prothiofos	34643-46-4	0.05	mg/kg		<0.05	<0.05	<0.05	----	----
Ethion	563-12-2	0.05	mg/kg		<0.05	<0.05	<0.05	----	----
Carbophenothion	786-19-6	0.05	mg/kg		<0.05	<0.05	<0.05	----	----
Azinphos Methyl	86-50-0	0.05	mg/kg		<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	----	----
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		**0.6**	<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		**2.1**	<0.5	<0.5	----	----
Pyrene	129-00-0	0.5	mg/kg		**2.1**	<0.5	<0.5	----	----
Benz(a)anthracene	56-55-3	0.5	mg/kg		**1.3**	<0.5	<0.5	----	----
Chrysene	218-01-9	0.5	mg/kg		**1.0**	<0.5	<0.5	----	----
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg		**1.8**	<0.5	<0.5	----	----
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg		**0.6**	<0.5	<0.5	----	----
Benzo(a)pyrene	50-32-8	0.5	mg/kg		**1.5**	<0.5	<0.5	----	----
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg		**0.8**	<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		**1.0**	<0.5	<0.5	----	----
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg		**12.8**	<0.5	<0.5	----	----
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg		**2.0**	<0.5	<0.5	----	----
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg		**2.2**	**0.6**	**0.6**	----	----
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg		**2.5**	**1.2**	**1.2**	----	----
EP075A: Phenolic Compounds									
Phenol	108-95-2	0.5	mg/kg		<0.5	<0.5	<0.5	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	X3	TB	TB	----	----
				Sampling date / time	31-Oct-2024 00:00	31-Oct-2024 00:00	31-Oct-2024 00:00	----	----
Compound	CAS Number	LOR	Unit		EP2416162-069	EP2416162-071	EP2416162-072	--------	--------
					Result	Result	Result	----	----
EP075A: Phenolic Compounds - Continued									
2-Chlorophenol	95-57-8	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
2-Methylphenol	95-48-7	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
3- & 4-Methylphenol	1319-77-3	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
2-Nitrophenol	88-75-5	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
2.4-Dimethylphenol	105-67-9	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
2.4-Dichlorophenol	120-83-2	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
2.6-Dichlorophenol	87-65-0	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
2.4.6-Trichlorophenol	88-06-2	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
2.4.5-Trichlorophenol	95-95-4	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Pentachlorophenol	87-86-5	1	mg/kg		<1	<1	<1	----	----
EP075B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
2-Methylnaphthalene	91-57-6	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
2-Chloronaphthalene	91-58-7	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		1.8	<0.5	<0.5	----	----
Pyrene	129-00-0	0.5	mg/kg		1.8	<0.5	<0.5	----	----
N-2-Fluorenyl Acetamide	53-96-3	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Benz(a)anthracene	56-55-3	0.5	mg/kg		1.0	<0.5	<0.5	----	----
Chrysene	218-01-9	0.5	mg/kg		1.1	<0.5	<0.5	----	----
Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1	mg/kg		2	<1	<1	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	X3	TB	TB	----	----
				Sampling date / time	31-Oct-2024 00:00	31-Oct-2024 00:00	31-Oct-2024 00:00	----	----
Compound	CAS Number	LOR	Unit		EP2416162-069	EP2416162-071	EP2416162-072	--------	--------
					Result	Result	Result	----	----
EP075B: Polynuclear Aromatic Hydrocarbons - Continued									
7.12-Dimethylbenz(a)anthracene	57-97-6	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Benzo(a)pyrene	50-32-8	0.5	mg/kg		1.0	<0.5	<0.5	----	----
3-Methylcholanthrene	56-49-5	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 PAHs	----	0.5	mg/kg		8.7	<0.5	<0.5	----	----
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg		1.3	<0.5	<0.5	----	----
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg		1.6	0.6	0.6	----	----
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg		1.9	1.2	1.2	----	----
EP075C: Phthalate Esters									
Dimethyl phthalate	131-11-3	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Diethyl phthalate	84-66-2	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Di-n-butyl phthalate	84-74-2	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Butyl benzyl phthalate	85-68-7	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
bis(2-ethylhexyl) phthalate	117-81-7	5.0	mg/kg		<5.0	<5.0	<5.0	----	----
Di-n-octylphthalate	117-84-0	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
EP075D: Nitrosamines									
N-Nitrosomethylethylamine	10595-95-6	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
N-Nitrosodiethylamine	55-18-5	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
N-Nitrosopyrrolidine	930-55-2	1.0	mg/kg		<1.0	<1.0	<1.0	----	----
N-Nitrosomorpholine	59-89-2	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
N-Nitrosodi-n-propylamine	621-64-7	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
N-Nitrosopiperidine	100-75-4	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
N-Nitrosodibutylamine	924-16-3	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
N-Nitrosodiphenyl & Diphenylamine	86-30-6 122-39-4	1.0	mg/kg		<1.0	<1.0	<1.0	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	X3	TB	TB	----	----
				Sampling date / time	31-Oct-2024 00:00	31-Oct-2024 00:00	31-Oct-2024 00:00	----	----
Compound	CAS Number	LOR	Unit		EP2416162-069	EP2416162-071	EP2416162-072	--------	--------
					Result	Result	Result	----	----
EP075D: Nitrosamines - Continued									
Methapyrilene	91-80-5	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
EP075E: Nitroaromatics and Ketones									
2-Picoline	109-06-8	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Acetophenone	98-86-2	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Nitrobenzene	98-95-3	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Isophorone	78-59-1	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
2.6-Dinitrotoluene	606-20-2	1.0	mg/kg		<1.0	<1.0	<1.0	----	----
2.4-Dinitrotoluene	121-14-2	1.0	mg/kg		<1.0	<1.0	<1.0	----	----
1-Naphthylamine	134-32-7	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
4-Nitroquinoline-N-oxide	56-57-5	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
5-Nitro-o-toluidine	99-55-8	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Azobenzene	103-33-3	1	mg/kg		<1	<1	<1	----	----
1.3.5-Trinitrobenzene	99-35-4	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Phenacetin	62-44-2	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
4-Aminobiphenyl	92-67-1	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Pentachloronitrobenzene	82-68-8	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Pronamide	23950-58-5	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Dimethylaminoazobenzene	60-11-7	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Chlorobenzilate	510-15-6	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
EP075F: Haloethers									
Bis(2-chloroethyl) ether	111-44-4	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Bis(2-chloroethoxy) methane	111-91-1	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
4-Chlorophenyl phenyl ether	7005-72-3	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
4-Bromophenyl phenyl ether	101-55-3	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
EP075G: Chlorinated Hydrocarbons									
1.3-Dichlorobenzene	541-73-1	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
1.4-Dichlorobenzene	106-46-7	0.5	mg/kg		<0.5	<0.5	<0.5	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	X3	TB	TB	----	----
				Sampling date / time	31-Oct-2024 00:00	31-Oct-2024 00:00	31-Oct-2024 00:00	----	----
Compound	CAS Number	LOR	Unit		EP2416162-069	EP2416162-071	EP2416162-072	--------	--------
					Result	Result	Result	----	----
EP075G: Chlorinated Hydrocarbons - Continued									
1.2-Dichlorobenzene	95-50-1	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Hexachloroethane	67-72-1	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Hexachloropropylene	1888-71-7	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Hexachlorobutadiene	87-68-3	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Hexachlorocyclopentadiene	77-47-4	2.5	mg/kg		<2.5	<2.5	<2.5	----	----
Pentachlorobenzene	608-93-5	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Hexachlorobenzene (HCB)	118-74-1	1.0	mg/kg		<1.0	<1.0	<1.0	----	----
EP075H: Anilines and Benzidines									
Aniline	62-53-3	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
4-Chloroaniline	106-47-8	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
2-Nitroaniline	88-74-4	1.0	mg/kg		<1.0	<1.0	<1.0	----	----
3-Nitroaniline	99-09-2	1.0	mg/kg		<1.0	<1.0	<1.0	----	----
Dibenzofuran	132-64-9	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
4-Nitroaniline	100-01-6	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Carbazole	86-74-8	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
3.3`-Dichlorobenzidine	91-94-1	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
EP075I: Organochlorine Pesticides									
alpha-BHC	319-84-6	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
beta-BHC	319-85-7	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
gamma-BHC - (Lindane)	58-89-9	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
delta-BHC	319-86-8	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Heptachlor	76-44-8	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Aldrin	309-00-2	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Heptachlor epoxide	1024-57-3	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
alpha-Endosulfan	959-98-8	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
4.4`-DDE	72-55-9	0.5	mg/kg		<0.5	<0.5	<0.5	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	X3	TB	TB	----	----
				Sampling date / time	31-Oct-2024 00:00	31-Oct-2024 00:00	31-Oct-2024 00:00	----	----
Compound	CAS Number	LOR	Unit		EP2416162-069	EP2416162-071	EP2416162-072	--------	--------
					Result	Result	Result	----	----
EP075I: Organochlorine Pesticides - Continued									
Dieldrin	60-57-1	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Endrin	72-20-8	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
beta-Endosulfan	33213-65-9	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
4.4`-DDD	72-54-8	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Endosulfan sulfate	1031-07-8	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
4.4`-DDT	50-29-3	1.0	mg/kg		<1.0	<1.0	<1.0	----	----
^ **Sum of DDD + DDE + DDT**	72-54-8/72-55-9/50-2	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
^ **Sum of Aldrin + Dieldrin**	309-00-2/60-57-1	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
EP075J: Organophosphorus Pesticides									
Dichlorvos	62-73-7	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Dimethoate	60-51-5	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Diazinon	333-41-5	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Chlorpyrifos-methyl	5598-13-0	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Malathion	121-75-5	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Fenthion	55-38-9	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Chlorpyrifos	2921-88-2	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Pirimphos-ethyl	23505-41-1	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Chlorfenvinphos	470-90-6	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Prothiofos	34643-46-4	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Ethion	563-12-2	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
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	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	X3	TB	TB	----	----
				Sampling date / time	31-Oct-2024 00:00	31-Oct-2024 00:00	31-Oct-2024 00:00	----	----
Compound	CAS Number	LOR	Unit		EP2416162-069	EP2416162-071	EP2416162-072	--------	--------
					Result	Result	Result	----	----
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		130	<100	<100	----	----
>C34 - C40 Fraction	----	100	mg/kg		<100	<100	<100	----	----
^ >C10 - C40 Fraction (sum)	----	50	mg/kg		130	<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	----	----
^ 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	----	----
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.05	%		92.7	94.1	87.4	----	----
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.05	%		142	139	125	----	----
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	0.5	%		77.9	85.4	84.5	----	----
2-Chlorophenol-D4	93951-73-6	0.5	%		81.2	92.4	92.2	----	----
2.4.6-Tribromophenol	118-79-6	0.5	%		52.0	51.7	50.0	----	----
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	0.5	%		96.7	91.9	91.9	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	X3	TB	TB	----	----
				Sampling date / time	31-Oct-2024 00:00	31-Oct-2024 00:00	31-Oct-2024 00:00	----	----
Compound	CAS Number	LOR	Unit		EP2416162-069	EP2416162-071	EP2416162-072	--------	--------
					Result	Result	Result	----	----
EP075(SIM)T: PAH Surrogates - Continued									
Anthracene-d10	1719-06-8	0.5	%		90.0	102	101	----	----
4-Terphenyl-d14	1718-51-0	0.5	%		105	112	110	----	----
EP075S: Acid Extractable Surrogates									
2-Fluorophenol	367-12-4	0.5	%		44.6	56.6	55.6	----	----
Phenol-d6	13127-88-3	0.5	%		69.5	72.0	75.5	----	----
2-Chlorophenol-D4	93951-73-6	0.5	%		55.9	62.9	54.8	----	----
2.4.6-Tribromophenol	118-79-6	0.5	%		47.8	39.3	41.0	----	----
EP075T: Base/Neutral Extractable Surrogates									
Nitrobenzene-D5	4165-60-0	0.5	%		55.4	54.9	53.6	----	----
1.2-Dichlorobenzene-D4	2199-69-1	0.5	%		61.3	60.8	61.3	----	----
2-Fluorobiphenyl	321-60-8	0.5	%		66.8	67.0	69.5	----	----
Anthracene-d10	1719-06-8	0.5	%		50.6	58.3	61.6	----	----
4-Terphenyl-d14	1718-51-0	0.5	%		58.7	65.7	64.0	----	----
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	0.2	%		103	104	108	----	----
Toluene-D8	2037-26-5	0.2	%		90.9	105	105	----	----
4-Bromofluorobenzene	460-00-4	0.2	%		89.7	97.6	97.8	----	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	RB	FB	RB	FB	----
			Sampling date / time	30-Oct-2024 00:00	30-Oct-2024 00:00	31-Oct-2024 00:00	31-Oct-2024 00:00	----
Compound	CAS Number	LOR	Unit	EP2416162-073	EP2416162-074	EP2416162-075	EP2416162-076	--------
				Result	Result	Result	Result	----
EG020T: Total Metals by ICP-MS								
Arsenic	7440-38-2	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	----
Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	----
Chromium	7440-47-3	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	----
Copper	7440-50-8	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	----
Lead	7439-92-1	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	----
Nickel	7440-02-0	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	----
Zinc	7440-66-6	0.005	mg/L	<0.005	<0.005	<0.005	<0.005	----
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.0001	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	----
EP068A: Organochlorine Pesticides (OC)								
alpha-BHC	319-84-6	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	----
Hexachlorobenzene (HCB)	118-74-1	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	----
beta-BHC	319-85-7	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	----
gamma-BHC - (Lindane)	58-89-9	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	----
delta-BHC	319-86-8	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	----
Heptachlor	76-44-8	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	----
Aldrin	309-00-2	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	----
Heptachlor epoxide	1024-57-3	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	----
trans-Chlordane	5103-74-2	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	----
alpha-Endosulfan	959-98-8	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	----
cis-Chlordane	5103-71-9	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	----
Dieldrin	60-57-1	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	----
4.4`-DDE	72-55-9	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	----
Endrin	72-20-8	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	----
beta-Endosulfan	33213-65-9	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	----
4.4`-DDD	72-54-8	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	----
Endrin aldehyde	7421-93-4	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	RB	FB	RB	FB	----
				Sampling date / time	30-Oct-2024 00:00	30-Oct-2024 00:00	31-Oct-2024 00:00	31-Oct-2024 00:00	----
Compound	CAS Number	LOR	Unit		EP2416162-073	EP2416162-074	EP2416162-075	EP2416162-076	--------
					Result	Result	Result	Result	----
EP068A: Organochlorine Pesticides (OC) - Continued									
Endosulfan sulfate	1031-07-8	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	----
4.4`-DDT	50-29-3	2.0	µg/L		<2.0	<2.0	<2.0	<2.0	----
Endrin ketone	53494-70-5	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	----
Methoxychlor	72-43-5	2.0	µg/L		<2.0	<2.0	<2.0	<2.0	----
^ **Total Chlordane (sum)**	----	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	----
^ **Sum of DDD + DDE + DDT**	72-54-8/72-55-9/50-2	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	----
^ **Sum of Aldrin + Dieldrin**	309-00-2/60-57-1	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	----
EP068B: Organophosphorus Pesticides (OP)									
Dichlorvos	62-73-7	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	----
Demeton-S-methyl	919-86-8	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	----
Monocrotophos	6923-22-4	2.0	µg/L		<2.0	<2.0	<2.0	<2.0	----
Dimethoate	60-51-5	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	----
Diazinon	333-41-5	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	----
Chlorpyrifos-methyl	5598-13-0	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	----
Parathion-methyl	298-00-0	2.0	µg/L		<2.0	<2.0	<2.0	<2.0	----
Malathion	121-75-5	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	----
Fenthion	55-38-9	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	----
Chlorpyrifos	2921-88-2	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	----
Parathion	56-38-2	2.0	µg/L		<2.0	<2.0	<2.0	<2.0	----
Pirimphos-ethyl	23505-41-1	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	----
Chlorfenvinphos	470-90-6	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	----
Bromophos-ethyl	4824-78-6	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	----
Fenamiphos	22224-92-6	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	----
Prothiofos	34643-46-4	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	----
Ethion	563-12-2	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	----
Carbophenothion	786-19-6	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	RB	FB	RB	FB	----
				Sampling date / time	30-Oct-2024 00:00	30-Oct-2024 00:00	31-Oct-2024 00:00	31-Oct-2024 00:00	----
Compound	CAS Number	LOR	Unit		EP2416162-073	EP2416162-074	EP2416162-075	EP2416162-076	--------
					Result	Result	Result	Result	----
EP068B: Organophosphorus Pesticides (OP) - Continued									
Azinphos Methyl	86-50-0	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	----
Acenaphthylene	208-96-8	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	----
Acenaphthene	83-32-9	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	----
Fluorene	86-73-7	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	----
Phenanthrene	85-01-8	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	----
Anthracene	120-12-7	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	----
Fluoranthene	206-44-0	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	----
Pyrene	129-00-0	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	----
Benz(a)anthracene	56-55-3	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	----
Chrysene	218-01-9	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	----
Benzo(b+j)fluoranthene	205-99-2 205-82-3	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	----
Benzo(k)fluoranthene	207-08-9	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	----
Benzo(a)pyrene	50-32-8	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	----
Indeno(1.2.3.cd)pyrene	193-39-5	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	----
Dibenz(a.h)anthracene	53-70-3	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	----
Benzo(g.h.i)perylene	191-24-2	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	----
^ **Sum of polycyclic aromatic hydrocarbons**	----	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	----
^ **Benzo(a)pyrene TEQ (zero)**	----	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	----
EP075A: Phenolic Compounds									
Phenol	108-95-2	2	µg/L		<2	<2	<2	<2	----
2-Chlorophenol	95-57-8	2	µg/L		<2	<2	<2	<2	----
2-Methylphenol	95-48-7	2	µg/L		<2	<2	<2	<2	----
3- & 4-Methylphenol	1319-77-3	4	µg/L		<4	<4	<4	<4	----
2-Nitrophenol	88-75-5	2	µg/L		<2	<2	<2	<2	----
2.4-Dimethylphenol	105-67-9	2	µg/L		<2	<2	<2	<2	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	RB	FB	RB	FB	----
				Sampling date / time	30-Oct-2024 00:00	30-Oct-2024 00:00	31-Oct-2024 00:00	31-Oct-2024 00:00	----
Compound	CAS Number	LOR	Unit		EP2416162-073	EP2416162-074	EP2416162-075	EP2416162-076	--------
					Result	Result	Result	Result	----
EP075A: Phenolic Compounds - Continued									
2.4-Dichlorophenol	120-83-2	2	µg/L		<2	<2	<2	<2	----
2.6-Dichlorophenol	87-65-0	2	µg/L		<2	<2	<2	<2	----
4-Chloro-3-methylphenol	59-50-7	2	µg/L		<2	<2	<2	<2	----
2.4.6-Trichlorophenol	88-06-2	2	µg/L		<2	<2	<2	<2	----
2.4.5-Trichlorophenol	95-95-4	2	µg/L		<2	<2	<2	<2	----
Pentachlorophenol	87-86-5	4	µg/L		<4	<4	<4	<4	----
EP075B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	2	µg/L		<2	<2	<2	<2	----
2-Methylnaphthalene	91-57-6	2	µg/L		<2	<2	<2	<2	----
2-Chloronaphthalene	91-58-7	2	µg/L		<2	<2	<2	<2	----
Acenaphthylene	208-96-8	2	µg/L		<2	<2	<2	<2	----
Acenaphthene	83-32-9	2	µg/L		<2	<2	<2	<2	----
Fluorene	86-73-7	2	µg/L		<2	<2	<2	<2	----
Phenanthrene	85-01-8	2	µg/L		<2	<2	<2	<2	----
Anthracene	120-12-7	2	µg/L		<2	<2	<2	<2	----
Fluoranthene	206-44-0	2	µg/L		<2	<2	<2	<2	----
Pyrene	129-00-0	2	µg/L		<2	<2	<2	<2	----
N-2-Fluorenyl Acetamide	53-96-3	2	µg/L		<2	<2	<2	<2	----
Benz(a)anthracene	56-55-3	2	µg/L		<2	<2	<2	<2	----
Chrysene	218-01-9	2	µg/L		<2	<2	<2	<2	----
Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	4	µg/L		<4	<4	<4	<4	----
7.12-Dimethylbenz(a)anthracene	57-97-6	2	µg/L		<2	<2	<2	<2	----
Benzo(a)pyrene	50-32-8	2	µg/L		<2	<2	<2	<2	----
3-Methylcholanthrene	56-49-5	2	µg/L		<2	<2	<2	<2	----
Indeno(1.2.3.cd)pyrene	193-39-5	2	µg/L		<2	<2	<2	<2	----
Dibenz(a.h)anthracene	53-70-3	2	µg/L		<2	<2	<2	<2	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	RB	FB	RB	FB	----
				Sampling date / time	30-Oct-2024 00:00	30-Oct-2024 00:00	31-Oct-2024 00:00	31-Oct-2024 00:00	----
Compound	CAS Number	LOR	Unit		EP2416162-073	EP2416162-074	EP2416162-075	EP2416162-076	--------
					Result	Result	Result	Result	----
EP075B: Polynuclear Aromatic Hydrocarbons - Continued									
Benzo(g.h.i)perylene	191-24-2	2	µg/L		<2	<2	<2	<2	----
^ Sum of PAHs	----	2	µg/L		<2	<2	<2	<2	----
^ Benzo(a)pyrene TEQ (zero)	----	2	µg/L		<2	<2	<2	<2	----
EP075C: Phthalate Esters									
Dimethyl phthalate	131-11-3	2	µg/L		<2	<2	<2	<2	----
Diethyl phthalate	84-66-2	2	µg/L		<2	<2	<2	<2	----
Di-n-butyl phthalate	84-74-2	2	µg/L		<2	<2	<2	<2	----
Butyl benzyl phthalate	85-68-7	2	µg/L		<2	<2	<2	<2	----
bis(2-ethylhexyl) phthalate	117-81-7	10	µg/L		<10	<10	<10	<10	----
Di-n-octylphthalate	117-84-0	2	µg/L		<2	<2	<2	<2	----
EP075D: Nitrosamines									
N-Nitrosomethylethylamine	10595-95-6	2	µg/L		<2	<2	<2	<2	----
N-Nitrosodiethylamine	55-18-5	2	µg/L		<2	<2	<2	<2	----
N-Nitrosopyrrolidine	930-55-2	4	µg/L		<4	<4	<4	<4	----
N-Nitrosomorpholine	59-89-2	2	µg/L		<2	<2	<2	<2	----
N-Nitrosodi-n-propylamine	621-64-7	2	µg/L		<2	<2	<2	<2	----
N-Nitrosopiperidine	100-75-4	2	µg/L		<2	<2	<2	<2	----
N-Nitrosodibutylamine	924-16-3	2	µg/L		<2	<2	<2	<2	----
N-Nitrosodiphenyl & Diphenylamine	86-30-6 122-39-4	4	µg/L		<4	<4	<4	<4	----
Methapyrilene	91-80-5	2	µg/L		<2	<2	<2	<2	----
EP075E: Nitroaromatics and Ketones									
2-Picoline	109-06-8	2	µg/L		<2	<2	<2	<2	----
Acetophenone	98-86-2	2	µg/L		<2	<2	<2	<2	----
Nitrobenzene	98-95-3	2	µg/L		<2	<2	<2	<2	----
Isophorone	78-59-1	2	µg/L		<2	<2	<2	<2	----
2.6-Dinitrotoluene	606-20-2	4	µg/L		<4	<4	<4	<4	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	RB	FB	RB	FB	----
				Sampling date / time	30-Oct-2024 00:00	30-Oct-2024 00:00	31-Oct-2024 00:00	31-Oct-2024 00:00	----
Compound	CAS Number	LOR	Unit		EP2416162-073	EP2416162-074	EP2416162-075	EP2416162-076	--------
					Result	Result	Result	Result	----
EP075E: Nitroaromatics and Ketones - Continued									
2.4-Dinitrotoluene	121-14-2	4	µg/L		<4	<4	<4	<4	----
1-Naphthylamine	134-32-7	2	µg/L		<2	<2	<2	<2	----
4-Nitroquinoline-N-oxide	56-57-5	2	µg/L		<2	<2	<2	<2	----
5-Nitro-o-toluidine	99-55-8	2	µg/L		<2	<2	<2	<2	----
Azobenzene	103-33-3	2	µg/L		<2	<2	<2	<2	----
1.3.5-Trinitrobenzene	99-35-4	2	µg/L		<2	<2	<2	<2	----
Phenacetin	62-44-2	2	µg/L		<2	<2	<2	<2	----
4-Aminobiphenyl	92-67-1	2	µg/L		<2	<2	<2	<2	----
Pentachloronitrobenzene	82-68-8	2	µg/L		<2	<2	<2	<2	----
Pronamide	23950-58-5	2	µg/L		<2	<2	<2	<2	----
Dimethylaminoazobenzene	60-11-7	2	µg/L		<2	<2	<2	<2	----
Chlorobenzilate	510-15-6	2	µg/L		<2	<2	<2	<2	----
EP075F: Haloethers									
Bis(2-chloroethyl) ether	111-44-4	2	µg/L		<2	<2	<2	<2	----
Bis(2-chloroethoxy) methane	111-91-1	2	µg/L		<2	<2	<2	<2	----
4-Chlorophenyl phenyl ether	7005-72-3	2	µg/L		<2	<2	<2	<2	----
4-Bromophenyl phenyl ether	101-55-3	2	µg/L		<2	<2	<2	<2	----
EP075G: Chlorinated Hydrocarbons									
1.3-Dichlorobenzene	541-73-1	2	µg/L		<2	<2	<2	<2	----
1.4-Dichlorobenzene	106-46-7	2	µg/L		<2	<2	<2	<2	----
1.2-Dichlorobenzene	95-50-1	2	µg/L		<2	<2	<2	<2	----
Hexachloroethane	67-72-1	2	µg/L		<2	<2	<2	<2	----
1.2.4-Trichlorobenzene	120-82-1	2	µg/L		<2	<2	<2	<2	----
Hexachloropropylene	1888-71-7	2	µg/L		<2	<2	<2	<2	----
Hexachlorobutadiene	87-68-3	2	µg/L		<2	<2	<2	<2	----
Hexachlorocyclopentadiene	77-47-4	10	µg/L		<10	<10	<10	<10	----
Pentachlorobenzene	608-93-5	2	µg/L		<2	<2	<2	<2	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	RB	FB	RB	FB	----
				Sampling date / time	30-Oct-2024 00:00	30-Oct-2024 00:00	31-Oct-2024 00:00	31-Oct-2024 00:00	----
Compound	CAS Number	LOR	Unit		EP2416162-073	EP2416162-074	EP2416162-075	EP2416162-076	--------
					Result	Result	Result	Result	----
EP075G: Chlorinated Hydrocarbons - Continued									
Hexachlorobenzene (HCB)	118-74-1	4	µg/L		<4	<4	<4	<4	----
EP075H: Anilines and Benzidines									
Aniline	62-53-3	2	µg/L		<2	<2	<2	<2	----
4-Chloroaniline	106-47-8	2	µg/L		<2	<2	<2	<2	----
2-Nitroaniline	88-74-4	4	µg/L		<4	<4	<4	<4	----
3-Nitroaniline	99-09-2	4	µg/L		<4	<4	<4	<4	----
Dibenzofuran	132-64-9	2	µg/L		<2	<2	<2	<2	----
4-Nitroaniline	100-01-6	2	µg/L		<2	<2	<2	<2	----
Carbazole	86-74-8	2	µg/L		<2	<2	<2	<2	----
3.3`-Dichlorobenzidine	91-94-1	2	µg/L		<2	<2	<2	<2	----
EP075I: Organochlorine Pesticides									
alpha-BHC	319-84-6	2	µg/L		<2	<2	<2	<2	----
beta-BHC	319-85-7	2	µg/L		<2	<2	<2	<2	----
gamma-BHC - (Lindane)	58-89-9	2	µg/L		<2	<2	<2	<2	----
delta-BHC	319-86-8	2	µg/L		<2	<2	<2	<2	----
Heptachlor	76-44-8	2	µg/L		<2	<2	<2	<2	----
Aldrin	309-00-2	2	µg/L		<2	<2	<2	<2	----
Heptachlor epoxide	1024-57-3	2	µg/L		<2	<2	<2	<2	----
alpha-Endosulfan	959-98-8	2	µg/L		<2	<2	<2	<2	----
4.4`-DDE	72-55-9	2	µg/L		<2	<2	<2	<2	----
Dieldrin	60-57-1	2	µg/L		<2	<2	<2	<2	----
Endrin	72-20-8	2	µg/L		<2	<2	<2	<2	----
beta-Endosulfan	33213-65-9	2	µg/L		<2	<2	<2	<2	----
4.4`-DDD	72-54-8	2	µg/L		<2	<2	<2	<2	----
Endosulfan sulfate	1031-07-8	2	µg/L		<2	<2	<2	<2	----
4.4`-DDT	50-29-3	4	µg/L		<4	<4	<4	<4	----
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	4	µg/L		<4	<4	<4	<4	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	RB	FB	RB	FB	----
				Sampling date / time	30-Oct-2024 00:00	30-Oct-2024 00:00	31-Oct-2024 00:00	31-Oct-2024 00:00	----
Compound	CAS Number	LOR	Unit		EP2416162-073	EP2416162-074	EP2416162-075	EP2416162-076	--------
					Result	Result	Result	Result	----
EP075I: Organochlorine Pesticides - Continued									
^ **Sum of DDD + DDE + DDT**	72-54-8/72-55-9/50-2	4	µg/L		<4	<4	<4	<4	----
EP075J: Organophosphorus Pesticides									
Dichlorvos	62-73-7	2	µg/L		<2	<2	<2	<2	----
Dimethoate	60-51-5	2	µg/L		<2	<2	<2	<2	----
Diazinon	333-41-5	2	µg/L		<2	<2	<2	<2	----
Chlorpyrifos-methyl	5598-13-0	2	µg/L		<2	<2	<2	<2	----
Malathion	121-75-5	2	µg/L		<2	<2	<2	<2	----
Fenthion	55-38-9	2	µg/L		<2	<2	<2	<2	----
Chlorpyrifos	2921-88-2	2	µg/L		<2	<2	<2	<2	----
Pirimphos-ethyl	23505-41-1	2	µg/L		<2	<2	<2	<2	----
Chlorfenvinphos	470-90-6	2	µg/L		<2	<2	<2	<2	----
Prothiofos	34643-46-4	2	µg/L		<2	<2	<2	<2	----
Ethion	563-12-2	2	µg/L		<2	<2	<2	<2	----
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	20	µg/L		<20	<20	<20	<20	----
C10 - C14 Fraction	----	50	µg/L		<50	<50	<50	<50	----
C15 - C28 Fraction	----	100	µg/L		<100	<100	<100	<100	----
C29 - C36 Fraction	----	50	µg/L		<50	<50	<50	<50	----
^ **C10 - C36 Fraction (sum)**	----	50	µg/L		<50	<50	<50	<50	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	20	µg/L		<20	<20	<20	<20	----
^ **C6 - C10 Fraction minus BTEX (F1)**	C6_C10-BTEX	20	µg/L		<20	<20	<20	<20	----
>C10 - C16 Fraction	----	100	µg/L		<100	<100	<100	<100	----
>C16 - C34 Fraction	----	100	µg/L		<100	<100	<100	<100	----
>C34 - C40 Fraction	----	100	µg/L		<100	<100	<100	<100	----
^ **>C10 - C40 Fraction (sum)**	----	100	µg/L		<100	<100	<100	<100	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	RB	FB	RB	FB	----
				Sampling date / time	30-Oct-2024 00:00	30-Oct-2024 00:00	31-Oct-2024 00:00	31-Oct-2024 00:00	----
Compound	CAS Number	LOR	Unit		EP2416162-073	EP2416162-074	EP2416162-075	EP2416162-076	--------
					Result	Result	Result	Result	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions - Continued									
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	100	µg/L		<100	<100	<100	<100	----
EP080: BTEXN									
Benzene	71-43-2	1	µg/L		<1	<1	<1	<1	----
Toluene	108-88-3	2	µg/L		<2	<2	<2	<2	----
Ethylbenzene	100-41-4	2	µg/L		<2	<2	<2	<2	----
meta- & para-Xylene	108-38-3 106-42-3	2	µg/L		<2	<2	<2	<2	----
ortho-Xylene	95-47-6	2	µg/L		<2	<2	<2	<2	----
^ Total Xylenes	----	2	µg/L		<2	<2	<2	<2	----
^ Sum of BTEX	----	1	µg/L		<1	<1	<1	<1	----
Naphthalene	91-20-3	5	µg/L		<5	<5	<5	<5	----
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.5	%		63.3	91.4	108	95.4	----
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.5	%		68.1	99.6	119	88.5	----
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	1.0	%		26.7	29.0	24.8	31.7	----
2-Chlorophenol-D4	93951-73-6	1.0	%		72.8	75.3	60.6	84.0	----
2.4.6-Tribromophenol	118-79-6	1.0	%		45.7	50.5	45.6	61.2	----
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	1.0	%		74.1	76.1	64.5	87.1	----
Anthracene-d10	1719-06-8	1.0	%		97.5	108	89.5	77.4	----
4-Terphenyl-d14	1718-51-0	1.0	%		111	117	98.1	81.4	----
EP075S: Acid Extractable Surrogates									
2-Fluorophenol	367-12-4	2	%		26.2	30.4	33.6	33.8	----
Phenol-d6	13127-88-3	2	%		22.7	26.1	33.9	27.6	----
2-Chlorophenol-D4	93951-73-6	2	%		59.8	63.3	83.8	68.8	----
2.4.6-Tribromophenol	118-79-6	2	%		29.1	39.7	53.8	38.5	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	RB	FB	RB	FB	----
				Sampling date / time	30-Oct-2024 00:00	30-Oct-2024 00:00	31-Oct-2024 00:00	31-Oct-2024 00:00	----
Compound	CAS Number	LOR	Unit		EP2416162-073	EP2416162-074	EP2416162-075	EP2416162-076	--------
					Result	Result	Result	Result	----
EP075T: Base/Neutral Extractable Surrogates									
Nitrobenzene-D5	4165-60-0	2	%		**57.3**	**66.2**	**86.9**	**70.8**	**----**
1.2-Dichlorobenzene-D4	2199-69-1	2	%		**59.6**	**70.3**	**86.9**	**73.4**	**----**
2-Fluorobiphenyl	321-60-8	2	%		**83.0**	**98.2**	**131**	**107**	**----**
Anthracene-d10	1719-06-8	2	%		**72.2**	**86.2**	**127**	**112**	**----**
4-Terphenyl-d14	1718-51-0	2	%		**102**	**124**	**180**	**145**	**----**
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	2	%		**85.0**	**85.0**	**82.2**	**84.5**	**----**
Toluene-D8	2037-26-5	2	%		**98.7**	**101**	**100**	**99.4**	**----**
4-Bromofluorobenzene	460-00-4	2	%		**88.6**	**90.3**	**88.7**	**87.4**	**----**

Surrogate Control Limits

Sub-Matrix: SOIL		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP068S: Organochlorine Pesticide Surrogate			
Dibromo-DDE	21655-73-2	53	152
EP068T: Organophosphorus Pesticide Surrogate			
DEF	78-48-8	28	152
EP075(SIM)S: Phenolic Compound Surrogates			
Phenol-d6	13127-88-3	57	119
2-Chlorophenol-D4	93951-73-6	52	130
2.4.6-Tribromophenol	118-79-6	40	132
EP075(SIM)T: PAH Surrogates			
2-Fluorobiphenyl	321-60-8	53	139
Anthracene-d10	1719-06-8	68	124
4-Terphenyl-d14	1718-51-0	66	132
EP075S: Acid Extractable Surrogates			
2-Fluorophenol	367-12-4	34	132
Phenol-d6	13127-88-3	46	132
2-Chlorophenol-D4	93951-73-6	45	135
2.4.6-Tribromophenol	118-79-6	39	139
EP075T: Base/Neutral Extractable Surrogates			
Nitrobenzene-D5	4165-60-0	38	132
1.2-Dichlorobenzene-D4	2199-69-1	40	126
2-Fluorobiphenyl	321-60-8	43	131
Anthracene-d10	1719-06-8	49	131
4-Terphenyl-d14	1718-51-0	54	140
EP080S: TPH(V)/BTEX Surrogates			
1.2-Dichloroethane-D4	17060-07-0	63	132
Toluene-D8	2037-26-5	66	125
4-Bromofluorobenzene	460-00-4	60	124

Sub-Matrix: WATER		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP068S: Organochlorine Pesticide Surrogate			
Dibromo-DDE	21655-73-2	50	146
EP068T: Organophosphorus Pesticide Surrogate			
DEF	78-48-8	27	153
EP075(SIM)S: Phenolic Compound Surrogates			
Phenol-d6	13127-88-3	10	67
2-Chlorophenol-D4	93951-73-6	29	120
2.4.6-Tribromophenol	118-79-6	10	131
EP075(SIM)T: PAH Surrogates			

Sub-Matrix: WATER		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP075(SIM)T: PAH Surrogates - Continued			
2-Fluorobiphenyl	321-60-8	34	131
Anthracene-d10	1719-06-8	43	126
4-Terphenyl-d14	1718-51-0	41	142
EP075S: Acid Extractable Surrogates			
2-Fluorophenol	367-12-4	23	115
Phenol-d6	13127-88-3	10	163
2-Chlorophenol-D4	93951-73-6	44	124
2.4.6-Tribromophenol	118-79-6	19	146
EP075T: Base/Neutral Extractable Surrogates			
Nitrobenzene-D5	4165-60-0	51	130
1.2-Dichlorobenzene-D4	2199-69-1	31	121
2-Fluorobiphenyl	321-60-8	42	136
Anthracene-d10	1719-06-8	53	131
4-Terphenyl-d14	1718-51-0	44	141
EP080S: TPH(V)/BTEX Surrogates			
1.2-Dichloroethane-D4	17060-07-0	61	141
Toluene-D8	2037-26-5	73	126
4-Bromofluorobenzene	460-00-4	60	125

QUALITY CONTROL REPORT

Work Order	: **EP2416162**	Page	: 1 of 56
Client	: **West Soil & Water**	Laboratory	: Environmental Division Perth
Contact	: Sam Mueller	Contact	: Bethany Hatter
Address	: 3/194 Holbeck Street Doubleview 6018	Address	: 26 Rigali Way Wangara WA Australia 6065
Telephone	: ----	Telephone	: +61-8-9406 1301
Project	: 20240730_147 Burswood Road Additional Investigations	Date Samples Received	: 31-Oct-2024
Order number	: ----	Date Analysis Commenced	: 04-Nov-2024
C-O-C number	: ----	Issue Date	: 13-Nov-2024
Sampler	: Audrey Scanlan, Sam Mueller		
Site	: 147 Burswood Road		
Quote number	: WA Custom Rates		
No. of samples received	: 76		
No. of samples analysed	: 42		

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 Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits
- Method Blank (MB) and Laboratory Control Spike (LCS) Report; Recovery and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits

Signatories

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

Signatories	*Position*	*Accreditation Category*
Canhuang Ke	Inorganics Supervisor	Perth Inorganics, Wangara, WA
Daniel Anthony	Instrument Chemist	Perth Organics, Wangara, WA
David Viner	SENIOR LAB TECH	Perth Organics, Wangara, WA
Efua Wilson	Metals Chemist	Perth Inorganics, Wangara, WA
Hayley Baines	Lab Technician	Perth Organics, Wangara, WA
John Horwood	Organic Supervisor	Perth Organics, Wangara, WA

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.

Key : Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot
CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
RPD = Relative Percentage Difference
# = Indicates failed QC
* = The final LOR has been raised due to dilution or other sample specific cause; adjusted LOR is shown in brackets. The duplicate ranges for Acceptable RPD% are applied to the final LOR where applicable.

Laboratory Duplicate (DUP) Report

The quality control term Laboratory Duplicate refers to a randomly selected intralaboratory split. Laboratory duplicates provide information regarding method precision and sample heterogeneity. The permitted ranges for the Relative Percent Deviation (RPD) of Laboratory Duplicates are specified in ALS Method QWI-EN/38 and are dependent on the magnitude of results in comparison to the level of reporting: Result < 10 times LOR: No Limit; Result between 10 and 20 times LOR: 0% - 50%; Result > 20 times LOR: 0% - 20%.

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 6171203)									
EP2416162-001	S10 0.25	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	<2	<2	0.0	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	<2	<2	0.0	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	13	17	27.7	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	34	28	17.8	No Limit
EP2416162-020	S13 0.50	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	6	9	33.4	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	3	4	0.0	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	55	66	17.8	0% - 50%
		EG005T: Lead	7439-92-1	5	mg/kg	152	144	5.4	0% - 20%
		EG005T: Zinc	7440-66-6	5	mg/kg	79	98	21.4	0% - 50%
EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 6171207)									
EP2416162-041	S16 1.70	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	<2	<2	0.0	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	<2	<2	0.0	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	<5	<5	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 6171207) - continued									
EP2416162-041	S16 1.70	EG005T: Zinc	7440-66-6	5	mg/kg	30	34	14.7	No Limit
EP2416162-059	S19 1.50	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	2	3	0.0	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	<2	<2	0.0	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	7	6	0.0	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	69	60	13.6	0% - 50%
		EG005T: Zinc	7440-66-6	5	mg/kg	75	74	0.0	0% - 50%
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 6171064)									
EP2415868-004	Anonymous	EA055: Moisture Content	----	0.1	%	9.2	9.4	2.7	0% - 20%
EP2415868-014	Anonymous	EA055: Moisture Content	----	0.1	%	8.6	8.1	6.2	0% - 20%
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 6171065)									
EP2416162-014	S12 0.50	EA055: Moisture Content	----	0.1 (1.0)*	%	2.3	2.4	0.0	No Limit
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 6171066)									
EP2416162-019	S13 0.25	EA055: Moisture Content	----	0.1 (1.0)*	%	4.0	4.4	8.3	No Limit
EP2416162-039	S16 0.50	EA055: Moisture Content	----	0.1 (1.0)*	%	2.1	2.1	0.0	No Limit
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 6171067)									
EP2416162-057	S19 0.50	EA055: Moisture Content	----	0.1 (1.0)*	%	1.6	1.6	0.0	No Limit
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 6171202)									
EP2416162-001	S10 0.25	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EP2416162-020	S13 0.50	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 6171208)									
EP2416162-041	S16 1.70	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EP2416162-059	S19 1.50	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EP068A: Organochlorine Pesticides (OC) (QC Lot: 6164024)									
EP2416162-001	S10 0.25	EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-BHC	319-85-7	0.05 (0.07)*	mg/kg	<0.05	<0.07	30.8	No Limit
		EP068: gamma-BHC - (Lindane)	58-89-9	0.05 (0.07)*	mg/kg	<0.05	<0.07	30.8	No Limit
		EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Total Chlordane (sum)	----	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP068A: Organochlorine Pesticides (OC) (QC Lot: 6164024) - continued									
EP2416162-001	S10 0.25	EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endosulfan (sum)	115-29-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
EP2416162-020	S13 0.50	EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-BHC	319-85-7	0.05 (0.07)*	mg/kg	<0.05	<0.07	30.5	No Limit
		EP068: gamma-BHC - (Lindane)	58-89-9	0.05 (0.07)*	mg/kg	<0.05	<0.07	30.5	No Limit
		EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Total Chlordane (sum)	----	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Dieldrin	60-57-1	0.05 (0.07)*	mg/kg	<0.05	<0.07	30.5	No Limit
		EP068: 4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endosulfan (sum)	115-29-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP068A: Organochlorine Pesticides (OC) (QC Lot: 6164024) - continued									
EP2416162-020	S13 0.50	EP068: Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
EP068A: Organochlorine Pesticides (OC) (QC Lot: 6164039)									
EP2416162-038	S16 0.00	EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: gamma-BHC - (Lindane)	58-89-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Total Chlordane (sum)	----	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Dieldrin	60-57-1	0.05	mg/kg	0.06	0.08	26.7	No Limit
		EP068: 4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endosulfan (sum)	115-29-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	0.06	0.08	28.6	No Limit
		EP068: 4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
EP2416162-056	S19 0.25	EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: gamma-BHC - (Lindane)	58-89-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP068A: Organochlorine Pesticides (OC) (QC Lot: 6164039) - continued									
EP2416162-056	S19 0.25	EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Total Chlordane (sum)	----	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endosulfan (sum)	115-29-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
EP068B: Organophosphorus Pesticides (OP) (QC Lot: 6164024)									
EP2416162-001	S10 0.25	EP068: Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP068B: Organophosphorus Pesticides (OP) (QC Lot: 6164024) - continued									
EP2416162-001	S10 0.25	EP068: Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
EP2416162-020	S13 0.50	EP068: Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
EP068B: Organophosphorus Pesticides (OP) (QC Lot: 6164039)									
EP2416162-038	S16 0.00	EP068: Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP068B: Organophosphorus Pesticides (OP) (QC Lot: 6164039) - continued									
EP2416162-038	S16 0.00	EP068: Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
EP2416162-056	S19 0.25	EP068: Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 6164021)									
EP2416162-001	S10 0.25	EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 6164021) - continued									
EP2416162-001	S10 0.25	EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP2416162-020	S13 0.50	EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	1.6	1.8	11.3	No Limit
		EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	2.2	2.3	0.0	No Limit
		EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	2.3	2.3	0.0	No Limit
		EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	1.1	1.1	0.0	No Limit
		EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	1.0	0.9	0.0	No Limit
		EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	1.2	1.2	0.0	No Limit
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	0.6	0.6	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	1.1	1.1	0.0	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	0.6	0.6	0.0	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	0.8	0.8	0.0	No Limit
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 6164037)									
EP2416162-038	S16 0.00	EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 6164037) - continued									
EP2416162-056	S19 0.25	EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP075A: Phenolic Compounds (QC Lot: 6164025)									
EP2416162-001	S10 0.25	EP075: Phenol	108-95-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2-Chlorophenol	95-57-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2-Methylphenol	95-48-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 3- & 4-Methylphenol	1319-77-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2-Nitrophenol	88-75-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2.4-Dimethylphenol	105-67-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2.4-Dichlorophenol	120-83-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2.6-Dichlorophenol	87-65-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2.4.6-Trichlorophenol	88-06-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2.4.5-Trichlorophenol	95-95-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Pentachlorophenol	87-86-5	1	mg/kg	<1	<1	0.0	No Limit
EP2416162-020	S13 0.50	EP075: Phenol	108-95-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2-Chlorophenol	95-57-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2-Methylphenol	95-48-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 3- & 4-Methylphenol	1319-77-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2-Nitrophenol	88-75-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2.4-Dimethylphenol	105-67-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2.4-Dichlorophenol	120-83-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2.6-Dichlorophenol	87-65-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP075A: Phenolic Compounds (QC Lot: 6164025) - continued									
EP2416162-020	S13 0.50	EP075: 4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2.4.6-Trichlorophenol	88-06-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2.4.5-Trichlorophenol	95-95-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Pentachlorophenol	87-86-5	1	mg/kg	<1	<1	0.0	No Limit
EP075A: Phenolic Compounds (QC Lot: 6164036)									
EP2416162-038	S16 0.00	EP075: Phenol	108-95-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2-Chlorophenol	95-57-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2-Methylphenol	95-48-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 3- & 4-Methylphenol	1319-77-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2-Nitrophenol	88-75-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2.4-Dimethylphenol	105-67-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2.4-Dichlorophenol	120-83-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2.6-Dichlorophenol	87-65-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2.4.6-Trichlorophenol	88-06-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2.4.5-Trichlorophenol	95-95-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Pentachlorophenol	87-86-5	1	mg/kg	<1	<1	0.0	No Limit
EP2416162-056	S19 0.25	EP075: Phenol	108-95-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2-Chlorophenol	95-57-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2-Methylphenol	95-48-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 3- & 4-Methylphenol	1319-77-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2-Nitrophenol	88-75-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2.4-Dimethylphenol	105-67-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2.4-Dichlorophenol	120-83-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2.6-Dichlorophenol	87-65-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2.4.6-Trichlorophenol	88-06-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2.4.5-Trichlorophenol	95-95-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Pentachlorophenol	87-86-5	1	mg/kg	<1	<1	0.0	No Limit
EP075B: Polynuclear Aromatic Hydrocarbons (QC Lot: 6164025)									
EP2416162-001	S10 0.25	EP075: Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2-Methylnaphthalene	91-57-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2-Chloronaphthalene	91-58-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP075B: Polynuclear Aromatic Hydrocarbons (QC Lot: 6164025) - continued									
EP2416162-001	S10 0.25	EP075: Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: N-2-Fluorenyl Acetamide	53-96-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 7.12-Dimethylbenz(a)anthracene	57-97-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 3-Methylcholanthrene	56-49-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1	mg/kg	<1	<1	0.0	No Limit
EP2416162-020	S13 0.50	EP075: Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2-Methylnaphthalene	91-57-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2-Chloronaphthalene	91-58-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Phenanthrene	85-01-8	0.5	mg/kg	1.4	1.7	14.4	No Limit
		EP075: Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Fluoranthene	206-44-0	0.5	mg/kg	2.1	2.3	5.6	No Limit
		EP075: Pyrene	129-00-0	0.5	mg/kg	2.2	2.3	0.0	No Limit
		EP075: N-2-Fluorenyl Acetamide	53-96-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Benz(a)anthracene	56-55-3	0.5	mg/kg	0.9	0.9	0.0	No Limit
		EP075: Chrysene	218-01-9	0.5	mg/kg	1.0	1.0	0.0	No Limit
		EP075: 7.12-Dimethylbenz(a)anthracene	57-97-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Benzo(a)pyrene	50-32-8	0.5	mg/kg	0.8	0.8	0.0	No Limit
		EP075: 3-Methylcholanthrene	56-49-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	0.6	0.6	0.0	No Limit
		EP075: Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1	mg/kg	1	1	0.0	No Limit
EP075B: Polynuclear Aromatic Hydrocarbons (QC Lot: 6164036)									
EP2416162-038	S16 0.00	EP075: Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2-Methylnaphthalene	91-57-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP075B: Polynuclear Aromatic Hydrocarbons (QC Lot: 6164036) - continued									
EP2416162-038	S16 0.00	EP075: 2-Chloronaphthalene	91-58-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: N-2-Fluorenyl Acetamide	53-96-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 7.12-Dimethylbenz(a)anthracene	57-97-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 3-Methylcholanthrene	56-49-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1	mg/kg	<1	<1	0.0	No Limit
EP2416162-056	S19 0.25	EP075: Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2-Methylnaphthalene	91-57-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2-Chloronaphthalene	91-58-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: N-2-Fluorenyl Acetamide	53-96-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 7.12-Dimethylbenz(a)anthracene	57-97-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 3-Methylcholanthrene	56-49-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP075B: Polynuclear Aromatic Hydrocarbons (QC Lot: 6164036) - continued									
EP2416162-056	S19 0.25	EP075: Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1	mg/kg	<1	<1	0.0	No Limit
EP075C: Phthalate Esters (QC Lot: 6164025)									
EP2416162-001	S10 0.25	EP075: Dimethyl phthalate	131-11-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Diethyl phthalate	84-66-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Di-n-butyl phthalate	84-74-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Butyl benzyl phthalate	85-68-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: bis(2-ethylhexyl) phthalate	117-81-7	0.5 (5.0)*	mg/kg	<5.0	<5.0	0.0	No Limit
		EP075: Di-n-octylphthalate	117-84-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP2416162-020	S13 0.50	EP075: Dimethyl phthalate	131-11-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Diethyl phthalate	84-66-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Di-n-butyl phthalate	84-74-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Butyl benzyl phthalate	85-68-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: bis(2-ethylhexyl) phthalate	117-81-7	0.5 (5.0)*	mg/kg	<5.0	<5.0	0.0	No Limit
		EP075: Di-n-octylphthalate	117-84-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP075C: Phthalate Esters (QC Lot: 6164036)									
EP2416162-038	S16 0.00	EP075: Dimethyl phthalate	131-11-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Diethyl phthalate	84-66-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Di-n-butyl phthalate	84-74-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Butyl benzyl phthalate	85-68-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: bis(2-ethylhexyl) phthalate	117-81-7	0.5 (5.0)*	mg/kg	<5.0	<5.0	0.0	No Limit
		EP075: Di-n-octylphthalate	117-84-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP2416162-056	S19 0.25	EP075: Dimethyl phthalate	131-11-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Diethyl phthalate	84-66-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Di-n-butyl phthalate	84-74-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Butyl benzyl phthalate	85-68-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: bis(2-ethylhexyl) phthalate	117-81-7	0.5 (5.0)*	mg/kg	<5.0	<5.0	0.0	No Limit
		EP075: Di-n-octylphthalate	117-84-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP075D: Nitrosamines (QC Lot: 6164025)									
EP2416162-001	S10 0.25	EP075: N-Nitrosomethylethylamine	10595-95-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: N-Nitrosodiethylamine	55-18-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: N-Nitrosopyrrolidine	930-55-2	0.5 (1.0)*	mg/kg	<1.0	<1.0	0.0	No Limit
		EP075: N-Nitrosomorpholine	59-89-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: N-Nitrosodi-n-propylamine	621-64-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: N-Nitrosopiperidine	100-75-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: N-Nitrosodibutylamine	924-16-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: N-Nitrosodiphenyl & Diphenylamine	86-30-6 122-39-4	0.5 (1.0)*	mg/kg	<1.0	<1.0	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP075D: Nitrosamines (QC Lot: 6164025) - continued									
EP2416162-001	S10 0.25	EP075: Methapyrilene	91-80-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP2416162-020	S13 0.50	EP075: N-Nitrosomethylethylamine	10595-95-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: N-Nitrosodiethylamine	55-18-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: N-Nitrosopyrrolidine	930-55-2	0.5 (1.0)*	mg/kg	<1.0	<1.0	0.0	No Limit
		EP075: N-Nitrosomorpholine	59-89-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: N-Nitrosodi-n-propylamine	621-64-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: N-Nitrosopiperidine	100-75-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: N-Nitrosodibutylamine	924-16-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: N-Nitrosodiphenyl & Diphenylamine	86-30-6 122-39-4	0.5 (1.0)*	mg/kg	<1.0	<1.0	0.0	No Limit
		EP075: Methapyrilene	91-80-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP075D: Nitrosamines (QC Lot: 6164036)									
EP2416162-038	S16 0.00	EP075: N-Nitrosomethylethylamine	10595-95-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: N-Nitrosodiethylamine	55-18-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: N-Nitrosopyrrolidine	930-55-2	0.5 (1.0)*	mg/kg	<1.0	<1.0	0.0	No Limit
		EP075: N-Nitrosomorpholine	59-89-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: N-Nitrosodi-n-propylamine	621-64-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: N-Nitrosopiperidine	100-75-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: N-Nitrosodibutylamine	924-16-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: N-Nitrosodiphenyl & Diphenylamine	86-30-6 122-39-4	0.5 (1.0)*	mg/kg	<1.0	<1.0	0.0	No Limit
		EP075: Methapyrilene	91-80-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP2416162-056	S19 0.25	EP075: N-Nitrosomethylethylamine	10595-95-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: N-Nitrosodiethylamine	55-18-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: N-Nitrosopyrrolidine	930-55-2	0.5 (1.0)*	mg/kg	<1.0	<1.0	0.0	No Limit
		EP075: N-Nitrosomorpholine	59-89-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: N-Nitrosodi-n-propylamine	621-64-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: N-Nitrosopiperidine	100-75-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: N-Nitrosodibutylamine	924-16-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: N-Nitrosodiphenyl & Diphenylamine	86-30-6 122-39-4	0.5 (1.0)*	mg/kg	<1.0	<1.0	0.0	No Limit
		EP075: Methapyrilene	91-80-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP075E: Nitroaromatics and Ketones (QC Lot: 6164025)									
EP2416162-001	S10 0.25	EP075: 2-Picoline	109-06-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Acetophenone	98-86-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Nitrobenzene	98-95-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Isophorone	78-59-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2.6-Dinitrotoluene	606-20-2	0.5 (1.0)*	mg/kg	<1.0	<1.0	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP075E: Nitroaromatics and Ketones (QC Lot: 6164025) - continued									
EP2416162-001	S10 0.25	EP075: 2.4-Dinitrotoluene	121-14-2	0.5 (1.0)*	mg/kg	<1.0	<1.0	0.0	No Limit
		EP075: 1-Naphthylamine	134-32-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 4-Nitroquinoline-N-oxide	56-57-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 5-Nitro-o-toluidine	99-55-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 1.3.5-Trinitrobenzene	99-35-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Phenacetin	62-44-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 4-Aminobiphenyl	92-67-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Pentachloronitrobenzene	82-68-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Pronamide	23950-58-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Dimethylaminoazobenzene	60-11-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Chlorobenzilate	510-15-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Azobenzene	103-33-3	1	mg/kg	<1	<1	0.0	No Limit
EP2416162-020	S13 0.50	EP075: 2-Picoline	109-06-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Acetophenone	98-86-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Nitrobenzene	98-95-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Isophorone	78-59-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2.6-Dinitrotoluene	606-20-2	0.5 (1.0)*	mg/kg	<1.0	<1.0	0.0	No Limit
		EP075: 2.4-Dinitrotoluene	121-14-2	0.5 (1.0)*	mg/kg	<1.0	<1.0	0.0	No Limit
		EP075: 1-Naphthylamine	134-32-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 4-Nitroquinoline-N-oxide	56-57-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 5-Nitro-o-toluidine	99-55-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 1.3.5-Trinitrobenzene	99-35-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Phenacetin	62-44-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 4-Aminobiphenyl	92-67-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Pentachloronitrobenzene	82-68-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Pronamide	23950-58-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Dimethylaminoazobenzene	60-11-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Chlorobenzilate	510-15-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Azobenzene	103-33-3	1	mg/kg	<1	<1	0.0	No Limit
EP075E: Nitroaromatics and Ketones (QC Lot: 6164036)									
EP2416162-038	S16 0.00	EP075: 2-Picoline	109-06-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Acetophenone	98-86-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Nitrobenzene	98-95-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Isophorone	78-59-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2.6-Dinitrotoluene	606-20-2	0.5 (1.0)*	mg/kg	<1.0	<1.0	0.0	No Limit
		EP075: 2.4-Dinitrotoluene	121-14-2	0.5 (1.0)*	mg/kg	<1.0	<1.0	0.0	No Limit
		EP075: 1-Naphthylamine	134-32-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 4-Nitroquinoline-N-oxide	56-57-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP075E: Nitroaromatics and Ketones (QC Lot: 6164036) - continued									
EP2416162-038	S16 0.00	EP075: 5-Nitro-o-toluidine	99-55-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 1.3.5-Trinitrobenzene	99-35-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Phenacetin	62-44-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 4-Aminobiphenyl	92-67-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Pentachloronitrobenzene	82-68-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Pronamide	23950-58-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Dimethylaminoazobenzene	60-11-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Chlorobenzilate	510-15-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Azobenzene	103-33-3	1	mg/kg	<1	<1	0.0	No Limit
EP2416162-056	S19 0.25	EP075: 2-Picoline	109-06-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Acetophenone	98-86-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Nitrobenzene	98-95-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Isophorone	78-59-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2.6-Dinitrotoluene	606-20-2	0.5 (1.0)*	mg/kg	<1.0	<1.0	0.0	No Limit
		EP075: 2.4-Dinitrotoluene	121-14-2	0.5 (1.0)*	mg/kg	<1.0	<1.0	0.0	No Limit
		EP075: 1-Naphthylamine	134-32-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 4-Nitroquinoline-N-oxide	56-57-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 5-Nitro-o-toluidine	99-55-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 1.3.5-Trinitrobenzene	99-35-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Phenacetin	62-44-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 4-Aminobiphenyl	92-67-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Pentachloronitrobenzene	82-68-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Pronamide	23950-58-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Dimethylaminoazobenzene	60-11-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Chlorobenzilate	510-15-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Azobenzene	103-33-3	1	mg/kg	<1	<1	0.0	No Limit
EP075F: Haloethers (QC Lot: 6164025)									
EP2416162-001	S10 0.25	EP075: Bis(2-chloroethyl) ether	111-44-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Bis(2-chloroethoxy) methane	111-91-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 4-Chlorophenyl phenyl ether	7005-72-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 4-Bromophenyl phenyl ether	101-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP2416162-020	S13 0.50	EP075: Bis(2-chloroethyl) ether	111-44-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Bis(2-chloroethoxy) methane	111-91-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 4-Chlorophenyl phenyl ether	7005-72-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 4-Bromophenyl phenyl ether	101-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP075F: Haloethers (QC Lot: 6164036)									
EP2416162-038	S16 0.00	EP075: Bis(2-chloroethyl) ether	111-44-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP075F: Haloethers (QC Lot: 6164036) - continued									
EP2416162-038	S16 0.00	EP075: Bis(2-chloroethoxy) methane	111-91-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 4-Chlorophenyl phenyl ether	7005-72-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 4-Bromophenyl phenyl ether	101-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP2416162-056	S19 0.25	EP075: Bis(2-chloroethyl) ether	111-44-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Bis(2-chloroethoxy) methane	111-91-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 4-Chlorophenyl phenyl ether	7005-72-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 4-Bromophenyl phenyl ether	101-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP075G: Chlorinated Hydrocarbons (QC Lot: 6164025)									
EP2416162-001	S10 0.25	EP075: 1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Hexachloroethane	67-72-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Hexachloropropylene	1888-71-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Hexachlorobutadiene	87-68-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Pentachlorobenzene	608-93-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Hexachlorobenzene (HCB)	118-74-1	0.5 (1.0)*	mg/kg	<1.0	<1.0	0.0	No Limit
		EP075: Hexachlorocyclopentadiene	77-47-4	2.5	mg/kg	<2.5	<2.5	0.0	No Limit
EP2416162-020	S13 0.50	EP075: 1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Hexachloroethane	67-72-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Hexachloropropylene	1888-71-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Hexachlorobutadiene	87-68-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Pentachlorobenzene	608-93-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Hexachlorobenzene (HCB)	118-74-1	0.5 (1.0)*	mg/kg	<1.0	<1.0	0.0	No Limit
		EP075: Hexachlorocyclopentadiene	77-47-4	2.5	mg/kg	<2.5	<2.5	0.0	No Limit
EP075G: Chlorinated Hydrocarbons (QC Lot: 6164036)									
EP2416162-038	S16 0.00	EP075: 1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Hexachloroethane	67-72-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Hexachloropropylene	1888-71-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Hexachlorobutadiene	87-68-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Pentachlorobenzene	608-93-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP075G: Chlorinated Hydrocarbons (QC Lot: 6164036) - continued									
EP2416162-038	S16 0.00	EP075: Hexachlorobenzene (HCB)	118-74-1	0.5 (1.0)*	mg/kg	<1.0	<1.0	0.0	No Limit
		EP075: Hexachlorocyclopentadiene	77-47-4	2.5	mg/kg	<2.5	<2.5	0.0	No Limit
EP2416162-056	S19 0.25	EP075: 1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Hexachloroethane	67-72-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Hexachloropropylene	1888-71-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Hexachlorobutadiene	87-68-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Pentachlorobenzene	608-93-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Hexachlorobenzene (HCB)	118-74-1	0.5 (1.0)*	mg/kg	<1.0	<1.0	0.0	No Limit
		EP075: Hexachlorocyclopentadiene	77-47-4	2.5	mg/kg	<2.5	<2.5	0.0	No Limit
EP075H: Anilines and Benzidines (QC Lot: 6164025)									
EP2416162-001	S10 0.25	EP075: Aniline	62-53-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 4-Chloroaniline	106-47-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2-Nitroaniline	88-74-4	0.5 (1.0)*	mg/kg	<1.0	<1.0	0.0	No Limit
		EP075: 3-Nitroaniline	99-09-2	0.5 (1.0)*	mg/kg	<1.0	<1.0	0.0	No Limit
		EP075: Dibenzofuran	132-64-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 4-Nitroaniline	100-01-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Carbazole	86-74-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 3.3`-Dichlorobenzidine	91-94-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP2416162-020	S13 0.50	EP075: Aniline	62-53-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 4-Chloroaniline	106-47-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2-Nitroaniline	88-74-4	0.5 (1.0)*	mg/kg	<1.0	<1.0	0.0	No Limit
		EP075: 3-Nitroaniline	99-09-2	0.5 (1.0)*	mg/kg	<1.0	<1.0	0.0	No Limit
		EP075: Dibenzofuran	132-64-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 4-Nitroaniline	100-01-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Carbazole	86-74-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 3.3`-Dichlorobenzidine	91-94-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP075H: Anilines and Benzidines (QC Lot: 6164036)									
EP2416162-038	S16 0.00	EP075: Aniline	62-53-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 4-Chloroaniline	106-47-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2-Nitroaniline	88-74-4	0.5 (1.0)*	mg/kg	<1.0	<1.0	0.0	No Limit
		EP075: 3-Nitroaniline	99-09-2	0.5 (1.0)*	mg/kg	<1.0	<1.0	0.0	No Limit
		EP075: Dibenzofuran	132-64-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 4-Nitroaniline	100-01-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Carbazole	86-74-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP075H: Anilines and Benzidines (QC Lot: 6164036) - continued									
EP2416162-038	S16 0.00	EP075: 3.3`-Dichlorobenzidine	91-94-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP2416162-056	S19 0.25	EP075: Aniline	62-53-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 4-Chloroaniline	106-47-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2-Nitroaniline	88-74-4	0.5 (1.0)*	mg/kg	<1.0	<1.0	0.0	No Limit
		EP075: 3-Nitroaniline	99-09-2	0.5 (1.0)*	mg/kg	<1.0	<1.0	0.0	No Limit
		EP075: Dibenzofuran	132-64-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 4-Nitroaniline	100-01-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Carbazole	86-74-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 3.3`-Dichlorobenzidine	91-94-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP075I: Organochlorine Pesticides (QC Lot: 6164025)									
EP2416162-001	S10 0.25	EP075: alpha-BHC	319-84-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: beta-BHC	319-85-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: gamma-BHC - (Lindane)	58-89-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: delta-BHC	319-86-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Heptachlor	76-44-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Aldrin	309-00-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Heptachlor epoxide	1024-57-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: alpha-Endosulfan	959-98-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 4.4`-DDE	72-55-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Dieldrin	60-57-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Endrin	72-20-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: beta-Endosulfan	33213-65-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 4.4`-DDD	72-54-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Endosulfan sulfate	1031-07-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 4.4`-DDT	50-29-3	0.5 (1.0)*	mg/kg	<1.0	<1.0	0.0	No Limit
EP2416162-020	S13 0.50	EP075: alpha-BHC	319-84-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: beta-BHC	319-85-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: gamma-BHC - (Lindane)	58-89-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: delta-BHC	319-86-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Heptachlor	76-44-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Aldrin	309-00-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Heptachlor epoxide	1024-57-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: alpha-Endosulfan	959-98-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 4.4`-DDE	72-55-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Dieldrin	60-57-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Endrin	72-20-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: beta-Endosulfan	33213-65-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 4.4`-DDD	72-54-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP075I: Organochlorine Pesticides (QC Lot: 6164025) - continued									
EP2416162-020	S13 0.50	EP075: Endosulfan sulfate	1031-07-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 4.4`-DDT	50-29-3	0.5 (1.0)*	mg/kg	<1.0	<1.0	0.0	No Limit
EP075I: Organochlorine Pesticides (QC Lot: 6164036)									
EP2416162-038	S16 0.00	EP075: alpha-BHC	319-84-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: beta-BHC	319-85-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: gamma-BHC - (Lindane)	58-89-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: delta-BHC	319-86-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Heptachlor	76-44-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Aldrin	309-00-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Heptachlor epoxide	1024-57-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: alpha-Endosulfan	959-98-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 4.4`-DDE	72-55-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Dieldrin	60-57-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Endrin	72-20-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: beta-Endosulfan	33213-65-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 4.4`-DDD	72-54-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Endosulfan sulfate	1031-07-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 4.4`-DDT	50-29-3	0.5 (1.0)*	mg/kg	<1.0	<1.0	0.0	No Limit
EP2416162-056	S19 0.25	EP075: alpha-BHC	319-84-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: beta-BHC	319-85-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: gamma-BHC - (Lindane)	58-89-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: delta-BHC	319-86-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Heptachlor	76-44-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Aldrin	309-00-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Heptachlor epoxide	1024-57-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: alpha-Endosulfan	959-98-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 4.4`-DDE	72-55-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Dieldrin	60-57-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Endrin	72-20-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: beta-Endosulfan	33213-65-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 4.4`-DDD	72-54-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Endosulfan sulfate	1031-07-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 4.4`-DDT	50-29-3	0.5 (1.0)*	mg/kg	<1.0	<1.0	0.0	No Limit
EP075J: Organophosphorus Pesticides (QC Lot: 6164025)									
EP2416162-001	S10 0.25	EP075: Dichlorvos	62-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Dimethoate	60-51-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Diazinon	333-41-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP075J: Organophosphorus Pesticides (QC Lot: 6164025) - continued									
EP2416162-001	S10 0.25	EP075: Chlorpyrifos-methyl	5598-13-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Malathion	121-75-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Fenthion	55-38-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Chlorpyrifos	2921-88-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Pirimphos-ethyl	23505-41-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Chlorfenvinphos	470-90-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Prothiofos	34643-46-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Ethion	563-12-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP2416162-020	S13 0.50	EP075: Dichlorvos	62-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Dimethoate	60-51-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Diazinon	333-41-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Chlorpyrifos-methyl	5598-13-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Malathion	121-75-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Fenthion	55-38-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Chlorpyrifos	2921-88-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Pirimphos-ethyl	23505-41-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Chlorfenvinphos	470-90-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Prothiofos	34643-46-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Ethion	563-12-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP075J: Organophosphorus Pesticides (QC Lot: 6164036)									
EP2416162-038	S16 0.00	EP075: Dichlorvos	62-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Dimethoate	60-51-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Diazinon	333-41-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Chlorpyrifos-methyl	5598-13-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Malathion	121-75-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Fenthion	55-38-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Chlorpyrifos	2921-88-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Pirimphos-ethyl	23505-41-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Chlorfenvinphos	470-90-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Prothiofos	34643-46-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Ethion	563-12-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP2416162-056	S19 0.25	EP075: Dichlorvos	62-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Dimethoate	60-51-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Diazinon	333-41-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Chlorpyrifos-methyl	5598-13-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Malathion	121-75-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Fenthion	55-38-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Chlorpyrifos	2921-88-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP075J: Organophosphorus Pesticides (QC Lot: 6164036) - continued									
EP2416162-056	S19 0.25	EP075: Pirimphos-ethyl	23505-41-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Chlorfenvinphos	470-90-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Prothiofos	34643-46-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Ethion	563-12-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 6164018)									
EP2416078-012	Anonymous	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
EP2416162-016	S12 1.30	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 6164020)									
EP2416162-001	S10 0.25	EP071: C15 - C28 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C29 - C36 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
EP2416162-020	S13 0.50	EP071: C15 - C28 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C29 - C36 Fraction	----	100	mg/kg	150	130	13.6	No Limit
		EP071: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 6164031)									
EP2416162-038	S16 0.00	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
EP2416162-056	S19 0.25	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 6164038)									
EP2416162-038	S16 0.00	EP071: C15 - C28 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C29 - C36 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
EP2416162-056	S19 0.25	EP071: C15 - C28 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C29 - C36 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 6164018)									
EP2416078-012	Anonymous	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.0	No Limit
EP2416162-016	S12 1.30	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 6164020)									
EP2416162-001	S10 0.25	EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
EP2416162-020	S13 0.50	EP071: >C16 - C34 Fraction	----	100	mg/kg	180	170	9.1	No Limit
		EP071: >C34 - C40 Fraction	----	100	mg/kg	160	130	25.7	No Limit
		EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 6164031)									
EP2416162-038	S16 0.00	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.0	No Limit
EP2416162-056	S19 0.25	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.0	No Limit

