



Lot 105 SP118458, Cooroy, QLD, 4563

Detailed Site Contamination Investigation

12 June 2024




Prepared for: Noosa Shire Council



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1. INTRODUCTION

Noosa Shire Council (**Client or Council**) engaged Environmental Advisors Pty Ltd to undertake a statutory contaminated land Detailed Site Investigation (**DSI**) for land described as 62 Lake Macdonald Drive (Lot 105 SP118458) Cooroy, QLD 4563 (**site**) as delineated on the SmartMap and Drawing 1 in Appendix A. The site has an area of 3.537 hectares (**ha**) and is being considered for affordable housing redevelopment.

This Contaminated Land Investigation Document (**CLID**) is required to inform the proposed redevelopment and facilitate statutory requirements for contaminated land matters under the *Environmental Protection Act 1994*. Consequently, the Client appointed Contaminated Land Auditor (**CLA**) Mr Trevor Lloyd to perform relevant functions and to ultimately progress a *Suitability Statement* in conjunction with the Suitably Qualified Person (**SQP**) Andrew Winters.

A CLID content reconciliation table is presented as Appendix K.

1.1. PREVIOUS ASSESSMENT

A Preliminary Site Investigation (**PSI**) was initially completed as a due diligence dated 30/5/23 that was updated to the following statutory document:

- *Lot 105 SP118458, Cooroy, QLD, 4563, Preliminary Site Contamination Investigation*, 30 October 2023, Environmental Advisors (**PSI**).

The PSI identified the presence of a *Notifiable Activity* (historical landfilling) and associated *Hazardous Contaminants* (physical wastes, asbestos and elevated heavy metals above applicable criteria) with Council subsequently notifying the Department of Environment, Science and Innovation (**DESI**) on or around 30/5/23 to list the site on the Queensland Environmental Management Register (**EMR**). These notification forms are presented as Appendix J and as at 1/2/24 the EMR register has yet to be updated.

Key information from the PSI has been reproduced within this DSI.

1.2. PURPOSE

The purpose is to perform a DSI to progress site characterisation to support the proposed redevelopment and removal of all or a portion of the site from the EMR.

The work to satisfy this purpose was, where relevant for the approved scope, based on the requirements of the *Environmental Protection Act 1994 (EP Act)* and the National Environment Protection Council 1999, as amended 2013, *National Environment Protection (Assessment of Site Contamination) Measure (NEPM)* and included:

- Additional assessment of soil and fill
- Assessment of groundwater and landfill gas
- Screening level risk assessment.

The information provided in this Report was further guided by the requirements of the Queensland Auditor Handbook for Contaminated Land *Module 6: Content requirements for contaminated land investigation documents, certifications and audit reports* (ESR/2018/4224 as updated 18/5/23) (**Module 6**), *Contaminated land investigation document – approved form ESR/2023/6339, Version 1.03 19 May 2023, Queensland Government (Approved Form)* and relevant technical guidance.



This Report is subject to the limitations set out in Section 11. It is to be read in conjunction with these limitations, as well as the assumptions and qualifications contained throughout the Report, with no part taken in isolation to represent the findings.

General information on the framework and stages of contaminated land assessment, including a flowchart, is presented as Appendix B.

1.3. CHRONOLOGY

The timing of sample collection activities contributing to this DSI is:

- 24 February 2023 - PSI soil sampling
- 19 to 22 February 2024 – first DSI soil sampling effort with landfill gas field screening (**DSI 1**)
- 14 March 2024 – groundwater monitoring bores sampling
- 23 April 2024 – soil sampling associated with trial mechanical soil screening
- 7 May 2024 – second DSI soil sampling effort (**DSI 2**)
- 9 June 2024 – landfill gas bores monitoring.



2. SITE DESCRIPTION AND PROJECT INFORMATION

Project details are presented in Table 1 below.

Table 1 Project Details

Item	Detail	Refer to
Trigger	Voluntary to inform the detailed redevelopment design and progress the stated purpose of EMR removal	Section 1
Suitably Qualified Person (SQP)	Andrew Winters of Environmental Advisors Pty Ltd	-
Type of Contaminated Land Investigation Document	Detailed Site Investigation	-
Site Address	62 Lake Macdonald Drive, Cooroy, Qld, 4563	SmartMap and Drawings, Appendix A
Latitude and Longitude (central site)	-26.409455° 152.915879°	Google Earth
Registered Lot and Plan	Lot 105 SP118458 (to be reconfigured for the proposed redevelopment)	Land Title in Appendix F and the proposed Lot reconfiguration plan dated 5/7/23 (amended 6/9/23) presented in Appendix A
Tenure	Freehold	Land Title, Appendix F
Site Owner	Noosa Shire Council	Land Title, Appendix F
Site Owner Address	Chief Executive Officer, Noosa Shire Council, PO Box 141, Tewantin, QLD 4565	-
Current Site Occupier / Use	Mostly vacant but a shed with office has recently been erected on the site for the purpose of machinery storage used by the Council cemetery staff.	Section 3.18
Site Plans	Attached	SmartMap and Drawings, Appendix A.
Site Area	3.537 ha	Drawings, Appendix A
Site Zoning	Currently Community Facilities, with zoning expected to be amended as may be required to support the below proposed uses.	Section 3.6
Proposed Use	Affordable housing and related road reserves over proposed Lots 1,2 and 3 with new Lot 100 to adjoin the existing cemetery and proposed for cemetery burials. Potential for an additional Lot to be formed from Lot 100 to house the shed should this land need to be retained on the EMR.	Section 1 and proposed Lot reconfiguration drawing in Appendix A



Local Government	Noosa Shire Council	SmartMap, Appendix A
CLR / EMR Status	As at 1/2/24 the site has not been listed on either the Environmental Management Register (EMR) nor Contaminated Land Register (CLR). Notification for EMR listing has been undertaken by Council to DESI dated 30/5/23.	Appendix C and Appendix J
Permits, Approvals and Licences	Permit BA22/0002 for storage shed and development approval exemption certificate EXE21/0031 to build storage shed.	Section 3.6
Environmentally Sensitive Areas	Approximately the southern half of the site that is forested is classified by Council as connecting habitat (but is not a Protected Area). State MSES data has mapped part of the northern site boundary as Category R - GBR riverine regrowth, however, the corresponding ecological value of this area based on site observations is not immediately apparent.	Sections 3.3, 3.6 and 3.7
Previous Site Investigations	<i>Lot 105 SP118458, Cooroy, QLD, 4563, Preliminary Site Contamination Investigation, 30 October 2023, Environmental Advisors</i>	-

2.1. DETAILED OBJECTIVES

To fulfil the purpose of the investigation the following objectives were defined:

Table 2 Project Objectives

Identify potential sources of contamination and Areas of Environmental Concern (AEC) from historic or current activities	<ul style="list-style-type: none"> • Complete a desktop site history investigation and background information review as scoped (Section 3) • Identify Areas of Environmental Concern (Section 4) • Undertake a site walkover on 24 February 2023
Identification of potential receptors	<ul style="list-style-type: none"> • Review current and proposed site use • Review site setting including relevant government databases review
Collection of site information relating to the potential movement of contamination via movement pathways	<ul style="list-style-type: none"> • Review local geology and soil for soil migration pathway information • Review local hydrology and topography for overland migration pathway information • Review local and regional hydrogeological material for groundwater migration pathway information • Review available site plans for potential contamination migration pathway information • Prepare a Conceptual Site Model (CSM) (Section 5)



<p>Provide detail on the identified AEC including the location, type and volume of contamination</p>	<ul style="list-style-type: none"> • Review selected information sources and identify/confirm AEC • Excavate 75 test pits (TP1 through TP75) for visual and olfactory observation, field screening for landfill gas and collection of soil samples directly into laboratory supplied jars • Record lithology to map any areas of concern • Select primary and quality assurance (QA) samples for National Association of Testing Authorities (NATA) accredited laboratory analysis of selected soil samples for various parameters including: <ul style="list-style-type: none"> - Asbestos (in soil and in bulk materials) - Heavy metals (As, Cd, Cr, Cu, Hg, Ni, Pb, Zn) - Organochloride and Organophosphorus Pesticides (OCP/OPP) - Polycyclic Aromatic Hydrocarbons (PAH) - Polychlorinated biphenyls (PCB) - Total Recoverable Hydrocarbons (TRH) / Benzene, Toluene, Ethylbenzene, Xylenes and Naphthalene (BTEXN) - Per- and polyfluoroalkyl substances (PFAS) - Semi Volatile Organic Compounds (SVOC). - Background sample for NEPM derivation of selected site criteria. • Install 4 groundwater monitoring bores with 1 monitoring round • Install 7 landfill gas (LFG) monitoring bores with 1 monitoring round.
<p>Identify any areas of uncertainty</p>	<ul style="list-style-type: none"> • Review information collected (Sections 6, 7, 8 and 0)
<p>Provide an assessment of site contamination related Risks</p>	<ul style="list-style-type: none"> • Complete a CSM. • Assess potential risks (Section 0) by considering source¹ – pathway – receptor relationships for identified sources and potential receptors. As a screening level assessment, the Site Contamination Risk Equation (SCORE) is used: $\text{Source} \times \text{Pathway} \times \text{Receptor} = \text{Risk}$ <p>Each variable can have the following values:</p> <p>1 = Exists</p> <p>0 = Does not exist²</p> • If any of the variables have a value of 0 then the Risk is also 0 or low risk. • Evaluate the risk of undetected contamination based upon either an area-based or volume-based assessment, and how this may affect the SCORE.
<p>Determine if management or remediation measures are required to make the site suitable for the proposed use and define these measures.</p>	<ul style="list-style-type: none"> • Where potentially unacceptable (subjective) risks exist, determine measures to alter the source-receptor-pathway relationship to reduce these risks. • Where there are other fixed proposed site uses (fixed receptors) remedial or management measures involve the modification of the pathway and source variables (Section 10).

¹ A source is considered to be a potential source of a hazardous contaminant(s).

² In practical terms it is not possible to assess source related hazards to a level where they can be stated to be as being non-existent and some residual hazard that may result in a risk may remain. Non-existent is intended to mean low risk.



3. DESKTOP REVIEW

3.1. TOPOGRAPHY AND DRAINAGE

Topography is generally consistent with the north-eastern side of a hill with the mid-western site boundary near the peak at around 130m Australian Height Datum (AHD) and the site sloping moderately to the north and east-south-east around 110m AHD and 120m AHD at the eastern boundary. Topographic data is presented in Appendix D (pages 5 and 6) and Figure 1 below. Additional topographic information with 0.5m contours is shown on the Lot reconfiguration plan presented in Appendix A.

Surface drainage would flow across the site to the north, east or south-east. The majority of surface flows leaving the site would flow east for some 150m and then change direction markedly in line with natural topography to flow north to north-north-west within unnamed channels into Six Mile Creek Left Branch that discharges some 35km to the north-west into the Mary River, just south of Gympie.



Figure 1 Surface drainage feature

3.2. GEOLOGY

Geology information is summarised from information presented in Appendix D (pages 35-39) utilising data sourced from Australian Bureau of Agricultural and Resource Economics and Sciences (ABARES) and State of Queensland Department of Resources). Surface geology is described in Table 3 and Figure 2 below.

Table 3 Surface Geological Units

Symbol	Lithology Summary	Unit Name	Dominant Rock	Rock Type	Age
RJdm	Quartzose sandstone, orthoquartzite, sublittoral to littoral sandstone, siltstone, shale	Myrtle Creek Sandstone	ARENITE	STRATIFIED UNIT (INCLUDING VOLCANIC AND METAMORPHIC)	LATE TRIASSIC - EARLY JURASSIC
Rk	Strongly cleaved and commonly kinked mudstone with thin siltstone laminae; minor volcanolithic sandstone	Kin Kin beds	ARENITE-MUDROCK	STRATIFIED UNIT (INCLUDING VOLCANIC AND METAMORPHIC)	MIDDLE TRIASSIC



Figure 2 Surface Geology

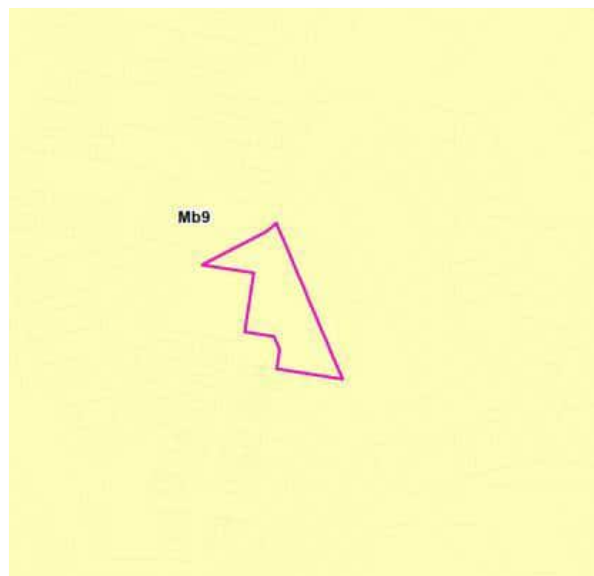


Figure 3 Atlas of Australian Soils

Underlying the northern third of the site the surface geology comprises *Rk Myrtle Creek Sandstone*, with the southern two thirds comprising geology described as *RJdm Kin Kin Beds* that has relatively additional mudstone, sandstone or siltstone that is cemented weaker.

The Atlas of Australian Soils (based on Northcote et al., 1960-68) (refer Figure 3 and Table 4) indicates that soils of the site and surrounds are classified as Mb9 Kandosol, with rolling to low hilly terrain of a weakly dissected sedimentary basin, with gently sloping convex hills and significant stream flats. Chief soils are acid yellow leached earths and acid yellow earths on crests and slopes.

Table 4 Australian Soil Classification Orders

Symbol	Soil Order	Map Unit Description	Distance
Mb9	Kandosol	Rolling to low hilly terrain of a weakly dissected sedimentary basin, with gently sloping convex hills below 350 ft above sea level and fairly flat platforms above 350 ft; some significant stream flats; chief soils are acid yellow leached earths (Gn2.74) and acid yellow earths (Gn2.64) on crests and slopes generally below 350 ft. Associated are (Gn2.91) and (Gn2.94) soils on broad stream flats, and (Gn2.14) soils on platforms (above 350 ft) and lower slopes. Other soils include: (Dy3.41) on lower hill slopes; (Gn3.81) and (Gn3.84) on some crests; (Gn2.21) on some stream terraces; and (Uc2.33) on low mounds along some stream flats.	0m

3.3. HYDROGEOLOGY

Data presented in Appendix D (pages 30-34 and 46-52) shows the site is not mapped as a potential Groundwater Dependant Ecosystem (**GDE**).

Whilst no registered bores or known abstraction are directly associated with the site and immediate surrounds, 26 registered groundwater bores are located within a 2000m radius. The closest registered groundwater bore RN185193 located approximately 184m south-east has a groundwater aquifer from 24 to 27mbgl in shale and quartz formations.



The permanent groundwater aquifer (not perched water) would be expected to underlie the site at similar depths, however, shallower perched groundwater may also be present.

3.4. CURRENT AND HISTORICAL TITLES

Current and historic land titles are presented in Appendix F and summarised in Table 5 below.

Table 5 Historical Titles

Date of Acquisition (and term held)	Registered Proprietor(s) and Occupations where available	Reference to Title at Acquisition and sale
1912	Reserve No. 645 for Sanitary purposes and rubbish. Title cancelled in 1958.	-
1954	(Aerial Image) special Lease No. 22799 to Mary M Bourke (now surrendered) and special lease No. 25404 to Cameron A Bichel.	-
14 June 1973 (1973 to 1999)	Ross Bevan Spicer Patricia Daphne Spicer (Married Woman)	Volume 4960 Folio 29 (Grant) then Volume 5368 Folio 83 (New Grant) 15368083 now 50270172
24 December 1999 (1999 to date)	Council of the Shire of Noosa, then Sunshine Coast Regional Council, now Noosa Shire Council	50270172

Of note is the initial registered use of the land in 1912 for sanitary purposes and rubbish, with this title cancelled in 1958. This title notes that the site was originally vegetated “very thickly and heavily timbered with numerous tree species and saplings”. Land to the south of the site was noted to be “sandy”.

3.5. ENVIRONMENTAL PERMITS, APPROVALS AND LICENSING

Data presented in Appendix D (pages 7-11) indicates that the site does not form part of any prescribed current or former Environmentally Relevant Activities (ERA) with off-site ERA’s present over 250m to the west and south-west associated with sewage treatment.

A prescribed resource activity (petroleum pipeline permit held by Allgas Energy Pty Ltd) is present around 90m east of the site. This pipeline is associated with natural gas and is not considered to be of significance with respect to contaminated land matters at the site.

3.6. LOCAL GOVERNMENT PLANNING AND ENVIRONMENTAL VALUES

Noosa Council online mapping accessed 12 April 2023³ (refer Figure 4) indicates the site is zoned “Community Facilities”.

³ <https://enterprise.mapimage.net/IntraMaps910/?configId=64251f07-9411-4a61-930e-2bd9b45d8fff&project=Public&module=Noosa%20Plan%202020&touch=false>



Figure 4 Zoning

A review of the environmental values overlay as shown on Figure 5, indicates that approximately the southern half of the site comprises forest considered to be Connecting Habitat Area, which also extends off-site to the south (these areas are also Areas of Biodiversity Significance). Additional Connecting Habitat that is also a Protected Area exists off-site to the east. Council advised that Permit BA22/0002 was for the storage shed with development approval exemption certificate EXE21/0031 to build the storage shed.