Sub-Matrix: **SOIL**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report					
				LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 6164038)									
EP2416162-038	S16 0.00	EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
EP2416162-056	S19 0.25	EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
EP080: BTEXN (QC Lot: 6164018)									
EP2416078-012	Anonymous	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
EP2416162-016	S12 1.30	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
EP080: BTEXN (QC Lot: 6164031)									
EP2416162-038	S16 0.00	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
EP2416162-056	S19 0.25	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit

Sub-Matrix: **WATER**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report					
				LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)

Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EG020T: Total Metals by ICP-MS (QC Lot: 6163264)									
EP2416162-073	RB	EG020A-T: Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	0.0	No Limit
		EG020A-T: Arsenic	7440-38-2	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-T: Chromium	7440-47-3	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-T: Copper	7440-50-8	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-T: Lead	7439-92-1	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-T: Nickel	7440-02-0	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-T: Zinc	7440-66-6	0.005	mg/L	<0.005	<0.005	0.0	No Limit
EP2416195-001	Anonymous	EG020A-T: Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	0.0	No Limit
		EG020A-T: Arsenic	7440-38-2	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-T: Chromium	7440-47-3	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-T: Copper	7440-50-8	0.001	mg/L	0.039	0.040	0.0	0% - 20%
		EG020A-T: Lead	7439-92-1	0.001	mg/L	0.008	0.008	0.0	No Limit
		EG020A-T: Nickel	7440-02-0	0.001	mg/L	<0.001	0.001	0.0	No Limit
		EG020A-T: Zinc	7440-66-6	0.005	mg/L	0.020	0.037	63.0	No Limit
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 6163266)									
EP2416047-007	Anonymous	EG035T: Mercury	7439-97-6	0.0001	mg/L	<0.0001	<0.0001	0.0	No Limit
EP2416162-073	RB	EG035T: Mercury	7439-97-6	0.0001	mg/L	<0.0001	<0.0001	0.0	No Limit
EP068A: Organochlorine Pesticides (OC) (QC Lot: 6168035)									
EP2416162-075	RB	EP068: alpha-BHC	319-84-6	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Hexachlorobenzene (HCB)	118-74-1	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: beta-BHC	319-85-7	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: gamma-BHC - (Lindane)	58-89-9	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: delta-BHC	319-86-8	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Heptachlor	76-44-8	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Aldrin	309-00-2	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Heptachlor epoxide	1024-57-3	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: trans-Chlordane	5103-74-2	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: alpha-Endosulfan	959-98-8	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: cis-Chlordane	5103-71-9	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Dieldrin	60-57-1	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: 4.4`-DDE	72-55-9	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Endrin	72-20-8	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: beta-Endosulfan	33213-65-9	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: 4.4`-DDD	72-54-8	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Endrin aldehyde	7421-93-4	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Endosulfan sulfate	1031-07-8	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Endrin ketone	53494-70-5	0.5	µg/L	<0.5	<0.5	0.0	No Limit

Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP068A: Organochlorine Pesticides (OC) (QC Lot: 6168035) - continued									
EP2416162-075	RB	EP068: 4.4`-DDT	50-29-3	2	µg/L	<2.0	<2.0	0.0	No Limit
		EP068: Methoxychlor	72-43-5	2	µg/L	<2.0	<2.0	0.0	No Limit
EP2416162-073	RB	EP068: alpha-BHC	319-84-6	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Hexachlorobenzene (HCB)	118-74-1	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: beta-BHC	319-85-7	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: gamma-BHC - (Lindane)	58-89-9	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: delta-BHC	319-86-8	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Heptachlor	76-44-8	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Aldrin	309-00-2	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Heptachlor epoxide	1024-57-3	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: trans-Chlordane	5103-74-2	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: alpha-Endosulfan	959-98-8	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: cis-Chlordane	5103-71-9	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Dieldrin	60-57-1	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: 4.4`-DDE	72-55-9	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Endrin	72-20-8	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: beta-Endosulfan	33213-65-9	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: 4.4`-DDD	72-54-8	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Endrin aldehyde	7421-93-4	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Endosulfan sulfate	1031-07-8	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Endrin ketone	53494-70-5	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: 4.4`-DDT	50-29-3	2	µg/L	<2.0	<2.0	0.0	No Limit
		EP068: Methoxychlor	72-43-5	2	µg/L	<2.0	<2.0	0.0	No Limit
EP068B: Organophosphorus Pesticides (OP) (QC Lot: 6168035)									
EP2416162-075	RB	EP068: Dichlorvos	62-73-7	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Demeton-S-methyl	919-86-8	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Dimethoate	60-51-5	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Diazinon	333-41-5	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Chlorpyrifos-methyl	5598-13-0	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Malathion	121-75-5	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Fenthion	55-38-9	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Chlorpyrifos	2921-88-2	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Pirimphos-ethyl	23505-41-1	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Chlorfenvinphos	470-90-6	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Bromophos-ethyl	4824-78-6	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Fenamiphos	22224-92-6	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Prothiofos	34643-46-4	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Ethion	563-12-2	0.5	µg/L	<0.5	<0.5	0.0	No Limit

Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP068B: Organophosphorus Pesticides (OP) (QC Lot: 6168035) - continued									
EP2416162-075	RB	EP068: Carbophenothion	786-19-6	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Azinphos Methyl	86-50-0	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Monocrotophos	6923-22-4	2	µg/L	<2.0	<2.0	0.0	No Limit
		EP068: Parathion-methyl	298-00-0	2	µg/L	<2.0	<2.0	0.0	No Limit
		EP068: Parathion	56-38-2	2	µg/L	<2.0	<2.0	0.0	No Limit
EP2416162-073	RB	EP068: Dichlorvos	62-73-7	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Demeton-S-methyl	919-86-8	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Dimethoate	60-51-5	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Diazinon	333-41-5	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Chlorpyrifos-methyl	5598-13-0	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Malathion	121-75-5	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Fenthion	55-38-9	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Chlorpyrifos	2921-88-2	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Pirimphos-ethyl	23505-41-1	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Chlorfenvinphos	470-90-6	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Bromophos-ethyl	4824-78-6	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Fenamiphos	22224-92-6	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Prothiofos	34643-46-4	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Ethion	563-12-2	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Carbophenothion	786-19-6	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Azinphos Methyl	86-50-0	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Monocrotophos	6923-22-4	2	µg/L	<2.0	<2.0	0.0	No Limit
		EP068: Parathion-methyl	298-00-0	2	µg/L	<2.0	<2.0	0.0	No Limit
		EP068: Parathion	56-38-2	2	µg/L	<2.0	<2.0	0.0	No Limit
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 6168036)									
EP2416162-075	RB	EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Sum of polycyclic aromatic hydrocarbons	----	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Naphthalene	91-20-3	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Acenaphthene	83-32-9	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Fluorene	86-73-7	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Phenanthrene	85-01-8	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Anthracene	120-12-7	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Fluoranthene	206-44-0	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Pyrene	129-00-0	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Benz(a)anthracene	56-55-3	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Chrysene	218-01-9	1	µg/L	<1.0	<1.0	0.0	No Limit

Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 6168036) - continued									
EP2416162-075	RB	EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	1	µg/L	<1.0	<1.0	0.0	No Limit
EP2416162-073	RB	EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Sum of polycyclic aromatic hydrocarbons	----	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Naphthalene	91-20-3	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Acenaphthene	83-32-9	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Fluorene	86-73-7	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Phenanthrene	85-01-8	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Anthracene	120-12-7	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Fluoranthene	206-44-0	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Pyrene	129-00-0	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Benz(a)anthracene	56-55-3	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Chrysene	218-01-9	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	1	µg/L	<1.0	<1.0	0.0	No Limit
EP075A: Phenolic Compounds (QC Lot: 6168037)									
EP2416162-073	RB	EP075: Phenol	108-95-2	2	µg/L	<2	<2	0.0	No Limit
		EP075: 2-Chlorophenol	95-57-8	2	µg/L	<2	<2	0.0	No Limit
		EP075: 2-Methylphenol	95-48-7	2	µg/L	<2	<2	0.0	No Limit
		EP075: 3- & 4-Methylphenol	1319-77-3	2 (4)*	µg/L	<4	<4	0.0	No Limit
		EP075: 2-Nitrophenol	88-75-5	2	µg/L	<2	<2	0.0	No Limit
		EP075: 2.4-Dimethylphenol	105-67-9	2	µg/L	<2	<2	0.0	No Limit
		EP075: 2.4-Dichlorophenol	120-83-2	2	µg/L	<2	<2	0.0	No Limit
		EP075: 2.6-Dichlorophenol	87-65-0	2	µg/L	<2	<2	0.0	No Limit
		EP075: 4-Chloro-3-methylphenol	59-50-7	2	µg/L	<2	<2	0.0	No Limit
		EP075: 2.4.6-Trichlorophenol	88-06-2	2	µg/L	<2	<2	0.0	No Limit
		EP075: 2.4.5-Trichlorophenol	95-95-4	2	µg/L	<2	<2	0.0	No Limit
		EP075: Pentachlorophenol	87-86-5	4	µg/L	<4	<4	0.0	No Limit

Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP075B: Polynuclear Aromatic Hydrocarbons (QC Lot: 6168037)									
EP2416162-073	RB	EP075: Naphthalene	91-20-3	2	µg/L	<2	<2	0.0	No Limit
		EP075: 2-Methylnaphthalene	91-57-6	2	µg/L	<2	<2	0.0	No Limit
		EP075: 2-Chloronaphthalene	91-58-7	2	µg/L	<2	<2	0.0	No Limit
		EP075: Acenaphthylene	208-96-8	2	µg/L	<2	<2	0.0	No Limit
		EP075: Acenaphthene	83-32-9	2	µg/L	<2	<2	0.0	No Limit
		EP075: Fluorene	86-73-7	2	µg/L	<2	<2	0.0	No Limit
		EP075: Phenanthrene	85-01-8	2	µg/L	<2	<2	0.0	No Limit
		EP075: Anthracene	120-12-7	2	µg/L	<2	<2	0.0	No Limit
		EP075: Fluoranthene	206-44-0	2	µg/L	<2	<2	0.0	No Limit
		EP075: Pyrene	129-00-0	2	µg/L	<2	<2	0.0	No Limit
		EP075: N-2-Fluorenyl Acetamide	53-96-3	2	µg/L	<2	<2	0.0	No Limit
		EP075: Benz(a)anthracene	56-55-3	2	µg/L	<2	<2	0.0	No Limit
		EP075: Chrysene	218-01-9	2	µg/L	<2	<2	0.0	No Limit
		EP075: 7.12-Dimethylbenz(a)anthracene	57-97-6	2	µg/L	<2	<2	0.0	No Limit
		EP075: Benzo(a)pyrene	50-32-8	2	µg/L	<2	<2	0.0	No Limit
		EP075: 3-Methylcholanthrene	56-49-5	2	µg/L	<2	<2	0.0	No Limit
		EP075: Indeno(1.2.3.cd)pyrene	193-39-5	2	µg/L	<2	<2	0.0	No Limit
		EP075: Dibenz(a.h)anthracene	53-70-3	2	µg/L	<2	<2	0.0	No Limit
		EP075: Benzo(g.h.i)perylene	191-24-2	2	µg/L	<2	<2	0.0	No Limit
		EP075: Benzo(a)pyrene TEQ (zero)	----	2	µg/L	<2	<2	0.0	No Limit
		EP075: Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	4	µg/L	<4	<4	0.0	No Limit
EP075C: Phthalate Esters (QC Lot: 6168037)									
EP2416162-073	RB	EP075: bis(2-ethylhexyl) phthalate	117-81-7	10	µg/L	<10	<10	0.0	No Limit
		EP075: Dimethyl phthalate	131-11-3	2	µg/L	<2	<2	0.0	No Limit
		EP075: Diethyl phthalate	84-66-2	2	µg/L	<2	<2	0.0	No Limit
		EP075: Di-n-butyl phthalate	84-74-2	2	µg/L	<2	<2	0.0	No Limit
		EP075: Butyl benzyl phthalate	85-68-7	2	µg/L	<2	<2	0.0	No Limit
		EP075: Di-n-octylphthalate	117-84-0	2	µg/L	<2	<2	0.0	No Limit
EP075D: Nitrosamines (QC Lot: 6168037)									
EP2416162-073	RB	EP075: N-Nitrosomethylethylamine	10595-95-6	2	µg/L	<2	<2	0.0	No Limit
		EP075: N-Nitrosodiethylamine	55-18-5	2	µg/L	<2	<2	0.0	No Limit
		EP075: N-Nitrosomorpholine	59-89-2	2	µg/L	<2	<2	0.0	No Limit
		EP075: N-Nitrosodi-n-propylamine	621-64-7	2	µg/L	<2	<2	0.0	No Limit
		EP075: N-Nitrosopiperidine	100-75-4	2	µg/L	<2	<2	0.0	No Limit
		EP075: N-Nitrosodibutylamine	924-16-3	2	µg/L	<2	<2	0.0	No Limit
		EP075: Methapyrilene	91-80-5	2	µg/L	<2	<2	0.0	No Limit
		EP075: N-Nitrosopyrrolidine	930-55-2	4	µg/L	<4	<4	0.0	No Limit

Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP075D: Nitrosamines (QC Lot: 6168037) - continued									
EP2416162-073	RB	EP075: N-Nitrosodiphenyl & Diphenylamine	86-30-6 122-39-4	4	µg/L	<4	<4	0.0	No Limit
EP075E: Nitroaromatics and Ketones (QC Lot: 6168037)									
EP2416162-073	RB	EP075: 2-Picoline	109-06-8	2	µg/L	<2	<2	0.0	No Limit
		EP075: Acetophenone	98-86-2	2	µg/L	<2	<2	0.0	No Limit
		EP075: Nitrobenzene	98-95-3	2	µg/L	<2	<2	0.0	No Limit
		EP075: Isophorone	78-59-1	2	µg/L	<2	<2	0.0	No Limit
		EP075: 1-Naphthylamine	134-32-7	2	µg/L	<2	<2	0.0	No Limit
		EP075: 4-Nitroquinoline-N-oxide	56-57-5	2	µg/L	<2	<2	0.0	No Limit
		EP075: 5-Nitro-o-toluidine	99-55-8	2	µg/L	<2	<2	0.0	No Limit
		EP075: Azobenzene	103-33-3	2	µg/L	<2	<2	0.0	No Limit
		EP075: 1.3.5-Trinitrobenzene	99-35-4	2	µg/L	<2	<2	0.0	No Limit
		EP075: Phenacetin	62-44-2	2	µg/L	<2	<2	0.0	No Limit
		EP075: 4-Aminobiphenyl	92-67-1	2	µg/L	<2	<2	0.0	No Limit
		EP075: Pentachloronitrobenzene	82-68-8	2	µg/L	<2	<2	0.0	No Limit
		EP075: Pronamide	23950-58-5	2	µg/L	<2	<2	0.0	No Limit
		EP075: Dimethylaminoazobenzene	60-11-7	2	µg/L	<2	<2	0.0	No Limit
		EP075: Chlorobenzilate	510-15-6	2	µg/L	<2	<2	0.0	No Limit
		EP075: 2.6-Dinitrotoluene	606-20-2	4	µg/L	<4	<4	0.0	No Limit
		EP075: 2.4-Dinitrotoluene	121-14-2	4	µg/L	<4	<4	0.0	No Limit
EP075F: Haloethers (QC Lot: 6168037)									
EP2416162-073	RB	EP075: Bis(2-chloroethyl) ether	111-44-4	2	µg/L	<2	<2	0.0	No Limit
		EP075: Bis(2-chloroethoxy) methane	111-91-1	2	µg/L	<2	<2	0.0	No Limit
		EP075: 4-Chlorophenyl phenyl ether	7005-72-3	2	µg/L	<2	<2	0.0	No Limit
		EP075: 4-Bromophenyl phenyl ether	101-55-3	2	µg/L	<2	<2	0.0	No Limit
EP075G: Chlorinated Hydrocarbons (QC Lot: 6168037)									
EP2416162-073	RB	EP075: Hexachlorocyclopentadiene	77-47-4	10	µg/L	<10	<10	0.0	No Limit
		EP075: 1.4-Dichlorobenzene	106-46-7	2	µg/L	<2	<2	0.0	No Limit
		EP075: 1.3-Dichlorobenzene	541-73-1	2	µg/L	<2	<2	0.0	No Limit
		EP075: 1.2-Dichlorobenzene	95-50-1	2	µg/L	<2	<2	0.0	No Limit
		EP075: Hexachloroethane	67-72-1	2	µg/L	<2	<2	0.0	No Limit
		EP075: 1.2.4-Trichlorobenzene	120-82-1	2	µg/L	<2	<2	0.0	No Limit
		EP075: Hexachloropropylene	1888-71-7	2	µg/L	<2	<2	0.0	No Limit
		EP075: Hexachlorobutadiene	87-68-3	2	µg/L	<2	<2	0.0	No Limit
		EP075: Pentachlorobenzene	608-93-5	2	µg/L	<2	<2	0.0	No Limit
		EP075: Hexachlorobenzene (HCB)	118-74-1	4	µg/L	<4	<4	0.0	No Limit
EP075H: Anilines and Benzidines (QC Lot: 6168037)									

Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP075H: Anilines and Benzidines (QC Lot: 6168037) - continued									
EP2416162-073	RB	EP075: Aniline	62-53-3	2	µg/L	<2	<2	0.0	No Limit
		EP075: 4-Chloroaniline	106-47-8	2	µg/L	<2	<2	0.0	No Limit
		EP075: Dibenzofuran	132-64-9	2	µg/L	<2	<2	0.0	No Limit
		EP075: 4-Nitroaniline	100-01-6	2	µg/L	<2	<2	0.0	No Limit
		EP075: Carbazole	86-74-8	2	µg/L	<2	<2	0.0	No Limit
		EP075: 3.3`-Dichlorobenzidine	91-94-1	2	µg/L	<2	<2	0.0	No Limit
		EP075: 2-Nitroaniline	88-74-4	4	µg/L	<4	<4	0.0	No Limit
		EP075: 3-Nitroaniline	99-09-2	4	µg/L	<4	<4	0.0	No Limit
EP075I: Organochlorine Pesticides (QC Lot: 6168037)									
EP2416162-073	RB	EP075: alpha-BHC	319-84-6	2	µg/L	<2	<2	0.0	No Limit
		EP075: beta-BHC	319-85-7	2	µg/L	<2	<2	0.0	No Limit
		EP075: gamma-BHC - (Lindane)	58-89-9	2	µg/L	<2	<2	0.0	No Limit
		EP075: delta-BHC	319-86-8	2	µg/L	<2	<2	0.0	No Limit
		EP075: Heptachlor	76-44-8	2	µg/L	<2	<2	0.0	No Limit
		EP075: Aldrin	309-00-2	2	µg/L	<2	<2	0.0	No Limit
		EP075: Heptachlor epoxide	1024-57-3	2	µg/L	<2	<2	0.0	No Limit
		EP075: alpha-Endosulfan	959-98-8	2	µg/L	<2	<2	0.0	No Limit
		EP075: 4.4`-DDE	72-55-9	2	µg/L	<2	<2	0.0	No Limit
		EP075: Dieldrin	60-57-1	2	µg/L	<2	<2	0.0	No Limit
		EP075: Endrin	72-20-8	2	µg/L	<2	<2	0.0	No Limit
		EP075: beta-Endosulfan	33213-65-9	2	µg/L	<2	<2	0.0	No Limit
		EP075: 4.4`-DDD	72-54-8	2	µg/L	<2	<2	0.0	No Limit
		EP075: Endosulfan sulfate	1031-07-8	2	µg/L	<2	<2	0.0	No Limit
		EP075: 4.4`-DDT	50-29-3	4	µg/L	<4	<4	0.0	No Limit
		EP075: Sum of Aldrin + Dieldrin	309-00-2/60-57-1	4	µg/L	<4	<4	0.0	No Limit
		EP075: Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	4	µg/L	<4	<4	0.0	No Limit
EP075J: Organophosphorus Pesticides (QC Lot: 6168037)									
EP2416162-073	RB	EP075: Dichlorvos	62-73-7	2	µg/L	<2	<2	0.0	No Limit
		EP075: Dimethoate	60-51-5	2	µg/L	<2	<2	0.0	No Limit
		EP075: Diazinon	333-41-5	2	µg/L	<2	<2	0.0	No Limit
		EP075: Chlorpyrifos-methyl	5598-13-0	2	µg/L	<2	<2	0.0	No Limit
		EP075: Malathion	121-75-5	2	µg/L	<2	<2	0.0	No Limit
		EP075: Fenthion	55-38-9	2	µg/L	<2	<2	0.0	No Limit
		EP075: Chlorpyrifos	2921-88-2	2	µg/L	<2	<2	0.0	No Limit
		EP075: Pirimphos-ethyl	23505-41-1	2	µg/L	<2	<2	0.0	No Limit
		EP075: Chlorfenvinphos	470-90-6	2	µg/L	<2	<2	0.0	No Limit

Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP075J: Organophosphorus Pesticides (QC Lot: 6168037) - continued									
EP2416162-073	RB	EP075: Prothiofos	34643-46-4	2	µg/L	<2	<2	0.0	No Limit
		EP075: Ethion	563-12-2	2	µg/L	<2	<2	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 6163301)									
EP2415903-029	Anonymous	EP080: C6 - C9 Fraction	----	20	µg/L	<20	<20	0.0	No Limit
EP2416162-075	RB	EP080: C6 - C9 Fraction	----	20	µg/L	<20	<20	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 6168034)									
EP2416162-075	RB	EP071: C15 - C28 Fraction	----	100	µg/L	<100	<100	0.0	No Limit
		EP071: C10 - C14 Fraction	----	50	µg/L	<50	<50	0.0	No Limit
		EP071: C29 - C36 Fraction	----	50	µg/L	<50	<50	0.0	No Limit
EP2416162-073	RB	EP071: C15 - C28 Fraction	----	100	µg/L	<100	<100	0.0	No Limit
		EP071: C10 - C14 Fraction	----	50	µg/L	<50	<50	0.0	No Limit
		EP071: C29 - C36 Fraction	----	50	µg/L	<50	<50	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 6163301)									
EP2415903-029	Anonymous	EP080: C6 - C10 Fraction	C6_C10	20	µg/L	<20	<20	0.0	No Limit
EP2416162-075	RB	EP080: C6 - C10 Fraction	C6_C10	20	µg/L	<20	<20	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 6168034)									
EP2416162-075	RB	EP071: >C10 - C16 Fraction	----	100	µg/L	<100	<100	0.0	No Limit
		EP071: >C16 - C34 Fraction	----	100	µg/L	<100	<100	0.0	No Limit
		EP071: >C34 - C40 Fraction	----	100	µg/L	<100	<100	0.0	No Limit
EP2416162-073	RB	EP071: >C10 - C16 Fraction	----	100	µg/L	<100	<100	0.0	No Limit
		EP071: >C16 - C34 Fraction	----	100	µg/L	<100	<100	0.0	No Limit
		EP071: >C34 - C40 Fraction	----	100	µg/L	<100	<100	0.0	No Limit
EP080: BTEXN (QC Lot: 6163301)									
EP2415903-029	Anonymous	EP080: Benzene	71-43-2	1	µg/L	<1	<1	0.0	No Limit
		EP080: Toluene	108-88-3	2	µg/L	<2	<2	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	2	µg/L	<2	<2	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	<2	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	2	µg/L	<2	<2	0.0	No Limit
		EP080: Naphthalene	91-20-3	5	µg/L	<5	<5	0.0	No Limit
EP2416162-075	RB	EP080: Benzene	71-43-2	1	µg/L	<1	<1	0.0	No Limit
		EP080: Toluene	108-88-3	2	µg/L	<2	<2	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	2	µg/L	<2	<2	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	<2	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	2	µg/L	<2	<2	0.0	No Limit
		EP080: Naphthalene	91-20-3	5	µg/L	<5	<5	0.0	No Limit

Method Blank (MB) and Laboratory Control Sample (LCS) Report

The quality control term Method / Laboratory Blank refers to an analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation. The purpose of this QC parameter is to monitor potential laboratory contamination. The quality control term Laboratory Control Sample (LCS) refers to a certified reference material, or a known interference free matrix spiked with target analytes. The purpose of this QC parameter is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of processed LCS.

Sub-Matrix: **SOIL**

				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 6171203)								
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	77.39 mg/kg	101	70.0	130
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	1.93 mg/kg	85.5	70.0	130
EG005T: Chromium	7440-47-3	2	mg/kg	<2	18.67 mg/kg	96.7	70.0	130
EG005T: Copper	7440-50-8	5	mg/kg	<5	46.13 mg/kg	105	70.0	130
EG005T: Lead	7439-92-1	5	mg/kg	<5	58.42 mg/kg	97.3	70.0	130
EG005T: Nickel	7440-02-0	2	mg/kg	<2	14.48 mg/kg	95.6	70.0	130
EG005T: Zinc	7440-66-6	5	mg/kg	<5	190.4 mg/kg	95.6	70.0	130
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 6171207)								
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	77.39 mg/kg	100	70.0	130
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	1.93 mg/kg	77.7	70.0	130
EG005T: Chromium	7440-47-3	2	mg/kg	<2	18.67 mg/kg	92.1	70.0	130
EG005T: Copper	7440-50-8	5	mg/kg	<5	46.13 mg/kg	97.8	70.0	130
EG005T: Lead	7439-92-1	5	mg/kg	<5	58.42 mg/kg	93.3	70.0	130
EG005T: Nickel	7440-02-0	2	mg/kg	<2	14.48 mg/kg	91.8	70.0	130
EG005T: Zinc	7440-66-6	5	mg/kg	<5	190.4 mg/kg	89.6	70.0	130
EG035T: Total Recoverable Mercury by FIMS (QCLot: 6171202)								
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.115 mg/kg	77.8	70.0	130
EG035T: Total Recoverable Mercury by FIMS (QCLot: 6171208)								
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.115 mg/kg	89.6	70.0	130
EP068A: Organochlorine Pesticides (OC) (QCLot: 6164024)								
EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	0.5 mg/kg	110	46.0	116
EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	0.5 mg/kg	115	53.0	133
EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	0.5 mg/kg	93.3	45.0	117
EP068: gamma-BHC - (Lindane)	58-89-9	0.05	mg/kg	<0.05	0.5 mg/kg	98.2	46.0	122
EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	0.5 mg/kg	95.9	47.0	117
EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	0.5 mg/kg	78.6	40.0	118
EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	0.5 mg/kg	98.3	47.0	123
EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	0.5 mg/kg	93.0	41.0	119
EP068: Total Chlordane (sum)	----	0.05	mg/kg	<0.05	----	----	----	----
EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	0.5 mg/kg	95.8	43.0	119

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP068A: Organochlorine Pesticides (OC) (QCLot: 6164024) - continued								
EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	0.5 mg/kg	108	41.0	131
EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	0.5 mg/kg	95.4	41.0	119
EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	0.5 mg/kg	109	41.0	127
EP068: 4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	0.5 mg/kg	111	44.0	122
EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	0.5 mg/kg	109	37.0	129
EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	0.5 mg/kg	103	41.0	127
EP068: Endosulfan (sum)	115-29-7	0.05	mg/kg	<0.05	----	----	----	----
EP068: 4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	0.5 mg/kg	94.3	42.0	122
EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	0.5 mg/kg	71.7	31.2	117
EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	0.5 mg/kg	86.1	38.0	120
EP068: 4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	0.5 mg/kg	99.9	31.4	125
EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	0.5 mg/kg	83.7	31.2	123
EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	0.5 mg/kg	104	24.7	125
EP068: Sum of DDD + DDE + DDT	72-54-8/72-5 5-9/50-2	0.05	mg/kg	<0.05	----	----	----	----
EP068: Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	<0.05	----	----	----	----
EP068A: Organochlorine Pesticides (OC) (QCLot: 6164039)								
EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	0.5 mg/kg	68.0	46.0	116
EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	0.5 mg/kg	72.1	53.0	133
EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	0.5 mg/kg	75.6	45.0	117
EP068: gamma-BHC - (Lindane)	58-89-9	0.05	mg/kg	<0.05	0.5 mg/kg	74.7	46.0	122
EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	0.5 mg/kg	74.8	47.0	117
EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	0.5 mg/kg	67.8	40.0	118
EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	0.5 mg/kg	76.5	47.0	123
EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	0.5 mg/kg	66.2	41.0	119
EP068: Total Chlordane (sum)	----	0.05	mg/kg	<0.05	----	----	----	----
EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	0.5 mg/kg	67.2	43.0	119
EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	0.5 mg/kg	86.7	41.0	131
EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	0.5 mg/kg	67.2	41.0	119
EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	0.5 mg/kg	79.2	41.0	127
EP068: 4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	0.5 mg/kg	78.7	44.0	122
EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	0.5 mg/kg	82.8	37.0	129
EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	0.5 mg/kg	79.9	41.0	127
EP068: Endosulfan (sum)	115-29-7	0.05	mg/kg	<0.05	----	----	----	----

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report		
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP068A: Organochlorine Pesticides (OC) (QCLot: 6164039) - continued								
EP068: 4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	0.5 mg/kg	72.8	42.0	122
EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	0.5 mg/kg	83.3	31.2	117
EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	0.5 mg/kg	65.3	38.0	120
EP068: 4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	0.5 mg/kg	106	31.4	125
EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	0.5 mg/kg	82.0	31.2	123
EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	0.5 mg/kg	106	24.7	125
EP068: Sum of DDD + DDE + DDT	72-54-8/72-5 5-9/50-2	0.05	mg/kg	<0.05	----	----	----	----
EP068: Sum of Aldrin + Dieldrin	309-00-2/60- 57-1	0.05	mg/kg	<0.05	----	----	----	----
EP068B: Organophosphorus Pesticides (OP) (QCLot: 6164024)								
EP068: Dichlorvos	62-73-7	0.05	mg/kg	<0.05	0.5 mg/kg	79.1	61.0	141
EP068: Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	0.5 mg/kg	93.8	39.0	147
EP068: Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	0.5 mg/kg	99.8	4.10	154
EP068: Dimethoate	60-51-5	0.05	mg/kg	<0.05	0.5 mg/kg	102	40.0	136
EP068: Diazinon	333-41-5	0.05	mg/kg	<0.05	0.5 mg/kg	81.3	59.0	133
EP068: Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	0.5 mg/kg	86.5	57.0	135
EP068: Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	0.5 mg/kg	104	39.0	133
EP068: Malathion	121-75-5	0.05	mg/kg	<0.05	0.5 mg/kg	96.6	53.0	131
EP068: Fenthion	55-38-9	0.05	mg/kg	<0.05	0.5 mg/kg	88.1	53.0	133
EP068: Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	0.5 mg/kg	87.3	57.0	135
EP068: Parathion	56-38-2	0.2	mg/kg	<0.2	0.5 mg/kg	97.9	45.0	131
EP068: Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	0.5 mg/kg	82.8	53.0	137
EP068: Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	0.5 mg/kg	110	53.0	133
EP068: Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	0.5 mg/kg	84.2	49.0	133
EP068: Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	0.5 mg/kg	111	39.0	137
EP068: Prothiofos	34643-46-4	0.05	mg/kg	<0.05	0.5 mg/kg	99.4	57.0	137
EP068: Ethion	563-12-2	0.05	mg/kg	<0.05	0.5 mg/kg	98.6	53.0	135
EP068: Carbophenothion	786-19-6	0.05	mg/kg	<0.05	0.5 mg/kg	85.7	52.0	134
EP068: Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	0.5 mg/kg	144	20.4	154
EP068B: Organophosphorus Pesticides (OP) (QCLot: 6164039)								
EP068: Dichlorvos	62-73-7	0.05	mg/kg	<0.05	0.5 mg/kg	84.6	61.0	141
EP068: Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	0.5 mg/kg	123	39.0	147
EP068: Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	0.5 mg/kg	27.4	4.10	154
EP068: Dimethoate	60-51-5	0.05	mg/kg	<0.05	0.5 mg/kg	76.4	40.0	136

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP068B: Organophosphorus Pesticides (OP) (QCLot: 6164039) - continued								
EP068: Diazinon	333-41-5	0.05	mg/kg	<0.05	0.5 mg/kg	74.8	59.0	133
EP068: Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	0.5 mg/kg	70.3	57.0	135
EP068: Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	0.5 mg/kg	101	39.0	133
EP068: Malathion	121-75-5	0.05	mg/kg	<0.05	0.5 mg/kg	86.4	53.0	131
EP068: Fenthion	55-38-9	0.05	mg/kg	<0.05	0.5 mg/kg	65.2	53.0	133
EP068: Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	0.5 mg/kg	73.9	57.0	135
EP068: Parathion	56-38-2	0.2	mg/kg	<0.2	0.5 mg/kg	95.2	45.0	131
EP068: Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	0.5 mg/kg	65.5	53.0	137
EP068: Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	0.5 mg/kg	93.4	53.0	133
EP068: Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	0.5 mg/kg	67.4	49.0	133
EP068: Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	0.5 mg/kg	79.4	39.0	137
EP068: Prothiofos	34643-46-4	0.05	mg/kg	<0.05	0.5 mg/kg	72.3	57.0	137
EP068: Ethion	563-12-2	0.05	mg/kg	<0.05	0.5 mg/kg	99.3	53.0	135
EP068: Carbophenothion	786-19-6	0.05	mg/kg	<0.05	0.5 mg/kg	111	52.0	134
EP068: Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	0.5 mg/kg	142	20.4	154
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 6164021)								
EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	3 mg/kg	102	71.0	123
EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	3 mg/kg	109	69.0	129
EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	3 mg/kg	107	65.0	125
EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	3 mg/kg	103	71.0	125
EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	3 mg/kg	100	66.0	124
EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	3 mg/kg	104	60.0	112
EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	3 mg/kg	101	67.0	127
EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	3 mg/kg	98.6	65.0	127
EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	3 mg/kg	99.4	57.0	125
EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	3 mg/kg	102	57.0	131
EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	3 mg/kg	102	65.0	125
EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	3 mg/kg	102	69.0	127
EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	3 mg/kg	114	63.0	121
EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	3 mg/kg	87.6	61.0	121
EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	3 mg/kg	87.4	52.0	128
EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	3 mg/kg	81.5	65.0	125
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 6164037)								

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 6164037) - continued								
EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	3 mg/kg	94.7	71.0	123
EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	3 mg/kg	108	69.0	129
EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	3 mg/kg	108	65.0	125
EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	3 mg/kg	102	71.0	125
EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	3 mg/kg	105	66.0	124
EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	3 mg/kg	106	60.0	112
EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	3 mg/kg	99.0	67.0	127
EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	3 mg/kg	102	65.0	127
EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	3 mg/kg	111	57.0	125
EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	3 mg/kg	96.4	57.0	131
EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	3 mg/kg	109	65.0	125
EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	3 mg/kg	109	69.0	127
EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	3 mg/kg	111	63.0	121
EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	3 mg/kg	104	61.0	121
EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	3 mg/kg	104	52.0	128
EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	3 mg/kg	102	65.0	125
EP075A: Phenolic Compounds (QCLot: 6164025)								
EP075: Phenol	108-95-2	0.5	mg/kg	<0.5	1.5 mg/kg	91.5	59.0	135
EP075: 2-Chlorophenol	95-57-8	0.5	mg/kg	<0.5	1.5 mg/kg	101	64.0	130
EP075: 2-Methylphenol	95-48-7	0.5	mg/kg	<0.5	1.5 mg/kg	105	53.0	137
EP075: 3- & 4-Methylphenol	1319-77-3	0.5	mg/kg	<0.5	1.5 mg/kg	119	62.0	134
EP075: 2-Nitrophenol	88-75-5	0.5	mg/kg	<0.5	1.5 mg/kg	84.5	54.0	136
EP075: 2.4-Dimethylphenol	105-67-9	0.5	mg/kg	<0.5	1.5 mg/kg	112	48.0	136
EP075: 2.4-Dichlorophenol	120-83-2	0.5	mg/kg	<0.5	1.5 mg/kg	109	55.0	127
EP075: 2.6-Dichlorophenol	87-65-0	0.5	mg/kg	<0.5	1.5 mg/kg	110	56.0	114
EP075: 4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg	<0.5	1.5 mg/kg	95.1	32.0	128
EP075: 2.4.6-Trichlorophenol	88-06-2	0.5	mg/kg	<0.5	1.5 mg/kg	75.3	49.0	113
EP075: 2.4.5-Trichlorophenol	95-95-4	0.5	mg/kg	<0.5	1.5 mg/kg	87.7	50.0	150
EP075: Pentachlorophenol	87-86-5	1	mg/kg	<1	1.5 mg/kg	64.4	23.0	117
EP075A: Phenolic Compounds (QCLot: 6164036)								
EP075: Phenol	108-95-2	0.5	mg/kg	<0.5	1.5 mg/kg	79.8	59.0	135
EP075: 2-Chlorophenol	95-57-8	0.5	mg/kg	<0.5	1.5 mg/kg	88.5	64.0	130
EP075: 2-Methylphenol	95-48-7	0.5	mg/kg	<0.5	1.5 mg/kg	89.0	53.0	137

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report		
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP075A: Phenolic Compounds (QCLot: 6164036) - continued								
EP075: 3- & 4-Methylphenol	1319-77-3	0.5	mg/kg	<0.5	1.5 mg/kg	78.5	62.0	134
EP075: 2-Nitrophenol	88-75-5	0.5	mg/kg	<0.5	1.5 mg/kg	76.0	54.0	136
EP075: 2.4-Dimethylphenol	105-67-9	0.5	mg/kg	<0.5	1.5 mg/kg	98.6	48.0	136
EP075: 2.4-Dichlorophenol	120-83-2	0.5	mg/kg	<0.5	1.5 mg/kg	79.4	55.0	127
EP075: 2.6-Dichlorophenol	87-65-0	0.5	mg/kg	<0.5	1.5 mg/kg	96.3	56.0	114
EP075: 4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg	<0.5	1.5 mg/kg	65.0	32.0	128
EP075: 2.4.6-Trichlorophenol	88-06-2	0.5	mg/kg	<0.5	1.5 mg/kg	61.0	49.0	113
EP075: 2.4.5-Trichlorophenol	95-95-4	0.5	mg/kg	<0.5	1.5 mg/kg	75.3	50.0	150
EP075: Pentachlorophenol	87-86-5	1	mg/kg	<1	1.5 mg/kg	49.9	23.0	117
EP075B: Polynuclear Aromatic Hydrocarbons (QCLot: 6164025)								
EP075: Naphthalene	91-20-3	0.5	mg/kg	<0.5	1.5 mg/kg	103	68.0	118
EP075: 2-Methylnaphthalene	91-57-6	0.5	mg/kg	<0.5	1.5 mg/kg	108	68.0	122
EP075: 2-Chloronaphthalene	91-58-7	0.5	mg/kg	<0.5	1.5 mg/kg	112	58.0	124
EP075: Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	1.5 mg/kg	89.6	64.0	122
EP075: Acenaphthene	83-32-9	0.5	mg/kg	<0.5	1.5 mg/kg	101	68.0	118
EP075: Fluorene	86-73-7	0.5	mg/kg	<0.5	1.5 mg/kg	89.1	67.0	119
EP075: Phenanthrene	85-01-8	0.5	mg/kg	<0.5	1.5 mg/kg	103	64.0	120
EP075: Anthracene	120-12-7	0.5	mg/kg	<0.5	1.5 mg/kg	107	65.0	119
EP075: Fluoranthene	206-44-0	0.5	mg/kg	<0.5	1.5 mg/kg	106	59.0	123
EP075: Pyrene	129-00-0	0.5	mg/kg	<0.5	1.5 mg/kg	107	62.0	124
EP075: N-2-Fluorenyl Acetamide	53-96-3	0.5	mg/kg	<0.5	1.5 mg/kg	81.9	33.0	123
EP075: Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	1.5 mg/kg	110	49.0	129
EP075: Chrysene	218-01-9	0.5	mg/kg	<0.5	1.5 mg/kg	106	57.0	131
EP075: Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1	mg/kg	<1	3 mg/kg	109	52.0	126
EP075: 7.12-Dimethylbenz(a)anthracene	57-97-6	0.5	mg/kg	<0.5	1.5 mg/kg	105	42.0	134
EP075: Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	1.5 mg/kg	101	51.0	123
EP075: 3-Methylcholanthrene	56-49-5	0.5	mg/kg	<0.5	1.5 mg/kg	86.7	46.0	122
EP075: Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	1.5 mg/kg	86.5	51.0	123
EP075: Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	1.5 mg/kg	81.8	49.0	121
EP075: Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	1.5 mg/kg	92.2	51.0	127
EP075B: Polynuclear Aromatic Hydrocarbons (QCLot: 6164036)								
EP075: Naphthalene	91-20-3	0.5	mg/kg	<0.5	1.5 mg/kg	89.1	68.0	118
EP075: 2-Methylnaphthalene	91-57-6	0.5	mg/kg	<0.5	1.5 mg/kg	95.9	68.0	122

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report		
					Spike	Spike Recovery (%)	Acceptable Limits (%)
				Result	Concentration	LCS	Low	High
EP075B: Polynuclear Aromatic Hydrocarbons (QCLot: 6164036) - continued								
EP075: 2-Chloronaphthalene	91-58-7	0.5	mg/kg	<0.5	1.5 mg/kg	101	58.0	124
EP075: Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	1.5 mg/kg	77.7	64.0	122
EP075: Acenaphthene	83-32-9	0.5	mg/kg	<0.5	1.5 mg/kg	87.7	68.0	118
EP075: Fluorene	86-73-7	0.5	mg/kg	<0.5	1.5 mg/kg	77.0	67.0	119
EP075: Phenanthrene	85-01-8	0.5	mg/kg	<0.5	1.5 mg/kg	86.4	64.0	120
EP075: Anthracene	120-12-7	0.5	mg/kg	<0.5	1.5 mg/kg	86.2	65.0	119
EP075: Fluoranthene	206-44-0	0.5	mg/kg	<0.5	1.5 mg/kg	88.5	59.0	123
EP075: Pyrene	129-00-0	0.5	mg/kg	<0.5	1.5 mg/kg	87.5	62.0	124
EP075: N-2-Fluorenyl Acetamide	53-96-3	0.5	mg/kg	<0.5	1.5 mg/kg	62.3	33.0	123
EP075: Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	1.5 mg/kg	91.8	49.0	129
EP075: Chrysene	218-01-9	0.5	mg/kg	<0.5	1.5 mg/kg	88.6	57.0	131
EP075: Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1	mg/kg	<1	3 mg/kg	87.8	52.0	126
EP075: 7.12-Dimethylbenz(a)anthracene	57-97-6	0.5	mg/kg	<0.5	1.5 mg/kg	90.9	42.0	134
EP075: Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	1.5 mg/kg	75.4	51.0	123
EP075: 3-Methylcholanthrene	56-49-5	0.5	mg/kg	<0.5	1.5 mg/kg	74.2	46.0	122
EP075: Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	1.5 mg/kg	67.2	51.0	123
EP075: Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	1.5 mg/kg	63.0	49.0	121
EP075: Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	1.5 mg/kg	71.7	51.0	127
EP075C: Phthalate Esters (QCLot: 6164025)								
EP075: Dimethyl phthalate	131-11-3	0.5	mg/kg	<0.5	1.5 mg/kg	98.6	60.0	126
EP075: Diethyl phthalate	84-66-2	0.5	mg/kg	<0.5	1.5 mg/kg	98.5	65.0	119
EP075: Di-n-butyl phthalate	84-74-2	0.5	mg/kg	<0.5	1.5 mg/kg	96.0	64.0	124
EP075: Butyl benzyl phthalate	85-68-7	0.5	mg/kg	<0.5	1.5 mg/kg	98.4	61.0	123
EP075: bis(2-ethylhexyl) phthalate	117-81-7	----	mg/kg	----	1.5 mg/kg	102	63.0	119
EP075: Di-n-octylphthalate	117-84-0	0.5	mg/kg	<0.5	1.5 mg/kg	# 159	54.0	130
EP075C: Phthalate Esters (QCLot: 6164036)								
EP075: Dimethyl phthalate	131-11-3	0.5	mg/kg	<0.5	1.5 mg/kg	89.1	60.0	126
EP075: Diethyl phthalate	84-66-2	0.5	mg/kg	<0.5	1.5 mg/kg	88.8	65.0	119
EP075: Di-n-butyl phthalate	84-74-2	0.5	mg/kg	<0.5	1.5 mg/kg	83.4	64.0	124
EP075: Butyl benzyl phthalate	85-68-7	0.5	mg/kg	<0.5	1.5 mg/kg	86.5	61.0	123
EP075: bis(2-ethylhexyl) phthalate	117-81-7	----	mg/kg	----	1.5 mg/kg	79.6	63.0	119
EP075: Di-n-octylphthalate	117-84-0	0.5	mg/kg	<0.5	1.5 mg/kg	119	54.0	130
EP075D: Nitrosamines (QCLot: 6164025)								

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report		
					Spike	Spike Recovery (%)	Acceptable Limits (%)
				Result	Concentration	LCS	Low	High
EP075D: Nitrosamines (QCLot: 6164025) - continued								
EP075: N-Nitrosomethylethylamine	10595-95-6	0.5	mg/kg	<0.5	1.5 mg/kg	73.6	45.0	137
EP075: N-Nitrosodiethylamine	55-18-5	0.5	mg/kg	<0.5	1.5 mg/kg	76.2	53.0	129
EP075: N-Nitrosopyrrolidine	930-55-2	0.5	mg/kg	<0.5	1.5 mg/kg	102	49.0	141
EP075: N-Nitrosomorpholine	59-89-2	0.5	mg/kg	<0.5	1.5 mg/kg	78.2	49.0	143
EP075: N-Nitrosodi-n-propylamine	621-64-7	0.5	mg/kg	<0.5	1.5 mg/kg	97.8	48.0	146
EP075: N-Nitrosopiperidine	100-75-4	0.5	mg/kg	<0.5	1.5 mg/kg	106	54.0	138
EP075: N-Nitrosodibutylamine	924-16-3	0.5	mg/kg	<0.5	1.5 mg/kg	78.2	63.0	117
EP075: N-Nitrosodiphenyl & Diphenylamine	86-30-6 122-39-4	0.5	mg/kg	<0.5	1.5 mg/kg	100	61.0	115
EP075: Methapyrilene	91-80-5	0.5	mg/kg	<0.5	1.5 mg/kg	161	4.00	190
EP075D: Nitrosamines (QCLot: 6164036)								
EP075: N-Nitrosomethylethylamine	10595-95-6	0.5	mg/kg	<0.5	1.5 mg/kg	48.0	45.0	137
EP075: N-Nitrosodiethylamine	55-18-5	0.5	mg/kg	<0.5	1.5 mg/kg	55.8	53.0	129
EP075: N-Nitrosopyrrolidine	930-55-2	0.5	mg/kg	<0.5	1.5 mg/kg	62.4	49.0	141
EP075: N-Nitrosomorpholine	59-89-2	0.5	mg/kg	<0.5	1.5 mg/kg	67.6	49.0	143
EP075: N-Nitrosodi-n-propylamine	621-64-7	0.5	mg/kg	<0.5	1.5 mg/kg	82.2	48.0	146
EP075: N-Nitrosopiperidine	100-75-4	0.5	mg/kg	<0.5	1.5 mg/kg	86.1	54.0	138
EP075: N-Nitrosodibutylamine	924-16-3	0.5	mg/kg	<0.5	1.5 mg/kg	72.3	63.0	117
EP075: N-Nitrosodiphenyl & Diphenylamine	86-30-6 122-39-4	0.5	mg/kg	<0.5	1.5 mg/kg	86.3	61.0	115
EP075: Methapyrilene	91-80-5	0.5	mg/kg	<0.5	1.5 mg/kg	119	4.00	190
EP075E: Nitroaromatics and Ketones (QCLot: 6164025)								
EP075: 2-Picoline	109-06-8	0.5	mg/kg	<0.5	1.5 mg/kg	91.2	16.8	137
EP075: Acetophenone	98-86-2	0.5	mg/kg	<0.5	1.5 mg/kg	106	60.0	136
EP075: Nitrobenzene	98-95-3	0.5	mg/kg	<0.5	1.5 mg/kg	115	66.0	138
EP075: Isophorone	78-59-1	0.5	mg/kg	<0.5	1.5 mg/kg	111	60.0	138
EP075: 2.6-Dinitrotoluene	606-20-2	0.5	mg/kg	<0.5	1.5 mg/kg	75.9	56.0	122
EP075: 2.4-Dinitrotoluene	121-14-2	0.5	mg/kg	<0.5	1.5 mg/kg	81.0	57.0	105
EP075: 1-Naphthylamine	134-32-7	0.5	mg/kg	<0.5	1.5 mg/kg	69.3	5.90	80.0
EP075: 4-Nitroquinoline-N-oxide	56-57-5	0.5	mg/kg	<0.5	1.5 mg/kg	134	21.1	161
EP075: 5-Nitro-o-toluidine	99-55-8	0.5	mg/kg	<0.5	1.5 mg/kg	66.6	20.1	106
EP075: Azobenzene	103-33-3	1	mg/kg	<1	1.5 mg/kg	94.2	63.0	119
EP075: 1.3.5-Trinitrobenzene	99-35-4	0.5	mg/kg	<0.5	1.5 mg/kg	68.5	18.2	106
EP075: Phenacetin	62-44-2	0.5	mg/kg	<0.5	1.5 mg/kg	91.6	49.0	121
EP075: 4-Aminobiphenyl	92-67-1	0.5	mg/kg	<0.5	1.5 mg/kg	67.0	61.0	115