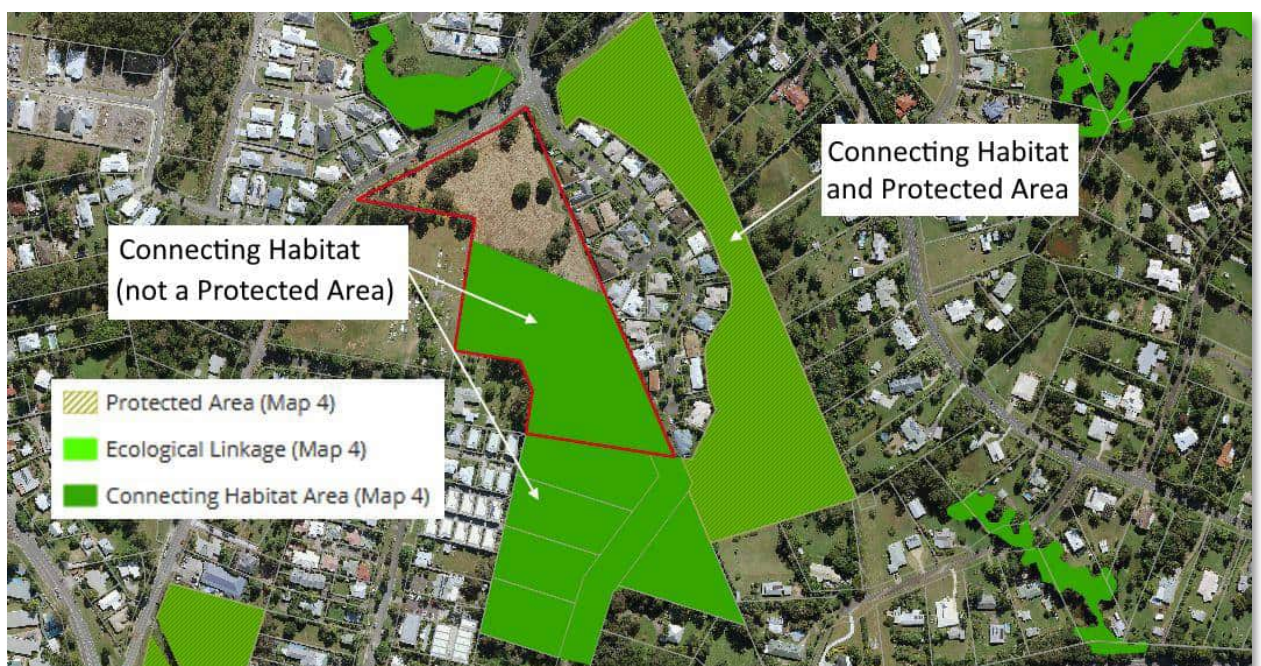


Figure 5 Noosa Plan 2020 Environmental Areas Overlay



3.7. STATE GOVERNMENT PLANNING AND ENVIRONMENTAL VALUES

State government planning and environmental values were reviewed as part of the datasets presented in Appendices D and E (Matters of State Environmental Significance). One area of regulated vegetation (Category R – GBR riverine regrowth) is present over the north of the site as shown on Figure 6 below.

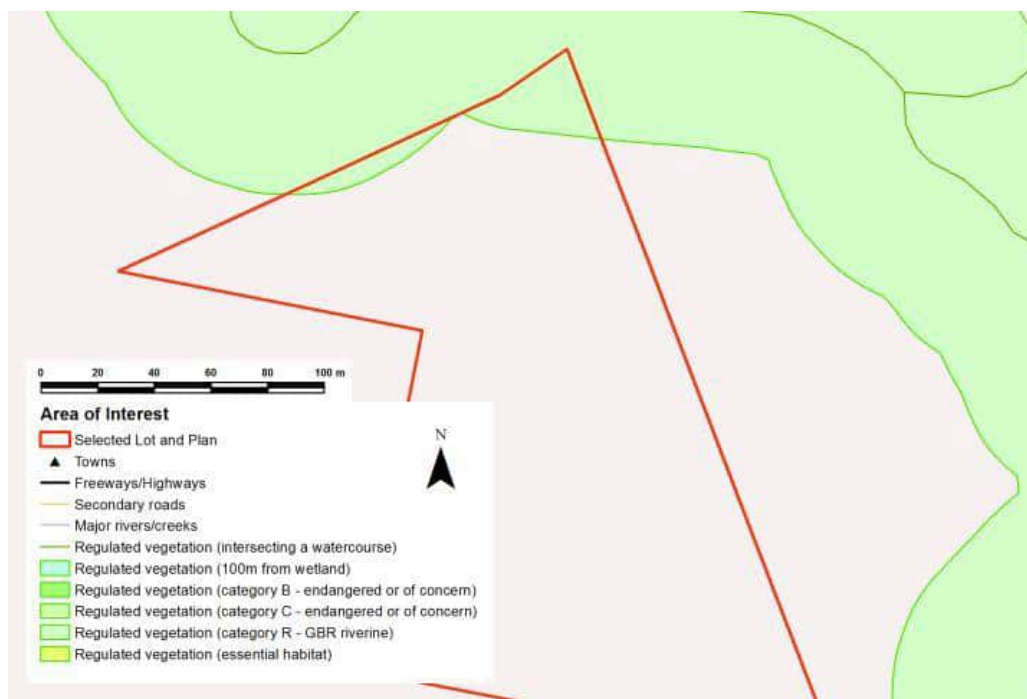


Figure 6 MSES Map

3.8. CLIMATE

There is no Australian Bureau of Meteorology (**BOM**) weather station for Cooroy, with Wikipedia (https://en.wikipedia.org/wiki/Sunshine_Coast,_Queensland#Climate) noting the broader climate of the Sunshine Coast being a humid subtropical climate typical of South Queensland. Summers are generally hot (low 40s° C) but moderated compared to areas on similar latitudes elsewhere, although Cooroy may be expected to be slightly hotter on average due to the inland location. Winters retain warm days but have cooler nights, with Cooroy expected to have an increased, although rare, chance of overnight freezing temperatures and frosts when compared to the coastal strip.

The annual average rainfall is around 1,500mm with a distinct wet season during the months of December through April with monthly rainfall averages greater than 100 mm, and a distinct dry season between the months May through November with less than 100 mm mean monthly rainfall between these months.

3.9. ACID SULFATE SOILS

Based on mapping from the Queensland Department of Natural Resources, Mines and Energy (as shown on Figure 7 over page and Appendix D (pages 40 and 41) the site is classified as having an extremely low (1-5%) probability of having Acid Sulfate Soils (**ASS**). Approximately 700m to the east there is an area of lower topography that has an increased (6-70%) chance of ASS occurring.



Figure 7 Acid Sulfate Soils

3.10. NATIONAL LIQUID FUEL FACILITIES

As detailed within Appendix D (pages 14 and 15) there are no waste management or liquid fuel facilities located on-site. Two commercial service stations are located over 750m to the south-west that are not considered significant to the current assessment.

3.11. HISTORICAL BUSINESS INFORMATION

As detailed within Appendix D (pages 16-17) there are no recorded historical business directory records for the site and immediately surrounding area of significance to contaminated land matters. With respect to the broader area, a general history of Cooroy and notable businesses may be accessed at Heritage Noosa (<https://heritage.noosa.qld.gov.au/nodes/view/314>) that indicates:

- The railway station opened in 1891 that facilitated the early development of Cooroy township, with an initial focus on timber and dairy industries and then growing sugar cane, fruit and vegetables
- Several sawmills were in operation, notably Fenwicks that operated from 1908 to 2000
- By 1910 Wimmers Cordial Factory was established, which recently moved to the site of the former Cooroy brickworks, and
- A butter factory operated from 1915 to 2010.

3.12. HISTORICAL MAPS

Historical maps from 1943, 1977 and 1982 are presented in Appendix D (pages 27-29) and indicate that a shed was present at the north-east corner of the site in 1943, with another structure (likely house) present at the south-western boundary and an additional shed present just off-site to the south-east (refer Figure



8). By 1982 these structures were no longer mapped on the 1982 historical map (refer Figure 9) however a quarry is shown some 500m to the north-east.

A query of the historical map overly in Qld Globe returned one map, being a *Town of Cooroy* Lot map prepared by the Department of Mapping and Surveying dated march 1973, that is already presented as part of historical land titles information in Appendix F.



Figure 8 Historical Map 1943

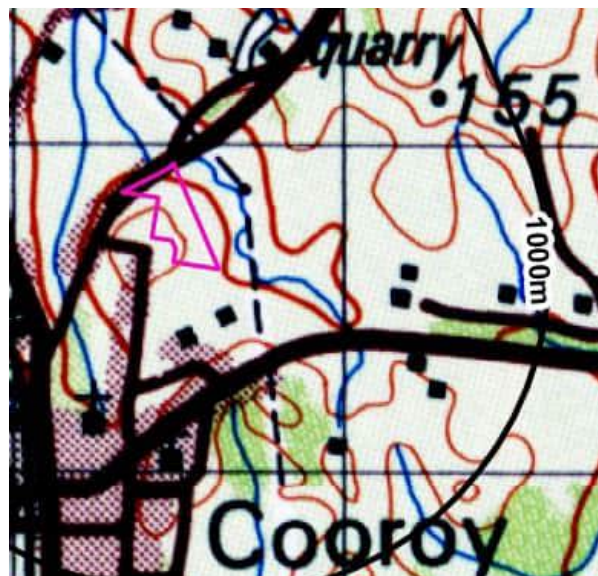


Figure 9 Historical Map 1982

3.13. HISTORICAL PHOTOS

A review of selected historical images (refer Appendix D pages 4 and 18-26) was undertaken with a summary provided in Table 6 over page.

Table 6 Historical Imagery Review

Year	Site	Surrounds within 150m
1953	<ul style="list-style-type: none"> Bushland is present over the southern quarter of the site. The northern three quarters of the site is mostly cleared and grassed with additional features that appear to be unsealed tracks and likely unvegetated areas and possible pits and depressions around the mid and northern portions. 	<ul style="list-style-type: none"> Cooroy township is present to the south-west, with mostly cleared and grassed areas surrounding the site elsewhere.



1967	<ul style="list-style-type: none"> • Similar to previous, although the areas of disturbance to the north have been reduced and the affected land appears “smoother” that may indicate infilling and levelling. • Similar infilling and levelling may have also occurred over the mid portion of the site although areas of on-going ground disturbance is visible. 	<ul style="list-style-type: none"> • Similar to previous, with Cooroy township developing with additional streets, houses and related infrastructure. • The known cemetery land use immediately to the west is identifiable.
1971	<ul style="list-style-type: none"> • Similar to previous 	<ul style="list-style-type: none"> • Similar to previous
1984	<ul style="list-style-type: none"> • The northern portion of the site has been further cleared of trees and appears mostly grassed. • The southern portion of the site has been planted with trees in a regular pattern. 	<ul style="list-style-type: none"> • Similar to previous
1992	<ul style="list-style-type: none"> • Similar to previous 	<ul style="list-style-type: none"> • Additional urban development has occurred around the site, although not to the immediate east or south of the site.
2001	<ul style="list-style-type: none"> • Similar to previous 	<ul style="list-style-type: none"> • Similar to previous
2007	<ul style="list-style-type: none"> • Similar to previous 	<ul style="list-style-type: none"> • Additional urban development to the immediate east of the site, as well as within and around Cooroy township to the west and south-west.
2012	<ul style="list-style-type: none"> • Similar to previous 	<ul style="list-style-type: none"> • Similar to previous
2016	<ul style="list-style-type: none"> • Similar to previous 	<ul style="list-style-type: none"> • Similar to previous
2022	<ul style="list-style-type: none"> • Similar to previous 	<ul style="list-style-type: none"> • Similar to previous, with additional urban infill development to the north of the site.

Historical images held by Heritage Noosa (<https://heritage.noosa.qld.gov.au>) were reviewed, including:

- 1989 oblique aerial looking west (refer to Figure 10 and original image at <https://heritage.noosa.qld.gov.au/nodes/view/3584>). The tree plantation present over the southern portion of the site appears well established, although distressed vegetation is evident within a central portion that may be correlated with differing soil conditions related to the presence of any imported fill.
 - a recent oblique view looking west, dated 18/10/23, is presented on the report front cover.
- 1989 oblique aerial looking east (refer to Figure 11 and original image at <https://heritage.noosa.qld.gov.au/nodes/view/3586>). The tops of the distressed trees within the plantation are again present, with no other obvious changes to the historical aerials discussed in Table 6.

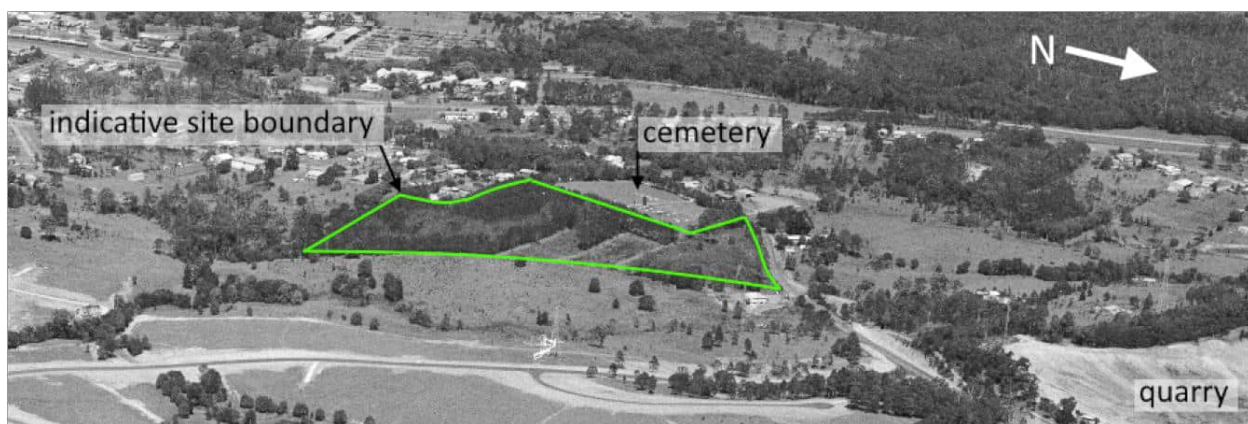


Figure 10 Oblique aerial 1989 looking west

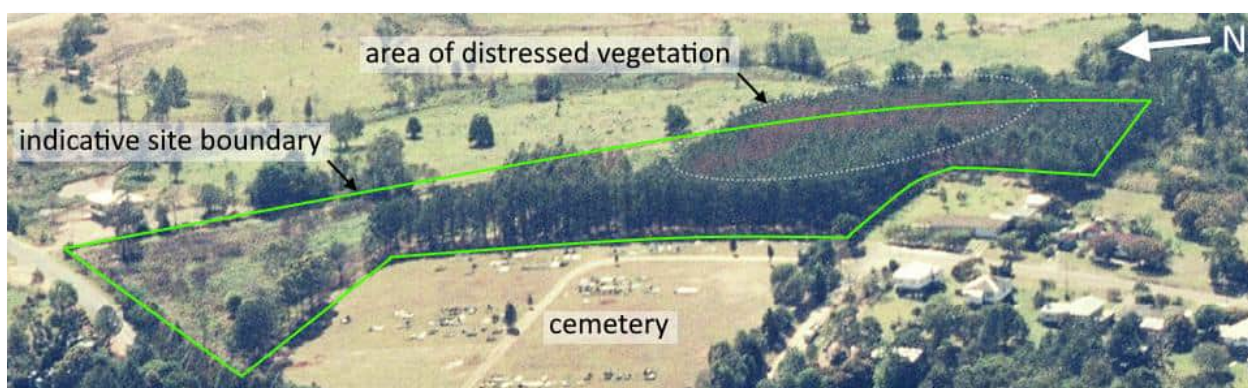


Figure 11 Oblique aerial 1989 looking east



Figure 12 Oblique aerial 18/10/23 looking west



The historic aerial photographs generally correlate with desktop information and indicate:

- The generally low resolution of imagery and nature of the variable topography has resulted in relatively large variations in shadows, albedo, and other topology effects. This has made it difficult to ascertain land use changes with respect to smaller structures and topography features such as depressions and pits.
- From the date of the earliest aerial photo in 1953 until at least 1967 the northern and mid portion of the site appears to have been disturbed and then progressively levelled that may have included the use of imported fill.
- From 1971 the site has remained vacant and essential unchanged with respect to the observable land use.

3.14. DESIGNATED INVESTIGATION SITES

Other information presented in Appendix D (pages 10-13) indicates that there are no records for the site and surrounding buffers with respect to:

- Defence, Air Services Australia or Queensland Fire and Emergency Services per-and poly-fluoroalkyl substances (**PFAS**) investigation and management programs
- Defence Regional Contamination Investigation Program
- National Waste Management Site Database.

3.15. RIGHT TO INFORMATION

A Right To Information (**RTI**) application was lodged with DESI requesting the following information:

- All documents relating to 62 Lake McDonald Drive, Cooroy, Qld 4563 (Lot 105 on SP118458), and which may be located on the EMR, and which informs of any contamination or waste disposal on this land including by night soil, bottle or general waste disposal, for the period 1 January 1955 to 13 February 2023.

DESI's Environmental Services Regulation division stated that they do not hold any relevant documents (refer to the RTI response presented at the end of Appendix E that also contains correspondence from Council stating an RTI request with them would likely have a similar outcome).

3.16. INTERVIEWS

3.16.1. MR TROY ANDREASSEN

At commencement of works Council provided a figure delineating two Areas of Environmental Concern (**AEC**) from potential historical rubbish disposal at the site (refer Figure 13).



Figure 13 Council information regarding potential disposal areas

This figure was compiled by Council based on several anecdotal information sources and observations by the neighbouring Council cemetery manager Mr Troy Andreassen, who was interviewed on 24 March 2023 to confirm aspects of the provided information.

It is believed that the two areas of disposal are historical that occurred in the 1950's and 60's, which accords with air photo observations of soil disturbance and potential infilling during this period. It is noted that the air photos indicate additional potential for rubbish disposal activities to the west of the rectangular area, up until the western site boundary. The northern night soil disposal area was reportedly performed within trenches excavated into the natural ground.

3.16.2. MRS PATRICIA SPICER

As a former owner of the site from 1973 to 1999 and current resident living adjacent to the site, Mrs Patricia Spicer has some 50 years of local knowledge and indicated the following during the interview conducted at her home on 18 October 2023:

- Prior to owning the site freehold in 1973, they took over the special lease from Mr Bichel in the early 1970s and were aware of the prior use of the site for waste disposal.
- They constructed their house over the south-western corner of the larger Lot, and then around 1976 subdivided this 4,764m² portion as Lot 1 SP118458 from the larger portion of land, being the subject site.