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report		
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP075E: Nitroaromatics and Ketones (QCLot: 6164025) - continued								
EP075: Pentachloronitrobenzene	82-68-8	0.5	mg/kg	<0.5	1.5 mg/kg	86.2	61.0	117
EP075: Pronamide	23950-58-5	0.5	mg/kg	<0.5	1.5 mg/kg	89.9	62.0	120
EP075: Dimethylaminoazobenzene	60-11-7	0.5	mg/kg	<0.5	1.5 mg/kg	85.8	47.0	125
EP075: Chlorobenzilate	510-15-6	0.5	mg/kg	<0.5	1.5 mg/kg	104	47.0	133
EP075E: Nitroaromatics and Ketones (QCLot: 6164036)								
EP075: 2-Picoline	109-06-8	0.5	mg/kg	<0.5	1.5 mg/kg	68.2	16.8	137
EP075: Acetophenone	98-86-2	0.5	mg/kg	<0.5	1.5 mg/kg	94.9	60.0	136
EP075: Nitrobenzene	98-95-3	0.5	mg/kg	<0.5	1.5 mg/kg	95.2	66.0	138
EP075: Isophorone	78-59-1	0.5	mg/kg	<0.5	1.5 mg/kg	96.0	60.0	138
EP075: 2.6-Dinitrotoluene	606-20-2	0.5	mg/kg	<0.5	1.5 mg/kg	68.0	56.0	122
EP075: 2.4-Dinitrotoluene	121-14-2	0.5	mg/kg	<0.5	1.5 mg/kg	69.2	57.0	105
EP075: 1-Naphthylamine	134-32-7	0.5	mg/kg	<0.5	1.5 mg/kg	64.2	5.90	80.0
EP075: 4-Nitroquinoline-N-oxide	56-57-5	0.5	mg/kg	<0.5	1.5 mg/kg	108	21.1	161
EP075: 5-Nitro-o-toluidine	99-55-8	0.5	mg/kg	<0.5	1.5 mg/kg	58.2	20.1	106
EP075: Azobenzene	103-33-3	1	mg/kg	<1	1.5 mg/kg	83.7	63.0	119
EP075: 1.3.5-Trinitrobenzene	99-35-4	0.5	mg/kg	<0.5	1.5 mg/kg	63.4	18.2	106
EP075: Phenacetin	62-44-2	0.5	mg/kg	<0.5	1.5 mg/kg	88.2	49.0	121
EP075: 4-Aminobiphenyl	92-67-1	0.5	mg/kg	<0.5	1.5 mg/kg	64.0	61.0	115
EP075: Pentachloronitrobenzene	82-68-8	0.5	mg/kg	<0.5	1.5 mg/kg	78.4	61.0	117
EP075: Pronamide	23950-58-5	0.5	mg/kg	<0.5	1.5 mg/kg	79.8	62.0	120
EP075: Dimethylaminoazobenzene	60-11-7	0.5	mg/kg	<0.5	1.5 mg/kg	75.8	47.0	125
EP075: Chlorobenzilate	510-15-6	0.5	mg/kg	<0.5	1.5 mg/kg	93.5	47.0	133
EP075F: Haloethers (QCLot: 6164025)								
EP075: Bis(2-chloroethyl) ether	111-44-4	0.5	mg/kg	<0.5	1.5 mg/kg	94.3	50.0	144
EP075: Bis(2-chloroethoxy) methane	111-91-1	0.5	mg/kg	<0.5	1.5 mg/kg	112	49.0	141
EP075: 4-Chlorophenyl phenyl ether	7005-72-3	0.5	mg/kg	<0.5	1.5 mg/kg	88.5	65.0	119
EP075: 4-Bromophenyl phenyl ether	101-55-3	0.5	mg/kg	<0.5	1.5 mg/kg	79.0	60.0	122
EP075F: Haloethers (QCLot: 6164036)								
EP075: Bis(2-chloroethyl) ether	111-44-4	0.5	mg/kg	<0.5	1.5 mg/kg	80.5	50.0	144
EP075: Bis(2-chloroethoxy) methane	111-91-1	0.5	mg/kg	<0.5	1.5 mg/kg	103	49.0	141
EP075: 4-Chlorophenyl phenyl ether	7005-72-3	0.5	mg/kg	<0.5	1.5 mg/kg	77.3	65.0	119
EP075: 4-Bromophenyl phenyl ether	101-55-3	0.5	mg/kg	<0.5	1.5 mg/kg	72.2	60.0	122
EP075G: Chlorinated Hydrocarbons (QCLot: 6164025)								
EP075: 1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	<0.5	1.5 mg/kg	101	70.0	112

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP075G: Chlorinated Hydrocarbons (QCLot: 6164025) - continued								
EP075: 1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	<0.5	1.5 mg/kg	100	67.0	119
EP075: 1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	<0.5	1.5 mg/kg	101	72.0	120
EP075: Hexachloroethane	67-72-1	0.5	mg/kg	<0.5	1.5 mg/kg	101	65.0	119
EP075: 1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	<0.5	1.5 mg/kg	107	66.0	132
EP075: Hexachloropropylene	1888-71-7	0.5	mg/kg	<0.5	1.5 mg/kg	103	43.0	129
EP075: Hexachlorobutadiene	87-68-3	0.5	mg/kg	<0.5	1.5 mg/kg	93.2	64.0	124
EP075: Hexachlorocyclopentadiene	77-47-4	2.5	mg/kg	<2.5	1.5 mg/kg	68.2	6.60	103
EP075: Pentachlorobenzene	608-93-5	0.5	mg/kg	<0.5	1.5 mg/kg	95.9	67.0	117
EP075: Hexachlorobenzene (HCB)	118-74-1	0.5	mg/kg	<0.5	1.5 mg/kg	97.7	55.0	123
EP075G: Chlorinated Hydrocarbons (QCLot: 6164036)								
EP075: 1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	<0.5	1.5 mg/kg	88.7	70.0	112
EP075: 1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	<0.5	1.5 mg/kg	84.5	67.0	119
EP075: 1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	<0.5	1.5 mg/kg	88.8	72.0	120
EP075: Hexachloroethane	67-72-1	0.5	mg/kg	<0.5	1.5 mg/kg	86.6	65.0	119
EP075: 1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	<0.5	1.5 mg/kg	93.7	66.0	132
EP075: Hexachloropropylene	1888-71-7	0.5	mg/kg	<0.5	1.5 mg/kg	88.3	43.0	129
EP075: Hexachlorobutadiene	87-68-3	0.5	mg/kg	<0.5	1.5 mg/kg	83.5	64.0	124
EP075: Hexachlorocyclopentadiene	77-47-4	2.5	mg/kg	<2.5	1.5 mg/kg	60.6	6.60	103
EP075: Pentachlorobenzene	608-93-5	0.5	mg/kg	<0.5	1.5 mg/kg	85.3	67.0	117
EP075: Hexachlorobenzene (HCB)	118-74-1	0.5	mg/kg	<0.5	1.5 mg/kg	85.9	55.0	123
EP075H: Anilines and Benzidines (QCLot: 6164025)								
EP075: Aniline	62-53-3	0.5	mg/kg	<0.5	1.5 mg/kg	102	32.0	144
EP075: 4-Chloroaniline	106-47-8	0.5	mg/kg	<0.5	1.5 mg/kg	# 81.7	13.9	74.0
EP075: 2-Nitroaniline	88-74-4	0.5	mg/kg	<0.5	1.5 mg/kg	69.7	50.0	150
EP075: 3-Nitroaniline	99-09-2	0.5	mg/kg	<0.5	1.5 mg/kg	84.1	3.90	116
EP075: Dibenzofuran	132-64-9	0.5	mg/kg	<0.5	1.5 mg/kg	95.1	69.0	115
EP075: 4-Nitroaniline	100-01-6	0.5	mg/kg	<0.5	1.5 mg/kg	78.3	39.0	125
EP075: Carbazole	86-74-8	0.5	mg/kg	<0.5	1.5 mg/kg	106	65.0	123
EP075: 3.3`-Dichlorobenzidine	91-94-1	0.5	mg/kg	<0.5	1.5 mg/kg	91.9	33.0	101
EP075H: Anilines and Benzidines (QCLot: 6164036)								
EP075: Aniline	62-53-3	0.5	mg/kg	<0.5	1.5 mg/kg	84.4	32.0	144
EP075: 4-Chloroaniline	106-47-8	0.5	mg/kg	<0.5	1.5 mg/kg	69.4	13.9	74.0
EP075: 2-Nitroaniline	88-74-4	0.5	mg/kg	<0.5	1.5 mg/kg	65.9	50.0	150
EP075: 3-Nitroaniline	99-09-2	0.5	mg/kg	<0.5	1.5 mg/kg	79.9	3.90	116

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP075H: Anilines and Benzidines (QCLot: 6164036) - continued								
EP075: Dibenzofuran	132-64-9	0.5	mg/kg	<0.5	1.5 mg/kg	85.1	69.0	115
EP075: 4-Nitroaniline	100-01-6	0.5	mg/kg	<0.5	1.5 mg/kg	70.3	39.0	125
EP075: Carbazole	86-74-8	0.5	mg/kg	<0.5	1.5 mg/kg	93.8	65.0	123
EP075: 3.3`-Dichlorobenzidine	91-94-1	0.5	mg/kg	<0.5	1.5 mg/kg	81.4	33.0	101
EP075I: Organochlorine Pesticides (QCLot: 6164025)								
EP075: alpha-BHC	319-84-6	0.5	mg/kg	<0.5	1.5 mg/kg	85.5	60.0	124
EP075: beta-BHC	319-85-7	0.5	mg/kg	<0.5	1.5 mg/kg	111	50.0	150
EP075: gamma-BHC - (Lindane)	58-89-9	0.5	mg/kg	<0.5	1.5 mg/kg	106	50.0	150
EP075: delta-BHC	319-86-8	0.5	mg/kg	<0.5	1.5 mg/kg	99.6	64.0	122
EP075: Heptachlor	76-44-8	0.5	mg/kg	<0.5	1.5 mg/kg	114	52.0	124
EP075: Aldrin	309-00-2	0.5	mg/kg	<0.5	1.5 mg/kg	108	66.0	130
EP075: Heptachlor epoxide	1024-57-3	0.5	mg/kg	<0.5	1.5 mg/kg	98.8	52.0	132
EP075: alpha-Endosulfan	959-98-8	0.5	mg/kg	<0.5	1.5 mg/kg	110	50.0	150
EP075: 4.4`-DDE	72-55-9	0.5	mg/kg	<0.5	1.5 mg/kg	98.2	63.0	127
EP075: Dieldrin	60-57-1	0.5	mg/kg	<0.5	1.5 mg/kg	110	62.0	130
EP075: Endrin	72-20-8	0.5	mg/kg	<0.5	1.5 mg/kg	106	48.0	132
EP075: beta-Endosulfan	33213-65-9	0.5	mg/kg	<0.5	1.5 mg/kg	111	50.0	150
EP075: 4.4`-DDD	72-54-8	0.5	mg/kg	<0.5	1.5 mg/kg	103	63.0	129
EP075: Endosulfan sulfate	1031-07-8	0.5	mg/kg	<0.5	1.5 mg/kg	114	46.0	140
EP075: 4.4`-DDT	50-29-3	0.5	mg/kg	<0.5	1.5 mg/kg	87.4	5.50	156
EP075I: Organochlorine Pesticides (QCLot: 6164036)								
EP075: alpha-BHC	319-84-6	0.5	mg/kg	<0.5	1.5 mg/kg	75.0	60.0	124
EP075: beta-BHC	319-85-7	0.5	mg/kg	<0.5	1.5 mg/kg	99.6	50.0	150
EP075: gamma-BHC - (Lindane)	58-89-9	0.5	mg/kg	<0.5	1.5 mg/kg	94.3	50.0	150
EP075: delta-BHC	319-86-8	0.5	mg/kg	<0.5	1.5 mg/kg	90.5	64.0	122
EP075: Heptachlor	76-44-8	0.5	mg/kg	<0.5	1.5 mg/kg	97.0	52.0	124
EP075: Aldrin	309-00-2	0.5	mg/kg	<0.5	1.5 mg/kg	96.4	66.0	130
EP075: Heptachlor epoxide	1024-57-3	0.5	mg/kg	<0.5	1.5 mg/kg	84.2	52.0	132
EP075: alpha-Endosulfan	959-98-8	0.5	mg/kg	<0.5	1.5 mg/kg	109	50.0	150
EP075: 4.4`-DDE	72-55-9	0.5	mg/kg	<0.5	1.5 mg/kg	89.2	63.0	127
EP075: Dieldrin	60-57-1	0.5	mg/kg	<0.5	1.5 mg/kg	98.1	62.0	130
EP075: Endrin	72-20-8	0.5	mg/kg	<0.5	1.5 mg/kg	95.2	48.0	132
EP075: beta-Endosulfan	33213-65-9	0.5	mg/kg	<0.5	1.5 mg/kg	96.7	50.0	150
EP075: 4.4`-DDD	72-54-8	0.5	mg/kg	<0.5	1.5 mg/kg	93.0	63.0	129

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report		
					Spike	Spike Recovery (%)	Acceptable Limits (%)
				Result	Concentration	LCS	Low	High
EP075I: Organochlorine Pesticides (QCLot: 6164036) - continued								
EP075: Endosulfan sulfate	1031-07-8	0.5	mg/kg	<0.5	1.5 mg/kg	108	46.0	140
EP075: 4.4`-DDT	50-29-3	0.5	mg/kg	<0.5	1.5 mg/kg	77.4	5.50	156
EP075J: Organophosphorus Pesticides (QCLot: 6164025)								
EP075: Dichlorvos	62-73-7	0.5	mg/kg	<0.5	1.5 mg/kg	102	63.0	121
EP075: Dimethoate	60-51-5	0.5	mg/kg	<0.5	1.5 mg/kg	126	29.0	127
EP075: Diazinon	333-41-5	0.5	mg/kg	<0.5	1.5 mg/kg	105	62.0	128
EP075: Chlorpyrifos-methyl	5598-13-0	0.5	mg/kg	<0.5	1.5 mg/kg	97.7	50.0	150
EP075: Malathion	121-75-5	0.5	mg/kg	<0.5	1.5 mg/kg	120	50.0	150
EP075: Fenthion	55-38-9	0.5	mg/kg	<0.5	1.5 mg/kg	101	50.0	150
EP075: Chlorpyrifos	2921-88-2	0.5	mg/kg	<0.5	1.5 mg/kg	105	61.0	123
EP075: Pirimphos-ethyl	23505-41-1	0.5	mg/kg	<0.5	1.5 mg/kg	94.8	63.0	125
EP075: Chlorfenvinphos	470-90-6	0.5	mg/kg	<0.5	1.5 mg/kg	102	50.0	150
EP075: Prothiofos	34643-46-4	0.5	mg/kg	<0.5	1.5 mg/kg	107	58.0	126
EP075: Ethion	563-12-2	0.5	mg/kg	<0.5	1.5 mg/kg	87.6	55.0	131
EP075J: Organophosphorus Pesticides (QCLot: 6164036)								
EP075: Dichlorvos	62-73-7	0.5	mg/kg	<0.5	1.5 mg/kg	71.2	63.0	121
EP075: Dimethoate	60-51-5	0.5	mg/kg	<0.5	1.5 mg/kg	104	29.0	127
EP075: Diazinon	333-41-5	0.5	mg/kg	<0.5	1.5 mg/kg	94.8	62.0	128
EP075: Chlorpyrifos-methyl	5598-13-0	0.5	mg/kg	<0.5	1.5 mg/kg	85.8	50.0	150
EP075: Malathion	121-75-5	0.5	mg/kg	<0.5	1.5 mg/kg	107	50.0	150
EP075: Fenthion	55-38-9	0.5	mg/kg	<0.5	1.5 mg/kg	87.6	50.0	150
EP075: Chlorpyrifos	2921-88-2	0.5	mg/kg	<0.5	1.5 mg/kg	92.1	61.0	123
EP075: Pirimphos-ethyl	23505-41-1	0.5	mg/kg	<0.5	1.5 mg/kg	83.4	63.0	125
EP075: Chlorfenvinphos	470-90-6	0.5	mg/kg	<0.5	1.5 mg/kg	85.6	50.0	150
EP075: Prothiofos	34643-46-4	0.5	mg/kg	<0.5	1.5 mg/kg	92.0	58.0	126
EP075: Ethion	563-12-2	0.5	mg/kg	<0.5	1.5 mg/kg	76.0	55.0	131
EP080/071: Total Petroleum Hydrocarbons (QCLot: 6164018)								
EP080: C6 - C9 Fraction	----	10	mg/kg	<10	35 mg/kg	98.6	66.0	122
EP080/071: Total Petroleum Hydrocarbons (QCLot: 6164020)								
EP071: C10 - C14 Fraction	----	50	mg/kg	<50	1666 mg/kg	90.4	70.0	111
EP071: C15 - C28 Fraction	----	100	mg/kg	<100	2937 mg/kg	78.0	71.9	109
EP071: C29 - C36 Fraction	----	100	mg/kg	<100	477 mg/kg	75.1	63.8	118
EP080/071: Total Petroleum Hydrocarbons (QCLot: 6164031)								
EP080: C6 - C9 Fraction	----	10	mg/kg	<10	35 mg/kg	83.2	66.0	122

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP080/071: Total Petroleum Hydrocarbons (QCLot: 6164038)								
EP071: C10 - C14 Fraction	----	50	mg/kg	<50	1666 mg/kg	88.8	70.0	111
EP071: C15 - C28 Fraction	----	100	mg/kg	<100	2937 mg/kg	76.4	71.9	109
EP071: C29 - C36 Fraction	----	100	mg/kg	<100	477 mg/kg	76.0	63.8	118
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 6164018)								
EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	45 mg/kg	96.4	66.0	122
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 6164020)								
EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	2315 mg/kg	87.8	72.8	110
EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	2594 mg/kg	75.8	67.8	114
EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	157 mg/kg	85.4	50.3	123
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 6164031)								
EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	45 mg/kg	81.0	66.0	122
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 6164038)								
EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	2315 mg/kg	86.0	72.8	110
EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	2594 mg/kg	74.6	67.8	114
EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	157 mg/kg	87.3	50.3	123
EP080: BTEXN (QCLot: 6164018)								
EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	2 mg/kg	92.3	72.0	122
EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	2 mg/kg	95.9	75.0	119
EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	2 mg/kg	96.0	73.0	121
EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	4 mg/kg	93.8	74.0	122
EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	2 mg/kg	94.9	75.0	121
EP080: Naphthalene	91-20-3	1	mg/kg	<1	0.5 mg/kg	90.4	64.0	126
EP080: BTEXN (QCLot: 6164031)								
EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	2 mg/kg	87.1	72.0	122
EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	2 mg/kg	85.7	75.0	119
EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	2 mg/kg	86.7	73.0	121
EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	4 mg/kg	86.3	74.0	122
EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	2 mg/kg	91.0	75.0	121
EP080: Naphthalene	91-20-3	1	mg/kg	<1	0.5 mg/kg	96.2	64.0	126

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EG020T: Total Metals by ICP-MS (QCLot: 6163264)								

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EG020T: Total Metals by ICP-MS (QCLot: 6163264) - continued								
EG020A-T: Arsenic	7440-38-2	0.001	mg/L	<0.001	0.1 mg/L	108	92.6	113
EG020A-T: Cadmium	7440-43-9	0.0001	mg/L	<0.0001	0.1 mg/L	107	91.8	111
EG020A-T: Chromium	7440-47-3	0.001	mg/L	<0.001	0.1 mg/L	105	90.9	109
EG020A-T: Copper	7440-50-8	0.001	mg/L	<0.001	0.1 mg/L	99.6	90.8	110
EG020A-T: Lead	7439-92-1	0.001	mg/L	<0.001	0.1 mg/L	104	92.3	108
EG020A-T: Nickel	7440-02-0	0.001	mg/L	<0.001	0.1 mg/L	108	89.3	110
EG020A-T: Zinc	7440-66-6	0.005	mg/L	<0.005	0.1 mg/L	106	90.7	113
EG035T: Total Recoverable Mercury by FIMS (QCLot: 6163266)								
EG035T: Mercury	7439-97-6	0.0001	mg/L	<0.0001	0.005 mg/L	94.2	83.7	120
EP068A: Organochlorine Pesticides (OC) (QCLot: 6168035)								
EP068: alpha-BHC	319-84-6	0.5	µg/L	<0.5	5 µg/L	84.8	42.3	112
EP068: Hexachlorobenzene (HCB)	118-74-1	0.5	µg/L	<0.5	5 µg/L	85.2	39.0	108
EP068: beta-BHC	319-85-7	0.5	µg/L	<0.5	5 µg/L	79.4	45.5	116
EP068: gamma-BHC - (Lindane)	58-89-9	0.5	µg/L	<0.5	5 µg/L	73.3	43.0	118
EP068: delta-BHC	319-86-8	0.5	µg/L	<0.5	5 µg/L	98.0	46.2	115
EP068: Heptachlor	76-44-8	0.5	µg/L	<0.5	5 µg/L	88.0	39.0	111
EP068: Aldrin	309-00-2	0.5	µg/L	<0.5	5 µg/L	87.6	39.7	114
EP068: Heptachlor epoxide	1024-57-3	0.5	µg/L	<0.5	5 µg/L	88.0	42.4	122
EP068: trans-Chlordane	5103-74-2	0.5	µg/L	<0.5	5 µg/L	90.1	43.6	121
EP068: alpha-Endosulfan	959-98-8	0.5	µg/L	<0.5	5 µg/L	96.6	42.1	129
EP068: cis-Chlordane	5103-71-9	0.5	µg/L	<0.5	5 µg/L	89.3	42.7	123
EP068: Dieldrin	60-57-1	0.5	µg/L	<0.5	5 µg/L	85.1	42.4	121
EP068: 4.4`-DDE	72-55-9	0.5	µg/L	<0.5	5 µg/L	91.2	43.8	123
EP068: Endrin	72-20-8	0.5	µg/L	<0.5	5 µg/L	88.1	26.9	127
EP068: beta-Endosulfan	33213-65-9	0.5	µg/L	<0.5	5 µg/L	104	44.9	128
EP068: 4.4`-DDD	72-54-8	0.5	µg/L	<0.5	5 µg/L	83.5	41.7	128
EP068: Endrin aldehyde	7421-93-4	0.5	µg/L	<0.5	5 µg/L	87.7	32.2	121
EP068: Endosulfan sulfate	1031-07-8	0.5	µg/L	<0.5	5 µg/L	91.9	40.7	120
EP068: 4.4`-DDT	50-29-3	2	µg/L	<2.0	5 µg/L	105	31.6	123
EP068: Endrin ketone	53494-70-5	0.5	µg/L	<0.5	5 µg/L	99.5	36.4	124
EP068: Methoxychlor	72-43-5	2	µg/L	<2.0	5 µg/L	114	25.4	124
EP068B: Organophosphorus Pesticides (OP) (QCLot: 6168035)								
EP068: Dichlorvos	62-73-7	0.5	µg/L	<0.5	5 µg/L	89.5	38.8	110
EP068: Demeton-S-methyl	919-86-8	0.5	µg/L	<0.5	5 µg/L	# 119	34.6	115

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP068B: Organophosphorus Pesticides (OP) (QCLot: 6168035) - continued								
EP068: Monocrotophos	6923-22-4	2	µg/L	<2.0	5 µg/L	17.4	10.0	20.1
EP068: Dimethoate	60-51-5	0.5	µg/L	<0.5	5 µg/L	96.9	27.8	102
EP068: Diazinon	333-41-5	0.5	µg/L	<0.5	5 µg/L	80.9	46.1	122
EP068: Chlorpyrifos-methyl	5598-13-0	0.5	µg/L	<0.5	5 µg/L	88.5	46.6	118
EP068: Parathion-methyl	298-00-0	2	µg/L	<2.0	5 µg/L	# 133	26.8	110
EP068: Malathion	121-75-5	0.5	µg/L	<0.5	5 µg/L	104	38.8	119
EP068: Fenthion	55-38-9	0.5	µg/L	<0.5	5 µg/L	93.6	45.0	119
EP068: Chlorpyrifos	2921-88-2	0.5	µg/L	<0.5	5 µg/L	87.9	44.6	118
EP068: Parathion	56-38-2	2	µg/L	<2.0	5 µg/L	# 142	30.2	112
EP068: Pirimphos-ethyl	23505-41-1	0.5	µg/L	<0.5	5 µg/L	94.9	43.2	123
EP068: Chlorfenvinphos	470-90-6	0.5	µg/L	<0.5	5 µg/L	115	41.1	119
EP068: Bromophos-ethyl	4824-78-6	0.5	µg/L	<0.5	5 µg/L	91.1	34.4	125
EP068: Fenamiphos	22224-92-6	0.5	µg/L	<0.5	5 µg/L	120	19.9	123
EP068: Prothiofos	34643-46-4	0.5	µg/L	<0.5	5 µg/L	93.9	38.0	121
EP068: Ethion	563-12-2	0.5	µg/L	<0.5	5 µg/L	100	39.5	121
EP068: Carbophenothion	786-19-6	0.5	µg/L	<0.5	5 µg/L	97.9	39.7	119
EP068: Azinphos Methyl	86-50-0	0.5	µg/L	<0.5	5 µg/L	# 154	10.0	137
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 6168036)								
EP075(SIM): Naphthalene	91-20-3	1	µg/L	<1.0	10 µg/L	62.5	41.9	99.1
EP075(SIM): Acenaphthylene	208-96-8	1	µg/L	<1.0	10 µg/L	67.7	36.1	113
EP075(SIM): Acenaphthene	83-32-9	1	µg/L	<1.0	10 µg/L	72.1	35.8	102
EP075(SIM): Fluorene	86-73-7	1	µg/L	<1.0	10 µg/L	75.6	33.5	113
EP075(SIM): Phenanthrene	85-01-8	1	µg/L	<1.0	10 µg/L	87.2	36.5	115
EP075(SIM): Anthracene	120-12-7	1	µg/L	<1.0	10 µg/L	85.6	46.4	109
EP075(SIM): Fluoranthene	206-44-0	1	µg/L	<1.0	10 µg/L	89.6	40.4	124
EP075(SIM): Pyrene	129-00-0	1	µg/L	<1.0	10 µg/L	88.6	40.2	123
EP075(SIM): Benz(a)anthracene	56-55-3	1	µg/L	<1.0	10 µg/L	100	40.2	126
EP075(SIM): Chrysene	218-01-9	1	µg/L	<1.0	10 µg/L	85.7	45.6	121
EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	1	µg/L	<1.0	10 µg/L	97.5	43.2	123
EP075(SIM): Benzo(k)fluoranthene	207-08-9	1	µg/L	<1.0	10 µg/L	97.2	47.3	121
EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	µg/L	<0.5	10 µg/L	95.4	44.8	123
EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	1	µg/L	<1.0	10 µg/L	91.6	38.8	120
EP075(SIM): Dibenz(a.h)anthracene	53-70-3	1	µg/L	<1.0	10 µg/L	96.2	39.4	119
EP075(SIM): Benzo(g.h.i)perylene	191-24-2	1	µg/L	<1.0	10 µg/L	98.1	40.1	123

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report		
					Spike	Spike Recovery (%)	Acceptable Limits (%)
				Result	Concentration	LCS	Low	High
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 6168036) - continued								
EP075(SIM): Sum of polycyclic aromatic hydrocarbons	----	0.5	µg/L	<0.5	----	----	----	----
EP075A: Phenolic Compounds (QCLot: 6168037)								
EP075: Phenol	108-95-2	2	µg/L	<2	10 µg/L	31.8	10.0	50.2
EP075: 2-Chlorophenol	95-57-8	2	µg/L	<2	10 µg/L	62.9	36.5	88.0
EP075: 2-Methylphenol	95-48-7	2	µg/L	<2	10 µg/L	63.9	27.2	89.7
EP075: 3- & 4-Methylphenol	1319-77-3	2	µg/L	<2	10 µg/L	60.3	18.1	91.9
EP075: 2-Nitrophenol	88-75-5	2	µg/L	<2	10 µg/L	50.8	24.5	101
EP075: 2.4-Dimethylphenol	105-67-9	2	µg/L	<2	10 µg/L	83.3	31.6	101
EP075: 2.4-Dichlorophenol	120-83-2	2	µg/L	<2	10 µg/L	66.5	31.3	92.3
EP075: 2.6-Dichlorophenol	87-65-0	2	µg/L	<2	10 µg/L	75.6	38.0	93.2
EP075: 4-Chloro-3-methylphenol	59-50-7	2	µg/L	<2	10 µg/L	58.0	18.2	111
EP075: 2.4.6-Trichlorophenol	88-06-2	2	µg/L	<2	10 µg/L	49.0	31.0	94.9
EP075: 2.4.5-Trichlorophenol	95-95-4	2	µg/L	<2	10 µg/L	53.9	50.0	150
EP075: Pentachlorophenol	87-86-5	4	µg/L	<4	10 µg/L	20.9	10.0	102
EP075B: Polynuclear Aromatic Hydrocarbons (QCLot: 6168037)								
EP075: Naphthalene	91-20-3	2	µg/L	<2	10 µg/L	66.5	38.7	95.6
EP075: 2-Methylnaphthalene	91-57-6	2	µg/L	<2	10 µg/L	77.9	35.6	100
EP075: 2-Chloronaphthalene	91-58-7	2	µg/L	<2	10 µg/L	85.0	34.1	100
EP075: Acenaphthylene	208-96-8	2	µg/L	<2	10 µg/L	63.9	36.7	107
EP075: Acenaphthene	83-32-9	2	µg/L	<2	10 µg/L	77.6	39.8	104
EP075: Fluorene	86-73-7	2	µg/L	<2	10 µg/L	75.6	39.3	106
EP075: Phenanthrene	85-01-8	2	µg/L	<2	10 µg/L	83.7	43.4	112
EP075: Anthracene	120-12-7	2	µg/L	<2	10 µg/L	85.0	41.4	112
EP075: Fluoranthene	206-44-0	2	µg/L	<2	10 µg/L	85.0	46.1	117
EP075: Pyrene	129-00-0	2	µg/L	<2	10 µg/L	86.3	48.6	116
EP075: N-2-Fluorenyl Acetamide	53-96-3	2	µg/L	<2	10 µg/L	49.5	31.7	108
EP075: Benz(a)anthracene	56-55-3	2	µg/L	<2	10 µg/L	83.0	40.7	120
EP075: Chrysene	218-01-9	2	µg/L	<2	10 µg/L	83.1	41.6	122
EP075: Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	4	µg/L	<4	20 µg/L	79.8	10.0	140
EP075: 7.12-Dimethylbenz(a)anthracene	57-97-6	2	µg/L	<2	10 µg/L	39.3	37.9	123
EP075: Benzo(a)pyrene	50-32-8	2	µg/L	<2	10 µg/L	68.4	43.2	117
EP075: 3-Methylcholanthrene	56-49-5	2	µg/L	<2	10 µg/L	58.4	35.6	116
EP075: Indeno(1.2.3.cd)pyrene	193-39-5	2	µg/L	<2	10 µg/L	58.7	37.3	116

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP075B: Polynuclear Aromatic Hydrocarbons (QCLot: 6168037) - continued								
EP075: Dibenz(a.h)anthracene	53-70-3	2	µg/L	<2	10 µg/L	55.3	38.0	113
EP075: Benzo(g.h.i)perylene	191-24-2	2	µg/L	<2	10 µg/L	65.3	41.8	116
EP075: Benzo(a)pyrene TEQ (zero)	----	2	µg/L	<2	----	----	----	----
EP075C: Phthalate Esters (QCLot: 6168037)								
EP075: Dimethyl phthalate	131-11-3	2	µg/L	<2	10 µg/L	85.9	37.6	112
EP075: Diethyl phthalate	84-66-2	2	µg/L	<2	10 µg/L	92.9	41.2	118
EP075: Di-n-butyl phthalate	84-74-2	2	µg/L	<2	10 µg/L	75.0	55.5	122
EP075: Butyl benzyl phthalate	85-68-7	2	µg/L	<2	10 µg/L	76.0	40.1	126
EP075: bis(2-ethylhexyl) phthalate	117-81-7	10	µg/L	<10	10 µg/L	68.4	55.2	122
EP075: Di-n-octylphthalate	117-84-0	2	µg/L	<2	10 µg/L	70.8	44.6	115
EP075D: Nitrosamines (QCLot: 6168037)								
EP075: N-Nitrosomethylethylamine	10595-95-6	2	µg/L	<2	10 µg/L	58.2	25.6	82.4
EP075: N-Nitrosodiethylamine	55-18-5	2	µg/L	<2	10 µg/L	65.9	32.6	94.5
EP075: N-Nitrosopyrrolidine	930-55-2	4	µg/L	<4	10 µg/L	68.8	26.5	71.9
EP075: N-Nitrosomorpholine	59-89-2	2	µg/L	<2	10 µg/L	62.9	26.5	75.6
EP075: N-Nitrosodi-n-propylamine	621-64-7	2	µg/L	<2	10 µg/L	78.4	38.7	106
EP075: N-Nitrosopiperidine	100-75-4	2	µg/L	<2	10 µg/L	84.0	37.2	101
EP075: N-Nitrosodibutylamine	924-16-3	2	µg/L	<2	10 µg/L	65.0	41.0	103
EP075: N-Nitrosodiphenyl & Diphenylamine	86-30-6 122-39-4	4	µg/L	<4	10 µg/L	91.2	37.0	111
EP075: Methapyrilene	91-80-5	2	µg/L	<2	10 µg/L	12.2	10.0	127
EP075E: Nitroaromatics and Ketones (QCLot: 6168037)								
EP075: 2-Picoline	109-06-8	2	µg/L	<2	10 µg/L	34.0	27.2	76.9
EP075: Acetophenone	98-86-2	2	µg/L	<2	10 µg/L	71.3	39.2	100
EP075: Nitrobenzene	98-95-3	2	µg/L	<2	10 µg/L	66.5	35.5	101
EP075: Isophorone	78-59-1	2	µg/L	<2	10 µg/L	80.1	42.0	102
EP075: 2.6-Dinitrotoluene	606-20-2	4	µg/L	<4	10 µg/L	62.0	32.4	109
EP075: 2.4-Dinitrotoluene	121-14-2	4	µg/L	<4	10 µg/L	61.8	31.9	95.8
EP075: 1-Naphthylamine	134-32-7	2	µg/L	<2	10 µg/L	37.5	10.0	147
EP075: 4-Nitroquinoline-N-oxide	56-57-5	2	µg/L	<2	10 µg/L	86.3	27.3	162
EP075: 5-Nitro-o-toluidine	99-55-8	2	µg/L	<2	10 µg/L	78.1	17.1	114
EP075: Azobenzene	103-33-3	2	µg/L	<2	10 µg/L	78.6	39.8	105
EP075: 1.3.5-Trinitrobenzene	99-35-4	2	µg/L	<2	10 µg/L	47.1	13.6	92.4
EP075: Phenacetin	62-44-2	2	µg/L	<2	10 µg/L	66.2	33.8	91.9

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP075E: Nitroaromatics and Ketones (QCLot: 6168037) - continued								
EP075: 4-Aminobiphenyl	92-67-1	2	µg/L	<2	10 µg/L	90.0	36.5	112
EP075: Pentachloronitrobenzene	82-68-8	2	µg/L	<2	10 µg/L	78.6	33.7	110
EP075: Pronamide	23950-58-5	2	µg/L	<2	10 µg/L	74.6	42.4	116
EP075: Dimethylaminoazobenzene	60-11-7	2	µg/L	<2	10 µg/L	64.3	34.3	110
EP075: Chlorobenzilate	510-15-6	2	µg/L	<2	10 µg/L	85.1	44.6	116
EP075F: Haloethers (QCLot: 6168037)								
EP075: Bis(2-chloroethyl) ether	111-44-4	2	µg/L	<2	10 µg/L	58.4	28.1	102
EP075: Bis(2-chloroethoxy) methane	111-91-1	2	µg/L	<2	10 µg/L	79.8	40.4	101
EP075: 4-Chlorophenyl phenyl ether	7005-72-3	2	µg/L	<2	10 µg/L	75.3	37.7	105
EP075: 4-Bromophenyl phenyl ether	101-55-3	2	µg/L	<2	10 µg/L	76.7	38.7	105
EP075G: Chlorinated Hydrocarbons (QCLot: 6168037)								
EP075: 1.4-Dichlorobenzene	106-46-7	2	µg/L	<2	10 µg/L	60.2	34.6	87.6
EP075: 1.3-Dichlorobenzene	541-73-1	2	µg/L	<2	10 µg/L	61.8	33.8	88.4
EP075: 1.2-Dichlorobenzene	95-50-1	2	µg/L	<2	10 µg/L	62.7	35.4	89.4
EP075: Hexachloroethane	67-72-1	2	µg/L	<2	10 µg/L	59.2	29.0	89.2
EP075: 1.2.4-Trichlorobenzene	120-82-1	2	µg/L	<2	10 µg/L	65.8	35.7	87.6
EP075: Hexachloropropylene	1888-71-7	2	µg/L	<2	10 µg/L	53.0	14.5	90.4
EP075: Hexachlorobutadiene	87-68-3	2	µg/L	<2	10 µg/L	61.1	29.6	91.9
EP075: Hexachlorocyclopentadiene	77-47-4	10	µg/L	<10	10 µg/L	33.7	10.0	83.2
EP075: Pentachlorobenzene	608-93-5	2	µg/L	<2	10 µg/L	72.4	35.3	101
EP075: Hexachlorobenzene (HCB)	118-74-1	4	µg/L	<4	10 µg/L	89.0	38.9	105
EP075H: Anilines and Benzidines (QCLot: 6168037)								
EP075: Aniline	62-53-3	2	µg/L	<2	10 µg/L	64.2	24.5	85.1
EP075: 4-Chloroaniline	106-47-8	2	µg/L	<2	10 µg/L	80.3	10.0	107
EP075: 2-Nitroaniline	88-74-4	4	µg/L	<4	10 µg/L	52.0	50.0	150
EP075: 3-Nitroaniline	99-09-2	4	µg/L	<4	10 µg/L	83.4	10.0	139
EP075: Dibenzofuran	132-64-9	2	µg/L	<2	10 µg/L	76.2	39.0	104
EP075: 4-Nitroaniline	100-01-6	2	µg/L	<2	10 µg/L	73.4	17.5	112
EP075: Carbazole	86-74-8	2	µg/L	<2	10 µg/L	88.0	39.5	119
EP075: 3.3`-Dichlorobenzidine	91-94-1	2	µg/L	<2	10 µg/L	80.3	17.3	149
EP075I: Organochlorine Pesticides (QCLot: 6168037)								
EP075: alpha-BHC	319-84-6	2	µg/L	<2	10 µg/L	77.0	40.3	120
EP075: beta-BHC	319-85-7	2	µg/L	<2	10 µg/L	101	50.0	150
EP075: gamma-BHC - (Lindane)	58-89-9	2	µg/L	<2	10 µg/L	99.6	50.0	150

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP075I: Organochlorine Pesticides (QCLot: 6168037) - continued								
EP075: delta-BHC	319-86-8	2	µg/L	<2	10 µg/L	86.6	44.4	119
EP075: Heptachlor	76-44-8	2	µg/L	<2	10 µg/L	77.6	38.7	110
EP075: Aldrin	309-00-2	2	µg/L	<2	10 µg/L	84.6	47.2	122
EP075: Heptachlor epoxide	1024-57-3	2	µg/L	<2	10 µg/L	85.0	42.9	114
EP075: alpha-Endosulfan	959-98-8	2	µg/L	<2	10 µg/L	83.7	50.0	150
EP075: 4.4`-DDE	72-55-9	2	µg/L	<2	10 µg/L	88.4	45.3	118
EP075: Dieldrin	60-57-1	2	µg/L	<2	10 µg/L	85.5	48.4	119
EP075: Endrin	72-20-8	2	µg/L	<2	10 µg/L	87.5	33.6	116
EP075: beta-Endosulfan	33213-65-9	2	µg/L	<2	10 µg/L	86.7	50.0	150
EP075: 4.4`-DDD	72-54-8	2	µg/L	<2	10 µg/L	87.2	40.9	123
EP075: Endosulfan sulfate	1031-07-8	2	µg/L	<2	10 µg/L	99.5	36.7	130
EP075: 4.4`-DDT	50-29-3	4	µg/L	<4	10 µg/L	73.7	19.8	117
EP075: Sum of Aldrin + Dieldrin	309-00-2/60-57-1	4	µg/L	<4	----	----	----	----
EP075: Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	4	µg/L	<4	----	----	----	----
EP075J: Organophosphorus Pesticides (QCLot: 6168037)								
EP075: Dichlorvos	62-73-7	2	µg/L	<2	10 µg/L	55.9	34.9	104
EP075: Dimethoate	60-51-5	2	µg/L	<2	10 µg/L	87.9	23.5	107
EP075: Diazinon	333-41-5	2	µg/L	<2	10 µg/L	83.1	41.9	125
EP075: Chlorpyrifos-methyl	5598-13-0	2	µg/L	<2	10 µg/L	82.2	50.0	150
EP075: Malathion	121-75-5	2	µg/L	<2	10 µg/L	88.3	50.0	150
EP075: Fenthion	55-38-9	2	µg/L	<2	10 µg/L	84.7	50.0	150
EP075: Chlorpyrifos	2921-88-2	2	µg/L	<2	10 µg/L	87.6	41.6	118
EP075: Pirimphos-ethyl	23505-41-1	2	µg/L	<2	10 µg/L	78.0	41.7	121
EP075: Chlorfenvinphos	470-90-6	2	µg/L	<2	10 µg/L	59.6	50.0	150
EP075: Prothiofos	34643-46-4	2	µg/L	<2	10 µg/L	82.6	40.5	120
EP075: Ethion	563-12-2	2	µg/L	<2	10 µg/L	64.0	36.6	121
EP080/071: Total Petroleum Hydrocarbons (QCLot: 6163301)								
EP080: C6 - C9 Fraction	----	20	µg/L	<20	360 µg/L	90.5	73.6	113
EP080/071: Total Petroleum Hydrocarbons (QCLot: 6168034)								
EP071: C10 - C14 Fraction	----	50	µg/L	<50	5676 µg/L	50.2	39.3	103
EP071: C15 - C28 Fraction	----	100	µg/L	<100	10740 µg/L	67.2	47.2	122
EP071: C29 - C36 Fraction	----	50	µg/L	<50	3044 µg/L	63.5	42.5	119
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 6163301)								

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 6163301) - continued								
EP080: C6 - C10 Fraction	C6_C10	20	µg/L	<20	450 µg/L	91.0	73.9	115
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 6168034)								
EP071: >C10 - C16 Fraction	----	100	µg/L	<100	7710 µg/L	56.7	47.0	100
EP071: >C16 - C34 Fraction	----	100	µg/L	<100	10930 µg/L	66.8	46.2	116
EP071: >C34 - C40 Fraction	----	100	µg/L	<100	1050 µg/L	56.6	24.7	137
EP080: BTEXN (QCLot: 6163301)								
EP080: Benzene	71-43-2	1	µg/L	<1	20 µg/L	87.9	84.1	114
EP080: Toluene	108-88-3	2	µg/L	<2	20 µg/L	98.1	81.0	115
EP080: Ethylbenzene	100-41-4	2	µg/L	<2	20 µg/L	88.8	84.4	113
EP080: meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	40 µg/L	86.3	84.3	114
EP080: ortho-Xylene	95-47-6	2	µg/L	<2	20 µg/L	89.7	86.5	111
EP080: Naphthalene	91-20-3	5	µg/L	<5	5 µg/L	112	77.0	118

Matrix Spike (MS) Report

The quality control term Matrix Spike (MS) refers to an intralaboratory split sample spiked with a representative set of target analytes. The purpose of this QC parameter is to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQOs). Ideal recovery ranges stated may be waived in the event of sample matrix interference.

Sub-Matrix: **SOIL**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report: Spike Concentration	SpikeRecovery(%): MS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 6171203)							
EP2416162-001	S10 0.25	EG005T: Arsenic	7440-38-2	50 mg/kg	109	70.0	130
		EG005T: Cadmium	7440-43-9	12.5 mg/kg	104	70.0	130
		EG005T: Chromium	7440-47-3	50 mg/kg	103	70.0	130
		EG005T: Copper	7440-50-8	50 mg/kg	102	70.0	130
		EG005T: Lead	7439-92-1	50 mg/kg	104	70.0	130
		EG005T: Nickel	7440-02-0	50 mg/kg	104	70.0	130
		EG005T: Zinc	7440-66-6	50 mg/kg	95.4	70.0	130
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 6171207)							
EP2416162-041	S16 1.70	EG005T: Arsenic	7440-38-2	50 mg/kg	106	70.0	130
		EG005T: Cadmium	7440-43-9	12.5 mg/kg	101	70.0	130
		EG005T: Chromium	7440-47-3	50 mg/kg	100	70.0	130
		EG005T: Copper	7440-50-8	50 mg/kg	100	70.0	130
		EG005T: Lead	7439-92-1	50 mg/kg	106	70.0	130
		EG005T: Nickel	7440-02-0	50 mg/kg	101	70.0	130
		EG005T: Zinc	7440-66-6	50 mg/kg	112	70.0	130

Sub-Matrix: **SOIL**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EG035T: Total Recoverable Mercury by FIMS (QCLot: 6171202)							
EP2416162-001	S10 0.25	EG035T: Mercury	7439-97-6	1 mg/kg	90.7	70.0	130
EG035T: Total Recoverable Mercury by FIMS (QCLot: 6171208)							
EP2416162-041	S16 1.70	EG035T: Mercury	7439-97-6	1 mg/kg	88.4	70.0	130
EP068A: Organochlorine Pesticides (OC) (QCLot: 6164024)							
EP2416162-002	S10 0.50	EP068: gamma-BHC - (Lindane)	58-89-9	0.5 mg/kg	77.9	57.9	124
		EP068: Heptachlor	76-44-8	0.5 mg/kg	86.2	57.4	135
		EP068: Aldrin	309-00-2	0.5 mg/kg	84.3	59.6	125
		EP068: Dieldrin	60-57-1	0.5 mg/kg	88.0	62.2	131
		EP068: Endrin	72-20-8	0.5 mg/kg	91.4	55.8	138
		EP068: 4.4`-DDT	50-29-3	0.5 mg/kg	139	50.5	145
EP068A: Organochlorine Pesticides (OC) (QCLot: 6164039)							
EP2416162-039	S16 0.50	EP068: gamma-BHC - (Lindane)	58-89-9	0.5 mg/kg	78.8	57.9	124
		EP068: Heptachlor	76-44-8	0.5 mg/kg	70.8	57.4	135
		EP068: Aldrin	309-00-2	0.5 mg/kg	82.1	59.6	125
		EP068: Dieldrin	60-57-1	0.5 mg/kg	75.5	62.2	131
		EP068: Endrin	72-20-8	0.5 mg/kg	90.7	55.8	138
		EP068: 4.4`-DDT	50-29-3	0.5 mg/kg	110	50.5	145
EP068B: Organophosphorus Pesticides (OP) (QCLot: 6164024)							
EP2416162-002	S10 0.50	EP068: Diazinon	333-41-5	0.5 mg/kg	85.4	59.5	128
		EP068: Chlorpyrifos-methyl	5598-13-0	0.5 mg/kg	86.3	60.3	128
		EP068: Pirimphos-ethyl	23505-41-1	0.5 mg/kg	90.2	58.8	127
		EP068: Bromophos-ethyl	4824-78-6	0.5 mg/kg	94.2	60.7	128
		EP068: Prothiofos	34643-46-4	0.5 mg/kg	97.9	60.0	129
EP068B: Organophosphorus Pesticides (OP) (QCLot: 6164039)							
EP2416162-039	S16 0.50	EP068: Diazinon	333-41-5	0.5 mg/kg	77.3	59.5	128
		EP068: Chlorpyrifos-methyl	5598-13-0	0.5 mg/kg	73.7	60.3	128
		EP068: Pirimphos-ethyl	23505-41-1	0.5 mg/kg	68.8	58.8	127
		EP068: Bromophos-ethyl	4824-78-6	0.5 mg/kg	72.4	60.7	128
		EP068: Prothiofos	34643-46-4	0.5 mg/kg	77.5	60.0	129
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 6164021)							
EP2416162-002	S10 0.50	EP075(SIM): Acenaphthene	83-32-9	3 mg/kg	109	73.5	125
		EP075(SIM): Pyrene	129-00-0	3 mg/kg	122	70.8	125
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 6164037)							
EP2416162-039	S16 0.50	EP075(SIM): Acenaphthene	83-32-9	3 mg/kg	107	73.5	125
		EP075(SIM): Pyrene	129-00-0	3 mg/kg	104	70.8	125
EP075A: Phenolic Compounds (QCLot: 6164025)							

Sub-Matrix: **SOIL**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP075A: Phenolic Compounds (QCLot: 6164025) - continued							
EP2416162-002	S10 0.50	EP075: Phenol	108-95-2	1.5 mg/kg	72.7	61.5	143
		EP075: 2-Chlorophenol	95-57-8	1.5 mg/kg	89.2	59.6	144
		EP075: 2-Nitrophenol	88-75-5	1.5 mg/kg	82.1	62.6	153
		EP075: 4-Chloro-3-methylphenol	59-50-7	1.5 mg/kg	65.8	63.2	141
		EP075: Pentachlorophenol	87-86-5	1.5 mg/kg	71.0	39.6	156
EP075A: Phenolic Compounds (QCLot: 6164036)							
EP2416162-039	S16 0.50	EP075: Phenol	108-95-2	1.5 mg/kg	72.6	61.5	143
		EP075: 2-Chlorophenol	95-57-8	1.5 mg/kg	86.7	59.6	144
		EP075: 2-Nitrophenol	88-75-5	1.5 mg/kg	77.4	62.6	153
		EP075: 4-Chloro-3-methylphenol	59-50-7	1.5 mg/kg	66.8	63.2	141
		EP075: Pentachlorophenol	87-86-5	1.5 mg/kg	65.2	39.6	156
EP075B: Polynuclear Aromatic Hydrocarbons (QCLot: 6164025)							
EP2416162-002	S10 0.50	EP075: Acenaphthene	83-32-9	1.5 mg/kg	95.7	68.0	140
		EP075: Pyrene	129-00-0	1.5 mg/kg	94.4	69.9	142
EP075B: Polynuclear Aromatic Hydrocarbons (QCLot: 6164036)							
EP2416162-039	S16 0.50	EP075: Acenaphthene	83-32-9	1.5 mg/kg	87.6	68.0	140
		EP075: Pyrene	129-00-0	1.5 mg/kg	94.2	69.9	142
EP075D: Nitrosamines (QCLot: 6164025)							
EP2416162-002	S10 0.50	EP075: N-Nitrosodi-n-propylamine	621-64-7	1.5 mg/kg	91.2	43.8	148
EP075D: Nitrosamines (QCLot: 6164036)							
EP2416162-039	S16 0.50	EP075: N-Nitrosodi-n-propylamine	621-64-7	1.5 mg/kg	70.4	43.8	148
EP075E: Nitroaromatics and Ketones (QCLot: 6164025)							
EP2416162-002	S10 0.50	EP075: 2.4-Dinitrotoluene	121-14-2	1.5 mg/kg	73.4	66.7	141
EP075E: Nitroaromatics and Ketones (QCLot: 6164036)							
EP2416162-039	S16 0.50	EP075: 2.4-Dinitrotoluene	121-14-2	1.5 mg/kg	71.2	66.7	141
EP075G: Chlorinated Hydrocarbons (QCLot: 6164025)							
EP2416162-002	S10 0.50	EP075: 1.4-Dichlorobenzene	106-46-7	1.5 mg/kg	89.6	52.5	139
		EP075: 1.2.4-Trichlorobenzene	120-82-1	1.5 mg/kg	101	64.0	140
EP075G: Chlorinated Hydrocarbons (QCLot: 6164036)							
EP2416162-039	S16 0.50	EP075: 1.4-Dichlorobenzene	106-46-7	1.5 mg/kg	84.8	52.5	139
		EP075: 1.2.4-Trichlorobenzene	120-82-1	1.5 mg/kg	93.9	64.0	140
EP080/071: Total Petroleum Hydrocarbons (QCLot: 6164018)							
EP2416078-017	Anonymous	EP080: C6 - C9 Fraction	----	24 mg/kg	94.5	69.1	135
EP080/071: Total Petroleum Hydrocarbons (QCLot: 6164020)							
EP2416078-017	Anonymous	EP071: C10 - C14 Fraction	----	1666 mg/kg	89.8	64.7	126

Sub-Matrix: **SOIL**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report: Spike Concentration	Matrix Spike (MS) Report: SpikeRecovery(%) MS	Matrix Spike (MS) Report: Acceptable Limits (%) Low	Matrix Spike (MS) Report: Acceptable Limits (%) High
EP080/071: Total Petroleum Hydrocarbons (QCLot: 6164020) - continued							
EP2416078-017	Anonymous	EP071: C15 - C28 Fraction	----	2937 mg/kg	77.7	61.7	124
		EP071: C29 - C36 Fraction	----	477 mg/kg	74.8	64.6	131
EP080/071: Total Petroleum Hydrocarbons (QCLot: 6164031)							
EP2416162-039	S16 0.50	EP080: C6 - C9 Fraction	----	24 mg/kg	104	69.1	135
EP080/071: Total Petroleum Hydrocarbons (QCLot: 6164038)							
EP2416162-039	S16 0.50	EP071: C10 - C14 Fraction	----	1666 mg/kg	88.1	64.7	126
		EP071: C15 - C28 Fraction	----	2937 mg/kg	82.9	61.7	124
		EP071: C29 - C36 Fraction	----	477 mg/kg	85.5	64.6	131
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 6164018)							
EP2416078-017	Anonymous	EP080: C6 - C10 Fraction	C6_C10	29 mg/kg	91.4	69.1	135
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 6164020)							
EP2416078-017	Anonymous	EP071: >C10 - C16 Fraction	----	2315 mg/kg	87.4	64.7	126
		EP071: >C16 - C34 Fraction	----	2594 mg/kg	75.5	61.7	124
		EP071: >C34 - C40 Fraction	----	157 mg/kg	84.7	64.6	131
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 6164031)							
EP2416162-039	S16 0.50	EP080: C6 - C10 Fraction	C6_C10	29 mg/kg	100	69.1	135
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 6164038)							
EP2416162-039	S16 0.50	EP071: >C10 - C16 Fraction	----	2315 mg/kg	85.4	64.7	126
		EP071: >C16 - C34 Fraction	----	2594 mg/kg	84.6	61.7	124
		EP071: >C34 - C40 Fraction	----	157 mg/kg	89.3	64.6	131
EP080: BTEXN (QCLot: 6164018)							
EP2416078-017	Anonymous	EP080: Benzene	71-43-2	2 mg/kg	97.1	76.4	118
		EP080: Toluene	108-88-3	2 mg/kg	94.0	67.4	112
EP080: BTEXN (QCLot: 6164031)							
EP2416162-039	S16 0.50	EP080: Benzene	71-43-2	2 mg/kg	110	76.4	118
		EP080: Toluene	108-88-3	2 mg/kg	102	67.4	112

Sub-Matrix: **WATER**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report: Spike Concentration	Matrix Spike (MS) Report: SpikeRecovery(%) MS	Matrix Spike (MS) Report: Acceptable Limits (%) Low	Matrix Spike (MS) Report: Acceptable Limits (%) High
EG020T: Total Metals by ICP-MS (QCLot: 6163264)							
EP2416162-074	FB	EG020A-T: Arsenic	7440-38-2	1 mg/L	93.2	70.0	130
		EG020A-T: Cadmium	7440-43-9	0.25 mg/L	94.4	70.0	130
		EG020A-T: Chromium	7440-47-3	1 mg/L	92.7	70.0	130
		EG020A-T: Copper	7440-50-8	1 mg/L	88.8	70.0	130
		EG020A-T: Lead	7439-92-1	1 mg/L	92.6	70.0	130

Sub-Matrix: **WATER**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*Concentration*	*MS*	*Low*	*High*
EG020T: Total Metals by ICP-MS (QCLot: 6163264) - continued							
EP2416162-074	FB	EG020A-T: Nickel	7440-02-0	1 mg/L	94.9	70.0	130
		EG020A-T: Zinc	7440-66-6	1 mg/L	92.6	70.0	130
EG035T: Total Recoverable Mercury by FIMS (QCLot: 6163266)							
EP2416056-001	Anonymous	EG035T: Mercury	7439-97-6	0.005 mg/L	78.1	70.0	130
EP080/071: Total Petroleum Hydrocarbons (QCLot: 6163301)							
EP2416102-001	Anonymous	EP080: C6 - C9 Fraction	----	240 µg/L	90.4	77.0	137
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 6163301)							
EP2416102-001	Anonymous	EP080: C6 - C10 Fraction	C6_C10	290 µg/L	82.7	77.0	137
EP080: BTEXN (QCLot: 6163301)							
EP2416102-001	Anonymous	EP080: Benzene	71-43-2	20 µg/L	95.0	77.0	122
		EP080: Toluene	108-88-3	20 µg/L	111	73.5	126

QA/QC Compliance Assessment to assist with Quality Review

Work Order	: **EP2416162**	Page	: 1 of 29
Client	: **West Soil & Water**	Laboratory	: Environmental Division Perth
Contact	: Sam Mueller	Telephone	: +61-8-9406 1301
Project	: 20240730_147 Burswood Road Additional Investigations	Date Samples Received	: 31-Oct-2024
Site	: 147 Burswood Road	Issue Date	: 13-Nov-2024
Sampler	: Audrey Scanlan, Sam Mueller	No. of samples received	: 76
Order number	: ----	No. of samples analysed	: 42

This report is automatically generated by the ALS LIMS through interpretation of the ALS Quality Control Report and several Quality Assurance parameters measured by ALS. This automated reporting highlights any non-conformances, facilitates faster and more accurate data validation and is designed to assist internal expert and external Auditor review. Many components of this report contribute to the overall DQO assessment and reporting for guideline compliance.

Brief method summaries and references are also provided to assist in traceability.

Summary of Outliers

Outliers : Quality Control Samples

This report highlights outliers flagged in the Quality Control (QC) Report.

- **NO Method Blank value outliers occur.**
- **NO Duplicate outliers occur.**
- **NO Matrix Spike outliers occur.**
- **Laboratory Control outliers exist - please see following pages for full details.**
- **Surrogate recovery outliers exist for all regular sample matrices - please see following pages for full details.**

Outliers : Analysis Holding Time Compliance

- **NO Analysis Holding Time Outliers exist.**

Outliers : Frequency of Quality Control Samples

- **Quality Control Sample Frequency Outliers exist - please see following pages for full details.**

Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: **SOIL**

Compound Group Name	Laboratory Sample ID	Client Sample ID	Analyte	CAS Number	Data	Limits	Comment
Laboratory Control Spike (LCS) Recoveries							
EP075C: Phthalate Esters	QC-6164025-002	----	**Di-n-octylphthalate**	117-84-0	159 %	54.0-130%	**Recovery greater than upper control limit**
EP075H: Anilines and Benzidines	QC-6164025-002	----	**4-Chloroaniline**	106-47-8	81.7 %	13.9-74.0%	**Recovery greater than upper control limit**

Matrix: **WATER**

Compound Group Name	Laboratory Sample ID	Client Sample ID	Analyte	CAS Number	Data	Limits	Comment
Laboratory Control Spike (LCS) Recoveries							
EP068B: Organophosphorus Pesticides (OP)	QC-6168035-002	----	**Demeton-S-methyl**	919-86-8	119 %	34.6-115%	**Recovery greater than upper control limit**
EP068B: Organophosphorus Pesticides (OP)	QC-6168035-002	----	**Parathion-methyl**	298-00-0	133 %	26.8-110%	**Recovery greater than upper control limit**
EP068B: Organophosphorus Pesticides (OP)	QC-6168035-002	----	**Parathion**	56-38-2	142 %	30.2-112%	**Recovery greater than upper control limit**
EP068B: Organophosphorus Pesticides (OP)	QC-6168035-002	----	**Azinphos Methyl**	86-50-0	154 %	10.0-137%	**Recovery greater than upper control limit**

Regular Sample Surrogates

Sub-Matrix: **SOIL**

Compound Group Name	Laboratory Sample ID	Client Sample ID	Analyte	CAS Number	Data	Limits	Comment
Samples Submitted							
EP075T: Base/Neutral Extractable Surrogates	EP2416162-068	X1	**Anthracene-d10**	1719-06-8	36.2 %	49.0-131 %	**Recovery less than lower data quality objective**
EP075T: Base/Neutral Extractable Surrogates	EP2416162-068	X1	**4-Terphenyl-d14**	1718-51-0	45.4 %	54.0-140 %	**Recovery less than lower data quality objective**

Sub-Matrix: **WATER**

Compound Group Name	Laboratory Sample ID	Client Sample ID	Analyte	CAS Number	Data	Limits	Comment
Samples Submitted							
EP075T: Base/Neutral Extractable Surrogates	EP2416162-075	RB	**4-Terphenyl-d14**	1718-51-0	180 %	44.2-141 %	**Recovery greater than upper data quality objective**
EP075T: Base/Neutral Extractable Surrogates	EP2416162-076	FB	**4-Terphenyl-d14**	1718-51-0	145 %	44.2-141 %	**Recovery greater than upper data quality objective**

Outliers : Frequency of Quality Control Samples

Matrix: **WATER**

Quality Control Sample Type		Count		Rate (%)		Quality Control Specification
Analytical Methods	Method	QC	Regular	Actual	Expected	
Matrix Spikes (MS)						
PAH/Phenols (GC/MS - SIM)	EP075(SIM)	0	11	0.00	5.00	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	0	11	0.00	5.00	NEPM 2013 B3 & ALS QC Standard

Matrix: **WATER**

Quality Control Sample Type		Count		Rate (%)		Quality Control Specification
Analytical Methods	Method	QC	Regular	Actual	Expected	
Matrix Spikes (MS) - Continued						
Semivolatile Organic Compounds	EP075	0	4	0.00	5.00	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	0	20	0.00	5.00	NEPM 2013 B3 & ALS QC Standard

Analysis Holding Time Compliance

If samples are identified below as having been analysed or extracted outside of recommended holding times, this should be taken into consideration when interpreting results.

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times (referencing USEPA SW 846, APHA, AS and NEPM) based on the sample container provided. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. A listing of breaches (if any) is provided herein.

Holding time for leachate methods (e.g. TCLP) vary according to the analytes reported. Assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These are: organics 14 days, mercury 28 days & other metals 180 days. A recorded breach does not guarantee a breach for all non-volatile parameters.

Holding times for ***VOC in soils*** vary according to analytes of interest. Vinyl Chloride and Styrene holding time is 7 days; others 14 days. A recorded breach does not guarantee a breach for all VOC analytes and should be verified in case the reported breach is a false positive or Vinyl Chloride and Styrene are not key analytes of interest/concern.