- At the time of acquiring the land, they determined that the local brickworks had aligned their access road incorrectly into the northern portion of their Lot (reportedly to preserve a pocket of clay located further north). The northern Lot boundary was realigned into the present-day configuration to formally vest the road encroachment to the brickworks. In return, the brickworks supplied bricks for construction of their house as well as importing soil for use around the new house and assisted with burying toilet cans as discussed in the below point.
- As shown on Figure 14 over page Mrs Spicer also recollected the following:
 - a concentration of disused toilet cans (possibly 50 to 100 at the surface) were buried by the brickworks at the request of the Spicers, along the western boundary to the north and adjacent the cemetery.
 - land to the south-west of the site was historically a dairy farm.
 - around three or four mullock heaps (containing mostly broken glass) were located behind the house area and in 1973 were bulldozed across the site to the east to flatten it out.
 - two intermittent springs were sometimes present, the first being close to the rear property line of their house and present during wet weather where the ground was particularly wet and often caused the mower to become stuck. The second longer lasting intermittent spring was located to the north-east corner of the site and usually had water in it, although it may have been disrupted as part of major drainage works completed during the Noosa Reserve low density residential housing development that is present to the immediate east of the site.

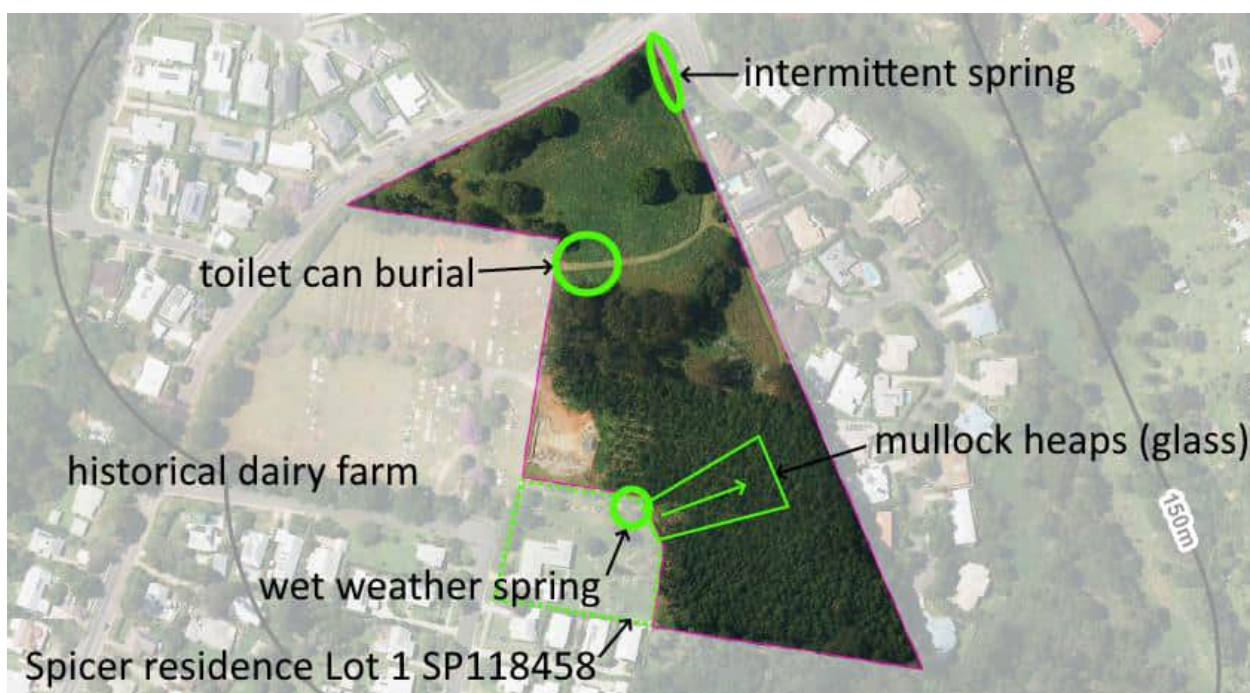


Figure 14 Mrs Patricia Spicer interview information

- Mrs Spicer's neighbour used to have the initial special lease on the site before Mr Bichel, with this neighbour historically using the site to grow vegetables.



- The site was essentially the old Cooroy Tip that closed around 1949. It is believed that rubbish disposal occurred over most of the southern portion of the site, including possible disposal in trenches.
- Around 1973 the Council was concerned with groundsel weed infestation in the local area, and in response the Spicers had most of the site bulldozed level. It was fairly level prior to use of the bulldozer, but the site did have groundsel and dead trees present. After bulldozing they planted the pine forest and other trees to form a canopy to assist with understory weed management.
- In the late 70's or early 80s fire affected the site, including crowning through the tree canopy.
- Observed surface or other wastes encountered during digging regularly included numerous broken glass (and occasional intact bottles), metal leaf spring car suspensions, car differentials and other large metal items.

3.17. REGISTERED SERVICES INFORMATION

Registered services information from Before You Dig Australia is presented as Appendix M and indicates:

- There is no infrastructure present on-site associated with Unity Water (potable water supply and sewer), Telstra and NBN (telecommunications), Council (stormwater) and Energex (power supply).

3.18. SITE INSPECTION

A site inspection was undertaken by the SQP on 24/2/23 with additional aerial inspection via drone performed on 18/10/23. A summary of NEPM *Schedule B2 Section 3.6 Site Inspection* guidance as it relates to the site is presented in Table 7 below.

Table 7 Site inspection summary per NEPM Sch B2 S.3.6

Current uses of the site and surrounding land	<p>The site is mostly vacant although a shed has recently been constructed at the midwestern boundary for the purpose of storing machinery used by Council cemetery staff. The shed appears to be placed on an engineered pad that is likely to have used an element of quarry sourced fill or similar (refer Photo 1).</p> <p>The northern third of the site is grassed with infrequent trees and the southern two thirds housing mature trees of a similar age that are planted in a grid pattern (refer Photo 2). A mowed grassed track is maintained from the north-eastern site corner that connects to the cemetery that adjoins the site to the west (refer Photo 3). To the north is Lake Macdonald Drive and then low density residential, which is also present to the immediate east and south-west of the site. To the immediate south is bushland.</p> <p>The shed structure, and to a lesser extent the existing trees and root balls, have potential to inhibit any required investigation and remediation activities.</p>
Soil (disturbed, bare patches, coloured or stained)	<p>Areas of disturbed soil with surface waste comprising bottles, glass, cement sheeting fragments, metal, plastic and similar is present within the forested southern area (refer Photo 4).</p>



Disturbed or distressed vegetation	None observed.
Unusual odour	None observed.
Site topography and surface water drainage	As discussed in Section 3.1. No obvious stormwater drainage devices or improvements were observed.
Surface water (quality, sheens) and presence of pits, ponds and lagoons	No surface water present.
Groundwater (presence of bores and levels)	None observed.
Building construction, condition and HVAC ⁴	Other than recent slab on ground metal shed construction, no relevant site structures present.
Any suspect bonded asbestos-containing materials on ground surfaces	Infrequent suspect cement sheeting fragments observed as part of surface debris discussed above relating to disturbed and bare soil patches over the southern portion of the site.
Presence of current or former stockpiles, fill, containment areas, sumps, drains and waste disposal areas	No stockpiles noted. Engineered fill present as part of the discussed building platform to the west of the site. Evidence of infilling with general waste was noted in some locations within the southern potential rubbish disposal area shown on Figure 13.
Evidence of cut and fill activities	No other evidence of significant cut or fill activities was observed beyond that discussed above associated with the shed pad.
Presence and condition of chemical containers, holding tanks, bunds.	None observed.
Presence and condition of any USTs and associated infrastructure	None observed.
Any other underground structures that may be associated with sub-surface contamination	None observed.
Condition of materials storage and handling facilities and any solid or liquid waste disposal areas (chemical inventory)	None observed.
Any evidence of on-site spillage of dangerous goods and/or off-site migration	None observed.
Other AEC based upon site history and environmental setting.	None observed.

⁴ Heating Ventilation and Air Conditioning system



Photo 1 – Shed area 18/10/23



Photo 2 – Oblique view looking north 18/10/23



Photo 3 – General site view looking west from the mid northern part of the site 24/2/23



Photo 4 – Glass, metal and other waste located within potential rubbish disposal area 24/2/23

Other photos of the site are presented as part of the fieldwork observations discussed in Section 8.1 and within the Appendix G soil logs for the PSI.



4. AREAS AND CHEMICALS OF ENVIRONMENTAL CONCERN

The following **AEC** have been identified, which are discussed below and detailed within Table 8, and the CSM presented in Section 5:

- AEC 1 - potential for night soil and bottles disposal over the northern portion of the site, based on the desktop review and general area shown on Figure 13 in Section 3.16.
- AEC 2 – potential for rubbish disposal over the southern portion of the site, based on the desktop review and site walkover observations, and as shown on Figure 13 in Section 3.16 that should be considered the minimum area of potential impact, which may extend over the entire southern portion and possibly as part of the AEC 1 northern area.
- AEC 3 - surface or groundwater migration pathways (including any springs) interacting with the following potential contamination sources:
 - any AEC 1 and 2 contamination present on-site (or similar wastes extending beyond the upgradient site boundary) that could migrate and impact deeper soil or groundwater at the site, with potential to further migrate off-site
 - potential for the cemetery located upgradient to the west to be a source of contamination that, if present, may impact the site primarily via groundwater migration.

Potential contaminants associated with historical waste disposal are wide ranging, comprising aesthetically and geotechnically unsuitable solid wastes of varying materials, possible regulated waste such as asbestos, tyres, nightsoil, chemical containers and residues, and interspersed soil impacted by various materials or chemicals. This disposal was possibly semi-controlled in the case of AEC 1 and likely uncontrolled in the case of AEC 2. Limited information was obtained by the desktop review regarding how any waste disposal was managed or controlled.