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / ***Container*** / *Client Sample ID(s)*	***Sample Date***	*Extraction / Preparation*			*Analysis*		
		Date extracted	*Due for extraction*	*Evaluation*	***Date analysed***	*Due for analysis*	*Evaluation*
EA055: Moisture Content (Dried @ 105-110°C)							
Soil Glass Jar - Unpreserved (EA055)							
S10 0.25, S10 0.50, S10 1.50, S11 0.25, S11 0.50, S11 1.50, S12 0.25, S12 0.50, S12 1.30, S13 0.25, S13 0.50, S13 1.50, S14 0.00, S14 0.50, S14 1.80, S15 0.00, S15 0.50, S15 1.70, S16 0.00, S16 0.50, S16 1.70, S17 0.25, S17 0.50, S17 1.40, S17 2.00, S18 0.25, S18 0.50, S18 2.00, S19 0.25, S19 0.50, S19 1.50	**30-Oct-2024**	**----**	----	----	**07-Nov-2024**	13-Nov-2024	✓
Soil Glass Jar - Unpreserved (EA055)							
S20 0.00, S20 0.50, S20 1.50, X1, X3, TB, TB	**31-Oct-2024**	**----**	----	----	**07-Nov-2024**	14-Nov-2024	✓

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EG005(ED093)T: Total Metals by ICP-AES							
Soil Glass Jar - Unpreserved (EG005T)							
S10 0.25, S10 0.50, S10 1.50, S11 0.25, S11 0.50, S11 1.50, S12 0.25, S12 0.50, S12 1.30, S13 0.25, S13 0.50, S13 1.50, S14 0.00, S14 0.50, S14 1.80, S15 0.00, S15 0.50, S15 1.70, S16 0.00, S16 0.50, S16 1.70, S17 0.25, S17 0.50, S17 1.40, S17 2.00, S18 0.25, S18 0.50, S18 2.00, S19 0.25, S19 0.50, S19 1.50	**30-Oct-2024**	**07-Nov-2024**	28-Apr-2025	✓	**08-Nov-2024**	28-Apr-2025	✓
Soil Glass Jar - Unpreserved (EG005T)							
S20 0.00, S20 0.50, S20 1.50, X1, X3, TB, TB	**31-Oct-2024**	**07-Nov-2024**	29-Apr-2025	✓	**08-Nov-2024**	29-Apr-2025	✓

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EG035T: Total Recoverable Mercury by FIMS							
Soil Glass Jar - Unpreserved (EG035T)							
S10 0.25, S10 0.50, S10 1.50, S11 0.25, S11 0.50, S11 1.50, S12 0.25, S12 0.50, S12 1.30, S13 0.25, S13 0.50, S13 1.50, S14 0.00, S14 0.50, S14 1.80, S15 0.00, S15 0.50, S15 1.70, S16 0.00, S16 0.50	**30-Oct-2024**	**07-Nov-2024**	27-Nov-2024	✓	**07-Nov-2024**	27-Nov-2024	✓
Soil Glass Jar - Unpreserved (EG035T)							
S16 1.70, S17 0.25, S17 0.50, S17 1.40, S17 2.00, S18 0.25, S18 0.50, S18 2.00, S19 0.25, S19 0.50, S19 1.50	**30-Oct-2024**	**07-Nov-2024**	27-Nov-2024	✓	**08-Nov-2024**	27-Nov-2024	✓
Soil Glass Jar - Unpreserved (EG035T)							
S20 0.00, S20 0.50, S20 1.50, X1, X3, TB, TB	**31-Oct-2024**	**07-Nov-2024**	28-Nov-2024	✓	**08-Nov-2024**	28-Nov-2024	✓

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP068A: Organochlorine Pesticides (OC)							
Soil Glass Jar - Unpreserved (EP068) S10 0.25, S10 0.50, S10 1.50, S11 0.25, S11 0.50, S11 1.50, S12 0.25, S12 0.50, S12 1.30, S13 0.25	**30-Oct-2024**	**05-Nov-2024**	13-Nov-2024	✓	**09-Nov-2024**	15-Dec-2024	✓
Soil Glass Jar - Unpreserved (EP068) S13 0.50, S13 1.50, S14 0.00, S14 0.50, S14 1.80, S15 0.00, S15 0.50, S15 1.70	**30-Oct-2024**	**05-Nov-2024**	13-Nov-2024	✓	**11-Nov-2024**	15-Dec-2024	✓
Soil Glass Jar - Unpreserved (EP068) S16 0.00, S16 0.50, S16 1.70, S17 0.25, S17 0.50, S17 1.40, S17 2.00, S18 0.25, S18 0.50, S18 2.00, S19 0.25, S19 0.50, S19 1.50	**30-Oct-2024**	**06-Nov-2024**	13-Nov-2024	✓	**11-Nov-2024**	16-Dec-2024	✓
Soil Glass Jar - Unpreserved (EP068) S20 0.00, S20 0.50, S20 1.50, X1, X3	**31-Oct-2024**	**06-Nov-2024**	14-Nov-2024	✓	**11-Nov-2024**	16-Dec-2024	✓
Soil Glass Jar - Unpreserved (EP068) TB, TB	**31-Oct-2024**	**06-Nov-2024**	14-Nov-2024	✓	**12-Nov-2024**	16-Dec-2024	✓

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP068B: Organophosphorus Pesticides (OP)							
Soil Glass Jar - Unpreserved (EP068)							
S10 0.25, S10 0.50, S10 1.50, S11 0.25, S11 0.50, S11 1.50, S12 0.25, S12 0.50, S12 1.30, S13 0.25	**30-Oct-2024**	**05-Nov-2024**	13-Nov-2024	✓	**09-Nov-2024**	15-Dec-2024	✓
Soil Glass Jar - Unpreserved (EP068)							
S13 0.50, S13 1.50, S14 0.00, S14 0.50, S14 1.80, S15 0.00, S15 0.50, S15 1.70	**30-Oct-2024**	**05-Nov-2024**	13-Nov-2024	✓	**11-Nov-2024**	15-Dec-2024	✓
Soil Glass Jar - Unpreserved (EP068)							
S16 0.00, S16 0.50, S16 1.70, S17 0.25, S17 0.50, S17 1.40, S17 2.00, S18 0.25, S18 0.50, S18 2.00, S19 0.25, S19 0.50, S19 1.50	**30-Oct-2024**	**06-Nov-2024**	13-Nov-2024	✓	**11-Nov-2024**	16-Dec-2024	✓
Soil Glass Jar - Unpreserved (EP068)							
S20 0.00, S20 0.50, S20 1.50, X1, X3	**31-Oct-2024**	**06-Nov-2024**	14-Nov-2024	✓	**11-Nov-2024**	16-Dec-2024	✓
Soil Glass Jar - Unpreserved (EP068)							
TB, TB	**31-Oct-2024**	**06-Nov-2024**	14-Nov-2024	✓	**12-Nov-2024**	16-Dec-2024	✓

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons							
Soil Glass Jar - Unpreserved (EP075(SIM))							
S10 0.25, S10 0.50, S10 1.50, S11 0.25, S11 0.50, S11 1.50, S12 0.25, S12 0.50, S12 1.30, S13 0.25, S13 0.50, S13 1.50, S14 0.00, S14 0.50, S14 1.80, S15 0.00, S15 0.50, S15 1.70	**30-Oct-2024**	**05-Nov-2024**	13-Nov-2024	✓	**08-Nov-2024**	15-Dec-2024	✓
Soil Glass Jar - Unpreserved (EP075(SIM))							
S16 0.00, S16 0.50, S16 1.70, S17 0.25, S17 0.50, S17 1.40, S17 2.00, S18 0.25, S18 0.50, S18 2.00, S19 0.25, S19 0.50, S19 1.50	**30-Oct-2024**	**06-Nov-2024**	13-Nov-2024	✓	**08-Nov-2024**	16-Dec-2024	✓
Soil Glass Jar - Unpreserved (EP075(SIM))							
S20 0.00, S20 0.50, S20 1.50, X1, X3, TB, TB	**31-Oct-2024**	**06-Nov-2024**	14-Nov-2024	✓	**08-Nov-2024**	16-Dec-2024	✓

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP075A: Phenolic Compounds							
Soil Glass Jar - Unpreserved (EP075)							
S10 0.50	**30-Oct-2024**	**05-Nov-2024**	13-Nov-2024	✓	**12-Nov-2024**	15-Dec-2024	✓
Soil Glass Jar - Unpreserved (EP075)							
S10 0.25, S10 1.50, S11 0.25, S11 0.50, S11 1.50, S12 0.25, S12 0.50, S12 1.30, S13 0.25, S13 0.50, S13 1.50, S14 0.00, S14 0.50, S14 1.80, S15 0.00, S15 0.50, S15 1.70	**30-Oct-2024**	**05-Nov-2024**	13-Nov-2024	✓	**13-Nov-2024**	15-Dec-2024	✓
Soil Glass Jar - Unpreserved (EP075)							
S16 0.00, S16 0.50, S16 1.70, S17 0.25, S17 0.50, S17 1.40, S17 2.00, S18 0.25, S18 0.50, S18 2.00, S19 0.25, S19 0.50, S19 1.50	**30-Oct-2024**	**06-Nov-2024**	13-Nov-2024	✓	**13-Nov-2024**	16-Dec-2024	✓
Soil Glass Jar - Unpreserved (EP075)							
S20 0.00, S20 0.50, S20 1.50, X1, X3, TB, TB	**31-Oct-2024**	**06-Nov-2024**	14-Nov-2024	✓	**13-Nov-2024**	16-Dec-2024	✓

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP075B: Polynuclear Aromatic Hydrocarbons							
Soil Glass Jar - Unpreserved (EP075)							
S10 0.50	**30-Oct-2024**	**05-Nov-2024**	13-Nov-2024	✓	**12-Nov-2024**	15-Dec-2024	✓
Soil Glass Jar - Unpreserved (EP075)							
S10 0.25, S10 1.50, S11 0.25, S11 0.50, S11 1.50, S12 0.25, S12 0.50, S12 1.30, S13 0.25, S13 0.50, S13 1.50, S14 0.00, S14 0.50, S14 1.80, S15 0.00, S15 0.50, S15 1.70	**30-Oct-2024**	**05-Nov-2024**	13-Nov-2024	✓	**13-Nov-2024**	15-Dec-2024	✓
Soil Glass Jar - Unpreserved (EP075)							
S16 0.00, S16 0.50, S16 1.70, S17 0.25, S17 0.50, S17 1.40, S17 2.00, S18 0.25, S18 0.50, S18 2.00, S19 0.25, S19 0.50, S19 1.50	**30-Oct-2024**	**06-Nov-2024**	13-Nov-2024	✓	**13-Nov-2024**	16-Dec-2024	✓
Soil Glass Jar - Unpreserved (EP075)							
S20 0.00, S20 0.50, S20 1.50, X1, X3, TB, TB	**31-Oct-2024**	**06-Nov-2024**	14-Nov-2024	✓	**13-Nov-2024**	16-Dec-2024	✓

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP075C: Phthalate Esters							
Soil Glass Jar - Unpreserved (EP075)							
S10 0.50	**30-Oct-2024**	**05-Nov-2024**	13-Nov-2024	✓	**12-Nov-2024**	15-Dec-2024	✓
Soil Glass Jar - Unpreserved (EP075)							
S10 0.25, S10 1.50, S11 0.25, S11 0.50, S11 1.50, S12 0.25, S12 0.50, S12 1.30, S13 0.25, S13 0.50, S13 1.50, S14 0.00, S14 0.50, S14 1.80, S15 0.00, S15 0.50, S15 1.70	**30-Oct-2024**	**05-Nov-2024**	13-Nov-2024	✓	**13-Nov-2024**	15-Dec-2024	✓
Soil Glass Jar - Unpreserved (EP075)							
S16 0.00, S16 0.50, S16 1.70, S17 0.25, S17 0.50, S17 1.40, S17 2.00, S18 0.25, S18 0.50, S18 2.00, S19 0.25, S19 0.50, S19 1.50	**30-Oct-2024**	**06-Nov-2024**	13-Nov-2024	✓	**13-Nov-2024**	16-Dec-2024	✓
Soil Glass Jar - Unpreserved (EP075)							
S20 0.00, S20 0.50, S20 1.50, X1, X3, TB, TB	**31-Oct-2024**	**06-Nov-2024**	14-Nov-2024	✓	**13-Nov-2024**	16-Dec-2024	✓

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP075D: Nitrosamines							
Soil Glass Jar - Unpreserved (EP075)							
S10 0.50	**30-Oct-2024**	**05-Nov-2024**	13-Nov-2024	✓	**12-Nov-2024**	15-Dec-2024	✓
Soil Glass Jar - Unpreserved (EP075)							
S10 0.25, S10 1.50, S11 0.25, S11 0.50, S11 1.50, S12 0.25, S12 0.50, S12 1.30, S13 0.25, S13 0.50, S13 1.50, S14 0.00, S14 0.50, S14 1.80, S15 0.00, S15 0.50, S15 1.70	**30-Oct-2024**	**05-Nov-2024**	13-Nov-2024	✓	**13-Nov-2024**	15-Dec-2024	✓
Soil Glass Jar - Unpreserved (EP075)							
S16 0.00, S16 0.50, S16 1.70, S17 0.25, S17 0.50, S17 1.40, S17 2.00, S18 0.25, S18 0.50, S18 2.00, S19 0.25, S19 0.50, S19 1.50	**30-Oct-2024**	**06-Nov-2024**	13-Nov-2024	✓	**13-Nov-2024**	16-Dec-2024	✓
Soil Glass Jar - Unpreserved (EP075)							
S20 0.00, S20 0.50, S20 1.50, X1, X3, TB, TB	**31-Oct-2024**	**06-Nov-2024**	14-Nov-2024	✓	**13-Nov-2024**	16-Dec-2024	✓

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP075E: Nitroaromatics and Ketones							
Soil Glass Jar - Unpreserved (EP075)							
S10 0.50	**30-Oct-2024**	**05-Nov-2024**	13-Nov-2024	✓	**12-Nov-2024**	15-Dec-2024	✓
Soil Glass Jar - Unpreserved (EP075)							
S10 0.25, S10 1.50, S11 0.25, S11 0.50, S11 1.50, S12 0.25, S12 0.50, S12 1.30, S13 0.25, S13 0.50, S13 1.50, S14 0.00, S14 0.50, S14 1.80, S15 0.00, S15 0.50, S15 1.70	**30-Oct-2024**	**05-Nov-2024**	13-Nov-2024	✓	**13-Nov-2024**	15-Dec-2024	✓
Soil Glass Jar - Unpreserved (EP075)							
S16 0.00, S16 0.50, S16 1.70, S17 0.25, S17 0.50, S17 1.40, S17 2.00, S18 0.25, S18 0.50, S18 2.00, S19 0.25, S19 0.50, S19 1.50	**30-Oct-2024**	**06-Nov-2024**	13-Nov-2024	✓	**13-Nov-2024**	16-Dec-2024	✓
Soil Glass Jar - Unpreserved (EP075)							
S20 0.00, S20 0.50, S20 1.50, X1, X3, TB, TB	**31-Oct-2024**	**06-Nov-2024**	14-Nov-2024	✓	**13-Nov-2024**	16-Dec-2024	✓

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP075F: Haloethers							
Soil Glass Jar - Unpreserved (EP075)							
S10 0.50	**30-Oct-2024**	**05-Nov-2024**	13-Nov-2024	✓	**12-Nov-2024**	15-Dec-2024	✓
Soil Glass Jar - Unpreserved (EP075)							
S10 0.25, S10 1.50, S11 0.25, S11 0.50, S11 1.50, S12 0.25, S12 0.50, S12 1.30, S13 0.25, S13 0.50, S13 1.50, S14 0.00, S14 0.50, S14 1.80, S15 0.00, S15 0.50, S15 1.70	**30-Oct-2024**	**05-Nov-2024**	13-Nov-2024	✓	**13-Nov-2024**	15-Dec-2024	✓
Soil Glass Jar - Unpreserved (EP075)							
S16 0.00, S16 0.50, S16 1.70, S17 0.25, S17 0.50, S17 1.40, S17 2.00, S18 0.25, S18 0.50, S18 2.00, S19 0.25, S19 0.50, S19 1.50	**30-Oct-2024**	**06-Nov-2024**	13-Nov-2024	✓	**13-Nov-2024**	16-Dec-2024	✓
Soil Glass Jar - Unpreserved (EP075)							
S20 0.00, S20 0.50, S20 1.50, X1, X3, TB, TB	**31-Oct-2024**	**06-Nov-2024**	14-Nov-2024	✓	**13-Nov-2024**	16-Dec-2024	✓

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP075G: Chlorinated Hydrocarbons							
Soil Glass Jar - Unpreserved (EP075)							
S10 0.50	**30-Oct-2024**	**05-Nov-2024**	13-Nov-2024	✓	**12-Nov-2024**	15-Dec-2024	✓
Soil Glass Jar - Unpreserved (EP075)							
S10 0.25, S10 1.50, S11 0.25, S11 0.50, S11 1.50, S12 0.25, S12 0.50, S12 1.30, S13 0.25, S13 0.50, S13 1.50, S14 0.00, S14 0.50, S14 1.80, S15 0.00, S15 0.50, S15 1.70	**30-Oct-2024**	**05-Nov-2024**	13-Nov-2024	✓	**13-Nov-2024**	15-Dec-2024	✓
Soil Glass Jar - Unpreserved (EP075)							
S16 0.00, S16 0.50, S16 1.70, S17 0.25, S17 0.50, S17 1.40, S17 2.00, S18 0.25, S18 0.50, S18 2.00, S19 0.25, S19 0.50, S19 1.50	**30-Oct-2024**	**06-Nov-2024**	13-Nov-2024	✓	**13-Nov-2024**	16-Dec-2024	✓
Soil Glass Jar - Unpreserved (EP075)							
S20 0.00, S20 0.50, S20 1.50, X1, X3, TB, TB	**31-Oct-2024**	**06-Nov-2024**	14-Nov-2024	✓	**13-Nov-2024**	16-Dec-2024	✓

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP075H: Anilines and Benzidines							
Soil Glass Jar - Unpreserved (EP075)							
S10 0.50	**30-Oct-2024**	**05-Nov-2024**	13-Nov-2024	✓	**12-Nov-2024**	15-Dec-2024	✓
Soil Glass Jar - Unpreserved (EP075)							
S10 0.25, S10 1.50, S11 0.25, S11 0.50, S11 1.50, S12 0.25, S12 0.50, S12 1.30, S13 0.25, S13 0.50, S13 1.50, S14 0.00, S14 0.50, S14 1.80, S15 0.00, S15 0.50, S15 1.70	**30-Oct-2024**	**05-Nov-2024**	13-Nov-2024	✓	**13-Nov-2024**	15-Dec-2024	✓
Soil Glass Jar - Unpreserved (EP075)							
S16 0.00, S16 0.50, S16 1.70, S17 0.25, S17 0.50, S17 1.40, S17 2.00, S18 0.25, S18 0.50, S18 2.00, S19 0.25, S19 0.50, S19 1.50	**30-Oct-2024**	**06-Nov-2024**	13-Nov-2024	✓	**13-Nov-2024**	16-Dec-2024	✓
Soil Glass Jar - Unpreserved (EP075)							
S20 0.00, S20 0.50, S20 1.50, X1, X3, TB, TB	**31-Oct-2024**	**06-Nov-2024**	14-Nov-2024	✓	**13-Nov-2024**	16-Dec-2024	✓

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP075l: Organochlorine Pesticides							
Soil Glass Jar - Unpreserved (EP075)							
S10 0.50	**30-Oct-2024**	**05-Nov-2024**	13-Nov-2024	✓	**12-Nov-2024**	15-Dec-2024	✓
Soil Glass Jar - Unpreserved (EP075)							
S10 0.25, S10 1.50, S11 0.25, S11 0.50, S11 1.50, S12 0.25, S12 0.50, S12 1.30, S13 0.25, S13 0.50, S13 1.50, S14 0.00, S14 0.50, S14 1.80, S15 0.00, S15 0.50, S15 1.70	**30-Oct-2024**	**05-Nov-2024**	13-Nov-2024	✓	**13-Nov-2024**	15-Dec-2024	✓
Soil Glass Jar - Unpreserved (EP075)							
S16 0.00, S16 0.50, S16 1.70, S17 0.25, S17 0.50, S17 1.40, S17 2.00, S18 0.25, S18 0.50, S18 2.00, S19 0.25, S19 0.50, S19 1.50	**30-Oct-2024**	**06-Nov-2024**	13-Nov-2024	✓	**13-Nov-2024**	16-Dec-2024	✓
Soil Glass Jar - Unpreserved (EP075)							
S20 0.00, S20 0.50, S20 1.50, X1, X3, TB, TB	**31-Oct-2024**	**06-Nov-2024**	14-Nov-2024	✓	**13-Nov-2024**	16-Dec-2024	✓

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP075J: Organophosphorus Pesticides							
Soil Glass Jar - Unpreserved (EP075)							
S10 0.50	**30-Oct-2024**	**05-Nov-2024**	13-Nov-2024	✓	**12-Nov-2024**	15-Dec-2024	✓
Soil Glass Jar - Unpreserved (EP075)							
S10 0.25, S10 1.50, S11 0.25, S11 0.50, S11 1.50, S12 0.25, S12 0.50, S12 1.30, S13 0.25, S13 0.50, S13 1.50, S14 0.00, S14 0.50, S14 1.80, S15 0.00, S15 0.50, S15 1.70	**30-Oct-2024**	**05-Nov-2024**	13-Nov-2024	✓	**13-Nov-2024**	15-Dec-2024	✓
Soil Glass Jar - Unpreserved (EP075)							
S16 0.00, S16 0.50, S16 1.70, S17 0.25, S17 0.50, S17 1.40, S17 2.00, S18 0.25, S18 0.50, S18 2.00, S19 0.25, S19 0.50, S19 1.50	**30-Oct-2024**	**06-Nov-2024**	13-Nov-2024	✓	**13-Nov-2024**	16-Dec-2024	✓
Soil Glass Jar - Unpreserved (EP075)							
S20 0.00, S20 0.50, S20 1.50, X1, X3, TB, TB	**31-Oct-2024**	**06-Nov-2024**	14-Nov-2024	✓	**13-Nov-2024**	16-Dec-2024	✓

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP080/071: Total Petroleum Hydrocarbons							
Soil Glass Jar - Unpreserved (EP080)							
S10 0.25, S10 0.50, S10 1.50, S11 0.25, S11 0.50, S11 1.50, S12 0.25, S12 0.50, S12 1.30, S13 0.25, S13 0.50, S13 1.50, S14 0.00, S14 0.50, S14 1.80, S15 0.00, S15 0.50, S15 1.70	**30-Oct-2024**	**04-Nov-2024**	13-Nov-2024	✓	**05-Nov-2024**	13-Nov-2024	✓
Soil Glass Jar - Unpreserved (EP080)							
S16 0.00, S16 0.50, S16 1.70, S17 0.25, S17 0.50, S17 1.40, S17 2.00, S18 0.25, S18 0.50, S18 2.00, S19 0.25, S19 0.50, S19 1.50	**30-Oct-2024**	**05-Nov-2024**	13-Nov-2024	✓	**07-Nov-2024**	13-Nov-2024	✓
Soil Glass Jar - Unpreserved (EP071)							
S10 0.25, S10 0.50, S10 1.50, S11 0.25, S11 0.50, S11 1.50, S12 0.25, S12 0.50, S12 1.30, S13 0.25, S13 0.50, S13 1.50, S14 0.00, S14 0.50, S14 1.80, S15 0.00, S15 0.50, S15 1.70	**30-Oct-2024**	**05-Nov-2024**	13-Nov-2024	✓	**08-Nov-2024**	15-Dec-2024	✓
Soil Glass Jar - Unpreserved (EP071)							
S16 0.00, S16 0.50, S16 1.70, S17 0.25, S17 0.50, S17 1.40, S17 2.00, S18 0.25, S18 0.50, S18 2.00, S19 0.25, S19 0.50, S19 1.50	**30-Oct-2024**	**06-Nov-2024**	13-Nov-2024	✓	**08-Nov-2024**	16-Dec-2024	✓
Soil Glass Jar - Unpreserved (EP080)							
S20 0.00, S20 0.50, S20 1.50, X1, X3, TB, TB	**31-Oct-2024**	**05-Nov-2024**	14-Nov-2024	✓	**07-Nov-2024**	14-Nov-2024	✓
Soil Glass Jar - Unpreserved (EP071)							

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP080/071: Total Petroleum Hydrocarbons - Continued							
S20 0.00, S20 0.50, S20 1.50, X1, X3, TB, TB	**31-Oct-2024**	**06-Nov-2024**	14-Nov-2024	✓	**08-Nov-2024**	16-Dec-2024	✓

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions							
Soil Glass Jar - Unpreserved (EP080)							
S10 0.25, S10 0.50, S10 1.50, S11 0.25, S11 0.50, S11 1.50, S12 0.25, S12 0.50, S12 1.30, S13 0.25, S13 0.50, S13 1.50, S14 0.00, S14 0.50, S14 1.80, S15 0.00, S15 0.50, S15 1.70	**30-Oct-2024**	**04-Nov-2024**	13-Nov-2024	✓	**05-Nov-2024**	13-Nov-2024	✓
Soil Glass Jar - Unpreserved (EP080)							
S16 0.00, S16 0.50, S16 1.70, S17 0.25, S17 0.50, S17 1.40, S17 2.00, S18 0.25, S18 0.50, S18 2.00, S19 0.25, S19 0.50, S19 1.50	**30-Oct-2024**	**05-Nov-2024**	13-Nov-2024	✓	**07-Nov-2024**	13-Nov-2024	✓
Soil Glass Jar - Unpreserved (EP071)							
S10 0.25, S10 0.50, S10 1.50, S11 0.25, S11 0.50, S11 1.50, S12 0.25, S12 0.50, S12 1.30, S13 0.25, S13 0.50, S13 1.50, S14 0.00, S14 0.50, S14 1.80, S15 0.00, S15 0.50, S15 1.70	**30-Oct-2024**	**05-Nov-2024**	13-Nov-2024	✓	**08-Nov-2024**	15-Dec-2024	✓
Soil Glass Jar - Unpreserved (EP071)							
S16 0.00, S16 0.50, S16 1.70, S17 0.25, S17 0.50, S17 1.40, S17 2.00, S18 0.25, S18 0.50, S18 2.00, S19 0.25, S19 0.50, S19 1.50	**30-Oct-2024**	**06-Nov-2024**	13-Nov-2024	✓	**08-Nov-2024**	16-Dec-2024	✓
Soil Glass Jar - Unpreserved (EP080)							
S20 0.00, S20 0.50, S20 1.50, X1, X3, TB, TB	**31-Oct-2024**	**05-Nov-2024**	14-Nov-2024	✓	**07-Nov-2024**	14-Nov-2024	✓
Soil Glass Jar - Unpreserved (EP071)							

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions - Continued							
S20 0.00, S20 0.50, S20 1.50, X1, X3, TB, TB	**31-Oct-2024**	**06-Nov-2024**	14-Nov-2024	✓	**08-Nov-2024**	16-Dec-2024	✓
EP080: BTEXN							
Soil Glass Jar - Unpreserved (EP080)							
S10 0.25, S10 0.50, S10 1.50, S11 0.25, S11 0.50, S11 1.50, S12 0.25, S12 0.50, S12 1.30, S13 0.25, S13 0.50, S13 1.50, S14 0.00, S14 0.50, S14 1.80, S15 0.00, S15 0.50, S15 1.70	**30-Oct-2024**	**04-Nov-2024**	13-Nov-2024	✓	**05-Nov-2024**	13-Nov-2024	✓
Soil Glass Jar - Unpreserved (EP080)							
S16 0.00, S16 0.50, S16 1.70, S17 0.25, S17 0.50, S17 1.40, S17 2.00, S18 0.25, S18 0.50, S18 2.00, S19 0.25, S19 0.50, S19 1.50	**30-Oct-2024**	**05-Nov-2024**	13-Nov-2024	✓	**07-Nov-2024**	13-Nov-2024	✓
Soil Glass Jar - Unpreserved (EP080)							
S20 0.00, S20 0.50, S20 1.50, X1, X3, TB, TB	**31-Oct-2024**	**05-Nov-2024**	14-Nov-2024	✓	**07-Nov-2024**	14-Nov-2024	✓

Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EG020T: Total Metals by ICP-MS							
Clear HDPE (U-T ORC) - Unfiltered; Lab-acidified (EG020A-T)							
RB, FB	**30-Oct-2024**	**06-Nov-2024**	28-Apr-2025	✓	**06-Nov-2024**	28-Apr-2025	✓
Clear HDPE (U-T ORC) - Unfiltered; Lab-acidified (EG020A-T)							
RB, FB	**31-Oct-2024**	**06-Nov-2024**	29-Apr-2025	✓	**06-Nov-2024**	29-Apr-2025	✓
EG035T: Total Recoverable Mercury by FIMS							
Clear HDPE (U-T ORC) - Unfiltered; Lab-acidified (EG035T)							
RB, FB	**30-Oct-2024**	**----**	----	----	**05-Nov-2024**	27-Nov-2024	✓
Clear HDPE (U-T ORC) - Unfiltered; Lab-acidified (EG035T)							
RB, FB	**31-Oct-2024**	**----**	----	----	**05-Nov-2024**	28-Nov-2024	✓

Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP068A: Organochlorine Pesticides (OC)							
Amber Glass Bottle - Unpreserved (EP068) RB, FB	**30-Oct-2024**	**06-Nov-2024**	06-Nov-2024	✓	**09-Nov-2024**	16-Dec-2024	✓
Amber Glass Bottle - Unpreserved (EP068) RB, FB	**31-Oct-2024**	**06-Nov-2024**	07-Nov-2024	✓	**09-Nov-2024**	16-Dec-2024	✓
EP068B: Organophosphorus Pesticides (OP)							
Amber Glass Bottle - Unpreserved (EP068) RB, FB	**30-Oct-2024**	**06-Nov-2024**	06-Nov-2024	✓	**09-Nov-2024**	16-Dec-2024	✓
Amber Glass Bottle - Unpreserved (EP068) RB, FB	**31-Oct-2024**	**06-Nov-2024**	07-Nov-2024	✓	**09-Nov-2024**	16-Dec-2024	✓
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons							
Amber Glass Bottle - Unpreserved (EP075(SIM)) RB	**30-Oct-2024**	**06-Nov-2024**	06-Nov-2024	✓	**08-Nov-2024**	16-Dec-2024	✓
Amber Glass Bottle - Unpreserved (EP075(SIM)) FB	**30-Oct-2024**	**06-Nov-2024**	06-Nov-2024	✓	**09-Nov-2024**	16-Dec-2024	✓
Amber Glass Bottle - Unpreserved (EP075(SIM)) RB, FB	**31-Oct-2024**	**06-Nov-2024**	07-Nov-2024	✓	**09-Nov-2024**	16-Dec-2024	✓
EP075A: Phenolic Compounds							
Amber Glass Bottle - Unpreserved (EP075) RB, FB	**30-Oct-2024**	**06-Nov-2024**	06-Nov-2024	✓	**08-Nov-2024**	16-Dec-2024	✓
Amber Glass Bottle - Unpreserved (EP075) RB, FB	**31-Oct-2024**	**06-Nov-2024**	07-Nov-2024	✓	**08-Nov-2024**	16-Dec-2024	✓
EP075B: Polynuclear Aromatic Hydrocarbons							
Amber Glass Bottle - Unpreserved (EP075) RB, FB	**30-Oct-2024**	**06-Nov-2024**	06-Nov-2024	✓	**08-Nov-2024**	16-Dec-2024	✓
Amber Glass Bottle - Unpreserved (EP075) RB, FB	**31-Oct-2024**	**06-Nov-2024**	07-Nov-2024	✓	**08-Nov-2024**	16-Dec-2024	✓
EP075C: Phthalate Esters							
Amber Glass Bottle - Unpreserved (EP075) RB, FB	**30-Oct-2024**	**06-Nov-2024**	06-Nov-2024	✓	**08-Nov-2024**	16-Dec-2024	✓
Amber Glass Bottle - Unpreserved (EP075) RB, FB	**31-Oct-2024**	**06-Nov-2024**	07-Nov-2024	✓	**08-Nov-2024**	16-Dec-2024	✓
EP075D: Nitrosamines							
Amber Glass Bottle - Unpreserved (EP075) RB, FB	**30-Oct-2024**	**06-Nov-2024**	06-Nov-2024	✓	**08-Nov-2024**	16-Dec-2024	✓
Amber Glass Bottle - Unpreserved (EP075) RB, FB	**31-Oct-2024**	**06-Nov-2024**	07-Nov-2024	✓	**08-Nov-2024**	16-Dec-2024	✓
EP075E: Nitroaromatics and Ketones							
Amber Glass Bottle - Unpreserved (EP075) RB, FB	**30-Oct-2024**	**06-Nov-2024**	06-Nov-2024	✓	**08-Nov-2024**	16-Dec-2024	✓
Amber Glass Bottle - Unpreserved (EP075) RB, FB	**31-Oct-2024**	**06-Nov-2024**	07-Nov-2024	✓	**08-Nov-2024**	16-Dec-2024	✓

Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP075F: Haloethers							
Amber Glass Bottle - Unpreserved (EP075) RB, FB	**30-Oct-2024**	**06-Nov-2024**	06-Nov-2024	✓	**08-Nov-2024**	16-Dec-2024	✓
Amber Glass Bottle - Unpreserved (EP075) RB, FB	**31-Oct-2024**	**06-Nov-2024**	07-Nov-2024	✓	**08-Nov-2024**	16-Dec-2024	✓
EP075G: Chlorinated Hydrocarbons							
Amber Glass Bottle - Unpreserved (EP075) RB, FB	**30-Oct-2024**	**06-Nov-2024**	06-Nov-2024	✓	**08-Nov-2024**	16-Dec-2024	✓
Amber Glass Bottle - Unpreserved (EP075) RB, FB	**31-Oct-2024**	**06-Nov-2024**	07-Nov-2024	✓	**08-Nov-2024**	16-Dec-2024	✓
EP075H: Anilines and Benzidines							
Amber Glass Bottle - Unpreserved (EP075) RB, FB	**30-Oct-2024**	**06-Nov-2024**	06-Nov-2024	✓	**08-Nov-2024**	16-Dec-2024	✓
Amber Glass Bottle - Unpreserved (EP075) RB, FB	**31-Oct-2024**	**06-Nov-2024**	07-Nov-2024	✓	**08-Nov-2024**	16-Dec-2024	✓
EP075I: Organochlorine Pesticides							
Amber Glass Bottle - Unpreserved (EP075) RB, FB	**30-Oct-2024**	**06-Nov-2024**	06-Nov-2024	✓	**08-Nov-2024**	16-Dec-2024	✓
Amber Glass Bottle - Unpreserved (EP075) RB, FB	**31-Oct-2024**	**06-Nov-2024**	07-Nov-2024	✓	**08-Nov-2024**	16-Dec-2024	✓
EP075J: Organophosphorus Pesticides							
Amber Glass Bottle - Unpreserved (EP075) RB, FB	**30-Oct-2024**	**06-Nov-2024**	06-Nov-2024	✓	**08-Nov-2024**	16-Dec-2024	✓
Amber Glass Bottle - Unpreserved (EP075) RB, FB	**31-Oct-2024**	**06-Nov-2024**	07-Nov-2024	✓	**08-Nov-2024**	16-Dec-2024	✓
EP080/071: Total Petroleum Hydrocarbons							
Amber Glass Bottle - Unpreserved (EP071) RB, FB	**30-Oct-2024**	**06-Nov-2024**	06-Nov-2024	✓	**07-Nov-2024**	16-Dec-2024	✓
Amber Glass Bottle - Unpreserved (EP071) RB, FB	**31-Oct-2024**	**06-Nov-2024**	07-Nov-2024	✓	**07-Nov-2024**	16-Dec-2024	✓
Amber VOC Vial - Sulfuric Acid (EP080) RB, FB	**30-Oct-2024**	**04-Nov-2024**	13-Nov-2024	✓	**05-Nov-2024**	13-Nov-2024	✓
Amber VOC Vial - Sulfuric Acid (EP080) RB, FB	**31-Oct-2024**	**04-Nov-2024**	14-Nov-2024	✓	**05-Nov-2024**	14-Nov-2024	✓
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions							
Amber Glass Bottle - Unpreserved (EP071) RB, FB	**30-Oct-2024**	**06-Nov-2024**	06-Nov-2024	✓	**07-Nov-2024**	16-Dec-2024	✓
Amber Glass Bottle - Unpreserved (EP071) RB, FB	**31-Oct-2024**	**06-Nov-2024**	07-Nov-2024	✓	**07-Nov-2024**	16-Dec-2024	✓
Amber VOC Vial - Sulfuric Acid (EP080) RB, FB	**30-Oct-2024**	**04-Nov-2024**	13-Nov-2024	✓	**05-Nov-2024**	13-Nov-2024	✓
Amber VOC Vial - Sulfuric Acid (EP080) RB, FB	**31-Oct-2024**	**04-Nov-2024**	14-Nov-2024	✓	**05-Nov-2024**	14-Nov-2024	✓

Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP080: BTEXN							
Amber VOC Vial - Sulfuric Acid (EP080) RB, FB	**30-Oct-2024**	**04-Nov-2024**	13-Nov-2024	✓	**05-Nov-2024**	13-Nov-2024	✓
Amber VOC Vial - Sulfuric Acid (EP080) RB, FB	**31-Oct-2024**	**04-Nov-2024**	14-Nov-2024	✓	**05-Nov-2024**	14-Nov-2024	✓

Quality Control Parameter Frequency Compliance

The following report summarises the frequency of laboratory QC samples analysed within the analytical lot(s) in which the submitted sample(s) was(were) processed. Actual rate should be greater than or equal to the expected rate. A listing of breaches is provided in the Summary of Outliers.

Matrix: **SOIL**

Evaluation: × = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	*Method*	*QC*	*Regular*	***Actual***	***Expected***	*Evaluation*	
Laboratory Duplicates (DUP)							
Moisture Content	EA055	6	51	**11.76**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (SIM)	EP075(SIM)	4	38	**10.53**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	4	38	**10.53**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Semivolatile Organic Compounds	EP075	4	38	**10.53**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	4	38	**10.53**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	4	38	**10.53**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	4	40	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	4	40	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
PAH/Phenols (SIM)	EP075(SIM)	2	38	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	2	38	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Semivolatile Organic Compounds	EP075	2	38	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	2	38	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	2	38	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	2	40	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	2	40	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
PAH/Phenols (SIM)	EP075(SIM)	2	38	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	2	38	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Semivolatile Organic Compounds	EP075	2	38	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	2	38	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	2	38	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	2	40	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	2	40	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
PAH/Phenols (SIM)	EP075(SIM)	2	38	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	2	38	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Semivolatile Organic Compounds	EP075	2	38	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	2	38	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	2	38	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	2	40	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	2	40	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard

Matrix: **WATER**

Evaluation: × = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	*Method*	*QC*	*Regular*	***Actual***	***Expected***	*Evaluation*	

Matrix: **WATER**

Evaluation: × = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	*Method*	*QC*	*Regular*	***Actual***	***Expected***	*Evaluation*	
Laboratory Duplicates (DUP)							
PAH/Phenols (GC/MS - SIM)	EP075(SIM)	2	11	**18.18**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	2	11	**18.18**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Semivolatile Organic Compounds	EP075	1	4	**25.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	2	14	**14.29**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-MS - Suite A	EG020A-T	2	13	**15.38**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
PAH/Phenols (GC/MS - SIM)	EP075(SIM)	1	11	**9.09**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	1	11	**9.09**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Semivolatile Organic Compounds	EP075	1	4	**25.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	14	**7.14**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-MS - Suite A	EG020A-T	1	13	**7.69**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
PAH/Phenols (GC/MS - SIM)	EP075(SIM)	1	11	**9.09**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	1	11	**9.09**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Semivolatile Organic Compounds	EP075	1	4	**25.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	14	**7.14**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-MS - Suite A	EG020A-T	1	13	**7.69**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
PAH/Phenols (GC/MS - SIM)	EP075(SIM)	0	11	**0.00**	**5.00**	×	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	0	11	**0.00**	**5.00**	×	NEPM 2013 B3 & ALS QC Standard
Semivolatile Organic Compounds	EP075	0	4	**0.00**	**5.00**	×	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	14	**7.14**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-MS - Suite A	EG020A-T	1	13	**7.69**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	0	20	**0.00**	**5.00**	×	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard

Brief Method Summaries

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

Analytical Methods	Method	Matrix	Method Descriptions
Moisture Content	EA055	SOIL	In house: A gravimetric procedure based on weight loss over a 12 hour drying period at 105-110 degrees C. This method is compliant with NEPM Schedule B(3).
Total Metals by ICP-AES	EG005T	SOIL	In house: Referenced to APHA 3120; USEPA SW 846 - 6010. Metals are determined following an appropriate acid digestion of the soil. The ICPAES technique ionises samples in a plasma, emitting a characteristic spectrum based on metals present. Intensities at selected wavelengths are compared against those of matrix matched standards. This method is compliant with NEPM Schedule B(3)
Total Mercury by FIMS	EG035T	SOIL	In house: Referenced to APHA 3112 Hg - B (Flow-injection (SnCl2) (Cold Vapour generation) AAS) FIM-AAS is an automated flameless atomic absorption technique. Mercury in solids are determined following an appropriate acid digestion. Ionic mercury is reduced online to atomic mercury vapour by SnCl2 which is then purged into a heated quartz cell. Quantification is by comparing absorbance against a calibration curve. This method is compliant with NEPM Schedule B(3)
Pesticides by GCMS	EP068	SOIL	In house: Referenced to USEPA SW 846 - 8270 Extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This technique is compliant with NEPM Schedule B(3).
TRH - Semivolatile Fraction	EP071	SOIL	In house: Referenced to USEPA SW 846 - 8015 Sample extracts are analysed by Capillary GC/FID and quantified against alkane standards over the range C10 - C40. Compliant with NEPM Schedule B(3).
Semivolatile Organic Compounds	EP075	SOIL	In house: Referenced to USEPA SW 846 - 8270 Extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This technique is compliant with NEPM Schedule B(3).
PAH/Phenols (SIM)	EP075(SIM)	SOIL	In house: Referenced to USEPA SW 846 - 8270. Extracts are analysed by Capillary GC/MS in Selective Ion Mode (SIM) and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3)
TRH Volatiles/BTEX	EP080	SOIL	In house: Referenced to USEPA SW 846 - 8260. Extracts are analysed by Purge and Trap, Capillary GC/MS. Quantification is by comparison against an established 5 point calibration curve. Compliant with NEPM Schedule B(3) amended.
Total Metals by ICP-MS - Suite A	EG020A-T	WATER	In house: Referenced to APHA 3125; USEPA SW846 - 6020, ALS QWI-EN/EG020. The ICPMS technique utilizes a highly efficient argon plasma to ionize selected elements. Ions are then passed into a high vacuum mass spectrometer, which separates the analytes based on their distinct mass to charge ratios prior to their measurement by a discrete dynode ion detector.
Total Mercury by FIMS	EG035T	WATER	In house: Referenced to APHA 3112 Hg - B (Flow-injection (SnCl2)(Cold Vapour generation) AAS) FIM-AAS is an automated flameless atomic absorption technique. A bromate/bromide reagent is used to oxidise any organic mercury compounds in the unfiltered sample. The ionic mercury is reduced online to atomic mercury vapour by SnCl2 which is then purged into a heated quartz cell. Quantification is by comparing absorbance against a calibration curve. This method is compliant with NEPM Schedule B(3).
Pesticides by GCMS	EP068	WATER	In house: Referenced to USEPA SW 846 - 8270 Sample extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3)

Analytical Methods	Method	Matrix	Method Descriptions
TRH - Semivolatile Fraction	EP071	WATER	In house: Referenced to USEPA SW 846 - 8015 The sample extract is analysed by Capillary GC/FID and quantification is by comparison against an established 5 point calibration curve of n-Alkane standards. This method is compliant with the QC requirements of NEPM Schedule B(3)
Semivolatile Organic Compounds	EP075	WATER	In house: Referenced to USEPA SW 846 - 8270 Sample extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3)
PAH/Phenols (GC/MS - SIM)	EP075(SIM)	WATER	In house: Referenced to USEPA SW 846 - 8270 Sample extracts are analysed by Capillary GC/MS in SIM Mode and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3)
TRH Volatiles/BTEX	EP080	WATER	In house: Referenced to USEPA SW 846 - 8260 Water samples are directly purged prior to analysis by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. Alternatively, a sample is equilibrated in a headspace vial and a portion of the headspace determined by GCMS analysis. This method is compliant with the QC requirements of NEPM Schedule B(3)

Preparation Methods	Method	Matrix	Method Descriptions
Hot Block Digest for metals in soils sediments and sludges	EN69	SOIL	In house: Referenced to USEPA 200.2. Hot Block Acid Digestion 1.0g of sample is heated with Nitric and Hydrochloric acids, then cooled. Peroxide is added and samples heated and cooled again before being filtered and bulked to volume for analysis. Digest is appropriate for determination of selected metals in sludge, sediments, and soils. This method is compliant with NEPM Schedule B(3).
Methanolic Extraction of Soils for Purge and Trap	ORG16	SOIL	In house: Referenced to USEPA SW 846 - 5030A. 5g of solid is shaken with surrogate and 10mL methanol prior to analysis by Purge and Trap - GC/MS.
Tumbler Extraction of Solids	ORG17	SOIL	In house: Mechanical agitation (tumbler). 10g of sample, Na2SO4 and surrogate are extracted with 30mL 1:1 DCM/Acetone by end over end tumble. The solvent is decanted, dehydrated and concentrated (by KD) to the desired volume for analysis.
Digestion for Total Recoverable Metals	EN25	WATER	In house: Referenced to USEPA SW846-3005. Method 3005 is a Nitric/Hydrochloric acid digestion procedure used to prepare surface and ground water samples for analysis by ICPAES or ICPMS. This method is compliant with NEPM Schedule B(3)
Separatory Funnel Extraction of Liquids	ORG14	WATER	In house: Referenced to USEPA SW 846 - 3510 100 mL to 1L of sample is transferred to a separatory funnel and serially extracted three times using DCM for each extract. The resultant extracts are combined, dehydrated and concentrated for analysis. This method is compliant with NEPM Schedule B(3) . ALS default excludes sediment which may be resident in the container.
Volatiles Water Preparation	ORG16-W	WATER	A 5 mL aliquot or 5 mL of a diluted sample is added to a 40 mL VOC vial for purging.

Page 1 of 1

Project Reference	147-BR
WSW Reference	20240730_147 Burswood Road Additional Investigations
Site	147 Buswood Rd
Sample Type	Soil/Water
Scientist(s)	S.Mueller A. Scanlan
Results:	sam@westsoilandwater.com.au audrey@westsoilandwater.com.au brad@westsoilandwater.com.au
Invoice:	sam@westsoilandwater.com.au admin@westsoilandwater.com.au

WEST SOIL & WATER

p: 0424021264
e: sam@westsoilandwater.com.au

w: www.westsoilandwater.com.au

SAMPLE ID.	DATE	TIME	PRESERVATION		ANALYSIS SUITES											COMMENTS	LAB ID
			Ice	None	TRH	BTEXN	PAH	Suite of Eight Heavy Metals (As, Cd, Cr, Cu, Hg, Ni, Pb, Zn)	OC/OP Pesticides	SVOCs					Total # of Containers		
SOILS																	
X2	**30/10/2024**	**NA**	X		X	X	X	X	X	X					1		
X4	**30/10/2024**	**NA**	X		X	X	X	X	X	X					1		
X6	**30/10/2024**	**NA**	X												1	Please hold sample	
															3	Total # of Eskies:	1

Total # of Containers:

Relinquished by	S.Mueller
Organisation	WS&W
Date	31/10/2024
Time	1230
Signature	

Received by	Michaela B
Organisation	
Date	31/10/24
Time	1330
Condition upon reciept	28°C

Notes:

Quote #:

#1155566

www.eurofins.com.au EnviroSales@eurofins.com

Eurofins ARL Pty Ltd ABN: 91 05 0159 898

Perth	Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
46-48 Banksia Road	6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Welshpool	Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
WA 6106	VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
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NATA# 2377	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 2370 & 2554	Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079

Eurofins Environment Testing Australia Pty Ltd ABN: 50 005 085 521

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35 O'Rorke Road	Unit C1/4 Pacific Rise,	43 Detroit Drive	1277 Cameron Road,
Penrose,	Mount Wellington,	Rolleston,	Gate Pa,
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Sample Receipt Advice

Company name:	West Soil and Water
Contact name:	Sam Muller
Project name:	20240730_147 BURSWOOD ROAD ADDITIONAL INVESTIGATIONS
Project ID:	147-BR
Turnaround time:	5 Day
Date/Time received	Oct 31, 2024 1:30 PM
Eurofins reference	1155566

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
✓	Attempt to chill was evident.
✗	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
N/A	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:

Celeste Chinnery on phone : or by email: celestechinnery@eurofins.com

Results will be delivered electronically via email to Sam Muller - sam@westsoilandwater.com.au.

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West Soil and Water
3/194 Holbeck Street
Doubleview
WA 6018

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Accreditation Number 1261
Site Number 1254

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: **Sam Muller**

Report **1155566-S**
Project name 20240730_147 BURSWOOD ROAD ADDITIONAL INVESTIGATIONS
Project ID 147-BR
Received Date Oct 31, 2024

Client Sample ID			**X2**	**X4**
Sample Matrix			**Soil**	**Soil**
Eurofins Sample No.			**L24-No0001010**	**L24-No0001011**
Date Sampled			**Oct 30, 2024**	**Oct 30, 2024**
Test/Reference	LOR	Unit		
Total Recoverable Hydrocarbons				
TRH C6-C9	20	mg/kg	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	62
TRH C29-C36	50	mg/kg	< 50	73
TRH C10-C36 (Total)	50	mg/kg	< 50	135
TRH C6-C10	20	mg/kg	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)*[N01]	50	mg/kg	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	110
TRH >C34-C40	100	mg/kg	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	110
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
BTEX				
4-Bromofluorobenzene (surr.)	1	%	87	129
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5
Polycyclic Aromatic Hydrocarbons				
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	0.7
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	1.0
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.3
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	0.6
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5

Client Sample ID			X2	X4
Sample Matrix			Soil	Soil
Eurofins Sample No.			L24-No0001010	L24-No0001011
Date Sampled			Oct 30, 2024	Oct 30, 2024
Test/Reference	LOR	Unit		
Polycyclic Aromatic Hydrocarbons				
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	0.6
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	0.7
Fluorene	0.5	mg/kg	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	0.8
Total PAH*	0.5	mg/kg	< 0.5	3.2
2-Fluorobiphenyl (surr.)	1	%	102	102
p-Terphenyl-d14 (surr.)	1	%	91	81
Semivolatile Organics				
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.5	< 0.5
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	0.7
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	3.2
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	1.0
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.3
2-Methyl-4.6-dinitrophenol	5	mg/kg	< 5	< 5
1-Chloronaphthalene	0.5	mg/kg	< 0.5	< 0.5
1-Naphthylamine	0.5	mg/kg	< 0.5	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5
1.2.3-Trichlorobenzene	0.5	mg/kg	< 0.5	< 0.5
1.2.3.4-Tetrachlorobenzene	0.5	mg/kg	< 0.5	< 0.5
1.2.3.5-Tetrachlorobenzene	0.5	mg/kg	< 0.5	< 0.5
1.2.4-Trichlorobenzene	0.5	mg/kg	< 0.5	< 0.5
1.2.4.5-Tetrachlorobenzene	0.5	mg/kg	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5
1.3.5-Trichlorobenzene	0.5	mg/kg	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5
2-Chloronaphthalene	0.5	mg/kg	< 0.5	< 0.5
2-Chlorophenol	0.5	mg/kg	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	102	102
2-Methylnaphthalene	0.5	mg/kg	< 0.5	< 0.5
2-Methylphenol (o-Cresol)	0.2	mg/kg	< 0.2	< 0.2
2-Naphthylamine	0.5	mg/kg	< 0.5	< 0.5
2-Nitroaniline	0.5	mg/kg	< 0.5	< 0.5
2-Nitrophenol	1.0	mg/kg	< 1	< 1
2-Picoline	0.5	mg/kg	< 0.5	< 0.5
2.3.4.6-Tetrachlorophenol	5	mg/kg	< 5	< 5
2.4-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5
2.4-Dimethylphenol	0.5	mg/kg	< 0.5	< 0.5
2.4-Dinitrophenol	5	mg/kg	< 5	< 5
2.4-Dinitrotoluene	0.5	mg/kg	< 0.5	< 0.5
2.4.5-Trichlorophenol	1	mg/kg	< 1	< 1
2.4.6-Tribromophenol (surr.)	1	%	41	30
2.4.6-Trichlorophenol	1	mg/kg	< 1	< 1
2.6-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5

Client Sample ID			X2	X4
Sample Matrix			Soil	Soil
Eurofins Sample No.			L24-No0001010	L24-No0001011
Date Sampled			Oct 30, 2024	Oct 30, 2024
Test/Reference	LOR	Unit		
Semivolatile Organics				
2.6-Dinitrotoluene	0.5	mg/kg	< 0.5	< 0.5
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	< 0.4	< 0.4
3-Methylcholanthrene	0.5	mg/kg	< 0.5	< 0.5
3.3'-Dichlorobenzidine	0.5	mg/kg	< 0.5	< 0.5
4-Aminobiphenyl	0.5	mg/kg	< 0.5	< 0.5
4-Bromophenyl phenyl ether	0.5	mg/kg	< 0.5	< 0.5
4-Chloro-3-methylphenol	1	mg/kg	< 1	< 1
4-Chlorophenyl phenyl ether	0.5	mg/kg	< 0.5	< 0.5
4-Nitrophenol	5	mg/kg	< 5	< 5
4.4'-DDD	0.5	mg/kg	< 0.5	< 0.5
4.4'-DDE	0.5	mg/kg	< 0.5	< 0.5
4.4'-DDT	0.5	mg/kg	< 0.5	< 0.5
7.12-Dimethylbenz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5
a-HCH	0.5	mg/kg	< 0.5	< 0.5
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5
Acetophenone	0.5	mg/kg	< 0.5	< 0.5
Aldrin	0.5	mg/kg	< 0.5	< 0.5
Aniline	0.5	mg/kg	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5
b-HCH	0.5	mg/kg	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	0.6
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5
Benzyl chloride	0.5	mg/kg	< 0.5	< 0.5
Bis(2-chloroethoxy)methane	0.5	mg/kg	< 0.5	< 0.5
Bis(2-chloroisopropyl)ether	0.5	mg/kg	< 0.5	< 0.5
Bis(2-ethylhexyl)phthalate	0.5	mg/kg	< 0.5	< 0.5
Butyl benzyl phthalate	0.5	mg/kg	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	0.6
d-HCH	0.5	mg/kg	< 0.5	< 0.5
Di-n-butyl phthalate	0.5	mg/kg	< 0.5	< 0.5
Di-n-octyl phthalate	0.5	mg/kg	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5
Dibenz(a.j)acridine	0.5	mg/kg	< 0.5	< 0.5
Dibenzofuran	0.5	mg/kg	< 0.5	< 0.5
Dieldrin	0.5	mg/kg	< 0.5	< 0.5
Diethyl phthalate	0.5	mg/kg	< 0.5	< 0.5
Dimethyl phthalate	0.5	mg/kg	< 0.5	< 0.5
Dimethylaminoazobenzene	0.5	mg/kg	< 0.5	< 0.5
Diphenylamine	0.5	mg/kg	< 0.5	< 0.5
Endosulfan I	0.5	mg/kg	< 0.5	< 0.5
Endosulfan II	0.5	mg/kg	< 0.5	< 0.5
Endosulfan sulphate	0.5	mg/kg	< 0.5	< 0.5
Endrin	0.5	mg/kg	< 0.5	< 0.5
Endrin aldehyde	0.5	mg/kg	< 0.5	< 0.5
Endrin ketone	0.5	mg/kg	< 0.5	< 0.5

Client Sample ID			X2	X4
Sample Matrix			Soil	Soil
Eurofins Sample No.			L24-No0001010	L24-No0001011
Date Sampled			Oct 30, 2024	Oct 30, 2024
Test/Reference	LOR	Unit		
Semivolatile Organics				
Fluoranthene	0.5	mg/kg	< 0.5	0.7
Fluorene	0.5	mg/kg	< 0.5	< 0.5
g-HCH (Lindane)	0.5	mg/kg	< 0.5	< 0.5
Heptachlor	0.5	mg/kg	< 0.5	< 0.5
Heptachlor epoxide	0.5	mg/kg	< 0.5	< 0.5
Hexachlorobenzene	0.5	mg/kg	< 0.5	< 0.5
Hexachlorobutadiene	0.5	mg/kg	< 0.5	< 0.5
Hexachlorocyclopentadiene	0.5	mg/kg	< 0.5	< 0.5
Hexachloroethane	0.5	mg/kg	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5
Methoxychlor	0.5	mg/kg	< 0.5	< 0.5
N-Nitrosodibutylamine	0.5	mg/kg	< 0.5	< 0.5
N-Nitrosodipropylamine	0.5	mg/kg	< 0.5	< 0.5
N-Nitrosopiperidine	0.5	mg/kg	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5
Nitrobenzene	0.5	mg/kg	< 0.5	< 0.5
Nitrobenzene-d5 (surr.)	1	%	88	95
Pentachlorobenzene	0.5	mg/kg	< 0.5	< 0.5
Pentachloronitrobenzene	0.5	mg/kg	< 0.5	< 0.5
Pentachlorophenol	1	mg/kg	< 1	< 1
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5
Phenol	0.5	mg/kg	< 0.5	< 0.5
Phenol-d6 (surr.)	1	%	64	55
Pronamide	0.5	mg/kg	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	0.8
Trifluralin	0.5	mg/kg	< 0.5	< 0.5
OCOP in Soil				
Aldrin	0.01	mg/kg	< 0.01	< 0.01
alpha-BHC (HCH)	0.01	mg/kg	< 0.01	< 0.01
beta-BHC (HCH)	0.01	mg/kg	< 0.01	< 0.01
delta-BHC (HCH)	0.01	mg/kg	< 0.01	< 0.01
Bifenthrin	0.2	mg/kg	< 0.2	< 0.2
Bromophos Ethyl	0.05	mg/kg	< 0.05	< 0.05
Chlordane	0.01	mg/kg	< 0.01	< 0.01
Chlorpyrifos	0.02	mg/kg	< 0.02	< 0.02
Dieldrin	0.01	mg/kg	< 0.01	< 0.01
p.p-DDD	0.01	mg/kg	< 0.01	< 0.01
p.p-DDE	0.01	mg/kg	< 0.01	< 0.01
p.p-DDT	0.01	mg/kg	< 0.01	< 0.01
o.p-DDT	0.01	mg/kg	< 0.01	< 0.01
Endosulfan I	0.01	mg/kg	< 0.01	< 0.01
Endosulfan II	0.01	mg/kg	< 0.01	< 0.01
Endosulfan Sulfate	0.01	mg/kg	< 0.01	< 0.01
Endrin	0.01	mg/kg	< 0.01	< 0.01
Heptachlor	0.01	mg/kg	< 0.01	< 0.01
Heptachlor Epoxide	0.01	mg/kg	< 0.01	< 0.01
Hexachlorobenzene (HCB)	0.01	mg/kg	< 0.01	< 0.01
Lindane	0.01	mg/kg	< 0.01	< 0.01
Methoxychlor	0.2	mg/kg	< 0.2	< 0.2

Client Sample ID			X2	X4
Sample Matrix			Soil	Soil
Eurofins Sample No.			L24-No0001010	L24-No0001011
Date Sampled			Oct 30, 2024	Oct 30, 2024
Test/Reference	LOR	Unit		
OCOP in Soil				
Oxychlordane	0.01	mg/kg	< 0.01	< 0.01
Diazinon	0.2	mg/kg	< 0.2	< 0.2
Ethion	0.05	mg/kg	< 0.05	< 0.05
Fenitrothion	0.1	mg/kg	< 0.1	< 0.1
Malathion	0.1	mg/kg	< 0.1	< 0.1
Trifluralin	0.2	mg/kg	< 0.2	< 0.2
Heavy Metals				
Arsenic	2	mg/kg	< 2	< 2
Cadmium	0.1	mg/kg	< 0.1	< 0.1
Chromium	1	mg/kg	< 1	2.2
Copper	1	mg/kg	3.7	4.8
Lead	1	mg/kg	13	15
Mercury	0.02	mg/kg	0.02	0.03
Nickel	1	mg/kg	< 1	2.7
Zinc	5	mg/kg	32	25
Sample Properties				
% Moisture	1	%	3.2	2.5

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	Welshpool	Nov 05, 2024	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Welshpool	Nov 05, 2024	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Welshpool	Nov 05, 2024	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Welshpool	Nov 05, 2024	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Polycyclic Aromatic Hydrocarbons	Melbourne	Nov 07, 2024	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Semivolatile Organics	Melbourne	Nov 12, 2024	14 Days
- Method: USEPA SW 846 8270			
OCOP in Soil	Welshpool	Nov 05, 2024	14 Days
- Method: ARL003 - OCOP and PCB in Soil			
Metals M8	Welshpool	Nov 05, 2024	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
% Moisture	Welshpool	Nov 01, 2024	14 Days
- Method: ARL135 Moisture in Solids			

eurofins

web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
WA 6106
+61 8 6253 4444
NATA# 2377
Site# 2370 & 2554

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South
VIC 3175
+61 3 8564 5000
NATA# 1261
Site# 1254

Geelong
19/8 Lewalan Street
Grovedale
VIC 3216
+61 3 8564 5000
NATA# 1261
Site# 25403

Sydney
179 Magowar Road
Girraween
NSW 2145
+61 2 9900 8400
NATA# 1261
Site# 18217

Canberra
Unit 1,2 Dacre Street
Mitchell
ACT 2911
+61 2 6113 8091
NATA# 1261
Site# 25466

Brisbane
1/21 Smallwood Place
Murarrie
QLD 4172
T: +61 7 3902 4600
NATA# 1261
Site# 20794 & 2780

Newcastle
1/2 Frost Drive
Mayfield West
NSW 2304
+61 2 4968 8448
NATA# 1261
Site# 25079

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
+64 9 526 4551
IANZ# 1327

Auckland (Focus)
Unit C1/4 Pacific Rise,
Mount Wellington,
Auckland 1061
+64 9 525 0568
IANZ# 1308

Christchurch
43 Detroit Drive
Rolleston,
Christchurch 7675
+64 3 343 5201
IANZ# 1290

Tauranga
1277 Cameron Road,
Gate Pa,
Tauranga 3112
+64 9 525 0568
IANZ# 1402

Company Name: West Soil and Water
Address: 3/194 Holbeck Street
Doubleview
WA 6018

Order No.:
Report #: 1155566
Phone: 0424 021 264
Fax:

Received: Oct 31, 2024 1:30 PM
Due: Nov 7, 2024
Priority: 5 Day
Contact Name: Sam Muller

Project Name: 20240730_147 BURSWOOD ROAD ADDITIONAL INVESTIGATIONS
Project ID: 147-BR

Eurofins Analytical Services Manager : Celeste Chinnery

Sample Detail						HOLD	Metals M8	Moisture Set	Semivolatile Organics	Eurofins Suite B4	OCOP in Soil
Perth Laboratory - NATA # 2377 Site # 2370 & 2554						X	X	X		X	X
Melbourne Laboratory - NATA # 1261 Site # 1254									X	X	
External Laboratory											
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**						
1	X2	Oct 30, 2024		Soil	L24-No0001010		X	X	X	X	X
2	X4	Oct 30, 2024		Soil	L24-No0001011		X	X	X	X	X
3	X6	Oct 30, 2024		Soil	L24-No0001012	X					
Test Counts						1	2	2	2	2	2

eurofins | Environment Testing

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follow guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013. They are included in this QC report where applicable. Additional QC data may be available on request.
2. Unless otherwise stated, all soil/sediment/solid results are reported on a dry weight basis.
3. Unless otherwise stated, all biota/food results are reported on a wet weight basis on the edible portion.
4. For CEC results where the sample's origin is unknown or environmentally contaminated, the results should be used advisedly.
5. Actual LORs are matrix dependent. Quoted LORs may be raised where sample extracts are diluted due to interferences.
6. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds where annotated.
7. SVOC analysis on waters is performed on homogenised, unfiltered samples unless noted otherwise.
8. Samples were analysed on an 'as received' basis.
9. Information identified in this report with **blue** colour indicates data provided by customers that may have an impact on the results.
10. This report replaces any interim results previously issued.

Holding Times

Please refer to the '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 before sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and despite any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the sampling date; therefore, compliance with these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether, the holding time is seven days; however, for all other VOCs, such as BTEX or C6-10 TRH, the holding time is 14 days.

Units

mg/kg: milligrams per kilogram
mg/L: milligrams per litre
ppm: parts per million
µg/L: micrograms per litre
ppb: parts per billion
%: Percentage
org/100 mL: Organisms per 100 millilitres
NTU: Nephelometric Turbidity Units
MPN/100 mL: Most Probable Number of organisms per 100 millilitres
CFU: Colony Forming Unit
Colour: Pt-Co Units (CU)

Terms

APHA	American Public Health Association
CEC	Cation Exchange Capacity
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 moisture has been determined on a solid sample, the result is expressed on a dry weight 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 represents 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 similar compound to the analyte target is reported as percentage recovery. See below for acceptance criteria.
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 6.0
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 only be used as a guide 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. SVOCs recoveries 20 – 150%, VOC recoveries 50 – 150%

PFAS field samples containing surrogate recoveries above the QC limit designated in QSM 6.0, where no positive PFAS results have been reported or reviewed, and no data was affected.

QC Data General Comments

1. Where a result is reported as 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 are 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							
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	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
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	
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							
Semivolatile Organics							
2-Methyl-4.6-dinitrophenol	mg/kg	< 5			5	Pass	
1-Chloronaphthalene	mg/kg	< 0.5			0.5	Pass	
1-Naphthylamine	mg/kg	< 0.5			0.5	Pass	
1.2-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.2.3-Trichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.2.3.4-Tetrachlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.2.3.5-Tetrachlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.2.4-Trichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.2.4.5-Tetrachlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.3.5-Trichlorobenzene	mg/kg	< 0.5			0.5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
1.4-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
2-Chloronaphthalene	mg/kg	< 0.5			0.5	Pass	
2-Chlorophenol	mg/kg	< 0.5			0.5	Pass	
2-Methylnaphthalene	mg/kg	< 0.5			0.5	Pass	
2-Methylphenol (o-Cresol)	mg/kg	< 0.2			0.2	Pass	
2-Naphthylamine	mg/kg	< 0.5			0.5	Pass	
2-Nitroaniline	mg/kg	< 0.5			0.5	Pass	
2-Nitrophenol	mg/kg	< 1			1.0	Pass	
2-Picoline	mg/kg	< 0.5			0.5	Pass	
2.3.4.6-Tetrachlorophenol	mg/kg	< 5			5	Pass	
2.4-Dichlorophenol	mg/kg	< 0.5			0.5	Pass	
2.4-Dimethylphenol	mg/kg	< 0.5			0.5	Pass	
2.4-Dinitrophenol	mg/kg	< 5			5	Pass	
2.4-Dinitrotoluene	mg/kg	< 0.5			0.5	Pass	
2.4.5-Trichlorophenol	mg/kg	< 1			1	Pass	
2.4.6-Trichlorophenol	mg/kg	< 1			1	Pass	
2.6-Dichlorophenol	mg/kg	< 0.5			0.5	Pass	
2.6-Dinitrotoluene	mg/kg	< 0.5			0.5	Pass	
3&4-Methylphenol (m&p-Cresol)	mg/kg	< 0.4			0.4	Pass	
3-Methylcholanthrene	mg/kg	< 0.5			0.5	Pass	
3.3'-Dichlorobenzidine	mg/kg	< 0.5			0.5	Pass	
4-Aminobiphenyl	mg/kg	< 0.5			0.5	Pass	
4-Bromophenyl phenyl ether	mg/kg	< 0.5			0.5	Pass	
4-Chloro-3-methylphenol	mg/kg	< 1			1	Pass	
4-Chlorophenyl phenyl ether	mg/kg	< 0.5			0.5	Pass	
4-Nitrophenol	mg/kg	< 5			5	Pass	
4.4'-DDD	mg/kg	< 0.5			0.5	Pass	
4.4'-DDE	mg/kg	< 0.5			0.5	Pass	
4.4'-DDT	mg/kg	< 0.5			0.5	Pass	
7.12-Dimethylbenz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
a-HCH	mg/kg	< 0.5			0.5	Pass	
Acetophenone	mg/kg	< 0.5			0.5	Pass	
Aldrin	mg/kg	< 0.5			0.5	Pass	
Aniline	mg/kg	< 0.5			0.5	Pass	
b-HCH	mg/kg	< 0.5			0.5	Pass	
Benzyl chloride	mg/kg	< 0.5			0.5	Pass	
Bis(2-chloroethoxy)methane	mg/kg	< 0.5			0.5	Pass	
Bis(2-chloroisopropyl)ether	mg/kg	< 0.5			0.5	Pass	
Bis(2-ethylhexyl)phthalate	mg/kg	< 0.5			0.5	Pass	
Butyl benzyl phthalate	mg/kg	< 0.5			0.5	Pass	
d-HCH	mg/kg	< 0.5			0.5	Pass	
Di-n-butyl phthalate	mg/kg	< 0.5			0.5	Pass	
Di-n-octyl phthalate	mg/kg	< 0.5			0.5	Pass	
Dibenz(a,j)acridine	mg/kg	< 0.5			0.5	Pass	
Dibenzofuran	mg/kg	< 0.5			0.5	Pass	
Dieldrin	mg/kg	< 0.5			0.5	Pass	
Diethyl phthalate	mg/kg	< 0.5			0.5	Pass	
Dimethyl phthalate	mg/kg	< 0.5			0.5	Pass	
Dimethylaminoazobenzene	mg/kg	< 0.5			0.5	Pass	
Diphenylamine	mg/kg	< 0.5			0.5	Pass	
Endosulfan I	mg/kg	< 0.5			0.5	Pass	
Endosulfan II	mg/kg	< 0.5			0.5	Pass	
Endosulfan sulphate	mg/kg	< 0.5			0.5	Pass	
Endrin	mg/kg	< 0.5			0.5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endrin aldehyde	mg/kg	< 0.5			0.5	Pass	
Endrin ketone	mg/kg	< 0.5			0.5	Pass	
g-HCH (Lindane)	mg/kg	< 0.5			0.5	Pass	
Heptachlor	mg/kg	< 0.5			0.5	Pass	
Heptachlor epoxide	mg/kg	< 0.5			0.5	Pass	
Hexachlorobenzene	mg/kg	< 0.5			0.5	Pass	
Hexachlorobutadiene	mg/kg	< 0.5			0.5	Pass	
Hexachlorocyclopentadiene	mg/kg	< 0.5			0.5	Pass	
Hexachloroethane	mg/kg	< 0.5			0.5	Pass	
Methoxychlor	mg/kg	< 0.5			0.5	Pass	
N-Nitrosodibutylamine	mg/kg	< 0.5			0.5	Pass	
N-Nitrosodipropylamine	mg/kg	< 0.5			0.5	Pass	
N-Nitrosopiperidine	mg/kg	< 0.5			0.5	Pass	
Nitrobenzene	mg/kg	< 0.5			0.5	Pass	
Pentachlorobenzene	mg/kg	< 0.5			0.5	Pass	
Pentachloronitrobenzene	mg/kg	< 0.5			0.5	Pass	
Pentachlorophenol	mg/kg	< 1			1	Pass	
Phenol	mg/kg	< 0.5			0.5	Pass	
Pronamide	mg/kg	< 0.5			0.5	Pass	
Trifluralin	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.1			0.1	Pass	
Chromium	mg/kg	< 1			1	Pass	
Copper	mg/kg	< 1			1	Pass	
Lead	mg/kg	< 1			1	Pass	
Mercury	mg/kg	< 0.02			0.02	Pass	
Nickel	mg/kg	< 1			1	Pass	
Zinc	mg/kg	< 5			5	Pass	
Method Blank							
OCOP in Soil							
Aldrin	mg/kg	< 0.01			0.01	Pass	
alpha-BHC (HCH)	mg/kg	< 0.01			0.01	Pass	
beta-BHC (HCH)	mg/kg	< 0.01			0.01	Pass	
delta-BHC (HCH)	mg/kg	< 0.01			0.01	Pass	
Bifenthrin	mg/kg	< 0.2			0.2	Pass	
Bromophos Ethyl	mg/kg	< 0.05			0.05	Pass	
Chlordane	mg/kg	< 0.01			0.01	Pass	
Chlorpyrifos	mg/kg	< 0.02			0.02	Pass	
Dieldrin	mg/kg	< 0.01			0.01	Pass	
p.p-DDD	mg/kg	< 0.01			0.01	Pass	
p.p-DDE	mg/kg	< 0.01			0.01	Pass	
p.p-DDT	mg/kg	< 0.01			0.01	Pass	
o.p-DDT	mg/kg	< 0.01			0.01	Pass	
Endosulfan I	mg/kg	< 0.01			0.01	Pass	
Endosulfan II	mg/kg	< 0.01			0.01	Pass	
Endosulfan Sulfate	mg/kg	< 0.01			0.01	Pass	
Endrin	mg/kg	< 0.01			0.01	Pass	
Heptachlor	mg/kg	< 0.01			0.01	Pass	
Heptachlor Epoxide	mg/kg	< 0.01			0.01	Pass	
Hexachlorobenzene (HCB)	mg/kg	< 0.01			0.01	Pass	
Lindane	mg/kg	< 0.01			0.01	Pass	
Methoxychlor	mg/kg	< 0.2			0.2	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Oxychlordane	mg/kg	< 0.01			0.01	Pass	
Diazinon	mg/kg	< 0.2			0.2	Pass	
Ethion	mg/kg	< 0.05			0.05	Pass	
Fenitrothion	mg/kg	< 0.1			0.1	Pass	
Malathion	mg/kg	< 0.1			0.1	Pass	
Trifluralin	mg/kg	< 0.2			0.2	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	105			70-130	Pass	
TRH C10-C14	%	119			70-130	Pass	
TRH C6-C10	%	100			70-130	Pass	
TRH >C10-C16	%	122			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	97			70-130	Pass	
Toluene	%	93			70-130	Pass	
Ethylbenzene	%	112			70-130	Pass	
m&p-Xylenes	%	103			70-130	Pass	
o-Xylene	%	100			70-130	Pass	
Xylenes - Total*	%	102			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	102			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	104			70-130	Pass	
Acenaphthylene	%	111			70-130	Pass	
Anthracene	%	108			70-130	Pass	
Benz(a)anthracene	%	79			70-130	Pass	
Benzo(a)pyrene	%	105			70-130	Pass	
Benzo(b&j)fluoranthene	%	105			70-130	Pass	
Benzo(g.h.i)perylene	%	106			70-130	Pass	
Benzo(k)fluoranthene	%	91			70-130	Pass	
Chrysene	%	113			70-130	Pass	
Dibenz(a.h)anthracene	%	108			70-130	Pass	
Fluoranthene	%	105			70-130	Pass	
Fluorene	%	109			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	90			70-130	Pass	
Naphthalene	%	98			70-130	Pass	
Phenanthrene	%	98			70-130	Pass	
Pyrene	%	100			70-130	Pass	
LCS - % Recovery							
Semivolatile Organics							
2-Methyl-4.6-dinitrophenol	%	38			25-140	Pass	
2-Chlorophenol	%	88			25-140	Pass	
2-Methylphenol (o-Cresol)	%	94			25-140	Pass	
2-Nitrophenol	%	94			25-140	Pass	
2.4-Dichlorophenol	%	76			25-140	Pass	
2.4-Dimethylphenol	%	76			25-140	Pass	
2.4.5-Trichlorophenol	%	67			25-140	Pass	
2.4.6-Trichlorophenol	%	78			25-140	Pass	
2.6-Dichlorophenol	%	80			25-140	Pass	
3&4-Methylphenol (m&p-Cresol)	%	101			25-140	Pass	
4-Chloro-3-methylphenol	%	95			25-140	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
4-Nitrophenol	%	68			25-140	Pass	
Pentachlorophenol	%	50			25-140	Pass	
Phenol	%	84			25-140	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	97			80-120	Pass	
Cadmium	%	104			80-120	Pass	
Chromium	%	106			80-120	Pass	
Copper	%	109			80-120	Pass	
Lead	%	104			80-120	Pass	
Mercury	%	115			80-120	Pass	
Nickel	%	110			80-120	Pass	
Zinc	%	110			80-120	Pass	
LCS - % Recovery							
OCOP in Soil							
Aldrin	%	100			60-120	Pass	
alpha-BHC (HCH)	%	105			60-120	Pass	
beta-BHC (HCH)	%	109			60-120	Pass	
delta-BHC (HCH)	%	97			60-120	Pass	
Chlordane	%	98			60-120	Pass	
Dieldrin	%	98			60-120	Pass	
p,p-DDD	%	113			60-120	Pass	
p,p-DDE	%	94			60-120	Pass	
p,p-DDT	%	83			60-120	Pass	
Endosulfan II	%	95			60-120	Pass	
Endosulfan Sulfate	%	91			60-120	Pass	
Endrin	%	97			60-120	Pass	
Heptachlor	%	94			60-120	Pass	
Heptachlor Epoxide	%	94			60-120	Pass	
Hexachlorobenzene (HCB)	%	97			60-120	Pass	
Lindane	%	109			60-120	Pass	
Methoxychlor	%	91			60-120	Pass	
Oxychlordane	%	101			60-120	Pass	
CRM - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	80			70-130	Pass	
TRH C6-C10	%	77			70-130	Pass	
CRM - % Recovery							
BTEX							
Benzene	%	91			70-130	Pass	
Toluene	%	89			70-130	Pass	
Ethylbenzene	%	96			70-130	Pass	
m&p-Xylenes	%	99			70-130	Pass	
o-Xylene	%	100			70-130	Pass	
Xylenes - Total*	%	99			70-130	Pass	
CRM - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	92			70-130	Pass	
CRM - % Recovery							
Heavy Metals							
Arsenic	%	102			80-120	Pass	
Cadmium	%	99			80-120	Pass	
Chromium	%	100			80-120	Pass	
Copper	%	96			80-120	Pass	

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Lead			%	95			80-120	Pass	
Nickel			%	103			80-120	Pass	
Zinc			%	99			90-110	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C9	L24-No0001010	CP	%	97			70-130	Pass	
TRH C10-C14	L24-No0001010	CP	%	109			70-130	Pass	
TRH C6-C10	L24-No0001010	CP	%	93			70-130	Pass	
TRH >C10-C16	L24-No0001010	CP	%	100			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	L24-No0001010	CP	%	97			70-130	Pass	
Toluene	L24-No0001010	CP	%	86			70-130	Pass	
Ethylbenzene	L24-No0001010	CP	%	105			70-130	Pass	
m&p-Xylenes	L24-No0001010	CP	%	101			70-130	Pass	
o-Xylene	L24-No0001010	CP	%	98			70-130	Pass	
Xylenes - Total*	L24-No0001010	CP	%	100			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	L24-No0001010	CP	%	88			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	M24-No0017379	NCP	%	92			70-130	Pass	
Acenaphthylene	M24-No0017379	NCP	%	92			70-130	Pass	
Anthracene	M24-No0017379	NCP	%	94			70-130	Pass	
Benz(a)anthracene	M24-No0017379	NCP	%	116			70-130	Pass	
Benzo(a)pyrene	M24-No0017379	NCP	%	80			70-130	Pass	
Benzo(b&j)fluoranthene	M24-No0017379	NCP	%	89			70-130	Pass	
Benzo(g.h.i)perylene	M24-No0017379	NCP	%	97			70-130	Pass	
Benzo(k)fluoranthene	M24-No0017379	NCP	%	107			70-130	Pass	
Chrysene	M24-No0017379	NCP	%	112			70-130	Pass	
Dibenz(a.h)anthracene	M24-No0017379	NCP	%	87			70-130	Pass	
Fluoranthene	M24-No0017379	NCP	%	98			70-130	Pass	
Fluorene	M24-No0017379	NCP	%	85			70-130	Pass	
Indeno(1.2.3-cd)pyrene	M24-No0017379	NCP	%	82			70-130	Pass	
Naphthalene	M24-No0017379	NCP	%	82			70-130	Pass	
Phenanthrene	M24-No0017379	NCP	%	112			70-130	Pass	
Pyrene	M24-No0017379	NCP	%	94			70-130	Pass	
Spike - % Recovery									
Semivolatile Organics				Result 1					
2-Methyl-4.6-dinitrophenol	M24-No0006095	NCP	%	114			30-130	Pass	
2-Chlorophenol	M24-No0017379	NCP	%	69			30-130	Pass	
2-Methylphenol (o-Cresol)	M24-No0017379	NCP	%	72			30-130	Pass	
2-Nitrophenol	M24-No0017379	NCP	%	52			30-130	Pass	
2.4-Dichlorophenol	M24-No0017379	NCP	%	45			30-130	Pass	
2.4-Dimethylphenol	M24-No0017379	NCP	%	116			30-130	Pass	
2.4.5-Trichlorophenol	M24-No0017379	NCP	%	45			30-130	Pass	
2.4.6-Trichlorophenol	M24-No0017379	NCP	%	45			30-130	Pass	
2.6-Dichlorophenol	M24-No0017379	NCP	%	53			30-130	Pass	
3&4-Methylphenol (m&p-Cresol)	M24-No0017379	NCP	%	78			30-130	Pass	
4-Chloro-3-methylphenol	M24-No0017379	NCP	%	52			30-130	Pass	
4-Nitrophenol	M24-No0006095	NCP	%	40			30-130	Pass	
Hexachlorobenzene	M24-No0008842	NCP	%	109			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Pentachlorophenol	M24-No0006095	NCP	%	85			30-130	Pass	
Phenol	M24-No0017379	NCP	%	61			30-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	L24-No0008218	NCP	%	99			75-125	Pass	
Cadmium	L24-No0008218	NCP	%	123			75-125	Pass	
Chromium	L24-No0001010	CP	%	108			75-125	Pass	
Copper	L24-No0008218	NCP	%	123			75-125	Pass	
Lead	L24-No0008218	NCP	%	125			75-125	Pass	
Mercury	L24-No0001010	CP	%	117			75-125	Pass	
Nickel	L24-No0001010	CP	%	115			75-125	Pass	
Zinc	L24-No0001010	CP	%	102			75-125	Pass	
Spike - % Recovery									
OCOP in Soil				Result 1					
Aldrin	L24-No0002187	NCP	%	99			60-120	Pass	
alpha-BHC (HCH)	L24-No0002187	NCP	%	100			60-120	Pass	
beta-BHC (HCH)	L24-No0002187	NCP	%	107			60-120	Pass	
delta-BHC (HCH)	L24-No0002187	NCP	%	94			60-120	Pass	
Chlordane	L24-No0002187	NCP	%	104			60-120	Pass	
Dieldrin	L24-No0002187	NCP	%	98			60-120	Pass	
p,p-DDD	L24-No0002187	NCP	%	97			60-120	Pass	
p,p-DDE	L24-No0002187	NCP	%	102			60-120	Pass	
p,p-DDT	L24-No0002187	NCP	%	85			60-120	Pass	
Endosulfan II	L24-No0002187	NCP	%	94			60-120	Pass	
Endosulfan Sulfate	L24-No0002187	NCP	%	99			60-120	Pass	
Endrin	L24-No0002187	NCP	%	99			60-120	Pass	
Heptachlor	L24-No0002187	NCP	%	93			60-120	Pass	
Heptachlor Epoxide	L24-No0002187	NCP	%	107			60-120	Pass	
Hexachlorobenzene (HCB)	L24-No0002187	NCP	%	103			60-120	Pass	
Lindane	L24-No0002187	NCP	%	106			60-120	Pass	
Methoxychlor	L24-No0002187	NCP	%	92			60-120	Pass	
Oxychlordane	L24-No0002187	NCP	%	87			60-120	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	L24-No0007879	NCP	mg/kg	27	< 20	<1	30%	Pass	
TRH C10-C14	L24-Oc0085906	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	L24-Oc0085906	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	L24-Oc0085906	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C6-C10	L24-No0007879	NCP	mg/kg	110	< 20	<1	30%	Pass	
TRH >C10-C16	L24-Oc0085906	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	L24-Oc0085906	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	L24-Oc0085906	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	L24-No0007879	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	L24-No0007879	NCP	mg/kg	0.3	< 0.1	<1	30%	Pass	
Ethylbenzene	L24-No0007879	NCP	mg/kg	1.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	L24-No0007879	NCP	mg/kg	4.0	< 0.2	<1	30%	Pass	
o-Xylene	L24-No0007879	NCP	mg/kg	3.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	L24-No0007879	NCP	mg/kg	7.0	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	L24-No0007879	NCP	mg/kg	13	< 0.5	<1	30%	Pass	

Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Semivolatile Organics				Result 1	Result 2	RPD			
2-Methyl-4.6-dinitrophenol	M24-No0018049	NCP	mg/kg	< 5	< 5	<1	30%	Pass	
1-Chloronaphthalene	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1-Naphthylamine	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichlorobenzene	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.3-Trichlorobenzene	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.3.4-Tetrachlorobenzene	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.3.5-Tetrachlorobenzene	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.4-Trichlorobenzene	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.4.5-Tetrachlorobenzene	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichlorobenzene	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3.5-Trichlorobenzene	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.4-Dichlorobenzene	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Chloronaphthalene	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Chlorophenol	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Methylnaphthalene	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Methylphenol (o-Cresol)	M24-No0018049	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
2-Naphthylamine	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Nitroaniline	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Nitrophenol	M24-No0018049	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
2-Picoline	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.3.4.6-Tetrachlorophenol	M24-No0018049	NCP	mg/kg	< 5	< 5	<1	30%	Pass	
2.4-Dichlorophenol	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4-Dimethylphenol	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4-Dinitrophenol	M24-No0018049	NCP	mg/kg	< 5	< 5	<1	30%	Pass	
2.4-Dinitrotoluene	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4.5-Trichlorophenol	M24-No0018049	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
2.4.6-Trichlorophenol	M24-No0018049	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
2.6-Dichlorophenol	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.6-Dinitrotoluene	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
3&4-Methylphenol (m&p-Cresol)	M24-No0018049	NCP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
3-Methylcholanthrene	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
3.3'-Dichlorobenzidine	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Aminobiphenyl	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Bromophenyl phenyl ether	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Chloro-3-methylphenol	M24-No0018049	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
4-Chlorophenyl phenyl ether	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Semivolatile Organics				Result 1	Result 2	RPD			
4-Nitrophenol	M24-No0018049	NCP	mg/kg	< 5	< 5	<1	30%	Pass	
4.4'-DDD	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4.4'-DDE	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4.4'-DDT	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
7.12-Dimethylbenz(a)anthracene	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
a-HCH	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acetophenone	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aldrin	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aniline	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
b-HCH	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzyl chloride	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bis(2-chloroethoxy)methane	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bis(2-chloroisopropyl)ether	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bis(2-ethylhexyl)phthalate	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Butyl benzyl phthalate	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
d-HCH	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Di-n-butyl phthalate	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Di-n-octyl phthalate	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a,j)acridine	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenzofuran	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dieldrin	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Diethyl phthalate	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dimethyl phthalate	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dimethylaminoazobenzene	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Diphenylamine	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Endosulfan I	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Endosulfan II	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Endosulfan sulphate	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Endrin	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Endrin aldehyde	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Endrin ketone	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
g-HCH (Lindane)	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Heptachlor	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Heptachlor epoxide	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Hexachlorobenzene	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Hexachlorobutadiene	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Hexachlorocyclopentadiene	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Hexachloroethane	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Methoxychlor	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
N-Nitrosodibutylamine	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
N-Nitrosodipropylamine	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
N-Nitrosopiperidine	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Nitrobenzene	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pentachlorobenzene	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pentachloronitrobenzene	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pentachlorophenol	M24-No0018049	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
Phenol	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pronamide	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trifluralin	M24-No0018049	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	L24-Se0045030	NCP	%	< 1	1.0	10	30%	Pass	

Duplicate									
OCOP in Soil				Result 1	Result 2	RPD			
Aldrin	L24-No0001011	CP	mg/kg	< 0.01	< 0.01	<1	30%	Pass	
alpha-BHC (HCH)	L24-No0001011	CP	mg/kg	< 0.01	< 0.01	<1	30%	Pass	
beta-BHC (HCH)	L24-No0001011	CP	mg/kg	< 0.01	< 0.01	<1	30%	Pass	
delta-BHC (HCH)	L24-No0001011	CP	mg/kg	< 0.01	< 0.01	<1	30%	Pass	
Bifenthrin	L24-No0001011	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Bromophos Ethyl	L24-No0001011	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Chlordane	L24-No0001011	CP	mg/kg	< 0.01	< 0.01	<1	30%	Pass	
Chlorpyrifos	L24-No0001011	CP	mg/kg	< 0.02	< 0.02	<1	30%	Pass	
Dieldrin	L24-No0001011	CP	mg/kg	< 0.01	< 0.01	<1	30%	Pass	
p.p-DDD	L24-No0001011	CP	mg/kg	< 0.01	< 0.01	<1	30%	Pass	
p.p-DDE	L24-No0001011	CP	mg/kg	< 0.01	< 0.01	<1	30%	Pass	
p.p-DDT	L24-No0001011	CP	mg/kg	< 0.01	< 0.01	<1	30%	Pass	
o.p-DDT	L24-No0001011	CP	mg/kg	< 0.01	< 0.01	<1	30%	Pass	
Endosulfan I	L24-No0001011	CP	mg/kg	< 0.01	< 0.01	<1	30%	Pass	
Endosulfan II	L24-No0001011	CP	mg/kg	< 0.01	< 0.01	<1	30%	Pass	
Endosulfan Sulfate	L24-No0001011	CP	mg/kg	< 0.01	< 0.01	<1	30%	Pass	
Endrin	L24-No0001011	CP	mg/kg	< 0.01	< 0.01	<1	30%	Pass	
Heptachlor	L24-No0001011	CP	mg/kg	< 0.01	< 0.01	<1	30%	Pass	
Heptachlor Epoxide	L24-No0001011	CP	mg/kg	< 0.01	< 0.01	<1	30%	Pass	
Hexachlorobenzene (HCB)	L24-No0001011	CP	mg/kg	< 0.01	< 0.01	<1	30%	Pass	
Lindane	L24-No0001011	CP	mg/kg	< 0.01	< 0.01	<1	30%	Pass	
Methoxychlor	L24-No0001011	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Oxychlordane	L24-No0001011	CP	mg/kg	< 0.01	< 0.01	<1	30%	Pass	
Diazinon	L24-No0001011	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethion	L24-No0001011	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Fenitrothion	L24-No0001011	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Malathion	L24-No0001011	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Trifluralin	L24-No0001011	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	L24-No0001011	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Cadmium	L24-No0001011	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Chromium	L24-No0001011	CP	mg/kg	2.2	2.3	5.0	30%	Pass	
Copper	L24-No0001011	CP	mg/kg	4.8	5.1	5.0	30%	Pass	
Lead	L24-No0001011	CP	mg/kg	15	15	3.0	30%	Pass	
Mercury	L24-No0001011	CP	mg/kg	0.03	0.03	6.0	30%	Pass	
Nickel	L24-No0001011	CP	mg/kg	2.7	2.9	6.0	30%	Pass	
Zinc	L24-No0001011	CP	mg/kg	25	26	6.0	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	No
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	N/A
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs

Authorised by:

Celeste Chinnery	Analytical Services Manager
Douglas Todd	Senior Analyst-Sample Properties
Edward Lee	Senior Analyst-Organic
Joseph Edouard	Senior Analyst-Organic
Patrick Patfield	Senior Analyst-Organic
Patrick Patfield	Senior Analyst-Volatile
Sean Sangster	Senior Analyst-Metal

Glenn Jackson
Managing Director

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

web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
WA 6106
+61 8 6253 4444
NATA# 2377
Site# 2370 & 2554

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South
VIC 3175
+61 3 8564 5000
NATA# 1261
Site# 1254

Geelong
19/8 Lewalan Street
Grovedale
VIC 3216
+61 3 8564 5000
NATA# 1261
Site# 25403

Sydney
179 Magowar Road
Girraween
NSW 2145
+61 2 9900 8400
NATA# 1261
Site# 18217

Canberra
Unit 1,2 Dacre Street
Mitchell
ACT 2911
+61 2 6113 8091
NATA# 1261
Site# 25466

Brisbane
1/21 Smallwood Place
Murarrie
QLD 4172
T: +61 7 3902 4600
NATA# 1261
Site# 20794 & 2780

Newcastle
1/2 Frost Drive
Mayfield West
NSW 2304
+61 2 4968 8448
NATA# 1261
Site# 25079

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
+64 9 526 4551
IANZ# 1327

Auckland (Focus)
Unit C1/4 Pacific Rise,
Mount Wellington,
Auckland 1061
+64 9 525 0568
IANZ# 1308

Christchurch
43 Detroit Drive
Rolleston,
Christchurch 7675
+64 3 343 5201
IANZ# 1290

Tauranga
1277 Cameron Road,
Gate Pa,
Tauranga 3112
+64 9 525 0568
IANZ# 1402

Company Name: West Soil and Water
Address: 3/194 Holbeck Street
Doubleview
WA 6018

Order No.:
Report #: 1155566
Phone: 0424 021 264
Fax:

Received: Oct 31, 2024 1:30 PM
Due: Nov 7, 2024
Priority: 5 Day
Contact Name: Sam Muller

Project Name: 20240730_147 BURSWOOD ROAD ADDITIONAL INVESTIGATIONS
Project ID: 147-BR

Eurofins Analytical Services Manager : Celeste Chinnery

Sample Detail						HOLD	Metals M8	Moisture Set	Eurofins Suite B4	OCOP in Soil	SVOCs in Soil
Perth Laboratory - NATA # 2377 Site # 2370 & 2554						X	X	X	X	X	X
External Laboratory											
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**						
1	X2	Oct 30, 2024		Soil	L24-No0001010		X	X	X	X	X
2	X4	Oct 30, 2024		Soil	L24-No0001011		X	X	X	X	X
3	X6	Oct 30, 2024		Soil	L24-No0001012	X					
Test Counts						1	2	2	2	2	2

APPENDIX N

Tabulated Groundwater Results

			BTEX								TRH									
			Naphthalene (VOC)	Benzene	Toluene	Ethylbenzene	Xylene (m & p)	Xylene (o)	Xylene Total	Total BTEX	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)	3&4-Methylphenol (m&p-cresol)	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol
			mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL			0.005	1	2	2	2	2	2	1	20	20	100	100	100	100	100	4	2	2
WA DWER Non-potable groundwater use guideline (NPUG) (2021)				10	25	3			20											200
WHO Hydrocarbon NPUG														900						
ANZECC 2000 FW 95%			0.016	950				350												20
ANZECC 2000 Irrigation Short Term																				
NEPM 2013 Table 1A(4) Res HSL A & B GW for Vapour Intrusion, Sand				800 | 800 | 900								1,000 | 1,000 | 1,000		1,000 | 1,000 | 1,000					
Field ID	**Location Code**	**Date**																		
GW 1		**07 Nov 2024**	<0.005	<1	<2	<2	<2	<2	<2	<1	<20	<20	<100	<100	<100	<100	<100	<4	<2	<2
GW 2		**07 Nov 2024**	<0.005	<1	<2	<2	<2	<2	<2	<1	<20	<20	<100	<100	<100	<100	<100	<4	<2	<2
GW 3		**07 Nov 2024**	<0.005	<1	<2	<2	<2	<2	<2	<1	<20	<20	<100	<100	<100	<100	<100	<4	<2	<2
GW 4		**07 Nov 2024**	<0.005	<1	<2	<2	<2	<2	<2	<1	<20	<20	<100	<100	<100	<100	<100	<4	<2	<2
X1		**07 Nov 2024**	<0.005	<1	<2	<2	<2	<2	<2	<1	<20	<20	<100	<100	<100	<100	<100	<4	<2	<2
GW 2	**07 Nov 2024**	**Water**	<0.005	<1	<2	<2	<2	<2	<2	<1	<20	<20	<100	<100	<100	<100	<100	<4	<2	<2
X1	**07 Nov 2024**	**Water**	<0.005	<1	<2	<2	<2	<2	<2	<1	<20	<20	<100	<100	<100	<100	<100	<4	<2	<2
RPD			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GW 2	**07 Nov 2024**	**Water**	<0.005	<1	<2	<2	<2	<2	<2	<1	<20	<20	<100	<100	<100	<100	<100	<4	<2	<2
X2	**07 Nov 2024**	**Water**	<0.01	<1	<1	<1	<2	<1	<3		<20	<20	<50	<50	<100	<100	<100	<6	<10	<10
RPD			0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0
X1	**07 Nov 2024**	**Water**	<0.005	<1	<2	<2	<2	<2	<2	<1	<20	<20	<100	<100	<100	<100	<100	<4	<2	<2
X2	**07 Nov 2024**	**Water**	<0.01	<1	<1	<1	<2	<1	<3		<20	<20	<50	<50	<100	<100	<100	<6	<10	<10
RPD			0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0

Environmental Standards
WA DWER, November 2021, WA DWER Non-potable groundwater use guideline (NPUG) (2021)
DoE, 2000, ANZECC 2000 FW 95%
DoE, 2000, ANZECC 2000 Irrigation Short Term
2013, NEPM 2013 Table 1A(4) Res HSL A & B GW for Vapour Intrusion, Sand

			Phenols									Amino Aliphatics				Amino Aromatics		Other	Anil		
			2,4-Dichlorophenol	2,4-Dimethylphenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	4-chloro-3-methylphenol	Pentachlorophenol	Phenol	N-nitrosodiethylamine	N-nitrosodi-n-butylamine	N-nitrosodi-n-propylamine	N-Nitrosomethylethylamine	1-naphthylamine	N-Nitrosodiphenyl & Diphenylamine	Acetophenone	2-nitroaniline	3-nitroaniline	4-chloroaniline
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL			2	2	2	2	2	2	2	4	2	2	2	2	2	2	4	2	4	4	2
WA DWER Non-potable groundwater use guideline (NPUG) (2021)			2,000			3,000				100											
WHO Hydrocarbon NPUG																					
ANZECC 2000 FW 95%			160			490				10	320										
ANZECC 2000 Irrigation Short Term																					
NEPM 2013 Table 1A(4) Res HSL A & B GW for Vapour Intrusion, Sand																					
Field ID	**Location Code**	**Date**																			
GW 1		**07 Nov 2024**	<2	<2	<2	<2	<2	<2	<2	<4	<2	<2	<2	<2	<2	<2	<4	<2	<4	<4	<2
GW 2		**07 Nov 2024**	<2	<2	<2	<2	<2	<2	<2	<4	<2	<2	<2	<2	<2	<2	<4	<2	<4	<4	<2
GW 3		**07 Nov 2024**	<2	<2	<2	<2	<2	<2	<2	<4	<2	<2	<2	<2	<2	<2	<4	<2	<4	<4	<2
GW 4		**07 Nov 2024**	<2	<2	<2	<2	<2	<2	<2	<4	<2	<2	<2	<2	<2	<2	<4	<2	<4	<4	<2
X1		**07 Nov 2024**	<2	<2	<2	<2	<2	<2	<2	<4	<2	<2	<2	<2	<2	<2	<4	<2	<4	<4	<2
GW 2	**07 Nov 2024**	**Water**	<2	<2	<2	<2	<2	<2	<2	<4	<2	<2	<2	<2	<2	<2	<4	<2	<4	<4	<2
X1	**07 Nov 2024**	**Water**	<2	<2	<2	<2	<2	<2	<2	<4	<2	<2	<2	<2	<2	<2	<4	<2	<4	<4	<2
RPD			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GW 2	**07 Nov 2024**	**Water**	<2	<2	<2	<2	<2	<2	<2	<4	<2	<2	<2	<2	<2	<2	<4	<2	<4	<4	<2
X2	**07 Nov 2024**	**Water**	<3	<3	<3	<3	<3	<10	<10	<10	<3		<5	<5		<5		<5	<5		
RPD			0	0	0	0	0	0	0	0	0		0	0		0		0	0		
X1	**07 Nov 2024**	**Water**	<2	<2	<2	<2	<2	<2	<2	<4	<2	<2	<2	<2	<2	<2	<4	<2	<4	<4	<2
X2	**07 Nov 2024**	**Water**	<3	<3	<3	<3	<3	<10	<10	<10	<3		<5	<5		<5		<5	<5		
RPD			0	0	0	0	0	0	0	0			0	0		0		0	0		

Environmental Standards
WA DWER, November 2021, WA DWER Non-potable groundwater use guideline (NPl
DoE, 2000, ANZECC 2000 FW 95%
DoE, 2000, ANZECC 2000 Irrigation Short Term
2013, NEPM 2013 Table 1A(4) Res HSL A & B GW for Vapour Intrusion, Sand

			nes			Chlorinated Hydrocarbons			Explosives				Halogenated Benzenes						Herbicides		
			4-nitroaniline	2-methyl-5-nitroaniline	Aniline	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	1,3,5-Trinitrobenzene	2,4-Dinitrotoluene	2,6-dinitrotoluene	Nitrobenzene	1,2,4-trichlorobenzene	1,2-dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	Hexachlorobenzene	Pentachlorobenzene	Pronamide	Arsenic (filtered)	Cadmium (filtered)
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L
EQL			2	2	2	2	10	2	0.002	4	4	2	2	2	2	2	0.5	2	2	0.001	0.0001
WA DWER Non-potable groundwater use guideline (NPUG) (2021)						7								1	20	0.3			700	0.1	0.02
WHO Hydrocarbon NPUG																					
ANZECC 2000 FW 95%					250			360		65		550	170	160	260	60					0.0002
ANZECC 2000 Irrigation Short Term																				2	0.05
NEPM 2013 Table 1A(4) Res HSL A & B GW for Vapour Intrusion, Sand																					
Field ID	**Location Code**	**Date**																			
GW 1		**07 Nov 2024**	<2	<2	<2	<2	<10	<2	<0.002	<4	<4	<2	<2	<2	<2	<2	<0.5	<2	<2	<0.001	<0.0001
GW 2		**07 Nov 2024**	<2	<2	<2	<2	<10	<2	<0.002	<4	<4	<2	<2	<2	<2	<2	<0.5	<2	<2	<0.001	<0.0001
GW 3		**07 Nov 2024**	<2	<2	<2	<2	<10	<2	<0.002	<4	<4	<2	<2	<2	<2	<2	<0.5	<2	<2	<0.001	<0.0001
GW 4		**07 Nov 2024**	<2	<2	<2	<2	<10	<2	<0.002	<4	<4	<2	<2	<2	<2	<2	<0.5	<2	<2	<0.001	<0.0001
X1		**07 Nov 2024**	<2	<2	<2	<2	<10	<2	<0.002	<4	<4	<2	<2	<2	<2	<2	<0.5	<2	<2	<0.001	<0.0001
GW 2	**07 Nov 2024**	**Water**	<2	<2	<2	<2	<10	<2	<0.002	<4	<4	<2	<2	<2	<2	<2	<0.5	<2	<2	<0.001	<0.0001
X1	**07 Nov 2024**	**Water**	<2	<2	<2	<2	<10	<2	<0.002	<4	<4	<2	<2	<2	<2	<2	<0.5	<2	<2	<0.001	<0.0001
RPD			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GW 2	**07 Nov 2024**	**Water**	<2	<2	<2	<2	<10	<2	<0.002	<4	<4	<2	<2	<2	<2	<2	<0.5	<2	<2	<0.001	<0.0001
X2	**07 Nov 2024**	**Water**			<5	<5	<5	<5		<5	<5	<50	<5	<5	<5	<5	<0.2	<5	<5	<0.001	<0.0001
RPD					0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0
X1	**07 Nov 2024**	**Water**	<2	<2	<2	<2	<10	<2	<0.002	<4	<4	<2	<2	<2	<2	<2	<0.5	<2	<2	<0.001	<0.0001
X2	**07 Nov 2024**	**Water**			<5	<5	<5	<5		<5	<5	<50	<5	<5	<5	<5	<0.2	<5	<5	<0.001	<0.0001
RPD					0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0

Environmental Standards
WA DWER, November 2021, WA DWER Non-potable groundwater use guideline (NPl
DoE, 2000, ANZECC 2000 FW 95%
DoE, 2000, ANZECC 2000 Irrigation Short Term
2013, NEPM 2013 Table 1A(4) Res HSL A & B GW for Vapour Intrusion, Sand

			Metals						Nitroaromatics											
			Chromium (III+VI) (filtered)	Copper (filtered)	Lead (filtered)	Mercury (filtered)	Nickel (filtered)	Zinc (filtered)	2-Picoline	4-aminobiphenyl	Pentachloronitrobenzene	4,4-DDE	a-BHC	Aldrin	Aldrin + Dieldrin	b-BHC	Chlordane	Chlordane (cis)	Chlordane (trans)	d-BHC	DDD
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL			0.001	0.001	0.001	0.0001	0.001	0.005	2	2	2	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
WA DWER Non-potable groundwater use guideline (NPUG) (2021)				1	0.1	0.01	0.2	3			300				3		20				
WHO Hydrocarbon NPUG																					
ANZECC 2000 FW 95%				0.0014	0.0034	0.0006	0.011	0.008									0.08				
ANZECC 2000 Irrigation Short Term			1	5	5	0.002	2	5													
NEPM 2013 Table 1A(4) Res HSL A & B GW for Vapour Intrusion, Sand																					
Field ID	**Location Code**	**Date**																			
GW 1		**07 Nov 2024**	<0.001	<0.001	<0.001	<0.0001	<0.001	<0.005	<2	<2	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
GW 2		**07 Nov 2024**	<0.001	<0.001	<0.001	<0.0001	<0.001	0.008	<2	<2	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
GW 3		**07 Nov 2024**	<0.001	<0.001	<0.001	<0.0001	<0.001	0.005	<2	<2	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
GW 4		**07 Nov 2024**	<0.001	<0.001	<0.001	<0.0001	0.002	0.010	<2	<2	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
X1		**07 Nov 2024**	<0.001	<0.001	<0.001	<0.0001	<0.001	0.007	<2	<2	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
GW 2	**07 Nov 2024**	**Water**	<0.001	<0.001	<0.001	<0.0001	<0.001	0.008	<2	<2	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
X1	**07 Nov 2024**	**Water**	<0.001	<0.001	<0.001	<0.0001	<0.001	0.007	<2	<2	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD			0	0	0	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0
GW 2	**07 Nov 2024**	**Water**	<0.001	<0.001	<0.001	<0.0001	<0.001	0.008	<2	<2	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
X2	**07 Nov 2024**	**Water**	<0.001	<0.001	<0.001	<0.0001	<0.001	0.008	<5	<5	<5	<0.2	<0.2	<0.2	<0.2	<0.2	<2			<0.2	<0.2
RPD			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0
X1	**07 Nov 2024**	**Water**	<0.001	<0.001	<0.001	<0.0001	<0.001	0.007	<2	<2	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
X2	**07 Nov 2024**	**Water**	<0.001	<0.001	<0.001	<0.0001	<0.001	0.008	<5	<5	<5	<0.2	<0.2	<0.2	<0.2	<0.2	<2			<0.2	<0.2
RPD			0	0	0	0	0	13				0	0	0	0	0	0			0	0

Environmental Standards
WA DWER, November 2021, WA DWER Non-potable groundwater use guideline (NPl
DoE, 2000, ANZECC 2000 FW 95%
DoE, 2000, ANZECC 2000 Irrigation Short Term
2013, NEPM 2013 Table 1A(4) Res HSL A & B GW for Vapour Intrusion, Sand

			Organochlorine Pesticides																	
			DDT	DDT+DDE+DDD	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	Endrin ketone	g-BHC (Lindane)	Heptachlor	Heptachlor epoxide	Methoxychlor	Azinophos methyl	Bromophos-ethyl	Carbophenothion	Chlorfenvinphos	Chlorpyrifos	Chlorpyrifos-methyl
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L
EQL			2	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	2	0.5	0.5	0.5	0.5	0.5	0.0005
WA DWER Non-potable groundwater use guideline (NPUG) (2021)			90									100			3,000	300		5	20	100	
WHO Hydrocarbon NPUG																					
ANZECC 2000 FW 95%			0.01						0.02			0.2	0.09			0.02				0.01	
ANZECC 2000 Irrigation Short Term																					
NEPM 2013 Table 1A(4) Res HSL A & B GW for Vapour Intrusion, Sand																					
Field ID	**Location Code**	**Date**																			
GW 1		**07 Nov 2024**	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.0005
GW 2		**07 Nov 2024**	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.0005
GW 3		**07 Nov 2024**	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.0005
GW 4		**07 Nov 2024**	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.0005
X1		**07 Nov 2024**	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.0005
GW 2	**07 Nov 2024**	**Water**	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.0005
X1	**07 Nov 2024**	**Water**	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.0005
RPD			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GW 2	**07 Nov 2024**	**Water**	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.0005
X2	**07 Nov 2024**	**Water**	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2			<20	<2	<0.002
RPD			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0
X1	**07 Nov 2024**	**Water**	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.0005
X2	**07 Nov 2024**	**Water**	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2			<20	<2	<0.002
RPD			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0

Environmental Standards
WA DWER, November 2021, WA DWER Non-potable groundwater use guideline (NPl
DoE, 2000, ANZECC 2000 FW 95%
DoE, 2000, ANZECC 2000 Irrigation Short Term
2013, NEPM 2013 Table 1A(4) Res HSL A & B GW for Vapour Intrusion, Sand

			Organophosphorous Pesticides																	
			Diazinon	Dichlorvos	Dimethoate	Ethion	Fenthion	Malathion	Methyl parathion	Monocrotophos	Prothiofos	Benzo(b+j+k)fluoranthene	2-chloronaphthalene	2-methylnaphthalene	3-methylcholanthrene	7,12-dimethylbenz(a)anthracene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a) pyrene
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL			0.5	0.5	0.5	0.5	0.5	0.5	2	2	0.5	0.004	2	2	2	2	1	1	1	1	0.5
WA DWER Non-potable groundwater use guideline (NPUG) (2021)			40	50	70	40	70	700	7	20											0.1
WHO Hydrocarbon NPUG																					
ANZECC 2000 FW 95%			0.01		0.15			0.05													
ANZECC 2000 Irrigation Short Term																					
NEPM 2013 Table 1A(4) Res HSL A & B GW for Vapour Intrusion, Sand																					
Field ID	**Location Code**	**Date**																			
GW 1		**07 Nov 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<2.0	<0.5	<0.004	<2	<2	<2	<2	<1.0	<1.0	<1.0	<1.0	<0.5
GW 2		**07 Nov 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<2.0	<0.5	<0.004	<2	<2	<2	<2	<1.0	<1.0	<1.0	<1.0	<0.5
GW 3		**07 Nov 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<2.0	<0.5	<0.004	<2	<2	<2	<2	<1.0	<1.0	<1.0	<1.0	<0.5
GW 4		**07 Nov 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<2.0	<0.5	<0.004	<2	<2	<2	<2	<1.0	<1.0	<1.0	<1.0	<0.5
X1		**07 Nov 2024**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<2.0	<0.5	<0.004	<2	<2	<2	<2	<1.0	<1.0	<1.0	<1.0	<0.5
GW 2	**07 Nov 2024**	**Water**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<2.0	<0.5	<0.004	<2	<2	<2	<2	<1.0	<1.0	<1.0	<1.0	<0.5
X1	**07 Nov 2024**	**Water**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<2.0	<0.5	<0.004	<2	<2	<2	<2	<1.0	<1.0	<1.0	<1.0	<0.5
RPD			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GW 2	**07 Nov 2024**	**Water**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<2.0	<0.5	<0.004	<2	<2	<2	<2	<1.0	<1.0	<1.0	<1.0	<0.5
X2	**07 Nov 2024**	**Water**	<2	<2	<2	<2	<2	<2	<2	<2			<5	<5	<5	<5	<1	<1	<1	<1	<1
RPD			0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0
X1	**07 Nov 2024**	**Water**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<2.0	<0.5	<0.004	<2	<2	<2	<2	<1.0	<1.0	<1.0	<1.0	<0.5
X2	**07 Nov 2024**	**Water**	<2	<2	<2	<2	<2	<2	<2	<2			<5	<5	<5	<5	<1	<1	<1	<1	<1
RPD			0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0

Environmental Standards
WA DWER, November 2021, WA DWER Non-potable groundwater use guideline (NPl
DoE, 2000, ANZECC 2000 FW 95%
DoE, 2000, ANZECC 2000 Irrigation Short Term
2013, NEPM 2013 Table 1A(4) Res HSL A & B GW for Vapour Intrusion, Sand

			PAH												Pesticides					
			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)	Chlorobenzilate	Carbazole	Demeton-S-methyl	Fenamiphos	Parathion	Pirimphos-ethyl
			mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL			0.001	1	1	1	1	1	1	1	1	1	1	0.0005	0.5	2	2	0.5	0.5	2	0.5
WA DWER Non-potable groundwater use guideline (NPUG) (2021)																			5	200	5
WHO Hydrocarbon NPUG																					
ANZECC 2000 FW 95%											16									0.004	
ANZECC 2000 Irrigation Short Term																					
NEPM 2013 Table 1A(4) Res HSL A & B GW for Vapour Intrusion, Sand																					
Field ID	**Location Code**	**Date**																			
GW 1		**07 Nov 2024**	<0.0010	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.0005	<0.5	<2	<2	<0.5	<0.5	<2.0	<0.5
GW 2		**07 Nov 2024**	<0.0010	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.0005	<0.5	<2	<2	<0.5	<0.5	<2.0	<0.5
GW 3		**07 Nov 2024**	<0.0010	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.0005	<0.5	<2	<2	<0.5	<0.5	<2.0	<0.5
GW 4		**07 Nov 2024**	<0.0010	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.0005	<0.5	<2	<2	<0.5	<0.5	<2.0	<0.5
X1		**07 Nov 2024**	<0.0010	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.0005	<0.5	<2	<2	<0.5	<0.5	<2.0	<0.5
GW 2	**07 Nov 2024**	**Water**	<0.0010	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.0005	<0.5	<2	<2	<0.5	<0.5	<2.0	<0.5
X1	**07 Nov 2024**	**Water**	<0.0010	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.0005	<0.5	<2	<2	<0.5	<0.5	<2.0	<0.5
RPD			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GW 2	**07 Nov 2024**	**Water**	<0.0010	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.0005	<0.5	<2	<2	<0.5	<0.5	<2.0	<0.5
X2	**07 Nov 2024**	**Water**	<0.001	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		<1					<2	
RPD			0	0	0	0	0	0	0	0	0	0	0		0					0	
X1	**07 Nov 2024**	**Water**	<0.0010	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.0005	<0.5	<2	<2	<0.5	<0.5	<2.0	<0.5
X2	**07 Nov 2024**	**Water**	<0.001	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		<1					<2	
RPD			0	0	0	0	0	0	0	0	0	0	0		0					0	

Environmental Standards
WA DWER, November 2021, WA DWER Non-potable groundwater use guideline (NPl
DoE, 2000, ANZECC 2000 FW 95%
DoE, 2000, ANZECC 2000 Irrigation Short Term
2013, NEPM 2013 Table 1A(4) Res HSL A & B GW for Vapour Intrusion, Sand

			Phthalates						Solvents	SVOCs											
			Bis(2-ethylhexyl) phthalate	Butyl benzyl phthalate	Diethylphthalate	Dimethyl phthalate	Di-n-butyl phthalate	Di-n-octyl phthalate	Isophorone	2-(acetylamino) fluorene	3,3-Dichlorobenzidine	4-(dimethylamino) azobenzene	4-bromophenyl phenyl ether	4-chlorophenyl phenyl ether	4-Nitroquinoline-N-oxide	Azobenzene	Bis(2-chloroethoxy) methane	Bis(2-chloroethyl)ether	Dibenzofuran	Hexachloropropene	Methapyrilene
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL			10	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
WA DWER Non-potable groundwater use guideline (NPUG) (2021)			100																		
WHO Hydrocarbon NPUG																					
ANZECC 2000 FW 95%					1,000	3,700	26														
ANZECC 2000 Irrigation Short Term																					
NEPM 2013 Table 1A(4) Res HSL A & B GW for Vapour Intrusion, Sand																					
Field ID	**Location Code**	**Date**																			
GW 1		**07 Nov 2024**	<10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
GW 2		**07 Nov 2024**	<10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
GW 3		**07 Nov 2024**	<10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
GW 4		**07 Nov 2024**	<10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
X1		**07 Nov 2024**	<10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
GW 2	**07 Nov 2024**	**Water**	<10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
X1	**07 Nov 2024**	**Water**	<10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
RPD			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GW 2	**07 Nov 2024**	**Water**	<10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
X2	**07 Nov 2024**	**Water**	<5	<5	<5	<5	<5	<5			<5	<5	<5	<5			<5		<5		
RPD			0	0	0	0	0	0			0	0	0	0			0		0		
X1	**07 Nov 2024**	**Water**	<10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
X2	**07 Nov 2024**	**Water**	<5	<5	<5	<5	<5	<5			<5	<5	<5	<5			<5		<5		
RPD			0	0	0	0	0	0			0	0	0	0			0		0		

Environmental Standards
WA DWER, November 2021, WA DWER Non-potable groundwater use guideline (NPl
DoE, 2000, ANZECC 2000 FW 95%
DoE, 2000, ANZECC 2000 Irrigation Short Term
2013, NEPM 2013 Table 1A(4) Res HSL A & B GW for Vapour Intrusion, Sand

							TPH			
			N-nitrosomorpholine	N-nitrosopiperidine	N-nitrosopyrrolidine	Phenacetin	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum)
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL			2	2	4	2	20	50	100	50	50
WA DWER Non-potable groundwater use guideline (NPUG) (2021)											
WHO Hydrocarbon NPUG											
ANZECC 2000 FW 95%											
ANZECC 2000 Irrigation Short Term											
NEPM 2013 Table 1A(4) Res HSL A & B GW for Vapour Intrusion, Sand											
Field ID	**Location Code**	**Date**									
GW 1		**07 Nov 2024**	<2	<2	<4	<2	<20	<50	<100	<50	<50
GW 2		**07 Nov 2024**	<2	<2	<4	<2	<20	<50	<100	<50	<50
GW 3		**07 Nov 2024**	<2	<2	<4	<2	<20	<50	<100	<50	<50
GW 4		**07 Nov 2024**	<2	<2	<4	<2	<20	<50	<100	<50	<50
X1		**07 Nov 2024**	<2	<2	<4	<2	<20	<50	<100	<50	<50
GW 2	**07 Nov 2024**	**Water**	<2	<2	<4	<2	<20	<50	<100	<50	<50
X1	**07 Nov 2024**	**Water**	<2	<2	<4	<2	<20	<50	<100	<50	<50
RPD			0	0	0	0	0	0	0	0	0
GW 2	**07 Nov 2024**	**Water**	<2	<2	<4	<2	<20	<50	<100	<50	<50
X2	**07 Nov 2024**	**Water**		<5			<20	<50	<100	<100	<100
RPD				0			0	0	0	0	0
X1	**07 Nov 2024**	**Water**	<2	<2	<4	<2	<20	<50	<100	<50	<50
X2	**07 Nov 2024**	**Water**		<5			<20	<50	<100	<100	<100
RPD				0			0	0	0	0	0

Environmental Standards
WA DWER, November 2021, WA DWER Non-potable groundwater use guideline (NPl
DoE, 2000, ANZECC 2000 FW 95%
DoE, 2000, ANZECC 2000 Irrigation Short Term
2013, NEPM 2013 Table 1A(4) Res HSL A & B GW for Vapour Intrusion, Sand

APPENDIX O

Groundwater Laboratory Certificates

Page 1 of 1

Project Reference	147-BR
WSW Reference	20240730_147 Burswood Road Additional Investigations
Site	147 Buswood Rd
Sample Type	Soil/Water
Scientist(s)	S.Mueller A. Scanlan
Results:	sam@westsoilandwater.com.au audrey@westsoilandwater.com.au brad@westsoilandwater.com.au
Invoice:	sam@westsoilandwater.com.au admin@westsoilandwater.com.au

WEST SOIL & WATER

p: 0424021264
e: sam@westsoilandwater.com.au

w: www.westsoilandwater.com.au

	SAMPLE ID.	DATE	TIME	PRESERVATION Ice	PRESERVATION None	ANALYSIS SUITES: TRH	BTEXN	PAH	Suite of Eight Heavy Metals (As, Cd, Cr, Cu, Hg, Ni, Pb, Zn)	OC/OP Pesticides	SVOCs					Total # of Containers	COMMENTS	LAB ID
	SOILS																	
1	GW 1	7/11/2024	830	X		X	X	X	X	X	X					4		
2	GW 2	7/11/2024	930	X		X	X	X	X	X	X					6	EXTRA GLASS AMBER (X2) FOR LAB MS / DUP	
3	GW 3	7/11/2024	1030	X		X	X	X	X	X	X					4		
4	GW 4	7/11/2024	1115	X		X	X	X	X	X	X					4		
5	X1	7/11/2024	NA	X		X	X	X	X	X	X					4		
6	TB	7/11/2024	NA	X		X	X	X	X	X	X					4		
7	RB	7/11/2024	NA	X		X	X	X	X	X	X					4		
8	FB	7/11/2024	NA	X		X	X	X	X	X	X					4		
																34	Total # of Eskies:	3

Relinquished by	S.Mueller
Organisation	WS&W
Date	7/11/2024
Time	1230
Signature	

Total # of Containers:	
Received by	
Organisation	
Date	7/11
Time	1470
Condition upon reciept	

Notes:

Quote #:

Environmental Division
Perth
Work Order Reference
EP2416670

Telephone : -- 61-8-9406 1301

CERTIFICATE OF ANALYSIS

Work Order	: **EP2416670**	Page	: 1 of 23
Client	: **West Soil & Water**	Laboratory	: Environmental Division Perth
Contact	: Sam Mueller	Contact	: Bethany Hatter
Address	: 3/194 Holbeck Street Doubleview 6018	Address	: 26 Rigali Way Wangara WA Australia 6065
Telephone	: ----	Telephone	: +61-8-9406 1301
Project	: 2024_147 Burswood Road Additional Investigation	Date Samples Received	: 07-Nov-2024 14:30
Order number	: 147-BR	Date Analysis Commenced	: 12-Nov-2024
C-O-C number	: ----	Issue Date	: 15-Nov-2024 22:19
Sampler	: ----		
Site	: 147 Burswood Rd		
Quote number	: WA Custom Rates		
No. of samples received	: 8		
No. of samples analysed	: 8		

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*
Canhuang Ke	Inorganics Supervisor	Perth Inorganics, Wangara, WA
David Viner	SENIOR LAB TECH	Perth Organics, Wangara, WA
Efua Wilson	Metals Chemist	Perth Inorganics, Wangara, WA
John Horwood	Organic Supervisor	Perth Organics, Wangara, WA

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.