Waste not containing putrescible waste is unlikely to generate landfill gas or leachate from the breakdown of organic materials. Given the intervening time since deposition, risks associated with most biological pathogens and current generation of organic leachates or landfill gas is low. Inorganic or chemically persistent organic leachates may still be generated from percolation of rainwater or perched groundwater subject to waste composition.

There is potential for contaminants to be mobile in the environment, including light and dense non-aqueous phase liquids (**LNAPL** and **DNAPL**). LNAPL is lighter than water and will float on any surface or groundwater it encounters. DNAPL vertical migration is not arrested by the presence of groundwater, and they have a propensity to migrate vertically, however, their migration can be limited in clay rich soils.

With respect to LNAPL, DNAPL and other risks to groundwater, we note the half century or more since deposition and natural attenuation factors that would mitigate some types of contamination. In addition, permanent groundwater is likely to exist at a depth greater than 20mbgl. On this basis, any contaminants from historical landfilling are likely to be concentrated within the fill profile and may have accumulated at the base of the fill and interface with natural soil subject to mobility.

However, the potential for historical and current leachate generation and impacts such as to groundwater from landfilling cannot be ruled out, nor the potential for surface wastes and chemical contamination to be present or to have migrated off-site with any surface water flows such as during high intensity rainfall event, or due to the footprint of the initial deposition area. No evidence of waste erosion or migration or obvious surface expressions of groundwater was noted during the site walkover.



The adjacent cemetery is an additional potential contamination source from the decomposition of human bodies, including teeth fillings or prosthetics, and any related use of embalming or preservation chemicals such as formaldehyde. The corrosion of steel or preserved wood coffins would be an additional potential source of contaminants. Consequently, there is potential for contamination from the cemetery, such as nutrients, pathogens, heavy metals and semi volatile organic substances, to leach into the groundwater and migrate onto the subject site. The relatively small size and infrequency of the burials at the cemetery reduces, but does not completely rule out, this potential for unacceptable impact to the subject site.



Table 8: AEC Details

	AEC	Identified from	Potential for Contamination	Potential Contaminants of Concern (PCOC)
1	Northern night soil and bottles disposal area	Available desktop assessment and site walkover (noted features or interpolated areas)	Disposal of nightsoil, bottles, and any other co-mingled wastes with medium potential to cause additional impact, primarily to underlying natural soils.	Wastes (as placed or due to subsequent migration) with unacceptable aesthetics including potential for regulated or non-inert physical wastes such as asbestos, nightsoil and chemical or other containers, and interspersed soil impacted by various materials or chemicals, primarily being: <ul style="list-style-type: none"> • Heavy metals (including arsenic, cadmium, chromium, copper, lead, nickel, mercury and zinc) • Petroleum hydrocarbons (TRH/BTEXN) • Organochloride and Organophosphorus Pesticides (OCP/OPP) • Asbestos in soil or as bulk waste materials.
2	Southern rubbish disposal area		Disposal of general rubbish primarily over the southern portion of the site with high potential to cause additional impact, primarily to underlying natural soils and the fill/soil interface that may have perched groundwater.	Low potential for organic landfill leachate or biogas generation, with higher potential for inorganic leachates. Lower potential for soil to be impacted by pathogens or other chemicals such as polyaromatic hydrocarbons (PAH), polychlorinated biphenyls (PCB), semi volatile organic substances (SVOC) and per- and polyfluoroalkyl substances (PFAS).
3	Groundwater, surface water and associated springs		<p><i>Historical landfilling</i> - the potential for wastes to interact and migrate with groundwater or surface stormwater flows cannot be ruled out, in particular from the presence of any groundwater perched in or at the base of the waste profile.</p> <p><i>Cemetery</i> - there is potential for any cemetery impact (primarily nutrients, pathogens, metals and SVOC) to migrate onto the subject site via perched or deeper groundwater.</p>	



5. CONCEPTUAL SITE MODEL

A CSM is the interpretation and assimilation of all site related information into assumptions and hypotheses regarding contamination sources, subsurface contaminant distribution, and dominant transport/fate processes (US EPA 1995). The CSM below was developed on the findings of desktop assessment to date, walkover and resultant AEC and PCOC. The CSM is presented in Table 9 below and graphically in Figure 15 over page.

Table 9 Conceptual Site Model

AEC	Potential Source(s)	Pathway	Receptor	PCOC
1	Northern night soil and bottles disposal area	Ingestion, dermal contact, inadvertent inhalation of dust or landfill gas or vapour.	Current and future site users and ecological receptors.	Physical wastes, primarily bottles and nightsoil, and chemical contamination primarily consisting of heavy metals, TRH/BTEXN, OCP/OPP and asbestos. <i>Also potential for pathogens, PAH, PCB, SVOC, PFAS, nutrients and landfill gas or vapours.</i>
		Stormwater runoff and discharge	Six Mile Creek Left Branch and prior drainage channels	
		Leaching/vertical migration of contaminants	Groundwater	
2	Southern rubbish disposal area	Ingestion, dermal contact, inadvertent inhalation of dust or landfill gas or vapour.	Current and future site users and ecological receptors.	Physical wastes with a possible range of regulated wastes and chemical contamination primarily consisting of heavy metals, TRH/BTEXN, OCP/OPP and asbestos. <i>Also potential for pathogens, PAH, PCB, SVOC, PFAS, nutrients and landfill gas or vapours.</i>
		Stormwater runoff and discharge	Six Mile Creek Left Branch and prior drainage channels	
		Leaching/vertical migration of contaminants	Groundwater	
3	All AECs – groundwater and stormwater surface flows	Intermittent surface flows, rainwater infiltration and related transport via perched or permanent groundwater	Downgradient groundwater and surface flows, and connected consumers and ecology	Per above selected PCOCs excluding inert larger physical wastes and, for groundwater, asbestos.

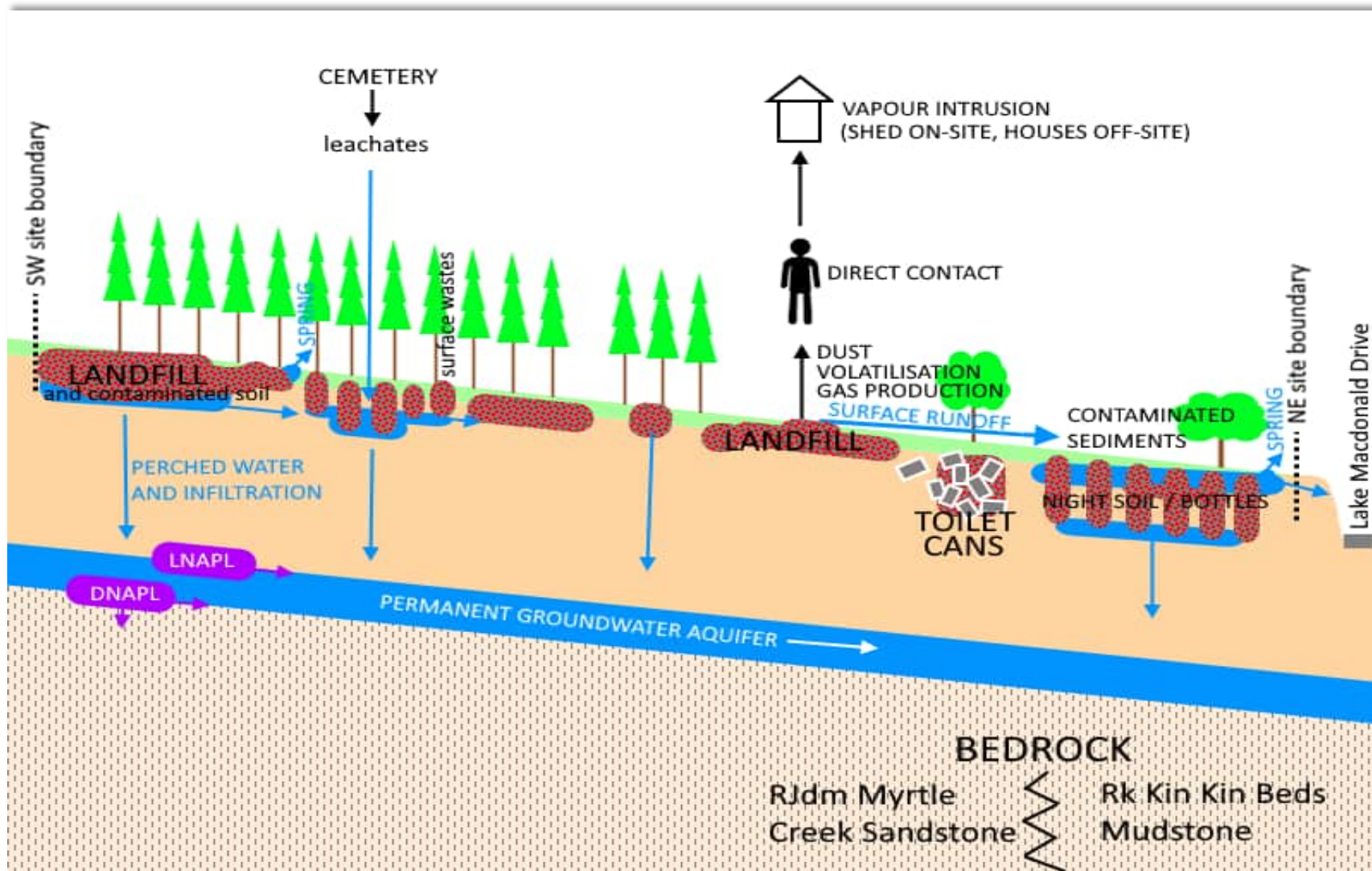


Figure 15 Graphical CSM



6. SAMPLING, ANALYSIS AND QUALITY PLAN

6.1. DATA QUALITY OBJECTIVES PROCESS

This Report was prepared with reference to the CSM and the seven-step data quality objective (DQO) process, which is provided in Appendix B, Schedule B2 of the NEPM. The DQO process is outlined as follows:

- Stating the Problem
- Identifying the Decision
- Identifying Inputs to the Decision
- Defining the Boundary of the Assessment
- Developing a Decision Rule
- Specifying Acceptable Limits on Decision Errors
- Optimising the Design for Obtaining Data.