- EP075 (SIM): Where reported, 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.
- EP075: Where reported, 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.
- EP068: Where reported, Total Chlordane (sum) is the sum of the reported concentrations of cis-Chlordane and trans-Chlordane at or above the LOR.
- EP080: Where reported, Total Xylenes is the sum of the reported concentrations of m&p-Xylene and o-Xylene at or above the 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.
- EP075: Poor surrogate recoveries for sample "EP2416670-005" due to suspected matrix interferences.
- EP075: Some of the analytes in the LCS fall outside of the ALS dynamic control limits. The noted analytes have been detected at <LOR for the samples, therefore no further action required.
- EG020: Metals LOR for samples raised due to possible matrix interference.
- EP075: Where reported, 'Sum of PAH' is the sum of the USEPA 16 priority PAHs

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	GW 1	GW 2	GW 3	GW 4	X1
				Sampling date / time	07-Nov-2024 08:30	07-Nov-2024 09:30	07-Nov-2024 10:30	07-Nov-2024 11:15	07-Nov-2024 00:00
Compound	CAS Number	LOR	Unit		EP2416670-001	EP2416670-002	EP2416670-003	EP2416670-004	EP2416670-005
					Result	Result	Result	Result	Result
EG020F: Dissolved Metals by ICP-MS									
Arsenic	7440-38-2	0.001	mg/L		<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium	7440-43-9	0.0001	mg/L		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Chromium	7440-47-3	0.001	mg/L		<0.001	<0.001	<0.001	<0.001	<0.001
Copper	7440-50-8	0.001	mg/L		<0.001	<0.001	<0.001	<0.001	<0.001
Lead	7439-92-1	0.001	mg/L		<0.001	<0.001	<0.001	<0.001	<0.001
Nickel	7440-02-0	0.001	mg/L		<0.001	<0.001	<0.001	**0.002**	<0.001
Zinc	7440-66-6	0.005	mg/L		<0.005	**0.008**	**0.005**	**0.010**	**0.007**
EG035F: Dissolved Mercury by FIMS									
Mercury	7439-97-6	0.0001	mg/L		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
EP068A: Organochlorine Pesticides (OC)									
alpha-BHC	319-84-6	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
Hexachlorobenzene (HCB)	118-74-1	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
beta-BHC	319-85-7	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
gamma-BHC - (Lindane)	58-89-9	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
delta-BHC	319-86-8	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
Heptachlor	76-44-8	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
Aldrin	309-00-2	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
Heptachlor epoxide	1024-57-3	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
trans-Chlordane	5103-74-2	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
alpha-Endosulfan	959-98-8	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
cis-Chlordane	5103-71-9	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
Dieldrin	60-57-1	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
4.4`-DDE	72-55-9	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
Endrin	72-20-8	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
beta-Endosulfan	33213-65-9	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
4.4`-DDD	72-54-8	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
Endrin aldehyde	7421-93-4	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	GW 1	GW 2	GW 3	GW 4	X1
				Sampling date / time	07-Nov-2024 08:30	07-Nov-2024 09:30	07-Nov-2024 10:30	07-Nov-2024 11:15	07-Nov-2024 00:00
Compound	CAS Number	LOR	Unit		EP2416670-001	EP2416670-002	EP2416670-003	EP2416670-004	EP2416670-005
					Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued									
Endosulfan sulfate	1031-07-8	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
4.4`-DDT	50-29-3	2.0	µg/L		<2.0	<2.0	<2.0	<2.0	<2.0
Endrin ketone	53494-70-5	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
Methoxychlor	72-43-5	2.0	µg/L		<2.0	<2.0	<2.0	<2.0	<2.0
^ Total Chlordane (sum)	----	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
EP068B: Organophosphorus Pesticides (OP)									
Dichlorvos	62-73-7	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
Demeton-S-methyl	919-86-8	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
Monocrotophos	6923-22-4	2.0	µg/L		<2.0	<2.0	<2.0	<2.0	<2.0
Dimethoate	60-51-5	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon	333-41-5	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
Chlorpyrifos-methyl	5598-13-0	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
Parathion-methyl	298-00-0	2.0	µg/L		<2.0	<2.0	<2.0	<2.0	<2.0
Malathion	121-75-5	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
Fenthion	55-38-9	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
Chlorpyrifos	2921-88-2	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
Parathion	56-38-2	2.0	µg/L		<2.0	<2.0	<2.0	<2.0	<2.0
Pirimphos-ethyl	23505-41-1	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
Chlorfenvinphos	470-90-6	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
Bromophos-ethyl	4824-78-6	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
Fenamiphos	22224-92-6	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
Prothiofos	34643-46-4	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	563-12-2	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
Carbophenothion	786-19-6	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	GW 1	GW 2	GW 3	GW 4	X1
				Sampling date / time	07-Nov-2024 08:30	07-Nov-2024 09:30	07-Nov-2024 10:30	07-Nov-2024 11:15	07-Nov-2024 00:00
Compound	CAS Number	LOR	Unit		EP2416670-001	EP2416670-002	EP2416670-003	EP2416670-004	EP2416670-005
					Result	Result	Result	Result	Result
EP068B: Organophosphorus Pesticides (OP) - Continued									
Azinphos Methyl	86-50-0	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Acenaphthylene	208-96-8	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Acenaphthene	83-32-9	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Fluorene	86-73-7	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Phenanthrene	85-01-8	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Anthracene	120-12-7	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Fluoranthene	206-44-0	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Pyrene	129-00-0	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Benz(a)anthracene	56-55-3	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Chrysene	218-01-9	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(b+j)fluoranthene	205-99-2 205-82-3	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(k)fluoranthene	207-08-9	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(a)pyrene	50-32-8	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Dibenz(a.h)anthracene	53-70-3	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(g.h.i)perylene	191-24-2	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
EP075A: Phenolic Compounds									
Phenol	108-95-2	2	µg/L		<2	<2	<2	<2	<2
2-Chlorophenol	95-57-8	2	µg/L		<2	<2	<2	<2	<2
2-Methylphenol	95-48-7	2	µg/L		<2	<2	<2	<2	<2
3- & 4-Methylphenol	1319-77-3	4	µg/L		<4	<4	<4	<4	<4
2-Nitrophenol	88-75-5	2	µg/L		<2	<2	<2	<2	<2
2.4-Dimethylphenol	105-67-9	2	µg/L		<2	<2	<2	<2	<2

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	GW 1	GW 2	GW 3	GW 4	X1
				Sampling date / time	07-Nov-2024 08:30	07-Nov-2024 09:30	07-Nov-2024 10:30	07-Nov-2024 11:15	07-Nov-2024 00:00
Compound	CAS Number	LOR	Unit		EP2416670-001	EP2416670-002	EP2416670-003	EP2416670-004	EP2416670-005
					Result	Result	Result	Result	Result
EP075A: Phenolic Compounds - Continued									
2.4-Dichlorophenol	120-83-2	2	µg/L		<2	<2	<2	<2	<2
2.6-Dichlorophenol	87-65-0	2	µg/L		<2	<2	<2	<2	<2
4-Chloro-3-methylphenol	59-50-7	2	µg/L		<2	<2	<2	<2	<2
2.4.6-Trichlorophenol	88-06-2	2	µg/L		<2	<2	<2	<2	<2
2.4.5-Trichlorophenol	95-95-4	2	µg/L		<2	<2	<2	<2	<2
Pentachlorophenol	87-86-5	4	µg/L		<4	<4	<4	<4	<4
EP075B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	2	µg/L		<2	<2	<2	<2	<2
2-Methylnaphthalene	91-57-6	2	µg/L		<2	<2	<2	<2	<2
2-Chloronaphthalene	91-58-7	2	µg/L		<2	<2	<2	<2	<2
Acenaphthylene	208-96-8	2	µg/L		<2	<2	<2	<2	<2
Acenaphthene	83-32-9	2	µg/L		<2	<2	<2	<2	<2
Fluorene	86-73-7	2	µg/L		<2	<2	<2	<2	<2
Phenanthrene	85-01-8	2	µg/L		<2	<2	<2	<2	<2
Anthracene	120-12-7	2	µg/L		<2	<2	<2	<2	<2
Fluoranthene	206-44-0	2	µg/L		<2	<2	<2	<2	<2
Pyrene	129-00-0	2	µg/L		<2	<2	<2	<2	<2
N-2-Fluorenyl Acetamide	53-96-3	2	µg/L		<2	<2	<2	<2	<2
Benz(a)anthracene	56-55-3	2	µg/L		<2	<2	<2	<2	<2
Chrysene	218-01-9	2	µg/L		<2	<2	<2	<2	<2
Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	4	µg/L		<4	<4	<4	<4	<4
7.12-Dimethylbenz(a)anthracene	57-97-6	2	µg/L		<2	<2	<2	<2	<2
Benzo(a)pyrene	50-32-8	2	µg/L		<2	<2	<2	<2	<2
3-Methylcholanthrene	56-49-5	2	µg/L		<2	<2	<2	<2	<2
Indeno(1.2.3.cd)pyrene	193-39-5	2	µg/L		<2	<2	<2	<2	<2
Dibenz(a.h)anthracene	53-70-3	2	µg/L		<2	<2	<2	<2	<2

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	GW 1	GW 2	GW 3	GW 4	X1
				Sampling date / time	07-Nov-2024 08:30	07-Nov-2024 09:30	07-Nov-2024 10:30	07-Nov-2024 11:15	07-Nov-2024 00:00
Compound	CAS Number	LOR	Unit		EP2416670-001	EP2416670-002	EP2416670-003	EP2416670-004	EP2416670-005
					Result	Result	Result	Result	Result
EP075B: Polynuclear Aromatic Hydrocarbons - Continued									
Benzo(g.h.i)perylene	191-24-2	2	µg/L		<2	<2	<2	<2	<2
^ Sum of PAHs	----	2	µg/L		<2	<2	<2	<2	<2
^ Benzo(a)pyrene TEQ (zero)	----	2	µg/L		<2	<2	<2	<2	<2
EP075C: Phthalate Esters									
Dimethyl phthalate	131-11-3	2	µg/L		<2	<2	<2	<2	<2
Diethyl phthalate	84-66-2	2	µg/L		<2	<2	<2	<2	<2
Di-n-butyl phthalate	84-74-2	2	µg/L		<2	<2	<2	<2	<2
Butyl benzyl phthalate	85-68-7	2	µg/L		<2	<2	<2	<2	<2
bis(2-ethylhexyl) phthalate	117-81-7	10	µg/L		<10	<10	<10	<10	<10
Di-n-octylphthalate	117-84-0	2	µg/L		<2	<2	<2	<2	<2
EP075D: Nitrosamines									
N-Nitrosomethylethylamine	10595-95-6	2	µg/L		<2	<2	<2	<2	<2
N-Nitrosodiethylamine	55-18-5	2	µg/L		<2	<2	<2	<2	<2
N-Nitrosopyrrolidine	930-55-2	4	µg/L		<4	<4	<4	<4	<4
N-Nitrosomorpholine	59-89-2	2	µg/L		<2	<2	<2	<2	<2
N-Nitrosodi-n-propylamine	621-64-7	2	µg/L		<2	<2	<2	<2	<2
N-Nitrosopiperidine	100-75-4	2	µg/L		<2	<2	<2	<2	<2
N-Nitrosodibutylamine	924-16-3	2	µg/L		<2	<2	<2	<2	<2
N-Nitrosodiphenyl & Diphenylamine	86-30-6 122-39-4	4	µg/L		<4	<4	<4	<4	<4
Methapyrilene	91-80-5	2	µg/L		<2	<2	<2	<2	<2
EP075E: Nitroaromatics and Ketones									
2-Picoline	109-06-8	2	µg/L		<2	<2	<2	<2	<2
Acetophenone	98-86-2	2	µg/L		<2	<2	<2	<2	<2
Nitrobenzene	98-95-3	2	µg/L		<2	<2	<2	<2	<2
Isophorone	78-59-1	2	µg/L		<2	<2	<2	<2	<2
2.6-Dinitrotoluene	606-20-2	4	µg/L		<4	<4	<4	<4	<4

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	GW 1	GW 2	GW 3	GW 4	X1
				Sampling date / time	07-Nov-2024 08:30	07-Nov-2024 09:30	07-Nov-2024 10:30	07-Nov-2024 11:15	07-Nov-2024 00:00
Compound	CAS Number	LOR	Unit		EP2416670-001	EP2416670-002	EP2416670-003	EP2416670-004	EP2416670-005
					Result	Result	Result	Result	Result
EP075E: Nitroaromatics and Ketones - Continued									
2.4-Dinitrotoluene	121-14-2	4	µg/L		<4	<4	<4	<4	<4
1-Naphthylamine	134-32-7	2	µg/L		<2	<2	<2	<2	<2
4-Nitroquinoline-N-oxide	56-57-5	2	µg/L		<2	<2	<2	<2	<2
5-Nitro-o-toluidine	99-55-8	2	µg/L		<2	<2	<2	<2	<2
Azobenzene	103-33-3	2	µg/L		<2	<2	<2	<2	<2
1.3.5-Trinitrobenzene	99-35-4	2	µg/L		<2	<2	<2	<2	<2
Phenacetin	62-44-2	2	µg/L		<2	<2	<2	<2	<2
4-Aminobiphenyl	92-67-1	2	µg/L		<2	<2	<2	<2	<2
Pentachloronitrobenzene	82-68-8	2	µg/L		<2	<2	<2	<2	<2
Pronamide	23950-58-5	2	µg/L		<2	<2	<2	<2	<2
Dimethylaminoazobenzene	60-11-7	2	µg/L		<2	<2	<2	<2	<2
Chlorobenzilate	510-15-6	2	µg/L		<2	<2	<2	<2	<2
EP075F: Haloethers									
Bis(2-chloroethyl) ether	111-44-4	2	µg/L		<2	<2	<2	<2	<2
Bis(2-chloroethoxy) methane	111-91-1	2	µg/L		<2	<2	<2	<2	<2
4-Chlorophenyl phenyl ether	7005-72-3	2	µg/L		<2	<2	<2	<2	<2
4-Bromophenyl phenyl ether	101-55-3	2	µg/L		<2	<2	<2	<2	<2
EP075G: Chlorinated Hydrocarbons									
1.3-Dichlorobenzene	541-73-1	2	µg/L		<2	<2	<2	<2	<2
1.4-Dichlorobenzene	106-46-7	2	µg/L		<2	<2	<2	<2	<2
1.2-Dichlorobenzene	95-50-1	2	µg/L		<2	<2	<2	<2	<2
Hexachloroethane	67-72-1	2	µg/L		<2	<2	<2	<2	<2
1.2.4-Trichlorobenzene	120-82-1	2	µg/L		<2	<2	<2	<2	<2
Hexachloropropylene	1888-71-7	2	µg/L		<2	<2	<2	<2	<2
Hexachlorobutadiene	87-68-3	2	µg/L		<2	<2	<2	<2	<2
Hexachlorocyclopentadiene	77-47-4	10	µg/L		<10	<10	<10	<10	<10
Pentachlorobenzene	608-93-5	2	µg/L		<2	<2	<2	<2	<2

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	GW 1	GW 2	GW 3	GW 4	X1
				Sampling date / time	07-Nov-2024 08:30	07-Nov-2024 09:30	07-Nov-2024 10:30	07-Nov-2024 11:15	07-Nov-2024 00:00
Compound	CAS Number	LOR	Unit		EP2416670-001	EP2416670-002	EP2416670-003	EP2416670-004	EP2416670-005
					Result	Result	Result	Result	Result
EP075G: Chlorinated Hydrocarbons - Continued									
Hexachlorobenzene (HCB)	118-74-1	4	µg/L		<4	<4	<4	<4	<4
EP075H: Anilines and Benzidines									
Aniline	62-53-3	2	µg/L		<2	<2	<2	<2	<2
4-Chloroaniline	106-47-8	2	µg/L		<2	<2	<2	<2	<2
2-Nitroaniline	88-74-4	4	µg/L		<4	<4	<4	<4	<4
3-Nitroaniline	99-09-2	4	µg/L		<4	<4	<4	<4	<4
Dibenzofuran	132-64-9	2	µg/L		<2	<2	<2	<2	<2
4-Nitroaniline	100-01-6	2	µg/L		<2	<2	<2	<2	<2
Carbazole	86-74-8	2	µg/L		<2	<2	<2	<2	<2
3.3`-Dichlorobenzidine	91-94-1	2	µg/L		<2	<2	<2	<2	<2
EP075I: Organochlorine Pesticides									
alpha-BHC	319-84-6	2	µg/L		<2	<2	<2	<2	<2
beta-BHC	319-85-7	2	µg/L		<2	<2	<2	<2	<2
gamma-BHC - (Lindane)	58-89-9	2	µg/L		<2	<2	<2	<2	<2
delta-BHC	319-86-8	2	µg/L		<2	<2	<2	<2	<2
Heptachlor	76-44-8	2	µg/L		<2	<2	<2	<2	<2
Aldrin	309-00-2	2	µg/L		<2	<2	<2	<2	<2
Heptachlor epoxide	1024-57-3	2	µg/L		<2	<2	<2	<2	<2
alpha-Endosulfan	959-98-8	2	µg/L		<2	<2	<2	<2	<2
4.4`-DDE	72-55-9	2	µg/L		<2	<2	<2	<2	<2
Dieldrin	60-57-1	2	µg/L		<2	<2	<2	<2	<2
Endrin	72-20-8	2	µg/L		<2	<2	<2	<2	<2
beta-Endosulfan	33213-65-9	2	µg/L		<2	<2	<2	<2	<2
4.4`-DDD	72-54-8	2	µg/L		<2	<2	<2	<2	<2
Endosulfan sulfate	1031-07-8	2	µg/L		<2	<2	<2	<2	<2
4.4`-DDT	50-29-3	4	µg/L		<4	<4	<4	<4	<4
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	4	µg/L		<4	<4	<4	<4	<4

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	GW 1	GW 2	GW 3	GW 4	X1
			Sampling date / time	07-Nov-2024 08:30	07-Nov-2024 09:30	07-Nov-2024 10:30	07-Nov-2024 11:15	07-Nov-2024 00:00
Compound	CAS Number	LOR	Unit	EP2416670-001	EP2416670-002	EP2416670-003	EP2416670-004	EP2416670-005
				Result	Result	Result	Result	Result
EP075I: Organochlorine Pesticides - Continued								
^ **Sum of DDD + DDE + DDT**	72-54-8/72-55-9/50-2	4	µg/L	<4	<4	<4	<4	<4
EP075J: Organophosphorus Pesticides								
Dichlorvos	62-73-7	2	µg/L	<2	<2	<2	<2	<2
Dimethoate	60-51-5	2	µg/L	<2	<2	<2	<2	<2
Diazinon	333-41-5	2	µg/L	<2	<2	<2	<2	<2
Chlorpyrifos-methyl	5598-13-0	2	µg/L	<2	<2	<2	<2	<2
Malathion	121-75-5	2	µg/L	<2	<2	<2	<2	<2
Fenthion	55-38-9	2	µg/L	<2	<2	<2	<2	<2
Chlorpyrifos	2921-88-2	2	µg/L	<2	<2	<2	<2	<2
Pirimphos-ethyl	23505-41-1	2	µg/L	<2	<2	<2	<2	<2
Chlorfenvinphos	470-90-6	2	µg/L	<2	<2	<2	<2	<2
Prothiofos	34643-46-4	2	µg/L	<2	<2	<2	<2	<2
Ethion	563-12-2	2	µg/L	<2	<2	<2	<2	<2
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	20	µg/L	<20	<20	<20	<20	<20
C10 - C14 Fraction	----	50	µg/L	<50	<50	<50	<50	<50
C15 - C28 Fraction	----	100	µg/L	<100	<100	<100	<100	<100
C29 - C36 Fraction	----	50	µg/L	<50	<50	<50	<50	<50
^ **C10 - C36 Fraction (sum)**	----	50	µg/L	<50	<50	<50	<50	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	20	µg/L	<20	<20	<20	<20	<20
^ **C6 - C10 Fraction minus BTEX (F1)**	C6_C10-BTEX	20	µg/L	<20	<20	<20	<20	<20
>C10 - C16 Fraction	----	100	µg/L	<100	<100	<100	<100	<100
>C16 - C34 Fraction	----	100	µg/L	<100	<100	<100	<100	<100
>C34 - C40 Fraction	----	100	µg/L	<100	<100	<100	<100	<100
^ **>C10 - C40 Fraction (sum)**	----	100	µg/L	<100	<100	<100	<100	<100

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	GW 1	GW 2	GW 3	GW 4	X1
				Sampling date / time	07-Nov-2024 08:30	07-Nov-2024 09:30	07-Nov-2024 10:30	07-Nov-2024 11:15	07-Nov-2024 00:00
Compound	CAS Number	LOR	Unit		EP2416670-001	EP2416670-002	EP2416670-003	EP2416670-004	EP2416670-005
					Result	Result	Result	Result	Result
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions - Continued									
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	100	µg/L		<100	<100	<100	<100	<100
EP080: BTEXN									
Benzene	71-43-2	1	µg/L		<1	<1	<1	<1	<1
Toluene	108-88-3	2	µg/L		<2	<2	<2	<2	<2
Ethylbenzene	100-41-4	2	µg/L		<2	<2	<2	<2	<2
meta- & para-Xylene	108-38-3 106-42-3	2	µg/L		<2	<2	<2	<2	<2
ortho-Xylene	95-47-6	2	µg/L		<2	<2	<2	<2	<2
^ Total Xylenes	----	2	µg/L		<2	<2	<2	<2	<2
^ Sum of BTEX	----	1	µg/L		<1	<1	<1	<1	<1
Naphthalene	91-20-3	5	µg/L		<5	<5	<5	<5	<5
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.5	%		**50.6**	**62.6**	**65.1**	**54.5**	**56.2**
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.5	%		**50.2**	**54.4**	**60.5**	**53.4**	**53.5**
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	1.0	%		**23.9**	**26.9**	**25.9**	**22.2**	**19.5**
2-Chlorophenol-D4	93951-73-6	1.0	%		**61.8**	**65.8**	**65.9**	**58.6**	**47.4**
2.4.6-Tribromophenol	118-79-6	1.0	%		**65.9**	**79.6**	**74.9**	**67.1**	**69.2**
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	1.0	%		**66.6**	**71.5**	**70.9**	**63.5**	**51.7**
Anthracene-d10	1719-06-8	1.0	%		**69.2**	**80.4**	**78.4**	**69.4**	**74.8**
4-Terphenyl-d14	1718-51-0	1.0	%		**78.1**	**91.9**	**93.8**	**80.0**	**81.2**
EP075S: Acid Extractable Surrogates									
2-Fluorophenol	367-12-4	2	%		**31.4**	**35.6**	**33.2**	**30.0**	**27.9**
Phenol-d6	13127-88-3	2	%		**19.2**	**20.2**	**21.0**	**17.7**	**16.9**
2-Chlorophenol-D4	93951-73-6	2	%		**50.1**	**52.6**	**54.0**	**46.8**	**42.4**
2.4.6-Tribromophenol	118-79-6	2	%		**48.8**	**44.7**	**59.4**	**48.6**	**51.4**

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	GW 1	GW 2	GW 3	GW 4	X1
				Sampling date / time	07-Nov-2024 08:30	07-Nov-2024 09:30	07-Nov-2024 10:30	07-Nov-2024 11:15	07-Nov-2024 00:00
Compound	CAS Number	LOR	Unit		EP2416670-001	EP2416670-002	EP2416670-003	EP2416670-004	EP2416670-005
					Result	Result	Result	Result	Result
EP075T: Base/Neutral Extractable Surrogates									
Nitrobenzene-D5	4165-60-0	2	%		**54.4**	**54.2**	**60.1**	**53.0**	**50.3**
1.2-Dichlorobenzene-D4	2199-69-1	2	%		**48.0**	**50.0**	**51.2**	**45.8**	**39.2**
2-Fluorobiphenyl	321-60-8	2	%		**51.2**	**52.0**	**53.3**	**48.1**	**41.1**
Anthracene-d10	1719-06-8	2	%		**56.7**	**64.5**	**65.6**	**54.9**	**71.1**
4-Terphenyl-d14	1718-51-0	2	%		**81.2**	**93.9**	**95.8**	**79.8**	**98.9**
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	2	%		**115**	**121**	**118**	**117**	**128**
Toluene-D8	2037-26-5	2	%		**104**	**102**	**115**	**103**	**101**
4-Bromofluorobenzene	460-00-4	2	%		**108**	**105**	**114**	**105**	**110**

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	TB	RB	FB	----	----
			Sampling date / time	07-Nov-2024 00:00	07-Nov-2024 00:00	07-Nov-2024 00:00	----	----
Compound	CAS Number	LOR	Unit	EP2416670-006	EP2416670-007	EP2416670-008	--------	--------
				Result	Result	Result	----	----
EG020F: Dissolved Metals by ICP-MS								
Arsenic	7440-38-2	0.001	mg/L	<0.001	<0.001	<0.001	----	----
Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	<0.0001	----	----
Chromium	7440-47-3	0.001	mg/L	<0.001	<0.001	<0.001	----	----
Copper	7440-50-8	0.001	mg/L	<0.001	<0.001	<0.001	----	----
Lead	7439-92-1	0.001	mg/L	<0.001	<0.001	<0.001	----	----
Nickel	7440-02-0	0.001	mg/L	<0.001	<0.001	<0.001	----	----
Zinc	7440-66-6	0.005	mg/L	<0.005	<0.005	<0.005	----	----
EG035F: Dissolved Mercury by FIMS								
Mercury	7439-97-6	0.0001	mg/L	<0.0001	<0.0001	<0.0001	----	----
EP068A: Organochlorine Pesticides (OC)								
alpha-BHC	319-84-6	0.5	µg/L	<0.5	<0.5	<0.5	----	----
Hexachlorobenzene (HCB)	118-74-1	0.5	µg/L	<0.5	<0.5	<0.5	----	----
beta-BHC	319-85-7	0.5	µg/L	<0.5	<0.5	<0.5	----	----
gamma-BHC - (Lindane)	58-89-9	0.5	µg/L	<0.5	<0.5	<0.5	----	----
delta-BHC	319-86-8	0.5	µg/L	<0.5	<0.5	<0.5	----	----
Heptachlor	76-44-8	0.5	µg/L	<0.5	<0.5	<0.5	----	----
Aldrin	309-00-2	0.5	µg/L	<0.5	<0.5	<0.5	----	----
Heptachlor epoxide	1024-57-3	0.5	µg/L	<0.5	<0.5	<0.5	----	----
trans-Chlordane	5103-74-2	0.5	µg/L	<0.5	<0.5	<0.5	----	----
alpha-Endosulfan	959-98-8	0.5	µg/L	<0.5	<0.5	<0.5	----	----
cis-Chlordane	5103-71-9	0.5	µg/L	<0.5	<0.5	<0.5	----	----
Dieldrin	60-57-1	0.5	µg/L	<0.5	<0.5	<0.5	----	----
4.4`-DDE	72-55-9	0.5	µg/L	<0.5	<0.5	<0.5	----	----
Endrin	72-20-8	0.5	µg/L	<0.5	<0.5	<0.5	----	----
beta-Endosulfan	33213-65-9	0.5	µg/L	<0.5	<0.5	<0.5	----	----
4.4`-DDD	72-54-8	0.5	µg/L	<0.5	<0.5	<0.5	----	----
Endrin aldehyde	7421-93-4	0.5	µg/L	<0.5	<0.5	<0.5	----	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	TB	RB	FB	----	----
				Sampling date / time	07-Nov-2024 00:00	07-Nov-2024 00:00	07-Nov-2024 00:00	----	----
Compound	CAS Number	LOR	Unit		EP2416670-006	EP2416670-007	EP2416670-008	--------	--------
					Result	Result	Result	----	----
EP068A: Organochlorine Pesticides (OC) - Continued									
Endosulfan sulfate	1031-07-8	0.5	µg/L		<0.5	<0.5	<0.5	----	----
4.4`-DDT	50-29-3	2.0	µg/L		<2.0	<2.0	<2.0	----	----
Endrin ketone	53494-70-5	0.5	µg/L		<0.5	<0.5	<0.5	----	----
Methoxychlor	72-43-5	2.0	µg/L		<2.0	<2.0	<2.0	----	----
^ **Total Chlordane (sum)**	----	0.5	µg/L		<0.5	<0.5	<0.5	----	----
^ **Sum of DDD + DDE + DDT**	72-54-8/72-55-9/50-2	0.5	µg/L		<0.5	<0.5	<0.5	----	----
^ **Sum of Aldrin + Dieldrin**	309-00-2/60-57-1	0.5	µg/L		<0.5	<0.5	<0.5	----	----
EP068B: Organophosphorus Pesticides (OP)									
Dichlorvos	62-73-7	0.5	µg/L		<0.5	<0.5	<0.5	----	----
Demeton-S-methyl	919-86-8	0.5	µg/L		<0.5	<0.5	<0.5	----	----
Monocrotophos	6923-22-4	2.0	µg/L		<2.0	<2.0	<2.0	----	----
Dimethoate	60-51-5	0.5	µg/L		<0.5	<0.5	<0.5	----	----
Diazinon	333-41-5	0.5	µg/L		<0.5	<0.5	<0.5	----	----
Chlorpyrifos-methyl	5598-13-0	0.5	µg/L		<0.5	<0.5	<0.5	----	----
Parathion-methyl	298-00-0	2.0	µg/L		<2.0	<2.0	<2.0	----	----
Malathion	121-75-5	0.5	µg/L		<0.5	<0.5	<0.5	----	----
Fenthion	55-38-9	0.5	µg/L		<0.5	<0.5	<0.5	----	----
Chlorpyrifos	2921-88-2	0.5	µg/L		<0.5	<0.5	<0.5	----	----
Parathion	56-38-2	2.0	µg/L		<2.0	<2.0	<2.0	----	----
Pirimphos-ethyl	23505-41-1	0.5	µg/L		<0.5	<0.5	<0.5	----	----
Chlorfenvinphos	470-90-6	0.5	µg/L		<0.5	<0.5	<0.5	----	----
Bromophos-ethyl	4824-78-6	0.5	µg/L		<0.5	<0.5	<0.5	----	----
Fenamiphos	22224-92-6	0.5	µg/L		<0.5	<0.5	<0.5	----	----
Prothiofos	34643-46-4	0.5	µg/L		<0.5	<0.5	<0.5	----	----
Ethion	563-12-2	0.5	µg/L		<0.5	<0.5	<0.5	----	----
Carbophenothion	786-19-6	0.5	µg/L		<0.5	<0.5	<0.5	----	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	TB	RB	FB	----	----
				Sampling date / time	07-Nov-2024 00:00	07-Nov-2024 00:00	07-Nov-2024 00:00	----	----
Compound	CAS Number	LOR	Unit		EP2416670-006	EP2416670-007	EP2416670-008	--------	--------
					Result	Result	Result	----	----
EP068B: Organophosphorus Pesticides (OP) - Continued									
Azinphos Methyl	86-50-0	0.5	µg/L		<0.5	<0.5	<0.5	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	1.0	µg/L		<1.0	<1.0	<1.0	----	----
Acenaphthylene	208-96-8	1.0	µg/L		<1.0	<1.0	<1.0	----	----
Acenaphthene	83-32-9	1.0	µg/L		<1.0	<1.0	<1.0	----	----
Fluorene	86-73-7	1.0	µg/L		<1.0	<1.0	<1.0	----	----
Phenanthrene	85-01-8	1.0	µg/L		<1.0	<1.0	<1.0	----	----
Anthracene	120-12-7	1.0	µg/L		<1.0	<1.0	<1.0	----	----
Fluoranthene	206-44-0	1.0	µg/L		<1.0	<1.0	<1.0	----	----
Pyrene	129-00-0	1.0	µg/L		<1.0	<1.0	<1.0	----	----
Benz(a)anthracene	56-55-3	1.0	µg/L		<1.0	<1.0	<1.0	----	----
Chrysene	218-01-9	1.0	µg/L		<1.0	<1.0	<1.0	----	----
Benzo(b+j)fluoranthene	205-99-2 205-82-3	1.0	µg/L		<1.0	<1.0	<1.0	----	----
Benzo(k)fluoranthene	207-08-9	1.0	µg/L		<1.0	<1.0	<1.0	----	----
Benzo(a)pyrene	50-32-8	0.5	µg/L		<0.5	<0.5	<0.5	----	----
Indeno(1.2.3.cd)pyrene	193-39-5	1.0	µg/L		<1.0	<1.0	<1.0	----	----
Dibenz(a.h)anthracene	53-70-3	1.0	µg/L		<1.0	<1.0	<1.0	----	----
Benzo(g.h.i)perylene	191-24-2	1.0	µg/L		<1.0	<1.0	<1.0	----	----
^ **Sum of polycyclic aromatic hydrocarbons**	----	0.5	µg/L		<0.5	<0.5	<0.5	----	----
^ **Benzo(a)pyrene TEQ (zero)**	----	0.5	µg/L		<0.5	<0.5	<0.5	----	----
EP075A: Phenolic Compounds									
Phenol	108-95-2	2	µg/L		<2	<2	<2	----	----
2-Chlorophenol	95-57-8	2	µg/L		<2	<2	<2	----	----
2-Methylphenol	95-48-7	2	µg/L		<2	<2	<2	----	----
3- & 4-Methylphenol	1319-77-3	4	µg/L		<4	<4	<4	----	----
2-Nitrophenol	88-75-5	2	µg/L		<2	<2	<2	----	----
2.4-Dimethylphenol	105-67-9	2	µg/L		<2	<2	<2	----	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	TB	RB	FB	----	----
				Sampling date / time	07-Nov-2024 00:00	07-Nov-2024 00:00	07-Nov-2024 00:00	----	----
Compound	CAS Number	LOR	Unit		EP2416670-006	EP2416670-007	EP2416670-008	--------	--------
					Result	Result	Result	----	----
EP075A: Phenolic Compounds - Continued									
2.4-Dichlorophenol	120-83-2	2	µg/L		<2	<2	<2	----	----
2.6-Dichlorophenol	87-65-0	2	µg/L		<2	<2	<2	----	----
4-Chloro-3-methylphenol	59-50-7	2	µg/L		<2	<2	<2	----	----
2.4.6-Trichlorophenol	88-06-2	2	µg/L		<2	<2	<2	----	----
2.4.5-Trichlorophenol	95-95-4	2	µg/L		<2	<2	<2	----	----
Pentachlorophenol	87-86-5	4	µg/L		<4	<4	<4	----	----
EP075B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	2	µg/L		<2	<2	<2	----	----
2-Methylnaphthalene	91-57-6	2	µg/L		<2	<2	<2	----	----
2-Chloronaphthalene	91-58-7	2	µg/L		<2	<2	<2	----	----
Acenaphthylene	208-96-8	2	µg/L		<2	<2	<2	----	----
Acenaphthene	83-32-9	2	µg/L		<2	<2	<2	----	----
Fluorene	86-73-7	2	µg/L		<2	<2	<2	----	----
Phenanthrene	85-01-8	2	µg/L		<2	<2	<2	----	----
Anthracene	120-12-7	2	µg/L		<2	<2	<2	----	----
Fluoranthene	206-44-0	2	µg/L		<2	<2	<2	----	----
Pyrene	129-00-0	2	µg/L		<2	<2	<2	----	----
N-2-Fluorenyl Acetamide	53-96-3	2	µg/L		<2	<2	<2	----	----
Benz(a)anthracene	56-55-3	2	µg/L		<2	<2	<2	----	----
Chrysene	218-01-9	2	µg/L		<2	<2	<2	----	----
Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	4	µg/L		<4	<4	<4	----	----
7.12-Dimethylbenz(a)anthracene	57-97-6	2	µg/L		<2	<2	<2	----	----
Benzo(a)pyrene	50-32-8	2	µg/L		<2	<2	<2	----	----
3-Methylcholanthrene	56-49-5	2	µg/L		<2	<2	<2	----	----
Indeno(1.2.3.cd)pyrene	193-39-5	2	µg/L		<2	<2	<2	----	----
Dibenz(a.h)anthracene	53-70-3	2	µg/L		<2	<2	<2	----	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	TB	RB	FB	----	----
				Sampling date / time	07-Nov-2024 00:00	07-Nov-2024 00:00	07-Nov-2024 00:00	----	----
Compound	CAS Number	LOR	Unit		EP2416670-006	EP2416670-007	EP2416670-008	--------	--------
					Result	Result	Result	----	----
EP075B: Polynuclear Aromatic Hydrocarbons - Continued									
Benzo(g.h.i)perylene	191-24-2	2	µg/L		<2	<2	<2	----	----
^ **Sum of PAHs**	----	2	µg/L		<2	<2	<2	----	----
^ **Benzo(a)pyrene TEQ (zero)**	----	2	µg/L		<2	<2	<2	----	----
EP075C: Phthalate Esters									
Dimethyl phthalate	131-11-3	2	µg/L		<2	<2	<2	----	----
Diethyl phthalate	84-66-2	2	µg/L		<2	<2	<2	----	----
Di-n-butyl phthalate	84-74-2	2	µg/L		<2	<2	<2	----	----
Butyl benzyl phthalate	85-68-7	2	µg/L		<2	<2	<2	----	----
bis(2-ethylhexyl) phthalate	117-81-7	10	µg/L		<10	<10	<10	----	----
Di-n-octylphthalate	117-84-0	2	µg/L		<2	<2	<2	----	----
EP075D: Nitrosamines									
N-Nitrosomethylethylamine	10595-95-6	2	µg/L		<2	<2	<2	----	----
N-Nitrosodiethylamine	55-18-5	2	µg/L		<2	<2	<2	----	----
N-Nitrosopyrrolidine	930-55-2	4	µg/L		<4	<4	<4	----	----
N-Nitrosomorpholine	59-89-2	2	µg/L		<2	<2	<2	----	----
N-Nitrosodi-n-propylamine	621-64-7	2	µg/L		<2	<2	<2	----	----
N-Nitrosopiperidine	100-75-4	2	µg/L		<2	<2	<2	----	----
N-Nitrosodibutylamine	924-16-3	2	µg/L		<2	<2	<2	----	----
N-Nitrosodiphenyl & Diphenylamine	86-30-6 122-39-4	4	µg/L		<4	<4	<4	----	----
Methapyrilene	91-80-5	2	µg/L		<2	<2	<2	----	----
EP075E: Nitroaromatics and Ketones									
2-Picoline	109-06-8	2	µg/L		<2	<2	<2	----	----
Acetophenone	98-86-2	2	µg/L		<2	<2	<2	----	----
Nitrobenzene	98-95-3	2	µg/L		<2	<2	<2	----	----
Isophorone	78-59-1	2	µg/L		<2	<2	<2	----	----
2.6-Dinitrotoluene	606-20-2	4	µg/L		<4	<4	<4	----	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	TB	RB	FB	----	----
				Sampling date / time	07-Nov-2024 00:00	07-Nov-2024 00:00	07-Nov-2024 00:00	----	----
Compound	CAS Number	LOR	Unit		EP2416670-006	EP2416670-007	EP2416670-008	--------	--------
					Result	Result	Result	----	----
EP075E: Nitroaromatics and Ketones - Continued									
2.4-Dinitrotoluene	121-14-2	4	µg/L		<4	<4	<4	----	----
1-Naphthylamine	134-32-7	2	µg/L		<2	<2	<2	----	----
4-Nitroquinoline-N-oxide	56-57-5	2	µg/L		<2	<2	<2	----	----
5-Nitro-o-toluidine	99-55-8	2	µg/L		<2	<2	<2	----	----
Azobenzene	103-33-3	2	µg/L		<2	<2	<2	----	----
1.3.5-Trinitrobenzene	99-35-4	2	µg/L		<2	<2	<2	----	----
Phenacetin	62-44-2	2	µg/L		<2	<2	<2	----	----
4-Aminobiphenyl	92-67-1	2	µg/L		<2	<2	<2	----	----
Pentachloronitrobenzene	82-68-8	2	µg/L		<2	<2	<2	----	----
Pronamide	23950-58-5	2	µg/L		<2	<2	<2	----	----
Dimethylaminoazobenzene	60-11-7	2	µg/L		<2	<2	<2	----	----
Chlorobenzilate	510-15-6	2	µg/L		<2	<2	<2	----	----
EP075F: Haloethers									
Bis(2-chloroethyl) ether	111-44-4	2	µg/L		<2	<2	<2	----	----
Bis(2-chloroethoxy) methane	111-91-1	2	µg/L		<2	<2	<2	----	----
4-Chlorophenyl phenyl ether	7005-72-3	2	µg/L		<2	<2	<2	----	----
4-Bromophenyl phenyl ether	101-55-3	2	µg/L		<2	<2	<2	----	----
EP075G: Chlorinated Hydrocarbons									
1.3-Dichlorobenzene	541-73-1	2	µg/L		<2	<2	<2	----	----
1.4-Dichlorobenzene	106-46-7	2	µg/L		<2	<2	<2	----	----
1.2-Dichlorobenzene	95-50-1	2	µg/L		<2	<2	<2	----	----
Hexachloroethane	67-72-1	2	µg/L		<2	<2	<2	----	----
1.2.4-Trichlorobenzene	120-82-1	2	µg/L		<2	<2	<2	----	----
Hexachloropropylene	1888-71-7	2	µg/L		<2	<2	<2	----	----
Hexachlorobutadiene	87-68-3	2	µg/L		<2	<2	<2	----	----
Hexachlorocyclopentadiene	77-47-4	10	µg/L		<10	<10	<10	----	----
Pentachlorobenzene	608-93-5	2	µg/L		<2	<2	<2	----	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	TB	RB	FB	----	----
				Sampling date / time	07-Nov-2024 00:00	07-Nov-2024 00:00	07-Nov-2024 00:00	----	----
Compound	CAS Number	LOR	Unit		EP2416670-006	EP2416670-007	EP2416670-008	--------	--------
					Result	Result	Result	----	----
EP075G: Chlorinated Hydrocarbons - Continued									
Hexachlorobenzene (HCB)	118-74-1	4	µg/L		<4	<4	<4	----	----
EP075H: Anilines and Benzidines									
Aniline	62-53-3	2	µg/L		<2	<2	<2	----	----
4-Chloroaniline	106-47-8	2	µg/L		<2	<2	<2	----	----
2-Nitroaniline	88-74-4	4	µg/L		<4	<4	<4	----	----
3-Nitroaniline	99-09-2	4	µg/L		<4	<4	<4	----	----
Dibenzofuran	132-64-9	2	µg/L		<2	<2	<2	----	----
4-Nitroaniline	100-01-6	2	µg/L		<2	<2	<2	----	----
Carbazole	86-74-8	2	µg/L		<2	<2	<2	----	----
3.3`-Dichlorobenzidine	91-94-1	2	µg/L		<2	<2	<2	----	----
EP075I: Organochlorine Pesticides									
alpha-BHC	319-84-6	2	µg/L		<2	<2	<2	----	----
beta-BHC	319-85-7	2	µg/L		<2	<2	<2	----	----
gamma-BHC - (Lindane)	58-89-9	2	µg/L		<2	<2	<2	----	----
delta-BHC	319-86-8	2	µg/L		<2	<2	<2	----	----
Heptachlor	76-44-8	2	µg/L		<2	<2	<2	----	----
Aldrin	309-00-2	2	µg/L		<2	<2	<2	----	----
Heptachlor epoxide	1024-57-3	2	µg/L		<2	<2	<2	----	----
alpha-Endosulfan	959-98-8	2	µg/L		<2	<2	<2	----	----
4.4`-DDE	72-55-9	2	µg/L		<2	<2	<2	----	----
Dieldrin	60-57-1	2	µg/L		<2	<2	<2	----	----
Endrin	72-20-8	2	µg/L		<2	<2	<2	----	----
beta-Endosulfan	33213-65-9	2	µg/L		<2	<2	<2	----	----
4.4`-DDD	72-54-8	2	µg/L		<2	<2	<2	----	----
Endosulfan sulfate	1031-07-8	2	µg/L		<2	<2	<2	----	----
4.4`-DDT	50-29-3	4	µg/L		<4	<4	<4	----	----
^ **Sum of Aldrin + Dieldrin**	309-00-2/60-57-1	4	µg/L		<4	<4	<4	----	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	TB	RB	FB	----	----
				Sampling date / time	07-Nov-2024 00:00	07-Nov-2024 00:00	07-Nov-2024 00:00	----	----
Compound	CAS Number	LOR	Unit		EP2416670-006	EP2416670-007	EP2416670-008	--------	--------
					Result	Result	Result	----	----
EP075I: Organochlorine Pesticides - Continued									
^ **Sum of DDD + DDE + DDT**	72-54-8/72-55-9/50-2	4	µg/L		<4	<4	<4	----	----
EP075J: Organophosphorus Pesticides									
Dichlorvos	62-73-7	2	µg/L		<2	<2	<2	----	----
Dimethoate	60-51-5	2	µg/L		<2	<2	<2	----	----
Diazinon	333-41-5	2	µg/L		<2	<2	<2	----	----
Chlorpyrifos-methyl	5598-13-0	2	µg/L		<2	<2	<2	----	----
Malathion	121-75-5	2	µg/L		<2	<2	<2	----	----
Fenthion	55-38-9	2	µg/L		<2	<2	<2	----	----
Chlorpyrifos	2921-88-2	2	µg/L		<2	<2	<2	----	----
Pirimphos-ethyl	23505-41-1	2	µg/L		<2	<2	<2	----	----
Chlorfenvinphos	470-90-6	2	µg/L		<2	<2	<2	----	----
Prothiofos	34643-46-4	2	µg/L		<2	<2	<2	----	----
Ethion	563-12-2	2	µg/L		<2	<2	<2	----	----
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	20	µg/L		<20	<20	<20	----	----
C10 - C14 Fraction	----	50	µg/L		<50	<50	<50	----	----
C15 - C28 Fraction	----	100	µg/L		<100	<100	<100	----	----
C29 - C36 Fraction	----	50	µg/L		<50	<50	<50	----	----
^ **C10 - C36 Fraction (sum)**	----	50	µg/L		<50	<50	<50	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	20	µg/L		<20	<20	<20	----	----
^ **C6 - C10 Fraction minus BTEX (F1)**	C6_C10-BTEX	20	µg/L		<20	<20	<20	----	----
>C10 - C16 Fraction	----	100	µg/L		<100	<100	<100	----	----
>C16 - C34 Fraction	----	100	µg/L		<100	<100	<100	----	----
>C34 - C40 Fraction	----	100	µg/L		<100	<100	<100	----	----
^ **>C10 - C40 Fraction (sum)**	----	100	µg/L		<100	<100	<100	----	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	TB	RB	FB	----	----
				Sampling date / time	07-Nov-2024 00:00	07-Nov-2024 00:00	07-Nov-2024 00:00	----	----
Compound	CAS Number	LOR	Unit		EP2416670-006	EP2416670-007	EP2416670-008	--------	--------
					Result	Result	Result	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions - Continued									
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	100	µg/L		<100	<100	<100	----	----
EP080: BTEXN									
Benzene	71-43-2	1	µg/L		<1	<1	<1	----	----
Toluene	108-88-3	2	µg/L		<2	<2	<2	----	----
Ethylbenzene	100-41-4	2	µg/L		<2	<2	<2	----	----
meta- & para-Xylene	108-38-3 106-42-3	2	µg/L		<2	<2	<2	----	----
ortho-Xylene	95-47-6	2	µg/L		<2	<2	<2	----	----
^ Total Xylenes	----	2	µg/L		<2	<2	<2	----	----
^ Sum of BTEX	----	1	µg/L		<1	<1	<1	----	----
Naphthalene	91-20-3	5	µg/L		<5	<5	<5	----	----
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.5	%		70.9	51.2	58.2	----	----
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.5	%		69.7	40.6	55.8	----	----
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	1.0	%		32.2	20.0	23.2	----	----
2-Chlorophenol-D4	93951-73-6	1.0	%		78.6	52.0	57.3	----	----
2.4.6-Tribromophenol	118-79-6	1.0	%		94.7	52.3	66.2	----	----
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	1.0	%		85.3	54.6	61.4	----	----
Anthracene-d10	1719-06-8	1.0	%		100	60.8	76.3	----	----
4-Terphenyl-d14	1718-51-0	1.0	%		106	67.7	85.2	----	----
EP075S: Acid Extractable Surrogates									
2-Fluorophenol	367-12-4	2	%		40.2	30.9	30.6	----	----
Phenol-d6	13127-88-3	2	%		25.3	17.3	18.5	----	----
2-Chlorophenol-D4	93951-73-6	2	%		63.3	46.8	46.1	----	----
2.4.6-Tribromophenol	118-79-6	2	%		77.2	39.6	45.0	----	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	TB	RB	FB	----	----
				Sampling date / time	07-Nov-2024 00:00	07-Nov-2024 00:00	07-Nov-2024 00:00	----	----
Compound	CAS Number	LOR	Unit		EP2416670-006	EP2416670-007	EP2416670-008	--------	--------
					Result	Result	Result	----	----
EP075T: Base/Neutral Extractable Surrogates									
Nitrobenzene-D5	4165-60-0	2	%		**72.8**	**54.5**	**51.9**	**----**	**----**
1.2-Dichlorobenzene-D4	2199-69-1	2	%		**59.5**	**42.9**	**43.8**	**----**	**----**
2-Fluorobiphenyl	321-60-8	2	%		**64.5**	**44.8**	**42.4**	**----**	**----**
Anthracene-d10	1719-06-8	2	%		**83.8**	**61.0**	**62.0**	**----**	**----**
4-Terphenyl-d14	1718-51-0	2	%		**112**	**84.6**	**88.0**	**----**	**----**
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	2	%		**115**	**120**	**117**	**----**	**----**
Toluene-D8	2037-26-5	2	%		**103**	**112**	**104**	**----**	**----**
4-Bromofluorobenzene	460-00-4	2	%		**111**	**110**	**107**	**----**	**----**

Surrogate Control Limits

Sub-Matrix: WATER		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP068S: Organochlorine Pesticide Surrogate			
Dibromo-DDE	21655-73-2	50	146
EP068T: Organophosphorus Pesticide Surrogate			
DEF	78-48-8	27	153
EP075(SIM)S: Phenolic Compound Surrogates			
Phenol-d6	13127-88-3	10	67
2-Chlorophenol-D4	93951-73-6	29	120
2.4.6-Tribromophenol	118-79-6	10	131
EP075(SIM)T: PAH Surrogates			
2-Fluorobiphenyl	321-60-8	34	131
Anthracene-d10	1719-06-8	43	126
4-Terphenyl-d14	1718-51-0	41	142
EP075S: Acid Extractable Surrogates			
2-Fluorophenol	367-12-4	23	115
Phenol-d6	13127-88-3	10	163
2-Chlorophenol-D4	93951-73-6	44	124
2.4.6-Tribromophenol	118-79-6	19	146
EP075T: Base/Neutral Extractable Surrogates			
Nitrobenzene-D5	4165-60-0	51	130
1.2-Dichlorobenzene-D4	2199-69-1	31	121
2-Fluorobiphenyl	321-60-8	42	136
Anthracene-d10	1719-06-8	53	131
4-Terphenyl-d14	1718-51-0	44	141
EP080S: TPH(V)/BTEX Surrogates			
1.2-Dichloroethane-D4	17060-07-0	61	141
Toluene-D8	2037-26-5	73	126
4-Bromofluorobenzene	460-00-4	60	125

SAMPLE RECEIPT NOTIFICATION (SRN)

Work Order	: **EP2416670**		
Client	: **West Soil & Water**	Laboratory	: Environmental Division Perth
Contact	: Sam Mueller	Contact	: Bethany Hatter
Address	: 3/194 Holbeck Street Doubleview 6018	Address	: 26 Rigali Way Wangara WA Australia 6065
E-mail	: sam@westsoilandwater.com.au	E-mail	: bethany.hatter@alsglobal.com
Telephone	: ----	Telephone	: +61-8-9406 1301
Facsimile	: ----	Facsimile	: +61-8-9406 1399
Project	: 2024_147 Burswood Road Additional Investigation	Page	: 1 of 3
Order number	: 147-BR	Quote number	: EP2023WESSOI0002 (WA Custom Rates)
C-O-C number	: ----	QC Level	: NEPM 2013 B3 & ALS QC Standard
Site	: 147 Burswood Rd		
Sampler	:		

Dates

Date Samples Received	: 07-Nov-2024 14:30	Issue Date	: 09-Nov-2024
Client Requested Due Date	: 15-Nov-2024	Scheduled Reporting Date	: **15-Nov-2024**

Delivery Details

Mode of Delivery	: Carrier	Security Seal	: Not Available
No. of coolers/boxes	: 1	Temperature	: 17.7 - Ice Bricks present
Receipt Detail	:	No. of samples received / analysed	: 8 / 8

General Comments

- This report contains the following information:
  - Sample Container(s)/Preservation Non-Compliances
  - Summary of Sample(s) and Requested Analysis
  - Proactive Holding Time Report
  - Requested Deliverables
- Please see scanned COC for sample discrepencies: extra samples , samples not received etc.
- Please direct any queries related to sample condition / numbering / breakages to Sample Receipt (Samples.Perth@alsglobal.com)
- Unless otherwise stated, analytical work for this work order will be conducted at ALS Perth, NATA accreditation no. 825, site no. 15847.
- Please direct any turnaround / technical queries to the laboratory contact designated above.
- Sample Disposal - Aqueous (3 weeks), Solid (2 months) from receipt of samples.
- **pH analysis should be conducted within 6 hours of sampling.**
- **Please refer to the Proactive Holding Time Report table below which summarises breaches of recommended holding times that have occurred prior to samples/instructions being received at the laboratory. The laboratory will process these samples unless instructions are received from you indicating you do not wish to proceed. The absence of this summary table indicates that all samples have been received within the recommended holding times for the analysis requested.**
- Please be aware that APHA/NEPM recommends water and soil samples be chilled to less than or equal to 6°C for chemical analysis, and less than or equal to 10°C but unfrozen for Microbiological analysis. Where samples are received above this temperature, it should be taken into consideration when interpreting results. Refer to ALS EnviroMail 85 for ALS recommendations of the best practice for chilling samples after sampling and for maintaining a cool temperature during transit.

Sample Container(s)/Preservation Non-Compliances

All comparisons are made against pretreatment/preservation AS, APHA, USEPA standards.

- **No sample container / preservation non-compliance exists.**

Summary of Sample(s) and Requested Analysis

Some items described below may be part of a laboratory process necessary for the execution of client requested tasks. Packages may contain additional analyses, such as the determination of moisture content and preparation tasks, that are included in the package.
If no sampling time is provided, the sampling time will default 00:00 on the date of sampling. If no sampling date is provided, the sampling date will be assumed by the laboratory and displayed in brackets without a time component

Matrix: **WATER**

Laboratory sample ID	*Sampling date / time*	*Sample ID*	WATER - EP075 Semivolatile Organic Compounds	WATER - W-12 OC/OP Pesticides	WATER - W-26 TRH/BTEXN/PAH/8 Metals
EP2416670-001	07-Nov-2024 08:30	GW 1	✓	✓	✓
EP2416670-002	07-Nov-2024 09:30	GW 2	✓	✓	✓
EP2416670-003	07-Nov-2024 10:30	GW 3	✓	✓	✓
EP2416670-004	07-Nov-2024 11:15	GW 4	✓	✓	✓
EP2416670-005	07-Nov-2024 00:00	X1	✓	✓	✓
EP2416670-006	07-Nov-2024 00:00	TB	✓	✓	✓
EP2416670-007	07-Nov-2024 00:00	RB	✓	✓	✓
EP2416670-008	07-Nov-2024 00:00	FB	✓	✓	✓

Proactive Holding Time Report

Sample(s) have been received within the recommended holding times for the requested analysis.

Requested Deliverables

Admin

- A4 - AU Tax Invoice (INV)	Email	admin@westsoilandwater.com.au

Audrey Scanlan

- *AU Certificate of Analysis - NATA (COA)	Email	audrey@westsoilandwater.com.au
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	audrey@westsoilandwater.com.au
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	audrey@westsoilandwater.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	audrey@westsoilandwater.com.au
- Chain of Custody (CoC) (COC)	Email	audrey@westsoilandwater.com.au
- EDI Format - ESDAT (ESDAT)	Email	audrey@westsoilandwater.com.au
- EDI Format - XTab (XTAB)	Email	audrey@westsoilandwater.com.au

BRAD ERCEG

- *AU Certificate of Analysis - NATA (COA)	Email	brad@westsoilandwater.com.au
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	brad@westsoilandwater.com.au
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	brad@westsoilandwater.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	brad@westsoilandwater.com.au
- Chain of Custody (CoC) (COC)	Email	brad@westsoilandwater.com.au
- EDI Format - ESDAT (ESDAT)	Email	brad@westsoilandwater.com.au
- EDI Format - XTab (XTAB)	Email	brad@westsoilandwater.com.au

Sam Mueller

- *AU Certificate of Analysis - NATA (COA)	Email	sam@westsoilandwater.com.au
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	sam@westsoilandwater.com.au
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	sam@westsoilandwater.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	sam@westsoilandwater.com.au
- A4 - AU Tax Invoice (INV)	Email	sam@westsoilandwater.com.au
- Chain of Custody (CoC) (COC)	Email	sam@westsoilandwater.com.au
- EDI Format - ESDAT (ESDAT)	Email	sam@westsoilandwater.com.au
- EDI Format - XTab (XTAB)	Email	sam@westsoilandwater.com.au

QUALITY CONTROL REPORT

Work Order	: **EP2416670**	Page	: 1 of 17
Client	: **West Soil & Water**	Laboratory	: Environmental Division Perth
Contact	: Sam Mueller	Contact	: Bethany Hatter
Address	: 3/194 Holbeck Street Doubleview 6018	Address	: 26 Rigali Way Wangara WA Australia 6065
Telephone	: ----	Telephone	: +61-8-9406 1301
Project	: 2024_147 Burswood Road Additional Investigation	Date Samples Received	: 07-Nov-2024
Order number	: 147-BR	Date Analysis Commenced	: 12-Nov-2024
C-O-C number	: ----	Issue Date	: 15-Nov-2024
Sampler	: ----		
Site	: 147 Burswood Rd		
Quote number	: WA Custom Rates		
No. of samples received	: 8		
No. of samples analysed	: 8		

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 Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits
- Method Blank (MB) and Laboratory Control Spike (LCS) Report; Recovery and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits

Signatories

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

Signatories	*Position*	*Accreditation Category*
Canhuang Ke	Inorganics Supervisor	Perth Inorganics, Wangara, WA
David Viner	SENIOR LAB TECH	Perth Organics, Wangara, WA
Efua Wilson	Metals Chemist	Perth Inorganics, Wangara, WA
John Horwood	Organic Supervisor	Perth Organics, Wangara, WA

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.

Key : Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot
CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
RPD = Relative Percentage Difference
# = Indicates failed QC
* = The final LOR has been raised due to dilution or other sample specific cause; adjusted LOR is shown in brackets. The duplicate ranges for Acceptable RPD% are applied to the final LOR where applicable.

Laboratory Duplicate (DUP) Report

The quality control term Laboratory Duplicate refers to a randomly selected intralaboratory split. Laboratory duplicates provide information regarding method precision and sample heterogeneity. The permitted ranges for the Relative Percent Deviation (RPD) of Laboratory Duplicates are specified in ALS Method QWI-EN/38 and are dependent on the magnitude of results in comparison to the level of reporting: Result < 10 times LOR: No Limit; Result between 10 and 20 times LOR: 0% - 50%; Result > 20 times LOR: 0% - 20%.

Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EG020F: Dissolved Metals by ICP-MS (QC Lot: 6184227)									
EP2416628-001	Anonymous	EG020A-F: Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	0.0	No Limit
		EG020A-F: Arsenic	7440-38-2	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-F: Chromium	7440-47-3	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-F: Copper	7440-50-8	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-F: Lead	7439-92-1	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-F: Nickel	7440-02-0	0.001	mg/L	0.002	0.002	0.0	No Limit
		EG020A-F: Zinc	7440-66-6	0.005	mg/L	<0.005	<0.005	0.0	No Limit
EP2416587-006	Anonymous	EG020A-F: Cadmium	7440-43-9	0.0001	mg/L	0.0001	0.0002	0.0	No Limit
		EG020A-F: Arsenic	7440-38-2	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-F: Chromium	7440-47-3	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-F: Copper	7440-50-8	0.001	mg/L	0.001	<0.001	0.0	No Limit
		EG020A-F: Lead	7439-92-1	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-F: Nickel	7440-02-0	0.001	mg/L	0.001	0.001	0.0	No Limit
		EG020A-F: Zinc	7440-66-6	0.005	mg/L	<0.005	<0.005	0.0	No Limit
EG020F: Dissolved Metals by ICP-MS (QC Lot: 6184228)									
EP2416720-002	Anonymous	EG020A-F: Cadmium	7440-43-9	0.0001 (0.0005)*	mg/L	<0.0005	<0.0005	0.0	No Limit
		EG020A-F: Arsenic	7440-38-2	0.001 (0.005) *	mg/L	<0.005	<0.005	0.0	No Limit
		EG020A-F: Chromium	7440-47-3	0.001 (0.005) *	mg/L	<0.005	<0.005	0.0	No Limit

Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EG020F: Dissolved Metals by ICP-MS (QC Lot: 6184228) - continued									
EP2416720-002	Anonymous	EG020A-F: Copper	7440-50-8	0.001 (0.005) *	mg/L	<0.005	<0.005	0.0	No Limit
		EG020A-F: Lead	7439-92-1	0.001 (0.005) *	mg/L	<0.005	<0.005	0.0	No Limit
		EG020A-F: Nickel	7440-02-0	0.001 (0.005) *	mg/L	<0.005	<0.005	0.0	No Limit
		EG020A-F: Zinc	7440-66-6	0.005 (0.025) *	mg/L	<0.025	<0.025	0.0	No Limit
EP2416720-014	Anonymous	EG020A-F: Cadmium	7440-43-9	0.0001 (0.0005)*	mg/L	<0.0005	<0.0005	0.0	No Limit
		EG020A-F: Arsenic	7440-38-2	0.001 (0.005) *	mg/L	<0.005	<0.005	0.0	No Limit
		EG020A-F: Chromium	7440-47-3	0.001 (0.005) *	mg/L	<0.005	<0.005	0.0	No Limit
		EG020A-F: Copper	7440-50-8	0.001 (0.005) *	mg/L	0.005	0.006	0.0	No Limit
		EG020A-F: Lead	7439-92-1	0.001 (0.005) *	mg/L	<0.005	<0.005	0.0	No Limit
		EG020A-F: Nickel	7440-02-0	0.001 (0.005) *	mg/L	0.031	0.031	0.0	No Limit
		EG020A-F: Zinc	7440-66-6	0.005 (0.025) *	mg/L	0.029	0.027	6.9	No Limit
EG035F: Dissolved Mercury by FIMS (QC Lot: 6184226)									
EP2416587-007	Anonymous	EG035F: Mercury	7439-97-6	0.0001	mg/L	<0.0001	<0.0001	0.0	No Limit
EP2416670-002	GW 2	EG035F: Mercury	7439-97-6	0.0001	mg/L	<0.0001	<0.0001	0.0	No Limit
EP068A: Organochlorine Pesticides (OC) (QC Lot: 6184380)									
EP2416670-002	GW 2	EP068: alpha-BHC	319-84-6	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Hexachlorobenzene (HCB)	118-74-1	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: beta-BHC	319-85-7	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: gamma-BHC - (Lindane)	58-89-9	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: delta-BHC	319-86-8	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Heptachlor	76-44-8	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Aldrin	309-00-2	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Heptachlor epoxide	1024-57-3	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: trans-Chlordane	5103-74-2	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: alpha-Endosulfan	959-98-8	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: cis-Chlordane	5103-71-9	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Dieldrin	60-57-1	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: 4.4`-DDE	72-55-9	0.5	µg/L	<0.5	<0.5	0.0	No Limit

Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP068A: Organochlorine Pesticides (OC) (QC Lot: 6184380) - continued									
EP2416670-002	GW 2	EP068: Endrin	72-20-8	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: beta-Endosulfan	33213-65-9	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: 4.4`-DDD	72-54-8	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Endrin aldehyde	7421-93-4	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Endosulfan sulfate	1031-07-8	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Endrin ketone	53494-70-5	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: 4.4`-DDT	50-29-3	2	µg/L	<2.0	<2.0	0.0	No Limit
		EP068: Methoxychlor	72-43-5	2	µg/L	<2.0	<2.0	0.0	No Limit
EP068B: Organophosphorus Pesticides (OP) (QC Lot: 6184380)									
EP2416670-002	GW 2	EP068: Dichlorvos	62-73-7	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Demeton-S-methyl	919-86-8	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Dimethoate	60-51-5	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Diazinon	333-41-5	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Chlorpyrifos-methyl	5598-13-0	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Malathion	121-75-5	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Fenthion	55-38-9	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Chlorpyrifos	2921-88-2	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Pirimphos-ethyl	23505-41-1	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Chlorfenvinphos	470-90-6	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Bromophos-ethyl	4824-78-6	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Fenamiphos	22224-92-6	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Prothiofos	34643-46-4	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Ethion	563-12-2	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Carbophenothion	786-19-6	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Azinphos Methyl	86-50-0	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Monocrotophos	6923-22-4	2	µg/L	<2.0	<2.0	0.0	No Limit
		EP068: Parathion-methyl	298-00-0	2	µg/L	<2.0	<2.0	0.0	No Limit
		EP068: Parathion	56-38-2	2	µg/L	<2.0	<2.0	0.0	No Limit
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 6184379)									
EP2416670-002	GW 2	EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Sum of polycyclic aromatic hydrocarbons	----	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Naphthalene	91-20-3	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Acenaphthene	83-32-9	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Fluorene	86-73-7	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Phenanthrene	85-01-8	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Anthracene	120-12-7	1	µg/L	<1.0	<1.0	0.0	No Limit

Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 6184379) - continued									
EP2416670-002	GW 2	EP075(SIM): Fluoranthene	206-44-0	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Pyrene	129-00-0	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Benz(a)anthracene	56-55-3	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Chrysene	218-01-9	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	1	µg/L	<1.0	<1.0	0.0	No Limit
EP075A: Phenolic Compounds (QC Lot: 6184381)									
EP2416670-002	GW 2	EP075: Phenol	108-95-2	2	µg/L	<2	<2	0.0	No Limit
		EP075: 2-Chlorophenol	95-57-8	2	µg/L	<2	<2	0.0	No Limit
		EP075: 2-Methylphenol	95-48-7	2	µg/L	<2	<2	0.0	No Limit
		EP075: 3- & 4-Methylphenol	1319-77-3	2 (4)*	µg/L	<4	<4	0.0	No Limit
		EP075: 2-Nitrophenol	88-75-5	2	µg/L	<2	<2	0.0	No Limit
		EP075: 2.4-Dimethylphenol	105-67-9	2	µg/L	<2	<2	0.0	No Limit
		EP075: 2.4-Dichlorophenol	120-83-2	2	µg/L	<2	<2	0.0	No Limit
		EP075: 2.6-Dichlorophenol	87-65-0	2	µg/L	<2	<2	0.0	No Limit
		EP075: 4-Chloro-3-methylphenol	59-50-7	2	µg/L	<2	<2	0.0	No Limit
		EP075: 2.4.6-Trichlorophenol	88-06-2	2	µg/L	<2	<2	0.0	No Limit
		EP075: 2.4.5-Trichlorophenol	95-95-4	2	µg/L	<2	<2	0.0	No Limit
		EP075: Pentachlorophenol	87-86-5	4	µg/L	<4	<4	0.0	No Limit
EP075B: Polynuclear Aromatic Hydrocarbons (QC Lot: 6184381)									
EP2416670-002	GW 2	EP075: Naphthalene	91-20-3	2	µg/L	<2	<2	0.0	No Limit
		EP075: 2-Methylnaphthalene	91-57-6	2	µg/L	<2	<2	0.0	No Limit
		EP075: 2-Chloronaphthalene	91-58-7	2	µg/L	<2	<2	0.0	No Limit
		EP075: Acenaphthylene	208-96-8	2	µg/L	<2	<2	0.0	No Limit
		EP075: Acenaphthene	83-32-9	2	µg/L	<2	<2	0.0	No Limit
		EP075: Fluorene	86-73-7	2	µg/L	<2	<2	0.0	No Limit
		EP075: Phenanthrene	85-01-8	2	µg/L	<2	<2	0.0	No Limit
		EP075: Anthracene	120-12-7	2	µg/L	<2	<2	0.0	No Limit
		EP075: Fluoranthene	206-44-0	2	µg/L	<2	<2	0.0	No Limit
		EP075: Pyrene	129-00-0	2	µg/L	<2	<2	0.0	No Limit
		EP075: N-2-Fluorenyl Acetamide	53-96-3	2	µg/L	<2	<2	0.0	No Limit
		EP075: Benz(a)anthracene	56-55-3	2	µg/L	<2	<2	0.0	No Limit
		EP075: Chrysene	218-01-9	2	µg/L	<2	<2	0.0	No Limit
		EP075: 7.12-Dimethylbenz(a)anthracene	57-97-6	2	µg/L	<2	<2	0.0	No Limit

Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP075B: Polynuclear Aromatic Hydrocarbons (QC Lot: 6184381) - continued									
EP2416670-002	GW 2	EP075: Benzo(a)pyrene	50-32-8	2	µg/L	<2	<2	0.0	No Limit
		EP075: 3-Methylcholanthrene	56-49-5	2	µg/L	<2	<2	0.0	No Limit
		EP075: Indeno(1.2.3.cd)pyrene	193-39-5	2	µg/L	<2	<2	0.0	No Limit
		EP075: Dibenz(a.h)anthracene	53-70-3	2	µg/L	<2	<2	0.0	No Limit
		EP075: Benzo(g.h.i)perylene	191-24-2	2	µg/L	<2	<2	0.0	No Limit
		EP075: Benzo(a)pyrene TEQ (zero)	----	2	µg/L	<2	<2	0.0	No Limit
		EP075: Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	4	µg/L	<4	<4	0.0	No Limit
EP075C: Phthalate Esters (QC Lot: 6184381)									
EP2416670-002	GW 2	EP075: bis(2-ethylhexyl) phthalate	117-81-7	10	µg/L	<10	<10	0.0	No Limit
		EP075: Dimethyl phthalate	131-11-3	2	µg/L	<2	<2	0.0	No Limit
		EP075: Diethyl phthalate	84-66-2	2	µg/L	<2	<2	0.0	No Limit
		EP075: Di-n-butyl phthalate	84-74-2	2	µg/L	<2	<2	0.0	No Limit
		EP075: Butyl benzyl phthalate	85-68-7	2	µg/L	<2	<2	0.0	No Limit
		EP075: Di-n-octylphthalate	117-84-0	2	µg/L	<2	<2	0.0	No Limit
EP075D: Nitrosamines (QC Lot: 6184381)									
EP2416670-002	GW 2	EP075: N-Nitrosomethylethylamine	10595-95-6	2	µg/L	<2	<2	0.0	No Limit
		EP075: N-Nitrosodiethylamine	55-18-5	2	µg/L	<2	<2	0.0	No Limit
		EP075: N-Nitrosomorpholine	59-89-2	2	µg/L	<2	<2	0.0	No Limit
		EP075: N-Nitrosodi-n-propylamine	621-64-7	2	µg/L	<2	<2	0.0	No Limit
		EP075: N-Nitrosopiperidine	100-75-4	2	µg/L	<2	<2	0.0	No Limit
		EP075: N-Nitrosodibutylamine	924-16-3	2	µg/L	<2	<2	0.0	No Limit
		EP075: Methapyrilene	91-80-5	2	µg/L	<2	<2	0.0	No Limit
		EP075: N-Nitrosopyrrolidine	930-55-2	4	µg/L	<4	<4	0.0	No Limit
		EP075: N-Nitrosodiphenyl & Diphenylamine	86-30-6 122-39-4	4	µg/L	<4	<4	0.0	No Limit
EP075E: Nitroaromatics and Ketones (QC Lot: 6184381)									
EP2416670-002	GW 2	EP075: 2-Picoline	109-06-8	2	µg/L	<2	<2	0.0	No Limit
		EP075: Acetophenone	98-86-2	2	µg/L	<2	<2	0.0	No Limit
		EP075: Nitrobenzene	98-95-3	2	µg/L	<2	<2	0.0	No Limit
		EP075: Isophorone	78-59-1	2	µg/L	<2	<2	0.0	No Limit
		EP075: 1-Naphthylamine	134-32-7	2	µg/L	<2	<2	0.0	No Limit
		EP075: 4-Nitroquinoline-N-oxide	56-57-5	2	µg/L	<2	<2	0.0	No Limit
		EP075: 5-Nitro-o-toluidine	99-55-8	2	µg/L	<2	<2	0.0	No Limit
		EP075: Azobenzene	103-33-3	2	µg/L	<2	<2	0.0	No Limit
		EP075: 1.3.5-Trinitrobenzene	99-35-4	2	µg/L	<2	<2	0.0	No Limit
		EP075: Phenacetin	62-44-2	2	µg/L	<2	<2	0.0	No Limit
		EP075: 4-Aminobiphenyl	92-67-1	2	µg/L	<2	<2	0.0	No Limit

Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP075E: Nitroaromatics and Ketones (QC Lot: 6184381) - continued									
EP2416670-002	GW 2	EP075: Pentachloronitrobenzene	82-68-8	2	µg/L	<2	<2	0.0	No Limit
		EP075: Pronamide	23950-58-5	2	µg/L	<2	<2	0.0	No Limit
		EP075: Dimethylaminoazobenzene	60-11-7	2	µg/L	<2	<2	0.0	No Limit
		EP075: Chlorobenzilate	510-15-6	2	µg/L	<2	<2	0.0	No Limit
		EP075: 2.6-Dinitrotoluene	606-20-2	4	µg/L	<4	<4	0.0	No Limit
		EP075: 2.4-Dinitrotoluene	121-14-2	4	µg/L	<4	<4	0.0	No Limit
EP075F: Haloethers (QC Lot: 6184381)									
EP2416670-002	GW 2	EP075: Bis(2-chloroethyl) ether	111-44-4	2	µg/L	<2	<2	0.0	No Limit
		EP075: Bis(2-chloroethoxy) methane	111-91-1	2	µg/L	<2	<2	0.0	No Limit
		EP075: 4-Chlorophenyl phenyl ether	7005-72-3	2	µg/L	<2	<2	0.0	No Limit
		EP075: 4-Bromophenyl phenyl ether	101-55-3	2	µg/L	<2	<2	0.0	No Limit
EP075G: Chlorinated Hydrocarbons (QC Lot: 6184381)									
EP2416670-002	GW 2	EP075: Hexachlorocyclopentadiene	77-47-4	10	µg/L	<10	<10	0.0	No Limit
		EP075: 1.4-Dichlorobenzene	106-46-7	2	µg/L	<2	<2	0.0	No Limit
		EP075: 1.3-Dichlorobenzene	541-73-1	2	µg/L	<2	<2	0.0	No Limit
		EP075: 1.2-Dichlorobenzene	95-50-1	2	µg/L	<2	<2	0.0	No Limit
		EP075: Hexachloroethane	67-72-1	2	µg/L	<2	<2	0.0	No Limit
		EP075: 1.2.4-Trichlorobenzene	120-82-1	2	µg/L	<2	<2	0.0	No Limit
		EP075: Hexachloropropylene	1888-71-7	2	µg/L	<2	<2	0.0	No Limit
		EP075: Hexachlorobutadiene	87-68-3	2	µg/L	<2	<2	0.0	No Limit
		EP075: Pentachlorobenzene	608-93-5	2	µg/L	<2	<2	0.0	No Limit
		EP075: Hexachlorobenzene (HCB)	118-74-1	4	µg/L	<4	<4	0.0	No Limit
EP075H: Anilines and Benzidines (QC Lot: 6184381)									
EP2416670-002	GW 2	EP075: Aniline	62-53-3	2	µg/L	<2	<2	0.0	No Limit
		EP075: 4-Chloroaniline	106-47-8	2	µg/L	<2	<2	0.0	No Limit
		EP075: Dibenzofuran	132-64-9	2	µg/L	<2	<2	0.0	No Limit
		EP075: 4-Nitroaniline	100-01-6	2	µg/L	<2	<2	0.0	No Limit
		EP075: Carbazole	86-74-8	2	µg/L	<2	<2	0.0	No Limit
		EP075: 3.3`-Dichlorobenzidine	91-94-1	2	µg/L	<2	<2	0.0	No Limit
		EP075: 2-Nitroaniline	88-74-4	4	µg/L	<4	<4	0.0	No Limit
		EP075: 3-Nitroaniline	99-09-2	4	µg/L	<4	<4	0.0	No Limit
EP075I: Organochlorine Pesticides (QC Lot: 6184381)									
EP2416670-002	GW 2	EP075: alpha-BHC	319-84-6	2	µg/L	<2	<2	0.0	No Limit
		EP075: beta-BHC	319-85-7	2	µg/L	<2	<2	0.0	No Limit
		EP075: gamma-BHC - (Lindane)	58-89-9	2	µg/L	<2	<2	0.0	No Limit
		EP075: delta-BHC	319-86-8	2	µg/L	<2	<2	0.0	No Limit
		EP075: Heptachlor	76-44-8	2	µg/L	<2	<2	0.0	No Limit

Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP075I: Organochlorine Pesticides (QC Lot: 6184381) - continued									
EP2416670-002	GW 2	EP075: Aldrin	309-00-2	2	µg/L	<2	<2	0.0	No Limit
		EP075: Heptachlor epoxide	1024-57-3	2	µg/L	<2	<2	0.0	No Limit
		EP075: alpha-Endosulfan	959-98-8	2	µg/L	<2	<2	0.0	No Limit
		EP075: 4.4`-DDE	72-55-9	2	µg/L	<2	<2	0.0	No Limit
		EP075: Dieldrin	60-57-1	2	µg/L	<2	<2	0.0	No Limit
		EP075: Endrin	72-20-8	2	µg/L	<2	<2	0.0	No Limit
		EP075: beta-Endosulfan	33213-65-9	2	µg/L	<2	<2	0.0	No Limit
		EP075: 4.4`-DDD	72-54-8	2	µg/L	<2	<2	0.0	No Limit
		EP075: Endosulfan sulfate	1031-07-8	2	µg/L	<2	<2	0.0	No Limit
		EP075: 4.4`-DDT	50-29-3	4	µg/L	<4	<4	0.0	No Limit
		EP075: Sum of Aldrin + Dieldrin	309-00-2/60-57-1	4	µg/L	<4	<4	0.0	No Limit
		EP075: Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	4	µg/L	<4	<4	0.0	No Limit
EP075J: Organophosphorus Pesticides (QC Lot: 6184381)									
EP2416670-002	GW 2	EP075: Dichlorvos	62-73-7	2	µg/L	<2	<2	0.0	No Limit
		EP075: Dimethoate	60-51-5	2	µg/L	<2	<2	0.0	No Limit
		EP075: Diazinon	333-41-5	2	µg/L	<2	<2	0.0	No Limit
		EP075: Chlorpyrifos-methyl	5598-13-0	2	µg/L	<2	<2	0.0	No Limit
		EP075: Malathion	121-75-5	2	µg/L	<2	<2	0.0	No Limit
		EP075: Fenthion	55-38-9	2	µg/L	<2	<2	0.0	No Limit
		EP075: Chlorpyrifos	2921-88-2	2	µg/L	<2	<2	0.0	No Limit
		EP075: Pirimphos-ethyl	23505-41-1	2	µg/L	<2	<2	0.0	No Limit
		EP075: Chlorfenvinphos	470-90-6	2	µg/L	<2	<2	0.0	No Limit
		EP075: Prothiofos	34643-46-4	2	µg/L	<2	<2	0.0	No Limit
		EP075: Ethion	563-12-2	2	µg/L	<2	<2	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 6178222)									
EP2416587-006	Anonymous	EP080: C6 - C9 Fraction	----	20	µg/L	<20	<20	0.0	No Limit
EP2416665-002	Anonymous	EP080: C6 - C9 Fraction	----	20	µg/L	<20	<20	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 6184378)									
EP2416670-002	GW 2	EP071: C15 - C28 Fraction	----	100	µg/L	<100	<100	0.0	No Limit
		EP071: C10 - C14 Fraction	----	50	µg/L	<50	<50	0.0	No Limit
		EP071: C29 - C36 Fraction	----	50	µg/L	<50	<50	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 6178222)									
EP2416587-006	Anonymous	EP080: C6 - C10 Fraction	C6_C10	20	µg/L	<20	<20	0.0	No Limit
EP2416665-002	Anonymous	EP080: C6 - C10 Fraction	C6_C10	20	µg/L	<20	<20	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 6184378)									

Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 6184378) - continued									
EP2416670-002	GW 2	EP071: >C10 - C16 Fraction	----	100	µg/L	<100	<100	0.0	No Limit
		EP071: >C16 - C34 Fraction	----	100	µg/L	<100	<100	0.0	No Limit
		EP071: >C34 - C40 Fraction	----	100	µg/L	<100	<100	0.0	No Limit
EP080: BTEXN (QC Lot: 6178222)									
EP2416587-006	Anonymous	EP080: Benzene	71-43-2	1	µg/L	<1	<1	0.0	No Limit
		EP080: Toluene	108-88-3	2	µg/L	<2	<2	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	2	µg/L	<2	<2	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	<2	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	2	µg/L	<2	<2	0.0	No Limit
		EP080: Naphthalene	91-20-3	5	µg/L	<5	<5	0.0	No Limit
EP2416665-002	Anonymous	EP080: Benzene	71-43-2	1	µg/L	<1	<1	0.0	No Limit
		EP080: Toluene	108-88-3	2	µg/L	<2	<2	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	2	µg/L	<2	<2	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	<2	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	2	µg/L	<2	<2	0.0	No Limit
		EP080: Naphthalene	91-20-3	5	µg/L	<5	<5	0.0	No Limit

Method Blank (MB) and Laboratory Control Sample (LCS) Report

The quality control term Method / Laboratory Blank refers to an analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation. The purpose of this QC parameter is to monitor potential laboratory contamination. The quality control term Laboratory Control Sample (LCS) refers to a certified reference material, or a known interference free matrix spiked with target analytes. The purpose of this QC parameter is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of processed LCS.

Sub-Matrix: **WATER**

				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High
EG020F: Dissolved Metals by ICP-MS (QCLot: 6184227)								
EG020A-F: Arsenic	7440-38-2	0.001	mg/L	<0.001	0.1 mg/L	105	90.3	113
EG020A-F: Cadmium	7440-43-9	0.0001	mg/L	<0.0001	0.1 mg/L	101	89.7	108
EG020A-F: Chromium	7440-47-3	0.001	mg/L	<0.001	0.1 mg/L	97.4	87.3	107
EG020A-F: Copper	7440-50-8	0.001	mg/L	<0.001	0.1 mg/L	98.6	88.9	108
EG020A-F: Lead	7439-92-1	0.001	mg/L	<0.001	0.1 mg/L	100	89.4	106
EG020A-F: Nickel	7440-02-0	0.001	mg/L	<0.001	0.1 mg/L	101	87.2	108
EG020A-F: Zinc	7440-66-6	0.005	mg/L	<0.005	0.1 mg/L	103	89.5	112
EG020F: Dissolved Metals by ICP-MS (QCLot: 6184228)								
EG020A-F: Arsenic	7440-38-2	0.001	mg/L	<0.001	0.1 mg/L	103	90.3	113
EG020A-F: Cadmium	7440-43-9	0.0001	mg/L	<0.0001	0.1 mg/L	99.1	89.7	108
EG020A-F: Chromium	7440-47-3	0.001	mg/L	<0.001	0.1 mg/L	96.1	87.3	107
EG020A-F: Copper	7440-50-8	0.001	mg/L	<0.001	0.1 mg/L	95.2	88.9	108
EG020A-F: Lead	7439-92-1	0.001	mg/L	<0.001	0.1 mg/L	99.3	89.4	106
EG020A-F: Nickel	7440-02-0	0.001	mg/L	<0.001	0.1 mg/L	96.3	87.2	108
EG020A-F: Zinc	7440-66-6	0.005	mg/L	<0.005	0.1 mg/L	98.4	89.5	112
EG035F: Dissolved Mercury by FIMS (QCLot: 6184226)								
EG035F: Mercury	7439-97-6	0.0001	mg/L	<0.0001	0.005 mg/L	98.6	85.6	120
EP068A: Organochlorine Pesticides (OC) (QCLot: 6184380)								
EP068: alpha-BHC	319-84-6	0.5	µg/L	<0.5	5 µg/L	64.0	42.3	112
EP068: Hexachlorobenzene (HCB)	118-74-1	0.5	µg/L	<0.5	5 µg/L	60.0	39.0	108
EP068: beta-BHC	319-85-7	0.5	µg/L	<0.5	5 µg/L	82.2	45.5	116
EP068: gamma-BHC - (Lindane)	58-89-9	0.5	µg/L	<0.5	5 µg/L	78.5	43.0	118
EP068: delta-BHC	319-86-8	0.5	µg/L	<0.5	5 µg/L	83.3	46.2	115
EP068: Heptachlor	76-44-8	0.5	µg/L	<0.5	5 µg/L	61.5	39.0	111
EP068: Aldrin	309-00-2	0.5	µg/L	<0.5	5 µg/L	73.8	39.7	114
EP068: Heptachlor epoxide	1024-57-3	0.5	µg/L	<0.5	5 µg/L	90.3	42.4	122
EP068: trans-Chlordane	5103-74-2	0.5	µg/L	<0.5	5 µg/L	82.3	43.6	121
EP068: alpha-Endosulfan	959-98-8	0.5	µg/L	<0.5	5 µg/L	77.1	42.1	129
EP068: cis-Chlordane	5103-71-9	0.5	µg/L	<0.5	5 µg/L	84.4	42.7	123
EP068: Dieldrin	60-57-1	0.5	µg/L	<0.5	5 µg/L	74.8	42.4	121

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report		
					Spike	Spike Recovery (%)	Acceptable Limits (%)
				Result	Concentration	LCS	Low	High
EP068A: Organochlorine Pesticides (OC) (QCLot: 6184380) - continued								
EP068: 4.4`-DDE	72-55-9	0.5	µg/L	<0.5	5 µg/L	75.2	43.8	123
EP068: Endrin	72-20-8	0.5	µg/L	<0.5	5 µg/L	75.1	26.9	127
EP068: beta-Endosulfan	33213-65-9	0.5	µg/L	<0.5	5 µg/L	84.1	44.9	128
EP068: 4.4`-DDD	72-54-8	0.5	µg/L	<0.5	5 µg/L	79.4	41.7	128
EP068: Endrin aldehyde	7421-93-4	0.5	µg/L	<0.5	5 µg/L	68.2	32.2	121
EP068: Endosulfan sulfate	1031-07-8	0.5	µg/L	<0.5	5 µg/L	76.8	40.7	120
EP068: 4.4`-DDT	50-29-3	2	µg/L	<2.0	5 µg/L	71.4	31.6	123
EP068: Endrin ketone	53494-70-5	0.5	µg/L	<0.5	5 µg/L	80.3	36.4	124
EP068: Methoxychlor	72-43-5	2	µg/L	<2.0	5 µg/L	60.4	25.4	124
EP068B: Organophosphorus Pesticides (OP) (QCLot: 6184380)								
EP068: Dichlorvos	62-73-7	0.5	µg/L	<0.5	5 µg/L	56.3	38.8	110
EP068: Demeton-S-methyl	919-86-8	0.5	µg/L	<0.5	5 µg/L	61.4	34.6	115
EP068: Monocrotophos	6923-22-4	2	µg/L	<2.0	5 µg/L	10.3	10.0	20.1
EP068: Dimethoate	60-51-5	0.5	µg/L	<0.5	5 µg/L	63.5	27.8	102
EP068: Diazinon	333-41-5	0.5	µg/L	<0.5	5 µg/L	74.4	46.1	122
EP068: Chlorpyrifos-methyl	5598-13-0	0.5	µg/L	<0.5	5 µg/L	77.3	46.6	118
EP068: Parathion-methyl	298-00-0	2	µg/L	<2.0	5 µg/L	59.8	26.8	110
EP068: Malathion	121-75-5	0.5	µg/L	<0.5	5 µg/L	70.3	38.8	119
EP068: Fenthion	55-38-9	0.5	µg/L	<0.5	5 µg/L	75.4	45.0	119
EP068: Chlorpyrifos	2921-88-2	0.5	µg/L	<0.5	5 µg/L	72.6	44.6	118
EP068: Parathion	56-38-2	2	µg/L	<2.0	5 µg/L	63.5	30.2	112
EP068: Pirimphos-ethyl	23505-41-1	0.5	µg/L	<0.5	5 µg/L	74.7	43.2	123
EP068: Chlorfenvinphos	470-90-6	0.5	µg/L	<0.5	5 µg/L	56.0	41.1	119
EP068: Bromophos-ethyl	4824-78-6	0.5	µg/L	<0.5	5 µg/L	73.4	34.4	125
EP068: Fenamiphos	22224-92-6	0.5	µg/L	<0.5	5 µg/L	51.3	19.9	123
EP068: Prothiofos	34643-46-4	0.5	µg/L	<0.5	5 µg/L	78.1	38.0	121
EP068: Ethion	563-12-2	0.5	µg/L	<0.5	5 µg/L	66.4	39.5	121
EP068: Carbophenothion	786-19-6	0.5	µg/L	<0.5	5 µg/L	62.0	39.7	119
EP068: Azinphos Methyl	86-50-0	0.5	µg/L	<0.5	5 µg/L	112	10.0	137
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 6184379)								
EP075(SIM): Naphthalene	91-20-3	1	µg/L	<1.0	10 µg/L	56.4	41.9	99.1
EP075(SIM): Acenaphthylene	208-96-8	1	µg/L	<1.0	10 µg/L	57.2	36.1	113
EP075(SIM): Acenaphthene	83-32-9	1	µg/L	<1.0	10 µg/L	59.3	35.8	102
EP075(SIM): Fluorene	86-73-7	1	µg/L	<1.0	10 µg/L	64.8	33.5	113

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report		
					Spike	Spike Recovery (%)	Acceptable Limits (%)
				Result	Concentration	LCS	Low	High
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 6184379) - continued								
EP075(SIM): Phenanthrene	85-01-8	1	µg/L	<1.0	10 µg/L	71.4	36.5	115
EP075(SIM): Anthracene	120-12-7	1	µg/L	<1.0	10 µg/L	71.2	46.4	109
EP075(SIM): Fluoranthene	206-44-0	1	µg/L	<1.0	10 µg/L	79.7	40.4	124
EP075(SIM): Pyrene	129-00-0	1	µg/L	<1.0	10 µg/L	84.6	40.2	123
EP075(SIM): Benz(a)anthracene	56-55-3	1	µg/L	<1.0	10 µg/L	80.1	40.2	126
EP075(SIM): Chrysene	218-01-9	1	µg/L	<1.0	10 µg/L	77.9	45.6	121
EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	1	µg/L	<1.0	10 µg/L	76.4	43.2	123
EP075(SIM): Benzo(k)fluoranthene	207-08-9	1	µg/L	<1.0	10 µg/L	67.6	47.3	121
EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	µg/L	<0.5	10 µg/L	69.0	44.8	123
EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	1	µg/L	<1.0	10 µg/L	65.4	38.8	120
EP075(SIM): Dibenz(a.h)anthracene	53-70-3	1	µg/L	<1.0	10 µg/L	64.6	39.4	119
EP075(SIM): Benzo(g.h.i)perylene	191-24-2	1	µg/L	<1.0	10 µg/L	64.3	40.1	123
EP075(SIM): Sum of polycyclic aromatic hydrocarbons	----	0.5	µg/L	<0.5	----	----	----	----
EP075A: Phenolic Compounds (QCLot: 6184381)								
EP075: Phenol	108-95-2	2	µg/L	<2	10 µg/L	16.7	10.0	50.2
EP075: 2-Chlorophenol	95-57-8	2	µg/L	<2	10 µg/L	37.4	36.5	88.0
EP075: 2-Methylphenol	95-48-7	2	µg/L	<2	10 µg/L	35.5	27.2	89.7
EP075: 3- & 4-Methylphenol	1319-77-3	2	µg/L	<2	10 µg/L	35.6	18.1	91.9
EP075: 2-Nitrophenol	88-75-5	2	µg/L	<2	10 µg/L	35.1	24.5	101
EP075: 2.4-Dimethylphenol	105-67-9	2	µg/L	<2	10 µg/L	45.6	31.6	101
EP075: 2.4-Dichlorophenol	120-83-2	2	µg/L	<2	10 µg/L	41.7	31.3	92.3
EP075: 2.6-Dichlorophenol	87-65-0	2	µg/L	<2	10 µg/L	40.4	38.0	93.2
EP075: 4-Chloro-3-methylphenol	59-50-7	2	µg/L	<2	10 µg/L	46.2	18.2	111
EP075: 2.4.6-Trichlorophenol	88-06-2	2	µg/L	<2	10 µg/L	41.9	31.0	94.9
EP075: 2.4.5-Trichlorophenol	95-95-4	2	µg/L	<2	10 µg/L	50.5	50.0	150
EP075: Pentachlorophenol	87-86-5	4	µg/L	<4	10 µg/L	39.3	10.0	102
EP075B: Polynuclear Aromatic Hydrocarbons (QCLot: 6184381)								
EP075: Naphthalene	91-20-3	2	µg/L	<2	10 µg/L	39.5	38.7	95.6
EP075: 2-Methylnaphthalene	91-57-6	2	µg/L	<2	10 µg/L	38.5	35.6	100
EP075: 2-Chloronaphthalene	91-58-7	2	µg/L	<2	10 µg/L	39.7	34.1	100
EP075: Acenaphthylene	208-96-8	2	µg/L	<2	10 µg/L	43.9	36.7	107
EP075: Acenaphthene	83-32-9	2	µg/L	<2	10 µg/L	53.2	39.8	104
EP075: Fluorene	86-73-7	2	µg/L	<2	10 µg/L	51.3	39.3	106

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP075B: Polynuclear Aromatic Hydrocarbons (QCLot: 6184381) - continued								
EP075: Phenanthrene	85-01-8	2	µg/L	<2	10 µg/L	81.4	43.4	112
EP075: Anthracene	120-12-7	2	µg/L	<2	10 µg/L	79.2	41.4	112
EP075: Fluoranthene	206-44-0	2	µg/L	<2	10 µg/L	85.0	46.1	117
EP075: Pyrene	129-00-0	2	µg/L	<2	10 µg/L	88.1	48.6	116
EP075: N-2-Fluorenyl Acetamide	53-96-3	2	µg/L	<2	10 µg/L	73.8	31.7	108
EP075: Benz(a)anthracene	56-55-3	2	µg/L	<2	10 µg/L	90.4	40.7	120
EP075: Chrysene	218-01-9	2	µg/L	<2	10 µg/L	98.3	41.6	122
EP075: Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	4	µg/L	<4	20 µg/L	34.7	10.0	140
EP075: 7.12-Dimethylbenz(a)anthracene	57-97-6	2	µg/L	<2	10 µg/L	# 25.6	37.9	123
EP075: Benzo(a)pyrene	50-32-8	2	µg/L	<2	10 µg/L	68.7	43.2	117
EP075: 3-Methylcholanthrene	56-49-5	2	µg/L	<2	10 µg/L	57.4	35.6	116
EP075: Indeno(1.2.3.cd)pyrene	193-39-5	2	µg/L	<2	10 µg/L	61.7	37.3	116
EP075: Dibenz(a.h)anthracene	53-70-3	2	µg/L	<2	10 µg/L	59.7	38.0	113
EP075: Benzo(g.h.i)perylene	191-24-2	2	µg/L	<2	10 µg/L	63.6	41.8	116
EP075: Benzo(a)pyrene TEQ (zero)	----	2	µg/L	<2	----	----	----	----
EP075C: Phthalate Esters (QCLot: 6184381)								
EP075: Dimethyl phthalate	131-11-3	2	µg/L	<2	10 µg/L	46.9	37.6	112
EP075: Diethyl phthalate	84-66-2	2	µg/L	<2	10 µg/L	72.0	41.2	118
EP075: Di-n-butyl phthalate	84-74-2	2	µg/L	<2	10 µg/L	82.3	55.5	122
EP075: Butyl benzyl phthalate	85-68-7	2	µg/L	<2	10 µg/L	84.4	40.1	126
EP075: bis(2-ethylhexyl) phthalate	117-81-7	10	µg/L	<10	10 µg/L	58.8	55.2	122
EP075: Di-n-octylphthalate	117-84-0	2	µg/L	<2	10 µg/L	52.3	44.6	115
EP075D: Nitrosamines (QCLot: 6184381)								
EP075: N-Nitrosomethylethylamine	10595-95-6	2	µg/L	<2	10 µg/L	42.6	25.6	82.4
EP075: N-Nitrosodiethylamine	55-18-5	2	µg/L	<2	10 µg/L	40.4	32.6	94.5
EP075: N-Nitrosopyrrolidine	930-55-2	4	µg/L	<4	10 µg/L	32.9	26.5	71.9
EP075: N-Nitrosomorpholine	59-89-2	2	µg/L	<2	10 µg/L	31.8	26.5	75.6
EP075: N-Nitrosodi-n-propylamine	621-64-7	2	µg/L	<2	10 µg/L	44.6	38.7	106
EP075: N-Nitrosopiperidine	100-75-4	2	µg/L	<2	10 µg/L	43.2	37.2	101
EP075: N-Nitrosodibutylamine	924-16-3	2	µg/L	<2	10 µg/L	44.4	41.0	103
EP075: N-Nitrosodiphenyl & Diphenylamine	86-30-6 122-39-4	4	µg/L	<4	10 µg/L	66.2	37.0	111
EP075: Methapyrilene	91-80-5	2	µg/L	<2	10 µg/L	23.4	10.0	127
EP075E: Nitroaromatics and Ketones (QCLot: 6184381)								

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP075E: Nitroaromatics and Ketones (QCLot: 6184381) - continued								
EP075: 2-Picoline	109-06-8	2	µg/L	<2	10 µg/L	41.1	27.2	76.9
EP075: Acetophenone	98-86-2	2	µg/L	<2	10 µg/L	42.7	39.2	100
EP075: Nitrobenzene	98-95-3	2	µg/L	<2	10 µg/L	40.4	35.5	101
EP075: Isophorone	78-59-1	2	µg/L	<2	10 µg/L	45.6	42.0	102
EP075: 2.6-Dinitrotoluene	606-20-2	4	µg/L	<4	10 µg/L	43.0	32.4	109
EP075: 2.4-Dinitrotoluene	121-14-2	4	µg/L	<4	10 µg/L	55.8	31.9	95.8
EP075: 1-Naphthylamine	134-32-7	2	µg/L	<2	10 µg/L	34.4	10.0	147
EP075: 4-Nitroquinoline-N-oxide	56-57-5	2	µg/L	<2	10 µg/L	84.6	27.3	162
EP075: 5-Nitro-o-toluidine	99-55-8	2	µg/L	<2	10 µg/L	63.4	17.1	114
EP075: Azobenzene	103-33-3	2	µg/L	<2	10 µg/L	59.1	39.8	105
EP075: 1.3.5-Trinitrobenzene	99-35-4	2	µg/L	<2	10 µg/L	54.4	13.6	92.4
EP075: Phenacetin	62-44-2	2	µg/L	<2	10 µg/L	59.5	33.8	91.9
EP075: 4-Aminobiphenyl	92-67-1	2	µg/L	<2	10 µg/L	73.4	36.5	112
EP075: Pentachloronitrobenzene	82-68-8	2	µg/L	<2	10 µg/L	66.3	33.7	110
EP075: Pronamide	23950-58-5	2	µg/L	<2	10 µg/L	81.6	42.4	116
EP075: Dimethylaminoazobenzene	60-11-7	2	µg/L	<2	10 µg/L	77.9	34.3	110
EP075: Chlorobenzilate	510-15-6	2	µg/L	<2	10 µg/L	82.9	44.6	116
EP075F: Haloethers (QCLot: 6184381)								
EP075: Bis(2-chloroethyl) ether	111-44-4	2	µg/L	<2	10 µg/L	40.8	28.1	102
EP075: Bis(2-chloroethoxy) methane	111-91-1	2	µg/L	<2	10 µg/L	45.0	40.4	101
EP075: 4-Chlorophenyl phenyl ether	7005-72-3	2	µg/L	<2	10 µg/L	50.2	37.7	105
EP075: 4-Bromophenyl phenyl ether	101-55-3	2	µg/L	<2	10 µg/L	64.6	38.7	105
EP075G: Chlorinated Hydrocarbons (QCLot: 6184381)								
EP075: 1.4-Dichlorobenzene	106-46-7	2	µg/L	<2	10 µg/L	39.3	34.6	87.6
EP075: 1.3-Dichlorobenzene	541-73-1	2	µg/L	<2	10 µg/L	39.4	33.8	88.4
EP075: 1.2-Dichlorobenzene	95-50-1	2	µg/L	<2	10 µg/L	40.2	35.4	89.4
EP075: Hexachloroethane	67-72-1	2	µg/L	<2	10 µg/L	37.2	29.0	89.2
EP075: 1.2.4-Trichlorobenzene	120-82-1	2	µg/L	<2	10 µg/L	38.7	35.7	87.6
EP075: Hexachloropropylene	1888-71-7	2	µg/L	<2	10 µg/L	30.3	14.5	90.4
EP075: Hexachlorobutadiene	87-68-3	2	µg/L	<2	10 µg/L	34.7	29.6	91.9
EP075: Hexachlorocyclopentadiene	77-47-4	10	µg/L	<10	10 µg/L	29.8	10.0	83.2
EP075: Pentachlorobenzene	608-93-5	2	µg/L	<2	10 µg/L	52.4	35.3	101
EP075: Hexachlorobenzene (HCB)	118-74-1	4	µg/L	<4	10 µg/L	64.7	38.9	105
EP075H: Anilines and Benzidines (QCLot: 6184381)								

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report		
					Spike	Spike Recovery (%)	Acceptable Limits (%)
				Result	Concentration	LCS	Low	High
EP075H: Anilines and Benzidines (QCLot: 6184381) - continued								
EP075: Aniline	62-53-3	2	µg/L	<2	10 µg/L	38.2	24.5	85.1
EP075: 4-Chloroaniline	106-47-8	2	µg/L	<2	10 µg/L	38.8	10.0	107
EP075: 2-Nitroaniline	88-74-4	4	µg/L	<4	10 µg/L	# 43.5	50.0	150
EP075: 3-Nitroaniline	99-09-2	4	µg/L	<4	10 µg/L	54.1	10.0	139
EP075: Dibenzofuran	132-64-9	2	µg/L	<2	10 µg/L	55.0	39.0	104
EP075: 4-Nitroaniline	100-01-6	2	µg/L	<2	10 µg/L	59.4	17.5	112
EP075: Carbazole	86-74-8	2	µg/L	<2	10 µg/L	84.9	39.5	119
EP075: 3.3`-Dichlorobenzidine	91-94-1	2	µg/L	<2	10 µg/L	92.3	17.3	149
EP075I: Organochlorine Pesticides (QCLot: 6184381)								
EP075: alpha-BHC	319-84-6	2	µg/L	<2	10 µg/L	68.2	40.3	120
EP075: beta-BHC	319-85-7	2	µg/L	<2	10 µg/L	81.3	50.0	150
EP075: gamma-BHC - (Lindane)	58-89-9	2	µg/L	<2	10 µg/L	74.3	50.0	150
EP075: delta-BHC	319-86-8	2	µg/L	<2	10 µg/L	87.1	44.4	119
EP075: Heptachlor	76-44-8	2	µg/L	<2	10 µg/L	76.5	38.7	110
EP075: Aldrin	309-00-2	2	µg/L	<2	10 µg/L	81.5	47.2	122
EP075: Heptachlor epoxide	1024-57-3	2	µg/L	<2	10 µg/L	83.3	42.9	114
EP075: alpha-Endosulfan	959-98-8	2	µg/L	<2	10 µg/L	88.3	50.0	150
EP075: 4.4`-DDE	72-55-9	2	µg/L	<2	10 µg/L	87.7	45.3	118
EP075: Dieldrin	60-57-1	2	µg/L	<2	10 µg/L	87.8	48.4	119
EP075: Endrin	72-20-8	2	µg/L	<2	10 µg/L	86.6	33.6	116
EP075: beta-Endosulfan	33213-65-9	2	µg/L	<2	10 µg/L	90.5	50.0	150
EP075: 4.4`-DDD	72-54-8	2	µg/L	<2	10 µg/L	88.1	40.9	123
EP075: Endosulfan sulfate	1031-07-8	2	µg/L	<2	10 µg/L	90.7	36.7	130
EP075: 4.4`-DDT	50-29-3	4	µg/L	<4	10 µg/L	84.8	19.8	117
EP075: Sum of Aldrin + Dieldrin	309-00-2/60-57-1	4	µg/L	<4	----	----	----	----
EP075: Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	4	µg/L	<4	----	----	----	----
EP075J: Organophosphorus Pesticides (QCLot: 6184381)								
EP075: Dichlorvos	62-73-7	2	µg/L	<2	10 µg/L	43.0	34.9	104
EP075: Dimethoate	60-51-5	2	µg/L	<2	10 µg/L	61.4	23.5	107
EP075: Diazinon	333-41-5	2	µg/L	<2	10 µg/L	86.6	41.9	125
EP075: Chlorpyrifos-methyl	5598-13-0	2	µg/L	<2	10 µg/L	85.3	50.0	150
EP075: Malathion	121-75-5	2	µg/L	<2	10 µg/L	76.8	50.0	150
EP075: Fenthion	55-38-9	2	µg/L	<2	10 µg/L	84.3	50.0	150

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP075J: Organophosphorus Pesticides (QCLot: 6184381) - continued								
EP075: Chlorpyrifos	2921-88-2	2	µg/L	<2	10 µg/L	82.8	41.6	118
EP075: Pirimphos-ethyl	23505-41-1	2	µg/L	<2	10 µg/L	82.5	41.7	121
EP075: Chlorfenvinphos	470-90-6	2	µg/L	<2	10 µg/L	76.2	50.0	150
EP075: Prothiofos	34643-46-4	2	µg/L	<2	10 µg/L	99.5	40.5	120
EP075: Ethion	563-12-2	2	µg/L	<2	10 µg/L	80.8	36.6	121
EP080/071: Total Petroleum Hydrocarbons (QCLot: 6178222)								
EP080: C6 - C9 Fraction	----	20	µg/L	<20	360 µg/L	90.2	73.6	113
EP080/071: Total Petroleum Hydrocarbons (QCLot: 6184378)								
EP071: C10 - C14 Fraction	----	50	µg/L	<50	5676 µg/L	66.7	39.3	103
EP071: C15 - C28 Fraction	----	100	µg/L	<100	10740 µg/L	81.5	47.2	122
EP071: C29 - C36 Fraction	----	50	µg/L	<50	3044 µg/L	81.2	42.5	119
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 6178222)								
EP080: C6 - C10 Fraction	C6_C10	20	µg/L	<20	450 µg/L	95.4	73.9	115
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 6184378)								
EP071: >C10 - C16 Fraction	----	100	µg/L	<100	7710 µg/L	70.0	47.0	100
EP071: >C16 - C34 Fraction	----	100	µg/L	<100	10930 µg/L	82.6	46.2	116
EP071: >C34 - C40 Fraction	----	100	µg/L	<100	1050 µg/L	74.4	24.7	137
EP080: BTEXN (QCLot: 6178222)								
EP080: Benzene	71-43-2	1	µg/L	<1	20 µg/L	92.9	84.1	114
EP080: Toluene	108-88-3	2	µg/L	<2	20 µg/L	96.3	81.0	115
EP080: Ethylbenzene	100-41-4	2	µg/L	<2	20 µg/L	101	84.4	113
EP080: meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	40 µg/L	102	84.3	114
EP080: ortho-Xylene	95-47-6	2	µg/L	<2	20 µg/L	99.3	86.5	111
EP080: Naphthalene	91-20-3	5	µg/L	<5	5 µg/L	113	77.0	118

Matrix Spike (MS) Report

The quality control term Matrix Spike (MS) refers to an intralaboratory split sample spiked with a representative set of target analytes. The purpose of this QC parameter is to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQOs). Ideal recovery ranges stated may be waived in the event of sample matrix interference.

Sub-Matrix: **WATER**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report: Spike Concentration	SpikeRecovery(%): MS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EG020F: Dissolved Metals by ICP-MS (QCLot: 6184227)							
EP2416587-011	Anonymous	EG020A-F: Arsenic	7440-38-2	0.2 mg/L	97.9	70.0	130

Sub-Matrix: **WATER**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*Concentration*	*MS*	*Low*	*High*
EG020F: Dissolved Metals by ICP-MS (QCLot: 6184227) - continued							
EP2416587-011	Anonymous	EG020A-F: Cadmium	7440-43-9	0.05 mg/L	99.2	70.0	130
		EG020A-F: Chromium	7440-47-3	0.2 mg/L	97.8	70.0	130
		EG020A-F: Copper	7440-50-8	0.2 mg/L	97.4	70.0	130
		EG020A-F: Lead	7439-92-1	0.2 mg/L	98.0	70.0	130
		EG020A-F: Nickel	7440-02-0	0.2 mg/L	98.2	70.0	130
		EG020A-F: Zinc	7440-66-6	0.2 mg/L	99.0	70.0	130
EG020F: Dissolved Metals by ICP-MS (QCLot: 6184228)							
EP2416670-007	RB	EG020A-F: Arsenic	7440-38-2	0.2 mg/L	101	70.0	130
		EG020A-F: Cadmium	7440-43-9	0.05 mg/L	101	70.0	130
		EG020A-F: Chromium	7440-47-3	0.2 mg/L	101	70.0	130
		EG020A-F: Copper	7440-50-8	0.2 mg/L	100	70.0	130
		EG020A-F: Lead	7439-92-1	0.2 mg/L	100	70.0	130
		EG020A-F: Nickel	7440-02-0	0.2 mg/L	100	70.0	130
		EG020A-F: Zinc	7440-66-6	0.2 mg/L	103	70.0	130
EG035F: Dissolved Mercury by FIMS (QCLot: 6184226)							
EP2416587-008	Anonymous	EG035F: Mercury	7439-97-6	0.005 mg/L	100	70.0	130
EP080/071: Total Petroleum Hydrocarbons (QCLot: 6178222)							
EP2416587-007	Anonymous	EP080: C6 - C9 Fraction	----	240 µg/L	82.2	77.0	137
EP080/071: Total Petroleum Hydrocarbons (QCLot: 6184378)							
EP2416670-002	GW 2	EP071: C10 - C14 Fraction	----	5676 µg/L	88.6	44.5	122
		EP071: C15 - C28 Fraction	----	10740 µg/L	106	55.1	143
		EP071: C29 - C36 Fraction	----	3044 µg/L	110	53.6	128
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 6178222)							
EP2416587-007	Anonymous	EP080: C6 - C10 Fraction	C6_C10	290 µg/L	82.5	77.0	137
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 6184378)							
EP2416670-002	GW 2	EP071: >C10 - C16 Fraction	----	7710 µg/L	93.2	44.5	122
		EP071: >C16 - C34 Fraction	----	10930 µg/L	110	55.1	143
		EP071: >C34 - C40 Fraction	----	1050 µg/L	94.1	53.6	128
EP080: BTEXN (QCLot: 6178222)							
EP2416587-007	Anonymous	EP080: Benzene	71-43-2	20 µg/L	95.7	77.0	122
		EP080: Toluene	108-88-3	20 µg/L	93.4	73.5	126

QA/QC Compliance Assessment to assist with Quality Review

Work Order	: **EP2416670**	Page	: 1 of 8
Client	: **West Soil & Water**	Laboratory	: Environmental Division Perth
Contact	: Sam Mueller	Telephone	: +61-8-9406 1301
Project	: 2024_147 Burswood Road Additional Investigation	Date Samples Received	: 07-Nov-2024
Site	: 147 Burswood Rd	Issue Date	: 15-Nov-2024
Sampler	: ----	No. of samples received	: 8
Order number	: 147-BR	No. of samples analysed	: 8

This report is automatically generated by the ALS LIMS through interpretation of the ALS Quality Control Report and several Quality Assurance parameters measured by ALS. This automated reporting highlights any non-conformances, facilitates faster and more accurate data validation and is designed to assist internal expert and external Auditor review. Many components of this report contribute to the overall DQO assessment and reporting for guideline compliance.

Brief method summaries and references are also provided to assist in traceability.

Summary of Outliers

Outliers : Quality Control Samples

This report highlights outliers flagged in the Quality Control (QC) Report.

- **NO Method Blank value outliers occur.**
- **NO Duplicate outliers occur.**
- **NO Matrix Spike outliers occur.**
- **Laboratory Control outliers exist - please see following pages for full details.**
- **Surrogate recovery outliers exist for all regular sample matrices - please see following pages for full details.**

Outliers : Analysis Holding Time Compliance

- **NO Analysis Holding Time Outliers exist.**

Outliers : Frequency of Quality Control Samples

- **Quality Control Sample Frequency Outliers exist - please see following pages for full details.**

Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: **WATER**

Compound Group Name	Laboratory Sample ID	Client Sample ID	Analyte	CAS Number	Data	Limits	Comment
Laboratory Control Spike (LCS) Recoveries							
EP075B: Polynuclear Aromatic Hydrocarbons	QC-6184381-002	----	**7.12-Dimethylbenz(a)anthracene**	57-97-6	25.6 %	37.9-123%	**Recovery less than lower control limit**
EP075H: Anilines and Benzidines	QC-6184381-002	----	**2-Nitroaniline**	88-74-4	43.5 %	50.0-150%	**Recovery less than lower control limit**

Regular Sample Surrogates

Sub-Matrix: **WATER**

Compound Group Name	Laboratory Sample ID	Client Sample ID	Analyte	CAS Number	Data	Limits	Comment
Samples Submitted							
EP075S: Acid Extractable Surrogates	EP2416670-005	X1	**2-Chlorophenol-D4**	93951-73-6	42.4 %	43.5-124 %	**Recovery less than lower data quality objective**
EP075T: Base/Neutral Extractable Surrogates	EP2416670-005	X1	**Nitrobenzene-D5**	4165-60-0	50.3 %	51.1-130 %	**Recovery less than lower data quality objective**
EP075T: Base/Neutral Extractable Surrogates	EP2416670-005	X1	**2-Fluorobiphenyl**	321-60-8	41.1 %	42.2-136 %	**Recovery less than lower data quality objective**

Outliers : Frequency of Quality Control Samples

Matrix: **WATER**

Quality Control Sample Type		Count		Rate (%)		Quality Control Specification
Analytical Methods	Method	QC	Regular	Actual	Expected	
Laboratory Duplicates (DUP)						
TRH - Semivolatile Fraction	EP071	1	14	7.14	10.00	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)						
PAH/Phenols (GC/MS - SIM)	EP075(SIM)	0	9	0.00	5.00	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	0	8	0.00	5.00	NEPM 2013 B3 & ALS QC Standard
Semivolatile Organic Compounds	EP075	0	8	0.00	5.00	NEPM 2013 B3 & ALS QC Standard

Analysis Holding Time Compliance

If samples are identified below as having been analysed or extracted outside of recommended holding times, this should be taken into consideration when interpreting results.

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times (referencing USEPA SW 846, APHA, AS and NEPM) based on the sample container provided. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. A listing of breaches (if any) is provided herein.

Holding time for leachate methods (e.g. TCLP) vary according to the analytes reported. Assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These are: organics 14 days, mercury 28 days & other metals 180 days. A recorded breach does not guarantee a breach for all non-volatile parameters.

Holding times for ***VOC in soils*** vary according to analytes of interest. Vinyl Chloride and Styrene holding time is 7 days; others 14 days. A recorded breach does not guarantee a breach for all VOC analytes and should be verified in case the reported breach is a false positive or Vinyl Chloride and Styrene are not key analytes of interest/concern.

Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / *Container / Client Sample ID(s)*	*Sample Date*	*Extraction / Preparation*			*Analysis*		
		Date extracted	*Due for extraction*	*Evaluation*	*Date analysed*	*Due for analysis*	*Evaluation*

Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EG020F: Dissolved Metals by ICP-MS							
Clear Plastic Bottle - Filtered; Lab-acidified (EG020A-F)							
GW 1, GW 2, GW 3, GW 4, X1, TB, RB, FB	**07-Nov-2024**	**----**	----	----	**13-Nov-2024**	06-May-2025	✓
EG035F: Dissolved Mercury by FIMS							
Clear Plastic Bottle - Filtered; Lab-acidified (EG035F)							
GW 1, GW 2, GW 3, GW 4, X1, TB, RB, FB	**07-Nov-2024**	**----**	----	----	**13-Nov-2024**	05-Dec-2024	✓
EP068A: Organochlorine Pesticides (OC)							
Amber Glass Bottle - Unpreserved (EP068)							
GW 1, GW 2, GW 3, GW 4, X1, TB, RB, FB	**07-Nov-2024**	**13-Nov-2024**	14-Nov-2024	✓	**14-Nov-2024**	23-Dec-2024	✓
EP068B: Organophosphorus Pesticides (OP)							
Amber Glass Bottle - Unpreserved (EP068)							
GW 1, GW 2, GW 3, GW 4, X1, TB, RB, FB	**07-Nov-2024**	**13-Nov-2024**	14-Nov-2024	✓	**14-Nov-2024**	23-Dec-2024	✓
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons							
Amber Glass Bottle - Unpreserved (EP075(SIM))							
GW 1, GW 2, GW 3, GW 4, X1, TB, RB, FB	**07-Nov-2024**	**13-Nov-2024**	14-Nov-2024	✓	**15-Nov-2024**	23-Dec-2024	✓
EP075A: Phenolic Compounds							
Amber Glass Bottle - Unpreserved (EP075)							
GW 1, GW 2, GW 3, GW 4	**07-Nov-2024**	**13-Nov-2024**	14-Nov-2024	✓	**14-Nov-2024**	23-Dec-2024	✓
Amber Glass Bottle - Unpreserved (EP075)							
X1, TB, RB, FB	**07-Nov-2024**	**13-Nov-2024**	14-Nov-2024	✓	**15-Nov-2024**	23-Dec-2024	✓

Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP075B: Polynuclear Aromatic Hydrocarbons							
Amber Glass Bottle - Unpreserved (EP075) GW 1, GW 2, GW 3, GW 4	**07-Nov-2024**	**13-Nov-2024**	14-Nov-2024	✓	**14-Nov-2024**	23-Dec-2024	✓
Amber Glass Bottle - Unpreserved (EP075) X1, TB, RB, FB	**07-Nov-2024**	**13-Nov-2024**	14-Nov-2024	✓	**15-Nov-2024**	23-Dec-2024	✓
EP075C: Phthalate Esters							
Amber Glass Bottle - Unpreserved (EP075) GW 1, GW 2, GW 3, GW 4	**07-Nov-2024**	**13-Nov-2024**	14-Nov-2024	✓	**14-Nov-2024**	23-Dec-2024	✓
Amber Glass Bottle - Unpreserved (EP075) X1, TB, RB, FB	**07-Nov-2024**	**13-Nov-2024**	14-Nov-2024	✓	**15-Nov-2024**	23-Dec-2024	✓
EP075D: Nitrosamines							
Amber Glass Bottle - Unpreserved (EP075) GW 1, GW 2, GW 3, GW 4	**07-Nov-2024**	**13-Nov-2024**	14-Nov-2024	✓	**14-Nov-2024**	23-Dec-2024	✓
Amber Glass Bottle - Unpreserved (EP075) X1, TB, RB, FB	**07-Nov-2024**	**13-Nov-2024**	14-Nov-2024	✓	**15-Nov-2024**	23-Dec-2024	✓
EP075E: Nitroaromatics and Ketones							
Amber Glass Bottle - Unpreserved (EP075) GW 1, GW 2, GW 3, GW 4	**07-Nov-2024**	**13-Nov-2024**	14-Nov-2024	✓	**14-Nov-2024**	23-Dec-2024	✓
Amber Glass Bottle - Unpreserved (EP075) X1, TB, RB, FB	**07-Nov-2024**	**13-Nov-2024**	14-Nov-2024	✓	**15-Nov-2024**	23-Dec-2024	✓
EP075F: Haloethers							
Amber Glass Bottle - Unpreserved (EP075) GW 1, GW 2, GW 3, GW 4	**07-Nov-2024**	**13-Nov-2024**	14-Nov-2024	✓	**14-Nov-2024**	23-Dec-2024	✓
Amber Glass Bottle - Unpreserved (EP075) X1, TB, RB, FB	**07-Nov-2024**	**13-Nov-2024**	14-Nov-2024	✓	**15-Nov-2024**	23-Dec-2024	✓
EP075G: Chlorinated Hydrocarbons							
Amber Glass Bottle - Unpreserved (EP075) GW 1, GW 2, GW 3, GW 4	**07-Nov-2024**	**13-Nov-2024**	14-Nov-2024	✓	**14-Nov-2024**	23-Dec-2024	✓
Amber Glass Bottle - Unpreserved (EP075) X1, TB, RB, FB	**07-Nov-2024**	**13-Nov-2024**	14-Nov-2024	✓	**15-Nov-2024**	23-Dec-2024	✓

Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP075H: Anilines and Benzidines							
Amber Glass Bottle - Unpreserved (EP075)							
GW 1, GW 2, GW 3, GW 4	**07-Nov-2024**	**13-Nov-2024**	14-Nov-2024	✓	**14-Nov-2024**	23-Dec-2024	✓
Amber Glass Bottle - Unpreserved (EP075)							
X1, TB, RB, FB	**07-Nov-2024**	**13-Nov-2024**	14-Nov-2024	✓	**15-Nov-2024**	23-Dec-2024	✓
EP075I: Organochlorine Pesticides							
Amber Glass Bottle - Unpreserved (EP075)							
GW 1, GW 2, GW 3, GW 4	**07-Nov-2024**	**13-Nov-2024**	14-Nov-2024	✓	**14-Nov-2024**	23-Dec-2024	✓
Amber Glass Bottle - Unpreserved (EP075)							
X1, TB, RB, FB	**07-Nov-2024**	**13-Nov-2024**	14-Nov-2024	✓	**15-Nov-2024**	23-Dec-2024	✓
EP075J: Organophosphorus Pesticides							
Amber Glass Bottle - Unpreserved (EP075)							
GW 1, GW 2, GW 3, GW 4	**07-Nov-2024**	**13-Nov-2024**	14-Nov-2024	✓	**14-Nov-2024**	23-Dec-2024	✓
Amber Glass Bottle - Unpreserved (EP075)							
X1, TB, RB, FB	**07-Nov-2024**	**13-Nov-2024**	14-Nov-2024	✓	**15-Nov-2024**	23-Dec-2024	✓
EP080/071: Total Petroleum Hydrocarbons							
Amber Glass Bottle - Unpreserved (EP071)							
GW 1, GW 2, GW 3, GW 4, X1, TB, RB, FB	**07-Nov-2024**	**13-Nov-2024**	14-Nov-2024	✓	**15-Nov-2024**	23-Dec-2024	✓
Amber VOC Vial - Sulfuric Acid (EP080)							
GW 1, GW 2, GW 3, GW 4, X1, TB, RB, FB	**07-Nov-2024**	**12-Nov-2024**	21-Nov-2024	✓	**13-Nov-2024**	21-Nov-2024	✓
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions							
Amber Glass Bottle - Unpreserved (EP071)							
GW 1, GW 2, GW 3, GW 4, X1, TB, RB, FB	**07-Nov-2024**	**13-Nov-2024**	14-Nov-2024	✓	**15-Nov-2024**	23-Dec-2024	✓
Amber VOC Vial - Sulfuric Acid (EP080)							
GW 1, GW 2, GW 3, GW 4, X1, TB, RB, FB	**07-Nov-2024**	**12-Nov-2024**	21-Nov-2024	✓	**13-Nov-2024**	21-Nov-2024	✓

Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP080: BTEXN							
Amber VOC Vial - Sulfuric Acid (EP080)							
GW 1, GW 2, GW 3, GW 4, X1, TB, RB, FB	**07-Nov-2024**	**12-Nov-2024**	21-Nov-2024	✓	**13-Nov-2024**	21-Nov-2024	✓

Quality Control Parameter Frequency Compliance

The following report summarises the frequency of laboratory QC samples analysed within the analytical lot(s) in which the submitted sample(s) was(were) processed. Actual rate should be greater than or equal to the expected rate. A listing of breaches is provided in the Summary of Outliers.