The DQOs for this Report are outlined in the Table 10 below.

Table 10: Data Quality Objectives

	Question	Information Sources
1	State the problem – assemble an effective planning team, describe the problem and examine the resources for investigating the problem.	
1.1	Write a brief summary of the contamination problem.	<p>The site is associated with potential sources of land contamination impact from historical waste disposal and, at a minimum, the confirmed presence of contaminants in soil and fill comprising sharps, asbestos, general waste and concentrations of the heavy metals copper, zinc, nickel and lead above SAC that were identified during the PSI.</p> <p>Subsequently, the site has been notified to DESI and is (soon to be) listed on the EMR due to the Notifiable Activities of <i>Landfilling</i> and <i>Hazardous Contaminant</i>.</p> <p>The identified contamination requires a DSI to further delineate and characterise known and other potential contamination impact to progress a remediation strategy and site redevelopment for affordable housing or any other land use, with the objective of removing all or a portion of the site from the EMR.</p>
1.2	Identify members of the planning team	Noosa Council (Client and landowner), Trevor Lloyd (CLA) and Andrew Winters (SQP).



1.3	Develop/refine the CSM, including a summary of the exposure scenarios.	The CSM is presented in Section 5.
1.4	Specify the available resources and constraints, such as relevant deadlines for the study, budget, availability of personnel and schedule.	Noosa Council commissioned Environmental Advisors on 19/12/22 to perform the PSI that was updated to a statutory CLID along with a SAQP for the DSI on 20/9/23 (Order NC036819). The DSI was commissioned under Order NC037488 in accordance with our tender submission and subsequent fee proposal dated 27/3/24.
2	Identify the goals of the study – identify the principal study question(s), identify potential alternative actions with implications, and combine these to make statements on the decision problem.	
2.1	Identify the principal study question(s).	<p>The primary question to be answered by the DSI is:</p> <p>To what extent is soil and fill, and possibly groundwater, surface water or air within the soil and above the site (LFG) unacceptably impacted from previous site or surrounding activities, including the landfilling of wastes and the adjacent upgradient cemetery?</p>
2.2	Identify the alternative outcomes or actions that could result from resolution of the principal study question(s).	<p>There is currently a requirement under any future land use scenario for some form of remediation to occur due to the impacted soil and fill identified by the PSI.</p> <p>Resolution of the principal study question, to the satisfaction of regulatory requirements and Council's risk appetite, will allow appropriate remediation actions to occur in response to the known, and remaining potential for, various contaminated media.</p>
2.3	For decision problems, combine the principal study questions and the alternative actions into decision statements.	A DSI is required to further assess known and potential contamination risks to soil, fill, water and from LFG to enable remediation and removal of the site (or portion thereof) from the EMR to allow the proposed development (or any other land use) to proceed.
3	Identify information inputs – identify the information needed to formulate and investigate the problem and confirm that appropriate sampling and analytical methods are available.	
3.1	Identify the information that will be required to resolve the decision statements/ estimation, including existing information and new environmental data, and identify the sources for each item of information required.	<p>Desktop assessment to establish environmental setting and identify nature of AECs (determine potential for contamination impact).</p> <p>Field work observations – soil logs and field sheets from the limited PSI.</p> <p>Results of field observations, monitoring or laboratory analysis for soil, fill, water and LFG compared to guideline criteria provided in the NEPM or other relevant guidance.</p>



3.2	Identify the information needed to establish the action level.	Guideline criteria established by this Report.
3.3	Confirm that appropriate sampling and analytical methods exist to provide the necessary data.	Sampling and analytical methods will be consistent with existing guidance including NEPM. Analytical laboratories are NATA accredited.
4	Define the boundaries of the study – define the target population, the spatial and temporal boundaries associated with the population, examine any practical constraints to collecting data, and factors that affect the selection of the unit which defines the scale of sampling and the scale of decision making or estimation.	
4.1	Define the target population(s) of interest and its relevant spatial boundaries.	Refer to the CSM and Drawings presented in Appendix A.
4.2	Define what constitutes a sampling unit.	Soil sampling units including fill, natural or topsoil samples, as well as sampling units for surface and groundwater, soil vapour or landfill gas.
4.3	Specify temporal boundaries and other practical constraints associated with sample/data collection.	Temporal boundary is the time in which the DSI was conducted (over two main efforts with the second iterative stage involving LFG and various impact delineation works). The practical constraints to sample/data collection include limited reach of the sampling methods (approximately 3mbgl for the excavator, with drill rig limitations based on encountered wastes and geology and maximum design drill depths of the rig - required to be at least >25m for groundwater bore installation and >3m for LFG bores). Other site access obstructions are predominately trees and other dense vegetation as well as the shed footprint.
4.4	Specify the smallest unit on which decisions or estimates will be made.	The Limit of Reporting (LOR) of laboratory analysis combined with visual observations of test pits.
5	Develop the analytic (statistical) approach – develop a logical “if ..., then ..., or ...” statement that defines the conditions that would cause the decision maker to choose among alternative actions.	
5.1	Specify the statistical parameter that characterises the population of interest, such as mean, median, maximum, 95% upper confidence limit (UCL) of the arithmetic average, proportion.	The 95% UCL of the arithmetic average will be another key statistical parameter to evaluate the significance of the laboratory data for a relevant soil population against assessment criteria: <ul style="list-style-type: none"> • no sample to exceed 250% of the criteria • standard deviation to be <50% criteria • 95% UCL is < criteria.
5.2	Specify the action level for the decision.	Criteria for relevant media as presented in Section 7 of this Report.



5.3	Confirm that measurement detection will allow reliable comparisons with the action level.	<p>Samples will be collected and submitted to NATA accredited laboratories. The laboratory analytical LORs are expected to be below the adopted criteria.</p> <p>Other sampling using field equipment is to be performed using fit for purpose and properly calibrated instruments, such as for vapour (PID) or landfill gas (LFG meter).</p>
5.4	Combine the outputs from the previous DQOs steps and develop an “if ..., then ..., else ...” theoretical decision rule based on the chosen action level.	Where unacceptable wastes exists or statistical parameters of the data for soil, fill, waters or air exceed the assessment criteria, then the data point will be considered contaminated and requiring remediation or further justification via further assessment, statistical analysis or risk assessment with respect to the proposed land use.
6	Specify performance or acceptance criteria – to specify probability limits for false rejection and false acceptance decision errors.	
6.1	Specify the decision rule as a statistical hypothesis test.	<p>Null hypothesis is that no unacceptable waste or contamination impact is observed, and the media sampled is not contaminated above criteria (or otherwise can be remediated to an appropriate level).</p> <p>Note that as the land is required to be listed on the EMR, additional assessment to the appropriate resolution for all relevant media, as well as any required remediation, will be required to satisfy legislative requirements and the appointed contaminated land auditor to remove the land from the EMR.</p>
6.2	Examine consequences of making incorrect decisions from the test.	<p>Possible decision errors include:</p> <p>Stating that no wastes exist or classifying media as clean and determining the risk to receptors as low when in fact significant risk exists.</p> <p>Incorrectly stating that wastes are unacceptable or classifying media as impacted resulting in overstated risks and potentially unnecessary remediation.</p>



6.3	<p>Place acceptable limits on the likelihood of making decision errors.</p> <p>Methods to determine if sufficient numbers of samples have been collected, and to assess if the assumed hotspot size and shape are justifiable, should also be documented.</p>	<p>Analytical results of sampled media compared to the assessment criteria, with statistical analysis or modelling as may be required, will determine if unacceptable contamination is present.</p> <p>Observations of waste types and likely volumes and comparison with assessment criteria and guidance for classifying <i>Regulated Waste</i> and <i>Notifiable Activities</i>.</p> <p>Collection and analysis of samples in accordance with the first stage of the DSI sampling strategy as detailed within this SAQP, to at least the minimum sampling densities recommended by relevant guidance documents.</p> <p>Refer to Appendix B for more information on the stages of contamination assessment and Section 11 for the general limitations of contaminated land assessments.</p>
7	<p>Optimise the design for obtaining data – to identify a resource effective sampling and analysis design for generating data that are expected to satisfy the DQOs.</p>	
7.1	<p>Document the final sampling and analysis design, along with a discussion of the key assumptions underlying this design.</p>	<p>See following Sections.</p>
7.2	<p>Detail how the design should be implemented, together with contingency plans for unexpected events.</p>	<p>See following Sections.</p>
7.3	<p>Determine the quality assurance and quality control (QA/QC) procedures that would be performed to detect and correct problems to ensure defensible results.</p>	<p>See following Sections.</p>
7.4	<p>Document the operational details and theoretical assumptions of the selected design in the sampling, analysis and quality plan (SAQP).</p>	<p>See following Sections.</p>

6.2. SOIL OR FILL SAMPLING

6.2.1. RATIONALE

The soil and fill assessment effort was based on the following strategy presented within the PSI fee proposal and subsequent DSI SAQP:

- PSI soil sampling** - 11 targeted locations based upon the two suspected waste disposal AEC as identified by the desktop assessment (5 locations within AEC 1 and 6 within AEC 2) that included one test pit that was extended into a 15m transect (being TP7) and one location where a background NEPM sample was collected for derivation of relevant site-derived criteria, sourced from representative natural soil at location TP4 at a depth of 1mbgl.