Matrix: **WATER**

Evaluation: × = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	*Method*	*QC*	*Regular*	***Actual***	***Expected***	*Evaluation*	
Laboratory Duplicates (DUP)							
Dissolved Mercury by FIMS	EG035F	2	18	**11.11**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Dissolved Metals by ICP-MS - Suite A	EG020A-F	4	32	**12.50**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (GC/MS - SIM)	EP075(SIM)	1	9	**11.11**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	1	8	**12.50**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Semivolatile Organic Compounds	EP075	1	8	**12.50**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	14	**7.14**	**10.00**	×	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Dissolved Mercury by FIMS	EG035F	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Dissolved Metals by ICP-MS - Suite A	EG020A-F	2	32	**6.25**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (GC/MS - SIM)	EP075(SIM)	1	9	**11.11**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	1	8	**12.50**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Semivolatile Organic Compounds	EP075	1	8	**12.50**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	14	**7.14**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Dissolved Mercury by FIMS	EG035F	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Dissolved Metals by ICP-MS - Suite A	EG020A-F	2	32	**6.25**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (GC/MS - SIM)	EP075(SIM)	1	9	**11.11**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	1	8	**12.50**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Semivolatile Organic Compounds	EP075	1	8	**12.50**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	14	**7.14**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Dissolved Mercury by FIMS	EG035F	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Dissolved Metals by ICP-MS - Suite A	EG020A-F	2	32	**6.25**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (GC/MS - SIM)	EP075(SIM)	0	9	**0.00**	**5.00**	×	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	0	8	**0.00**	**5.00**	×	NEPM 2013 B3 & ALS QC Standard
Semivolatile Organic Compounds	EP075	0	8	**0.00**	**5.00**	×	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	14	**7.14**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard

Brief Method Summaries

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

Analytical Methods	Method	Matrix	Method Descriptions
Dissolved Metals by ICP-MS - Suite A	EG020A-F	WATER	In house: Referenced to APHA 3125; USEPA SW846 - 6020, ALS QWI-EN/EG020. Samples are 0.45µm filtered prior to analysis. The ICPMS technique utilizes a highly efficient argon plasma to ionize selected elements. Ions are then passed into a high vacuum mass spectrometer, which separates the analytes based on their distinct mass to charge ratios prior to their measurement by a discrete dynode ion detector.
Dissolved Mercury by FIMS	EG035F	WATER	In house: Referenced to APHA 3112 Hg - B (Flow-injection (SnCl2)(Cold Vapour generation) AAS) Samples are 0.45µm filtered prior to analysis. FIM-AAS is an automated flameless atomic absorption technique. A bromate/bromide reagent is used to oxidise any organic mercury compounds in the filtered sample. The ionic mercury is reduced online to atomic mercury vapour by SnCl2 which is then purged into a heated quartz cell. Quantification is by comparing absorbance against a calibration curve. This method is compliant with NEPM Schedule B(3).
Pesticides by GCMS	EP068	WATER	In house: Referenced to USEPA SW 846 - 8270 Sample extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3)
TRH - Semivolatile Fraction	EP071	WATER	In house: Referenced to USEPA SW 846 - 8015 The sample extract is analysed by Capillary GC/FID and quantification is by comparison against an established 5 point calibration curve of n-Alkane standards. This method is compliant with the QC requirements of NEPM Schedule B(3)
Semivolatile Organic Compounds	EP075	WATER	In house: Referenced to USEPA SW 846 - 8270 Sample extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3)
PAH/Phenols (GC/MS - SIM)	EP075(SIM)	WATER	In house: Referenced to USEPA SW 846 - 8270 Sample extracts are analysed by Capillary GC/MS in SIM Mode and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3)
TRH Volatiles/BTEX	EP080	WATER	In house: Referenced to USEPA SW 846 - 8260 Water samples are directly purged prior to analysis by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. Alternatively, a sample is equilibrated in a headspace vial and a portion of the headspace determined by GCMS analysis. This method is compliant with the QC requirements of NEPM Schedule B(3)

Preparation Methods	Method	Matrix	Method Descriptions
Separatory Funnel Extraction of Liquids	ORG14	WATER	In house: Referenced to USEPA SW 846 - 3510 100 mL to 1L of sample is transferred to a separatory funnel and serially extracted three times using DCM for each extract. The resultant extracts are combined, dehydrated and concentrated for analysis. This method is compliant with NEPM Schedule B(3) . ALS default excludes sediment which may be resident in the container.
Volatiles Water Preparation	ORG16-W	WATER	A 5 mL aliquot or 5 mL of a diluted sample is added to a 40 mL VOC vial for purging.

#1157949

Page 1 of 1

Project Reference	147-BR
WSW Reference	20240730_147 Burswood Road Additional Investigations
Site	147 Buswood Rd
Sample Type	Soil/Water
Scientist(s)	S.Mueller A. Scanlan
Results:	sam@westsoilandwater.com.au audrey@westsoilandwater.com.au brad@westsoilandwater.com.au
Invoice:	sam@westsoilandwater.com.au admin@westsoilandwater.com.au

WEST SOIL & WATER

p: 0424021264
e: sam@westsoilandwater.com.au

w: www.westsoilandwater.com.au

SAMPLE ID.	DATE	TIME	PRESERVATION Ice	PRESERVATION None	TRH	BTEXN	PAH	Suite of Eight Heavy Metals (As, Cd, Cr, Cu, Hg, Ni, Pb, Zn)	OC/OP Pesticides	SVOCs					Total # of Containers	COMMENTS	LAB ID
ANALYSIS SUITES																	
SOILS																	
X2	7/11/2024	am	X		X	X	X	X	X	X					4		

Total # of Containers: 4 **Total # of Eskies:** 3

Relinquished by	S.Mueller
Organisation	WS&W
Date	7/11/2024
Time	1230
Signature	

Received by	
Organisation	
Date	07/11/24 15:05 9°C
Time	
Condition upon reciept	

Notes:

Quote #:

www.eurofins.com.au EnviroSales@eurofins.com

Eurofins ARL Pty Ltd ABN: 91 05 0159 898

Perth	Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
46-48 Banksia Road	6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Welshpool	Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
WA 6106	VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 8 6253 4444	+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448
NATA# 2377	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 2370 & 2554	Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079

Eurofins Environment Testing Australia Pty Ltd ABN: 50 005 085 521

Eurofins Environment Testing NZ Ltd NZBN: 9429046024954

Auckland	Auckland (Focus)	Christchurch	Tauranga
35 O'Rorke Road	Unit C1/4 Pacific Rise,	43 Detroit Drive	1277 Cameron Road,
Penrose,	Mount Wellington,	Rolleston,	Gate Pa,
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Sample Receipt Advice

Company name: West Soil and Water
Contact name: Sam Muller
Project name: 20240730_147 BURSWOOD ROAD ADDITIONAL INVESTIGATIONS
Project ID: 147-BR
Turnaround time: 5 Day
Date/Time received Nov 7, 2024 3:05 PM
Eurofins reference 1157949

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
✓	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
X	Split sample sent to requested external lab.
X	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:

Celeste Chinnery on phone : or by email: celestechinnery@eurofins.com

Results will be delivered electronically via email to Sam Muller - sam@westsoilandwater.com.au.

Global Leader - Results you can trust

eurofins

web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
WA 6106
+61 8 6253 4444
NATA# 2377
Site# 2370 & 2554

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South
VIC 3175
+61 3 8564 5000
NATA# 1261
Site# 1254

Geelong
19/8 Lewalan Street
Grovedale
VIC 3216
+61 3 8564 5000
NATA# 1261
Site# 25403

Sydney
179 Magowar Road
Girraween
NSW 2145
+61 2 9900 8400
NATA# 1261
Site# 18217

Canberra
Unit 1,2 Dacre Street
Mitchell
ACT 2911
+61 2 6113 8091
NATA# 1261
Site# 25466

Brisbane
1/21 Smallwood Place
Murarrie
QLD 4172
T: +61 7 3902 4600
NATA# 1261
Site# 20794 & 2780

Newcastle
1/2 Frost Drive
Mayfield West
NSW 2304
+61 2 4968 8448
NATA# 1261
Site# 25079

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
+64 9 526 4551
IANZ# 1327

Auckland (Focus)
Unit C1/4 Pacific Rise,
Mount Wellington,
Auckland 1061
+64 9 525 0568
IANZ# 1308

Christchurch
43 Detroit Drive
Rolleston,
Christchurch 7675
+64 3 343 5201
IANZ# 1290

Tauranga
1277 Cameron Road,
Gate Pa,
Tauranga 3112
+64 9 525 0568
IANZ# 1402

Company Name: West Soil and Water
Address: 3/194 Holbeck Street
Doubleview
WA 6018

Order No.:
Report #: 1157949
Phone: 0424 021 264
Fax:

Received: Nov 7, 2024 3:05 PM
Due: Nov 14, 2024
Priority: 5 Day
Contact Name: Sam Muller

Project Name: 20240730_147 BURSWOOD ROAD ADDITIONAL INVESTIGATIONS
Project ID: 147-BR

Eurofins Analytical Services Manager : Celeste Chinnery

Sample Detail						Metals M8	Suite B14: OCP/OPP	Semivolatile Organics	Eurofins Suite B4
Perth Laboratory - NATA # 2377 Site # 2370 & 2554						X			
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X
External Laboratory									
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**				
1	X2	Nov 07, 2024		Water	L24-No0020433	X	X	X	X
Test Counts						1	1	1	1

West Soil and Water
3/194 Holbeck Street
Doubleview
WA 6018

NATA Accredited
Accreditation Number 1261
Site Number 1254

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: **Sam Muller**

Report **1157949-W**
Project name 20240730_147 BURSWOOD ROAD ADDITIONAL INVESTIGATIONS
Project ID 147-BR
Received Date Nov 07, 2024

Client Sample ID			**X2**
Sample Matrix			**Water**
Eurofins Sample No.			**L24-No0020433**
Date Sampled			**Nov 07, 2024**
Test/Reference	LOR	Unit	
Total Recoverable Hydrocarbons			
TRH C6-C9	0.02	mg/L	< 0.02
TRH C10-C14	0.05	mg/L	< 0.05
TRH C15-C28	0.1	mg/L	< 0.1
TRH C29-C36	0.1	mg/L	< 0.1
TRH C10-C36 (Total)	0.1	mg/L	< 0.1
TRH C6-C10	0.02	mg/L	< 0.02
TRH C6-C10 less BTEX (F1)[N04]	0.02	mg/L	< 0.02
TRH >C10-C16	0.05	mg/L	< 0.05
TRH >C10-C16 less Naphthalene (F2)*[N01]	0.05	mg/L	< 0.05
TRH >C16-C34	0.1	mg/L	< 0.1
TRH >C34-C40	0.1	mg/L	< 0.1
TRH >C10-C40 (total)*	0.1	mg/L	< 0.1
BTEX			
Benzene	0.001	mg/L	< 0.001
Toluene	0.001	mg/L	< 0.001
Ethylbenzene	0.001	mg/L	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002
o-Xylene	0.001	mg/L	< 0.001
Xylenes - Total*	0.003	mg/L	< 0.003
BTEX			
4-Bromofluorobenzene (surr.)	1	%	110
Total Recoverable Hydrocarbons - 2013 NEPM Fractions			
Naphthalene[N02]	0.01	mg/L	< 0.01
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

Client Sample ID			X2
Sample Matrix			Water
Eurofins Sample No.			L24-No0020433
Date Sampled			Nov 07, 2024
Test/Reference	LOR	Unit	
Polycyclic Aromatic Hydrocarbons			
Fluoranthene	0.001	mg/L	< 0.001
Fluorene	0.001	mg/L	< 0.001
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001
Naphthalene	0.001	mg/L	< 0.001
Phenanthrene	0.001	mg/L	< 0.001
Pyrene	0.001	mg/L	< 0.001
Total PAH*	0.001	mg/L	< 0.001
2-Fluorobiphenyl (surr.)	1	%	85
p-Terphenyl-d14 (surr.)	1	%	67
Organochlorine Pesticides			
Chlordanes - Total	0.002	mg/L	< 0.002
4.4'-DDD	0.0002	mg/L	< 0.0002
4.4'-DDE	0.0002	mg/L	< 0.0002
4.4'-DDT	0.0002	mg/L	< 0.0002
a-HCH	0.0002	mg/L	< 0.0002
Aldrin	0.0002	mg/L	< 0.0002
b-HCH	0.0002	mg/L	< 0.0002
d-HCH	0.0002	mg/L	< 0.0002
Dieldrin	0.0002	mg/L	< 0.0002
Endosulfan I	0.0002	mg/L	< 0.0002
Endosulfan II	0.0002	mg/L	< 0.0002
Endosulfan sulphate	0.0002	mg/L	< 0.0002
Endrin	0.0002	mg/L	< 0.0002
Endrin aldehyde	0.0002	mg/L	< 0.0002
Endrin ketone	0.0002	mg/L	< 0.0002
g-HCH (Lindane)	0.0002	mg/L	< 0.0002
Heptachlor	0.0002	mg/L	< 0.0002
Heptachlor epoxide	0.0002	mg/L	< 0.0002
Hexachlorobenzene	0.0002	mg/L	< 0.0002
Methoxychlor	0.0002	mg/L	< 0.0002
Toxaphene	0.005	mg/L	< 0.005
Aldrin and Dieldrin (Total)*	0.0002	mg/L	< 0.0002
DDT + DDE + DDD (Total)*	0.0002	mg/L	< 0.0002
Vic EPA IWRG 621 OCP (Total)*	0.002	mg/L	< 0.002
Vic EPA IWRG 621 Other OCP (Total)*	0.002	mg/L	< 0.002
Dibutylchlorendate (surr.)	1	%	67
Tetrachloro-m-xylene (surr.)	1	%	64
Organophosphorus Pesticides			
Azinphos-methyl	0.002	mg/L	< 0.002
Bolstar	0.002	mg/L	< 0.002
Chlorfenvinphos	0.02	mg/L	< 0.02
Chlorpyrifos	0.002	mg/L	< 0.002
Chlorpyrifos-methyl	0.002	mg/L	< 0.002
Coumaphos	0.02	mg/L	< 0.02
Demeton-S	0.002	mg/L	< 0.002
Demeton-O	0.002	mg/L	< 0.002
Diazinon	0.002	mg/L	< 0.002
Dichlorvos	0.002	mg/L	< 0.002
Dimethoate	0.002	mg/L	< 0.002

Client Sample ID			X2
Sample Matrix			Water
Eurofins Sample No.			L24-No0020433
Date Sampled			Nov 07, 2024
Test/Reference	LOR	Unit	
Organophosphorus Pesticides			
Disulfoton	0.002	mg/L	< 0.002
EPN	0.002	mg/L	< 0.002
Ethion	0.002	mg/L	< 0.002
Ethoprop	0.002	mg/L	< 0.002
Ethyl parathion	0.002	mg/L	< 0.002
Fenitrothion	0.002	mg/L	< 0.002
Fensulfothion	0.002	mg/L	< 0.002
Fenthion	0.002	mg/L	< 0.002
Malathion	0.002	mg/L	< 0.002
Merphos	0.002	mg/L	< 0.002
Methyl parathion	0.002	mg/L	< 0.002
Mevinphos	0.002	mg/L	< 0.002
Monocrotophos	0.002	mg/L	< 0.002
Naled	0.002	mg/L	< 0.002
Omethoate	0.02	mg/L	< 0.02
Phorate	0.002	mg/L	< 0.002
Pirimiphos-methyl	0.02	mg/L	< 0.02
Pyrazophos	0.002	mg/L	< 0.002
Ronnel	0.002	mg/L	< 0.002
Terbufos	0.002	mg/L	< 0.002
Tetrachlorvinphos	0.002	mg/L	< 0.002
Tokuthion	0.002	mg/L	< 0.002
Trichloronate	0.002	mg/L	< 0.002
Triphenylphosphate (surr.)	1	%	69
Semivolatile Organics			
Aldrin and Dieldrin (Total)*	0.0001	mg/L	< 0.005
DDT + DDE + DDD (Total)*	0.0001	mg/L	< 0.005
Total PAH*	0.001	mg/L	< 0.001
2-Methyl-4.6-dinitrophenol	0.03	mg/L	< 0.03
1-Chloronaphthalene	0.005	mg/L	< 0.005
1-Naphthylamine	0.005	mg/L	< 0.005
1.2-Dichlorobenzene	0.005	mg/L	< 0.005
1.2.3-Trichlorobenzene	0.005	mg/L	< 0.005
1.2.3.4-Tetrachlorobenzene	0.005	mg/L	< 0.005
1.2.3.5-Tetrachlorobenzene	0.005	mg/L	< 0.005
1.2.4-Trichlorobenzene	0.005	mg/L	< 0.005
1.2.4.5-Tetrachlorobenzene	0.005	mg/L	< 0.005
1.3-Dichlorobenzene	0.005	mg/L	< 0.005
1.3.5-Trichlorobenzene	0.005	mg/L	< 0.005
1.4-Dichlorobenzene	0.005	mg/L	< 0.005
2-Chloronaphthalene	0.005	mg/L	< 0.005
2-Chlorophenol	0.003	mg/L	< 0.003
2-Fluorobiphenyl (surr.)	1	%	85
2-Methylnaphthalene	0.005	mg/L	< 0.005
2-Methylphenol (o-Cresol)	0.003	mg/L	< 0.003
2-Naphthylamine	0.005	mg/L	< 0.005
2-Nitroaniline	0.005	mg/L	< 0.005
2-Nitrophenol	0.01	mg/L	< 0.01
2-Picoline	0.005	mg/L	< 0.005

Client Sample ID			X2
Sample Matrix			Water
Eurofins Sample No.			L24-No0020433
Date Sampled			Nov 07, 2024
Test/Reference	LOR	Unit	
Semivolatile Organics			
2.3.4.6-Tetrachlorophenol	0.01	mg/L	< 0.01
2.4-Dichlorophenol	0.003	mg/L	< 0.003
2.4-Dimethylphenol	0.003	mg/L	< 0.003
2.4-Dinitrophenol	0.03	mg/L	< 0.03
2.4-Dinitrotoluene	0.005	mg/L	< 0.005
2.4.5-Trichlorophenol	0.01	mg/L	< 0.01
2.4.6-Tribromophenol (surr.)	1	%	54
2.4.6-Trichlorophenol	0.01	mg/L	< 0.01
2.6-Dichlorophenol	0.003	mg/L	< 0.003
2.6-Dinitrotoluene	0.005	mg/L	< 0.005
3&4-Methylphenol (m&p-Cresol)	0.006	mg/L	< 0.006
3-Methylcholanthrene	0.005	mg/L	< 0.005
3.3'-Dichlorobenzidine	0.005	mg/L	< 0.005
4-Aminobiphenyl	0.005	mg/L	< 0.005
4-Bromophenyl phenyl ether	0.005	mg/L	< 0.005
4-Chloro-3-methylphenol	0.01	mg/L	< 0.01
4-Chlorophenyl phenyl ether	0.005	mg/L	< 0.005
4-Nitrophenol	0.03	mg/L	< 0.03
4.4'-DDD	0.005	mg/L	< 0.005
4.4'-DDE	0.005	mg/L	< 0.005
4.4'-DDT	0.005	mg/L	< 0.005
7.12-Dimethylbenz(a)anthracene	0.005	mg/L	< 0.005
a-HCH	0.005	mg/L	< 0.005
Acenaphthene	0.001	mg/L	< 0.001
Acenaphthylene	0.001	mg/L	< 0.001
Acetophenone	0.005	mg/L	< 0.005
Aldrin	0.005	mg/L	< 0.005
Aniline	0.005	mg/L	< 0.005
Anthracene	0.001	mg/L	< 0.001
b-HCH	0.005	mg/L	< 0.005
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
Benzyl chloride	0.005	mg/L	< 0.005
Bis(2-chloroethoxy)methane	0.005	mg/L	< 0.005
Bis(2-chloroisopropyl)ether	0.005	mg/L	< 0.005
Bis(2-ethylhexyl)phthalate	0.005	mg/L	< 0.005
Butyl benzyl phthalate	0.005	mg/L	< 0.005
Chrysene	0.001	mg/L	< 0.001
d-HCH	0.005	mg/L	< 0.005
Di-n-butyl phthalate	0.005	mg/L	< 0.005
Di-n-octyl phthalate	0.005	mg/L	< 0.005
Dibenz(a.h)anthracene	0.001	mg/L	< 0.001
Dibenz(a.j)acridine	0.005	mg/L	< 0.005
Dibenzofuran	0.005	mg/L	< 0.005
Dieldrin	0.005	mg/L	< 0.005
Diethyl phthalate	0.005	mg/L	< 0.005

Client Sample ID			X2
Sample Matrix			Water
Eurofins Sample No.			L24-No0020433
Date Sampled			Nov 07, 2024
Test/Reference	LOR	Unit	
Semivolatile Organics			
Dimethyl phthalate	0.005	mg/L	< 0.005
Dimethylaminoazobenzene	0.005	mg/L	< 0.005
Diphenylamine	0.005	mg/L	< 0.005
Endosulfan I	0.005	mg/L	< 0.005
Endosulfan II	0.005	mg/L	< 0.005
Endosulfan sulphate	0.005	mg/L	< 0.005
Endrin	0.005	mg/L	< 0.005
Endrin aldehyde	0.005	mg/L	< 0.005
Endrin ketone	0.005	mg/L	< 0.005
Fluoranthene	0.001	mg/L	< 0.001
Fluorene	0.001	mg/L	< 0.001
g-HCH (Lindane)	0.005	mg/L	< 0.005
Heptachlor	0.005	mg/L	< 0.005
Heptachlor epoxide	0.005	mg/L	< 0.005
Hexachlorobenzene	0.005	mg/L	< 0.005
Hexachlorobutadiene	0.005	mg/L	< 0.005
Hexachlorocyclopentadiene	0.005	mg/L	< 0.005
Hexachloroethane	0.005	mg/L	< 0.005
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001
Methoxychlor	0.005	mg/L	< 0.005
N-Nitrosodibutylamine	0.005	mg/L	< 0.005
N-Nitrosodipropylamine	0.005	mg/L	< 0.005
N-Nitrosopiperidine	0.005	mg/L	< 0.005
Naphthalene	0.001	mg/L	< 0.001
Nitrobenzene	0.05	mg/L	< 0.05
Nitrobenzene-d5 (surr.)	1	%	74
Pentachlorobenzene	0.005	mg/L	< 0.005
Pentachloronitrobenzene	0.005	mg/L	< 0.005
Pentachlorophenol	0.01	mg/L	< 0.01
Phenanthrene	0.001	mg/L	< 0.001
Phenol	0.003	mg/L	< 0.003
Phenol-d6 (surr.)	1	%	55
Pronamide	0.005	mg/L	< 0.005
Pyrene	0.001	mg/L	< 0.001
Trifluralin	0.005	mg/L	< 0.005
Heavy Metals			
Arsenic	0.001	mg/L	< 0.001
Cadmium	0.0001	mg/L	< 0.0001
Chromium	0.001	mg/L	< 0.001
Copper	0.001	mg/L	< 0.001
Lead	0.001	mg/L	< 0.001
Mercury	0.0001	mg/L	< 0.0001
Nickel	0.001	mg/L	< 0.001
Zinc	0.005	mg/L	0.008

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
Eurofins Suite B4			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Melbourne	Nov 11, 2024	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Nov 11, 2024	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Nov 11, 2024	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Melbourne	Nov 11, 2024	14 Days
- Method: LTM-ORG-2010 BTEX and Volatile TRH			
Polycyclic Aromatic Hydrocarbons	Melbourne	Nov 11, 2024	7 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Suite B14: OCP/OPP			
Organochlorine Pesticides	Melbourne	Nov 11, 2024	7 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8270)			
Organophosphorus Pesticides	Melbourne	Nov 11, 2024	7 Days
- Method: LTM-ORG-2200 Organophosphorus Pesticides by GC-MS (USEPA 8270)			
Semivolatile Organics	Melbourne	Nov 11, 2024	7 Days
- Method: USEPA SW 846 8270			
Metals M8	Welshpool	Nov 11, 2024	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			

eurofins

web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
WA 6106
+61 8 6253 4444
NATA# 2377
Site# 2370 & 2554

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South
VIC 3175
+61 3 8564 5000
NATA# 1261
Site# 1254

Geelong
19/8 Lewalan Street
Grovedale
VIC 3216
+61 3 8564 5000
NATA# 1261
Site# 25403

Sydney
179 Magowar Road
Girraween
NSW 2145
+61 2 9900 8400
NATA# 1261
Site# 18217

Canberra
Unit 1,2 Dacre Street
Mitchell
ACT 2911
+61 2 6113 8091
NATA# 1261
Site# 25466

Brisbane
1/21 Smallwood Place
Murarrie
QLD 4172
T: +61 7 3902 4600
NATA# 1261
Site# 20794 & 2780

Newcastle
1/2 Frost Drive
Mayfield West
NSW 2304
+61 2 4968 8448
NATA# 1261
Site# 25079

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
+64 9 526 4551
IANZ# 1327

Auckland (Focus)
Unit C1/4 Pacific Rise,
Mount Wellington,
Auckland 1061
+64 9 525 0568
IANZ# 1308

Christchurch
43 Detroit Drive
Rolleston,
Christchurch 7675
+64 3 343 5201
IANZ# 1290

Tauranga
1277 Cameron Road,
Gate Pa,
Tauranga 3112
+64 9 525 0568
IANZ# 1402

Company Name: West Soil and Water
Address: 3/194 Holbeck Street
Doubleview
WA 6018

Project Name: 20240730_147 BURSWOOD ROAD ADDITIONAL INVESTIGATIONS
Project ID: 147-BR

Order No.:
Report #: 1157949
Phone: 0424 021 264
Fax:

Received: Nov 7, 2024 3:05 PM
Due: Nov 14, 2024
Priority: 5 Day
Contact Name: Sam Muller

Eurofins Analytical Services Manager : Celeste Chinnery

Sample Detail						Metals M8	Suite B14: OCP/OPP	Semivolatile Organics	Eurofins Suite B4
Perth Laboratory - NATA # 2377 Site # 2370 & 2554						X			
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X
External Laboratory									
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**				
1	X2	Nov 07, 2024		Water	L24-No0020433	X	X	X	X
Test Counts						1	1	1	1

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follow guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013. They are included in this QC report where applicable. Additional QC data may be available on request.
2. Unless otherwise stated, all soil/sediment/solid results are reported on a dry weight basis.
3. Unless otherwise stated, all biota/food results are reported on a wet weight basis on the edible portion.
4. For CEC results where the sample's origin is unknown or environmentally contaminated, the results should be used advisedly.
5. Actual LORs are matrix dependent. Quoted LORs may be raised where sample extracts are diluted due to interferences.
6. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds where annotated.
7. SVOC analysis on waters is performed on homogenised, unfiltered samples unless noted otherwise.
8. Samples were analysed on an 'as received' basis.
9. Information identified in this report with **blue** colour indicates data provided by customers that may have an impact on the results.
10. This report replaces any interim results previously issued.

Holding Times

Please refer to the '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 before sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and despite any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the sampling date; therefore, compliance with these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether, the holding time is seven days; however, for all other VOCs, such as BTEX or C6-10 TRH, the holding time is 14 days.

Units

mg/kg: milligrams per kilogram
mg/L: milligrams per litre
ppm: parts per million
µg/L: micrograms per litre
ppb: parts per billion
%: Percentage
org/100 mL: Organisms per 100 millilitres
NTU: Nephelometric Turbidity Units
MPN/100 mL: Most Probable Number of organisms per 100 millilitres
CFU: Colony Forming Unit
Colour: Pt-Co Units (CU)

Terms

APHA	American Public Health Association
CEC	Cation Exchange Capacity
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 moisture has been determined on a solid sample, the result is expressed on a dry weight 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 represents 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 similar compound to the analyte target is reported as percentage recovery. See below for acceptance criteria.
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 6.0
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 only be used as a guide 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. SVOCs recoveries 20 – 150%, VOC recoveries 50 – 150%

PFAS field samples containing surrogate recoveries above the QC limit designated in QSM 6.0, where no positive PFAS results have been reported or reviewed, and no data was affected.

QC Data General Comments

1. Where a result is reported as 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 are 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							
TRH C6-C9	mg/L	< 0.02			0.02	Pass	
TRH C10-C14	mg/L	< 0.05			0.05	Pass	
TRH C15-C28	mg/L	< 0.1			0.1	Pass	
TRH C29-C36	mg/L	< 0.1			0.1	Pass	
TRH C6-C10	mg/L	< 0.02			0.02	Pass	
TRH >C10-C16	mg/L	< 0.05			0.05	Pass	
TRH >C16-C34	mg/L	< 0.1			0.1	Pass	
TRH >C34-C40	mg/L	< 0.1			0.1	Pass	
Method Blank							
BTEX							
Benzene	mg/L	< 0.001			0.001	Pass	
Toluene	mg/L	< 0.001			0.001	Pass	
Ethylbenzene	mg/L	< 0.001			0.001	Pass	
m&p-Xylenes	mg/L	< 0.002			0.002	Pass	
o-Xylene	mg/L	< 0.001			0.001	Pass	
Xylenes - Total*	mg/L	< 0.003			0.003	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/L	< 0.01			0.01	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/L	< 0.001			0.001	Pass	
Acenaphthylene	mg/L	< 0.001			0.001	Pass	
Anthracene	mg/L	< 0.001			0.001	Pass	
Benz(a)anthracene	mg/L	< 0.001			0.001	Pass	
Benzo(a)pyrene	mg/L	< 0.001			0.001	Pass	
Benzo(b&j)fluoranthene	mg/L	< 0.001			0.001	Pass	
Benzo(g.h.i)perylene	mg/L	< 0.001			0.001	Pass	
Benzo(k)fluoranthene	mg/L	< 0.001			0.001	Pass	
Chrysene	mg/L	< 0.001			0.001	Pass	
Dibenz(a.h)anthracene	mg/L	< 0.001			0.001	Pass	
Fluoranthene	mg/L	< 0.001			0.001	Pass	
Fluorene	mg/L	< 0.001			0.001	Pass	
Indeno(1.2.3-cd)pyrene	mg/L	< 0.001			0.001	Pass	
Naphthalene	mg/L	< 0.001			0.001	Pass	
Phenanthrene	mg/L	< 0.001			0.001	Pass	
Pyrene	mg/L	< 0.001			0.001	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/L	< 0.002			0.002	Pass	
4.4'-DDD	mg/L	< 0.0002			0.0002	Pass	
4.4'-DDE	mg/L	< 0.0002			0.0002	Pass	
4.4'-DDT	mg/L	< 0.0002			0.0002	Pass	
a-HCH	mg/L	< 0.0002			0.0002	Pass	
Aldrin	mg/L	< 0.0002			0.0002	Pass	
b-HCH	mg/L	< 0.0002			0.0002	Pass	
d-HCH	mg/L	< 0.0002			0.0002	Pass	
Dieldrin	mg/L	< 0.0002			0.0002	Pass	
Endosulfan I	mg/L	< 0.0002			0.0002	Pass	
Endosulfan II	mg/L	< 0.0002			0.0002	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endosulfan sulphate	mg/L	< 0.0002			0.0002	Pass	
Endrin	mg/L	< 0.0002			0.0002	Pass	
Endrin aldehyde	mg/L	< 0.0002			0.0002	Pass	
Endrin ketone	mg/L	< 0.0002			0.0002	Pass	
g-HCH (Lindane)	mg/L	< 0.0002			0.0002	Pass	
Heptachlor	mg/L	< 0.0002			0.0002	Pass	
Heptachlor epoxide	mg/L	< 0.0002			0.0002	Pass	
Hexachlorobenzene	mg/L	< 0.0002			0.0002	Pass	
Methoxychlor	mg/L	< 0.0002			0.0002	Pass	
Toxaphene	mg/L	< 0.005			0.005	Pass	
Method Blank							
Organophosphorus Pesticides							
Azinphos-methyl	mg/L	< 0.002			0.002	Pass	
Bolstar	mg/L	< 0.002			0.002	Pass	
Chlorfenvinphos	mg/L	< 0.02			0.02	Pass	
Chlorpyrifos	mg/L	< 0.002			0.002	Pass	
Chlorpyrifos-methyl	mg/L	< 0.002			0.002	Pass	
Coumaphos	mg/L	< 0.02			0.02	Pass	
Demeton-S	mg/L	< 0.002			0.002	Pass	
Demeton-O	mg/L	< 0.002			0.002	Pass	
Diazinon	mg/L	< 0.002			0.002	Pass	
Dichlorvos	mg/L	< 0.002			0.002	Pass	
Dimethoate	mg/L	< 0.002			0.002	Pass	
Disulfoton	mg/L	< 0.002			0.002	Pass	
EPN	mg/L	< 0.002			0.002	Pass	
Ethion	mg/L	< 0.002			0.002	Pass	
Ethoprop	mg/L	< 0.002			0.002	Pass	
Ethyl parathion	mg/L	< 0.002			0.002	Pass	
Fenitrothion	mg/L	< 0.002			0.002	Pass	
Fensulfothion	mg/L	< 0.002			0.002	Pass	
Fenthion	mg/L	< 0.002			0.002	Pass	
Malathion	mg/L	< 0.002			0.002	Pass	
Merphos	mg/L	< 0.002			0.002	Pass	
Methyl parathion	mg/L	< 0.002			0.002	Pass	
Mevinphos	mg/L	< 0.002			0.002	Pass	
Monocrotophos	mg/L	< 0.002			0.002	Pass	
Naled	mg/L	< 0.002			0.002	Pass	
Omethoate	mg/L	< 0.02			0.02	Pass	
Phorate	mg/L	< 0.002			0.002	Pass	
Pirimiphos-methyl	mg/L	< 0.02			0.02	Pass	
Pyrazophos	mg/L	< 0.002			0.002	Pass	
Ronnel	mg/L	< 0.002			0.002	Pass	
Terbufos	mg/L	< 0.002			0.002	Pass	
Tetrachlorvinphos	mg/L	< 0.002			0.002	Pass	
Tokuthion	mg/L	< 0.002			0.002	Pass	
Trichloronate	mg/L	< 0.002			0.002	Pass	
Method Blank							
Semivolatile Organics							
2-Methyl-4.6-dinitrophenol	mg/L	< 0.03			0.03	Pass	
1-Chloronaphthalene	mg/L	< 0.005			0.005	Pass	
1-Naphthylamine	mg/L	< 0.005			0.005	Pass	
1.2-Dichlorobenzene	mg/L	< 0.005			0.005	Pass	
1.2.3-Trichlorobenzene	mg/L	< 0.005			0.005	Pass	
1.2.3.4-Tetrachlorobenzene	mg/L	< 0.005			0.005	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
1.2.3.5-Tetrachlorobenzene	mg/L	< 0.005			0.005	Pass	
1.2.4-Trichlorobenzene	mg/L	< 0.005			0.005	Pass	
1.2.4.5-Tetrachlorobenzene	mg/L	< 0.005			0.005	Pass	
1.3-Dichlorobenzene	mg/L	< 0.005			0.005	Pass	
1.3.5-Trichlorobenzene	mg/L	< 0.005			0.005	Pass	
1.4-Dichlorobenzene	mg/L	< 0.005			0.005	Pass	
2-Chloronaphthalene	mg/L	< 0.005			0.005	Pass	
2-Chlorophenol	mg/L	< 0.003			0.003	Pass	
2-Methylnaphthalene	mg/L	< 0.005			0.005	Pass	
2-Methylphenol (o-Cresol)	mg/L	< 0.003			0.003	Pass	
2-Naphthylamine	mg/L	< 0.005			0.005	Pass	
2-Nitroaniline	mg/L	< 0.005			0.005	Pass	
2-Nitrophenol	mg/L	< 0.01			0.01	Pass	
2-Picoline	mg/L	< 0.005			0.005	Pass	
2.3.4.6-Tetrachlorophenol	mg/L	< 0.01			0.01	Pass	
2.4-Dichlorophenol	mg/L	< 0.003			0.003	Pass	
2.4-Dimethylphenol	mg/L	< 0.003			0.003	Pass	
2.4-Dinitrophenol	mg/L	< 0.03			0.03	Pass	
2.4-Dinitrotoluene	mg/L	< 0.005			0.005	Pass	
2.4.5-Trichlorophenol	mg/L	< 0.01			0.01	Pass	
2.4.6-Trichlorophenol	mg/L	< 0.01			0.01	Pass	
2.6-Dichlorophenol	mg/L	< 0.003			0.003	Pass	
2.6-Dinitrotoluene	mg/L	< 0.005			0.005	Pass	
3&4-Methylphenol (m&p-Cresol)	mg/L	< 0.006			0.006	Pass	
3-Methylcholanthrene	mg/L	< 0.005			0.005	Pass	
3.3'-Dichlorobenzidine	mg/L	< 0.005			0.005	Pass	
4-Aminobiphenyl	mg/L	< 0.005			0.005	Pass	
4-Bromophenyl phenyl ether	mg/L	< 0.005			0.005	Pass	
4-Chloro-3-methylphenol	mg/L	< 0.01			0.01	Pass	
4-Chlorophenyl phenyl ether	mg/L	< 0.005			0.005	Pass	
4-Nitrophenol	mg/L	< 0.03			0.03	Pass	
4.4'-DDD	mg/L	< 0.005			0.005	Pass	
4.4'-DDE	mg/L	< 0.005			0.005	Pass	
4.4'-DDT	mg/L	< 0.005			0.005	Pass	
7.12-Dimethylbenz(a)anthracene	mg/L	< 0.005			0.005	Pass	
a-HCH	mg/L	< 0.005			0.005	Pass	
Acetophenone	mg/L	< 0.005			0.005	Pass	
Aldrin	mg/L	< 0.005			0.005	Pass	
Aniline	mg/L	< 0.005			0.005	Pass	
b-HCH	mg/L	< 0.005			0.005	Pass	
Benzyl chloride	mg/L	< 0.005			0.005	Pass	
Bis(2-chloroethoxy)methane	mg/L	< 0.005			0.005	Pass	
Bis(2-chloroisopropyl)ether	mg/L	< 0.005			0.005	Pass	
Bis(2-ethylhexyl)phthalate	mg/L	< 0.005			0.005	Pass	
Butyl benzyl phthalate	mg/L	< 0.005			0.005	Pass	
d-HCH	mg/L	< 0.005			0.005	Pass	
Di-n-butyl phthalate	mg/L	< 0.005			0.005	Pass	
Di-n-octyl phthalate	mg/L	< 0.005			0.005	Pass	
Dibenz(a.j)acridine	mg/L	< 0.005			0.005	Pass	
Dibenzofuran	mg/L	< 0.005			0.005	Pass	
Dieldrin	mg/L	< 0.005			0.005	Pass	
Diethyl phthalate	mg/L	< 0.005			0.005	Pass	
Dimethyl phthalate	mg/L	< 0.005			0.005	Pass	
Dimethylaminoazobenzene	mg/L	< 0.005			0.005	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Diphenylamine	mg/L	< 0.005			0.005	Pass	
Endosulfan I	mg/L	< 0.005			0.005	Pass	
Endosulfan II	mg/L	< 0.005			0.005	Pass	
Endosulfan sulphate	mg/L	< 0.005			0.005	Pass	
Endrin	mg/L	< 0.005			0.005	Pass	
Endrin aldehyde	mg/L	< 0.005			0.005	Pass	
Endrin ketone	mg/L	< 0.005			0.005	Pass	
g-HCH (Lindane)	mg/L	< 0.005			0.005	Pass	
Heptachlor	mg/L	< 0.005			0.005	Pass	
Heptachlor epoxide	mg/L	< 0.005			0.005	Pass	
Hexachlorobenzene	mg/L	< 0.005			0.005	Pass	
Hexachlorobutadiene	mg/L	< 0.005			0.005	Pass	
Hexachlorocyclopentadiene	mg/L	< 0.005			0.005	Pass	
Hexachloroethane	mg/L	< 0.005			0.005	Pass	
Methoxychlor	mg/L	< 0.005			0.005	Pass	
N-Nitrosodibutylamine	mg/L	< 0.005			0.005	Pass	
N-Nitrosodipropylamine	mg/L	< 0.005			0.005	Pass	
N-Nitrosopiperidine	mg/L	< 0.005			0.005	Pass	
Nitrobenzene	mg/L	< 0.05			0.05	Pass	
Pentachlorobenzene	mg/L	< 0.005			0.005	Pass	
Pentachloronitrobenzene	mg/L	< 0.005			0.005	Pass	
Pentachlorophenol	mg/L	< 0.01			0.01	Pass	
Phenol	mg/L	< 0.003			0.003	Pass	
Pronamide	mg/L	< 0.005			0.005	Pass	
Trifluralin	mg/L	< 0.005			0.005	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/L	< 0.001			0.001	Pass	
Cadmium	mg/L	< 0.0001			0.0001	Pass	
Chromium	mg/L	< 0.001			0.001	Pass	
Copper	mg/L	< 0.001			0.001	Pass	
Lead	mg/L	< 0.001			0.001	Pass	
Mercury	mg/L	< 0.0001			0.0001	Pass	
Nickel	mg/L	< 0.001			0.001	Pass	
Zinc	mg/L	< 0.005			0.005	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	94			70-130	Pass	
TRH C10-C14	%	78			70-130	Pass	
TRH C6-C10	%	94			70-130	Pass	
TRH >C10-C16	%	76			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	89			70-130	Pass	
Toluene	%	91			70-130	Pass	
Ethylbenzene	%	90			70-130	Pass	
m&p-Xylenes	%	92			70-130	Pass	
Xylenes - Total*	%	93			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	77			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	113			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Acenaphthylene	%	121			70-130	Pass	
Anthracene	%	78			70-130	Pass	
Benz(a)anthracene	%	91			70-130	Pass	
Benzo(a)pyrene	%	98			70-130	Pass	
Benzo(b&j)fluoranthene	%	117			70-130	Pass	
Benzo(g.h.i)perylene	%	93			70-130	Pass	
Benzo(k)fluoranthene	%	117			70-130	Pass	
Chrysene	%	102			70-130	Pass	
Dibenz(a.h)anthracene	%	121			70-130	Pass	
Fluoranthene	%	91			70-130	Pass	
Fluorene	%	129			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	124			70-130	Pass	
Naphthalene	%	105			70-130	Pass	
Phenanthrene	%	114			70-130	Pass	
Pyrene	%	92			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	96			70-130	Pass	
4.4'-DDD	%	101			70-130	Pass	
4.4'-DDE	%	104			70-130	Pass	
4.4'-DDT	%	95			70-130	Pass	
a-HCH	%	129			70-130	Pass	
Aldrin	%	94			70-130	Pass	
b-HCH	%	86			70-130	Pass	
d-HCH	%	77			70-130	Pass	
Dieldrin	%	101			70-130	Pass	
Endosulfan I	%	100			70-130	Pass	
Endosulfan II	%	76			70-130	Pass	
Endosulfan sulphate	%	78			70-130	Pass	
Endrin	%	112			70-130	Pass	
Endrin aldehyde	%	96			70-130	Pass	
Endrin ketone	%	115			70-130	Pass	
g-HCH (Lindane)	%	81			70-130	Pass	
Heptachlor	%	115			70-130	Pass	
Heptachlor epoxide	%	105			70-130	Pass	
Hexachlorobenzene	%	90			70-130	Pass	
Methoxychlor	%	93			70-130	Pass	
LCS - % Recovery							
Organophosphorus Pesticides							
Diazinon	%	127			70-130	Pass	
Dimethoate	%	117			70-130	Pass	
Ethion	%	102			70-130	Pass	
Fenitrothion	%	97			70-130	Pass	
Mevinphos	%	108			70-130	Pass	
LCS - % Recovery							
Semivolatile Organics							
2-Methyl-4.6-dinitrophenol	%	54			25-140	Pass	
2-Chlorophenol	%	84			25-140	Pass	
2-Methylphenol (o-Cresol)	%	69			25-140	Pass	
2-Nitrophenol	%	79			25-140	Pass	
2.4-Dichlorophenol	%	72			25-140	Pass	
2.4-Dimethylphenol	%	57			25-140	Pass	
2.4-Dinitrophenol	%	45			25-140	Pass	
2.4.5-Trichlorophenol	%	74			25-140	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
2.4.6-Trichlorophenol	%	68			25-140	Pass	
2.6-Dichlorophenol	%	101			25-140	Pass	
3&4-Methylphenol (m&p-Cresol)	%	35			25-140	Pass	
4-Chloro-3-methylphenol	%	74			25-140	Pass	
4-Nitrophenol	%	31			25-140	Pass	
Pentachlorophenol	%	53			25-140	Pass	
Phenol	%	45			25-140	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	97			80-120	Pass	
Cadmium	%	97			80-120	Pass	
Chromium	%	94			80-120	Pass	
Copper	%	88			80-120	Pass	
Lead	%	92			80-120	Pass	
Mercury	%	106			80-120	Pass	
Nickel	%	96			80-120	Pass	
Zinc	%	99			80-120	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C10-C14	M24-No0019329	NCP	%	96			70-130	Pass	
TRH >C10-C16	M24-No0019329	NCP	%	89			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	B24-No0018328	NCP	%	108			70-130	Pass	
Acenaphthylene	B24-No0018328	NCP	%	130			70-130	Pass	
Anthracene	B24-No0018328	NCP	%	93			70-130	Pass	
Benz(a)anthracene	B24-No0018328	NCP	%	93			70-130	Pass	
Benzo(a)pyrene	B24-No0018328	NCP	%	100			70-130	Pass	
Benzo(b&j)fluoranthene	B24-No0018328	NCP	%	91			70-130	Pass	
Benzo(g.h.i)perylene	B24-No0018328	NCP	%	84			70-130	Pass	
Benzo(k)fluoranthene	B24-No0018328	NCP	%	106			70-130	Pass	
Chrysene	B24-No0018328	NCP	%	102			70-130	Pass	
Dibenz(a.h)anthracene	B24-No0018328	NCP	%	104			70-130	Pass	
Fluoranthene	B24-No0018328	NCP	%	115			70-130	Pass	
Fluorene	B24-No0018328	NCP	%	127			70-130	Pass	
Indeno(1.2.3-cd)pyrene	B24-No0018328	NCP	%	105			70-130	Pass	
Naphthalene	B24-No0018328	NCP	%	85			70-130	Pass	
Phenanthrene	B24-No0018328	NCP	%	123			70-130	Pass	
Pyrene	B24-No0018328	NCP	%	108			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	B24-No0018328	NCP	%	104			70-130	Pass	
4.4'-DDD	B24-No0018328	NCP	%	99			70-130	Pass	
4.4'-DDE	B24-No0018328	NCP	%	113			70-130	Pass	
4.4'-DDT	B24-No0018328	NCP	%	89			70-130	Pass	
a-HCH	B24-No0018328	NCP	%	92			70-130	Pass	
Aldrin	B24-No0018328	NCP	%	91			70-130	Pass	
b-HCH	B24-No0018328	NCP	%	124			70-130	Pass	
d-HCH	B24-No0018328	NCP	%	92			70-130	Pass	
Dieldrin	B24-No0018328	NCP	%	87			70-130	Pass	
Endosulfan I	B24-No0018328	NCP	%	116			70-130	Pass	
Endosulfan II	B24-No0018328	NCP	%	91			70-130	Pass	
Endosulfan sulphate	B24-No0018328	NCP	%	108			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endrin	B24-No0018328	NCP	%	109			70-130	Pass	
Endrin aldehyde	B24-No0018328	NCP	%	78			70-130	Pass	
Endrin ketone	B24-No0018328	NCP	%	95			70-130	Pass	
g-HCH (Lindane)	B24-No0018328	NCP	%	97			70-130	Pass	
Heptachlor	B24-No0018328	NCP	%	114			70-130	Pass	
Heptachlor epoxide	B24-No0018328	NCP	%	90			70-130	Pass	
Hexachlorobenzene	B24-No0018328	NCP	%	124			70-130	Pass	
Methoxychlor	B24-No0018328	NCP	%	109			70-130	Pass	
Spike - % Recovery									
Organophosphorus Pesticides				Result 1					
Diazinon	B24-No0018328	NCP	%	113			70-130	Pass	
Dimethoate	B24-No0018328	NCP	%	90			70-130	Pass	
Ethion	B24-No0018328	NCP	%	121			70-130	Pass	
Fenitrothion	B24-No0018328	NCP	%	127			70-130	Pass	
Mevinphos	B24-No0018328	NCP	%	105			70-130	Pass	
Spike - % Recovery									
Semivolatile Organics				Result 1					
2-Methyl-4.6-dinitrophenol	B24-No0018328	NCP	%	71			30-130	Pass	
2-Chlorophenol	B24-No0018328	NCP	%	111			30-130	Pass	
2-Methylphenol (o-Cresol)	B24-No0018328	NCP	%	77			30-130	Pass	
2-Nitrophenol	B24-No0018328	NCP	%	91			30-130	Pass	
2.4-Dichlorophenol	B24-No0018328	NCP	%	78			30-130	Pass	
2.4-Dimethylphenol	B24-No0018328	NCP	%	75			30-130	Pass	
2.4-Dinitrophenol	B24-No0018328	NCP	%	59			30-130	Pass	
2.4.5-Trichlorophenol	B24-No0018328	NCP	%	106			30-130	Pass	
2.4.6-Trichlorophenol	B24-No0018328	NCP	%	79			30-130	Pass	
2.6-Dichlorophenol	B24-No0018328	NCP	%	104			30-130	Pass	
3&4-Methylphenol (m&p-Cresol)	B24-No0018328	NCP	%	40			30-130	Pass	
4-Chloro-3-methylphenol	B24-No0018328	NCP	%	87			30-130	Pass	
4-Nitrophenol	B24-No0018328	NCP	%	44			30-130	Pass	
Hexachlorobenzene	B24-No0018328	NCP	%	124			70-130	Pass	
Pentachlorophenol	B24-No0018328	NCP	%	76			30-130	Pass	
Phenol	B24-No0018328	NCP	%	59			30-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	L24-No0021892	NCP	%	86			75-125	Pass	
Cadmium	L24-No0021892	NCP	%	82			75-125	Pass	
Chromium	L24-No0021892	NCP	%	78			75-125	Pass	
Lead	L24-No0021892	NCP	%	75			75-125	Pass	
Mercury	L24-No0021892	NCP	%	88			75-125	Pass	
Nickel	L24-No0021892	NCP	%	76			75-125	Pass	
Zinc	L24-No0021892	NCP	%	75			75-125	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C10-C14	M24-No0019123	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
TRH C15-C28	M24-No0019123	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH C29-C36	M24-No0019123	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH >C10-C16	M24-No0019123	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
TRH >C16-C34	M24-No0019123	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH >C34-C40	M24-No0019123	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	

Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	B24-No0025731	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Acenaphthylene	B24-No0025731	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Anthracene	B24-No0025731	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benz(a)anthracene	B24-No0025731	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(a)pyrene	B24-No0025731	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(b&j)fluoranthene	B24-No0025731	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(g.h.i)perylene	B24-No0025731	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(k)fluoranthene	B24-No0025731	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chrysene	B24-No0025731	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dibenz(a.h)anthracene	B24-No0025731	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluoranthene	B24-No0025731	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluorene	B24-No0025731	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	B24-No0025731	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Naphthalene	B24-No0025731	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Phenanthrene	B24-No0025731	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Pyrene	B24-No0025731	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	B24-No0025731	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
4.4'-DDD	B24-No0025731	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
4.4'-DDE	B24-No0025731	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
4.4'-DDT	B24-No0025731	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
a-HCH	B24-No0025731	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Aldrin	B24-No0025731	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
b-HCH	B24-No0025731	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
d-HCH	B24-No0025731	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Dieldrin	B24-No0025731	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endosulfan I	B24-No0025731	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endosulfan II	B24-No0025731	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endosulfan sulphate	B24-No0025731	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endrin	B24-No0025731	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endrin aldehyde	B24-No0025731	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endrin ketone	B24-No0025731	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
g-HCH (Lindane)	B24-No0025731	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Heptachlor	B24-No0025731	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Heptachlor epoxide	B24-No0025731	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Hexachlorobenzene	B24-No0025731	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Methoxychlor	B24-No0025731	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Toxaphene	B24-No0025731	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Duplicate									
Organophosphorus Pesticides				Result 1	Result 2	RPD			
Azinphos-methyl	B24-No0025731	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Bolstar	B24-No0025731	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Chlorfenvinphos	B24-No0025731	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
Chlorpyrifos	B24-No0025731	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Chlorpyrifos-methyl	B24-No0025731	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Coumaphos	B24-No0025731	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
Demeton-S	B24-No0025731	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Demeton-O	B24-No0025731	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Diazinon	B24-No0025731	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Dichlorvos	B24-No0025731	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Dimethoate	B24-No0025731	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Disulfoton	B24-No0025731	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
EPN	B24-No0025731	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	

Duplicate									
Organophosphorus Pesticides				Result 1	Result 2	RPD			
Ethion	B24-No0025731	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Ethoprop	B24-No0025731	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Ethyl parathion	B24-No0025731	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Fenitrothion	B24-No0025731	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Fensulfothion	B24-No0025731	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Fenthion	B24-No0025731	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Malathion	B24-No0025731	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Merphos	B24-No0025731	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Methyl parathion	B24-No0025731	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Mevinphos	B24-No0025731	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Monocrotophos	B24-No0025731	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Naled	B24-No0025731	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Omethoate	B24-No0025731	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
Phorate	B24-No0025731	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Pirimiphos-methyl	B24-No0025731	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
Pyrazophos	B24-No0025731	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Ronnel	B24-No0025731	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Terbufos	B24-No0025731	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Tetrachlorvinphos	B24-No0025731	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Tokuthion	B24-No0025731	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Trichloronate	B24-No0025731	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Duplicate									
Semivolatile Organics				Result 1	Result 2	RPD			
2-Methyl-4.6-dinitrophenol	B24-No0025731	NCP	mg/L	< 0.03	< 0.03	<1	30%	Pass	
1-Chloronaphthalene	B24-No0025731	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
1-Naphthylamine	B24-No0025731	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
1.2-Dichlorobenzene	B24-No0025731	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
1.2.3-Trichlorobenzene	B24-No0025731	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
1.2.3.4-Tetrachlorobenzene	B24-No0025731	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
1.2.3.5-Tetrachlorobenzene	B24-No0025731	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
1.2.4-Trichlorobenzene	B24-No0018327	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
1.2.4.5-Tetrachlorobenzene	B24-No0025731	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
1.3-Dichlorobenzene	B24-No0025731	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
1.3.5-Trichlorobenzene	B24-No0025731	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
1.4-Dichlorobenzene	B24-No0025731	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
2-Chloronaphthalene	B24-No0025731	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
2-Chlorophenol	B24-No0025731	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
2-Methylnaphthalene	B24-No0025731	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
2-Methylphenol (o-Cresol)	B24-No0025731	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
2-Naphthylamine	B24-No0025731	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
2-Nitroaniline	B24-No0025731	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
2-Nitrophenol	B24-No0025731	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
2-Picoline	B24-No0025731	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
2.3.4.6-Tetrachlorophenol	B24-No0025731	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
2.4-Dichlorophenol	B24-No0025731	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
2.4-Dimethylphenol	B24-No0025731	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
2.4-Dinitrophenol	B24-No0025731	NCP	mg/L	< 0.03	< 0.03	<1	30%	Pass	
2.4-Dinitrotoluene	B24-No0025731	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
2.4.5-Trichlorophenol	B24-No0025731	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
2.4.6-Trichlorophenol	B24-No0025731	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
2.6-Dichlorophenol	B24-No0025731	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
2.6-Dinitrotoluene	B24-No0025731	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
3&4-Methylphenol (m&p-Cresol)	B24-No0025731	NCP	mg/L	< 0.006	< 0.006	<1	30%	Pass	
3-Methylcholanthrene	B24-No0025731	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	

Duplicate									
Semivolatile Organics				Result 1	Result 2	RPD			
3.3'-Dichlorobenzidine	B24-No0025731	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
4-Aminobiphenyl	B24-No0025731	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
4-Bromophenyl phenyl ether	B24-No0025731	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
4-Chloro-3-methylphenol	B24-No0025731	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
4-Chlorophenyl phenyl ether	B24-No0025731	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
4-Nitrophenol	B24-No0025731	NCP	mg/L	< 0.03	< 0.03	<1	30%	Pass	
4.4'-DDD	B24-No0025731	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
4.4'-DDE	B24-No0025731	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
4.4'-DDT	B24-No0025731	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
7.12-Dimethylbenz(a)anthracene	B24-No0025731	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
a-HCH	B24-No0025731	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Acetophenone	B24-No0025731	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Aldrin	B24-No0025731	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Aniline	B24-No0025731	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
b-HCH	B24-No0025731	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Benzyl chloride	B24-No0025731	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Bis(2-chloroethoxy)methane	B24-No0025731	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Bis(2-chloroisopropyl)ether	B24-No0025731	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Bis(2-ethylhexyl)phthalate	B24-No0025731	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Butyl benzyl phthalate	B24-No0025731	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
d-HCH	B24-No0025731	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Di-n-butyl phthalate	B24-No0025731	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Di-n-octyl phthalate	B24-No0025731	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Dibenz(a,j)acridine	B24-No0025731	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Dibenzofuran	B24-No0025731	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Dieldrin	B24-No0025731	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Diethyl phthalate	B24-No0025731	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Dimethyl phthalate	B24-No0025731	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Dimethylaminoazobenzene	B24-No0025731	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Diphenylamine	B24-No0025731	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Endosulfan I	B24-No0025731	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Endosulfan II	B24-No0025731	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Endosulfan sulphate	B24-No0025731	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Endrin	B24-No0025731	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Endrin aldehyde	B24-No0025731	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Endrin ketone	B24-No0025731	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
g-HCH (Lindane)	B24-No0025731	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Heptachlor	B24-No0025731	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Heptachlor epoxide	B24-No0025731	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Hexachlorobenzene	B24-No0025731	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Hexachlorobutadiene	B24-No0025731	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Hexachlorocyclopentadiene	B24-No0025731	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Hexachloroethane	B24-No0025731	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Methoxychlor	B24-No0025731	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
N-Nitrosodibutylamine	B24-No0025731	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
N-Nitrosodipropylamine	B24-No0025731	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
N-Nitrosopiperidine	B24-No0025731	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Nitrobenzene	B24-No0025731	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
Pentachlorobenzene	B24-No0025731	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Pentachloronitrobenzene	B24-No0025731	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Pentachlorophenol	B24-No0025731	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Phenol	B24-No0025731	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
Pronamide	B24-No0025731	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Trifluralin	B24-No0025731	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	

Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	L24-No0021888	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Cadmium	L24-No0021888	NCP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Chromium	L24-No0021888	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Copper	L24-No0021888	NCP	mg/L	0.003	0.003	<1	30%	Pass	
Lead	L24-No0021888	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Mercury	L24-No0021888	NCP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Nickel	L24-No0021888	NCP	mg/L	0.005	0.005	2.0	30%	Pass	
Zinc	L24-No0021888	NCP	mg/L	0.021	0.019	10	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
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:

Celeste Chinnery	Analytical Services Manager
Carroll Lee	Senior Analyst-Volatile
Joseph Edouard	Senior Analyst-Organic
Sean Sangster	Senior Analyst-Metal

Glenn Jackson
Managing Director

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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West Soil and Water

P: 0424 021 264
E: admin@westsoilandwater.com.au

www.westsoilandwater.com.au