- **DSI soil sampling** – involving an additional 65 test pit or transect locations that met the intent and sample location allowances of the SAQP, as follows:
 - 35 grid locations across the entire 3.537ha site to build on the 11 PSI locations and comprise the minimum 46 systematic sampling locations required by NEPM and *NSW EPA Contaminated Land Guidelines, Sampling design part 1 – application*, August 2022 (**NSW EPA 2022**) for a site of this size (being 45 samples for a 3.5ha site and 50 samples for a 4ha site)
 - 17 grid infill locations at AEC 2 to double the grid sampling density for asbestos assessment and to assist with delineating wastes within this area, to meet the requirements of NEPM Schedule B2 and *Guidelines for the Assessment, Remediation and Management of Asbestos Contaminated Sites in Western Australia, 2011 (WA 2021)*. This was based on PSI observations and Tables 4 and 5 in WA 2021, with asbestos *likely (some isolated asbestos found and landfill present)* the corresponding sampling density required (for surface and at depth) is double that recommended by AS 4482.1⁵
 - the deferred 6 sampling locations to the south of the site as discussed in SAQP Section 9.2.1 (other adjustments for initial DSI sampling) were not required to be completed for the purposes of asbestos assessment, due to no relevant wastes being identified over this area
 - 13 targeted locations over AEC 1 where asbestos has not been identified to date, to assist with delineating night soil deposits and assessing risk associated with historical structures at the north-east site corner and a reported toilet can burial area
 - 4 of the above test pits (being TP7, TP27, TP38 and TP76) were expanded into various 90 degree offset transects or similar arrangements to assist with waste delineation
 - soil sampling was not undertaken during the installation of the groundwater or LFG monitoring bores, however, these locations were logged and provide an additional 11 locations of noted soil conditions, albeit via drilling works that provide less information regarding potential buried wastes
 - location TP70 was required to be installed just off-site to the west, due to the presence of structures and buried domestic water pipes
 - where wastes were encountered, field observations indicate that all sampling locations continued into underlying natural soils.

Soil and other sampling locations are shown on Drawing 1 (Appendix A).

6.2.2. SOIL SAMPLING PROCEDURE

In accordance with NEPM Schedule 2 Section 11.1 and SAQP Section 9.2.2 the SQP was present during all soil sampling works and has demonstrated competence in contaminated land investigations including asbestos assessment. Sample collection methodology comprised:

- Asbestos 7mm field sieving of a 10L sample was undertaken at all locations of suspected potential asbestos impact (being any locations where wastes were observed) to progress identification of the presence and form of any asbestos, being potential Asbestos Fines (**AF**), Fibrous Asbestos (**FA**) or Asbestos Containing Materials (**ACM**).

⁵ The guidance downloaded from <https://www.health.wa.gov.au/~media/Files/Corporate/general-documents/Asbestos/PDF/14020-Asbestos-Contaminated-Sites-WA-Guidelines-Chapter-5.pdf> refers to AS 4485.1 (security for healthcare facilities) in Table 5 and is assumed to be a referencing error to AS 4482.1 *Guide to the Investigation and Sampling of Potentially Contaminated Soil – Non-Volatile and Semi-Volatile Compounds*. Note that AS 4482.1 is no longer supported by AS, with similar minimum sampling densities provided by the relevant NSW EPA 2022 guidance (in the absence of comparable Qld guidance).



- Collection of grab soil samples from either the side of the test pit or from the bucket of the excavator using gloved hands, or sampling trowel with respect to other surface samples. Nitrile gloves were changed for each sample collected
- Most sample locations included collection of soil samples at the surface or 0.25 mbgl, 0.5 mbgl, 1 mbgl then every 0.5 mbgl or as required by the SAQP or the judgement of the SQP based on field observations
- Based on field observations, sampling continued into natural soils below the base of all encountered wastes
- Collection of field duplicate samples with an analysis target of 1 field duplicate per 10 primary field samples analysed in accordance with primary samples. With reference to Table 11 the actual field duplicate to primary ratios were as follows:
 - 1:11.7 Metals
 - 1:11.6 OCP/OPP
 - 1:11 SVOC
 - 1:11 TRH/BTEXN
 - 1:10 PFAS
 - 1:10 PAH
 - 1:10 PCB
 - no asbestos duplicates were collected.
- Collection and analysis of field triplicates with an analysis target of 1 field triplicate per 20 primary field samples analysed, with analysis of the primary and duplicate sample at the primary laboratory, and analysis of the triplicate at a second NATA accredited laboratory. With reference to Table 11 the actual field triplicate to primary ratios were as follows:
 - 1:22 Metals
 - 1:22 TRH/BTEXN
 - 1:20 PFAS
 - 1:17.5 OCP/OPP
 - 1:15 PAH
 - 1:15 PCB
 - no asbestos or SVOC triplicates were collected.
- Use of laboratory supplied blank samples (analysed in accordance with primary samples) that was used from the commencement of PSI, DSI 1 and DS12 soil sampling activities and analysed for volatile TRH and, for DSI 1, PFAS
- Use of properly calibrated PID and LFG monitors with calibration certificates presented in Appendix O
- Samples were collected in laboratory prepared jars and placed in chilled insulated containers for transport to the laboratory
- Logging of location, lithology, sample depths, observations and signs of potential contamination, water ingress etc



- Photographic lithological recording, and
- Sequentially backfilling the test pits in the general reverse order of excavation, to minimise deeper burial of any encountered waste materials.

6.2.3. SOIL LABORATORY ANALYSIS

SAQP Section 9.2.3 identified the PCOC and proposed allowances for NATA laboratory analysis of selected soil samples for the DSI, which is reconciled in Table 11 below.

Table 11: DSI soil sample allowances vs actual laboratory analysis

Analyte	DSI SAQP allowance (primary and QA)	DSI Actual (primary and QA)	All soil or fill samples (PSI, DSI and soil screening trial)		
			Primary	Duplicates	Triplicates
Heavy Metals	173	174	176	15	8
Chromium speciation	5	3	3	-	-
TRH/BTEXN	69	85	88	8	4
asbestos bulk (ACM)	46	5	5	-	-
asbestos in soil (AF/FA)	35	29	39	-	-
OCP/OPP	35	34	35	3	2
PAH	35	34	30	3	2
PCB	35	34	30	3	2
SVOC	23	24	22	2	-
PFAS	23	23	20	2	1

The above table excludes various ASLP and TCLP leachates analysis.

6.3. GROUNDWATER SAMPLING

6.3.1. RATIONALE AND MONITORING BORE LOCATIONS

The site setting review indicated the site is not mapped as a potential Groundwater Dependant Ecosystem (**GDE**) with an absence of any higher value ecological receptors on or near the site, however, human health is of concern from any site derived contamination due to the presence of 26 registered groundwater bores and potential for surface expression within a 2000m radius.

The closest registered groundwater bore RN185193 located approximately 184m south-east has a recorded groundwater aquifer from 24 to 27mbgl in shale and quartz formations, with permanent groundwater therefore likely to be present between 25 to 30 metres below ground level (**mbgl**).

Note that the actual groundwater levels during monsoonal conditions were much shallower over the northern portion of the site within the Kin Kin mudstone formation, with groundwater not encountered over the southern portion of the site within the Myrtle Creek sandstone formation.

Groundwater would be expected to generally flow in a direction sympathetic to the natural topography, being anywhere from the north-north-east in an arc around to the east-south-east. Actual groundwater flow direction may vary subject to various site and regional hydrogeologic conditions.



The rationale for groundwater sampling covered by the SAQP was to initially assess the deeper permanent groundwater conditions at the site boundary both up and down gradient via installation of 3 to 5 boreholes to a depth of 30mbgl, with 4 bores installed as shown on Drawing 1 in Appendix A and the construction logs presented in Appendix N.

- MB1 – installed at eastern boundary within a small valley expected to be downgradient of AEC 1 and AEC 2
- MB2 - north-east corner of the site and nominally downgradient of AEC 1
- MB3 – eastern boundary nominally downgradient of an area of known landfilling at AEC 2
- MB4 - installed at the north-western boundary and nominally an upgradient bore that would be expected to receive groundwater flows from the cemetery land.

6.3.2. MONITORING BORE CONSTRUCTION

The 4 groundwater monitoring bores were drilled and constructed to a target depth of 30mbgl with reference to:

- *Minimum Construction Requirements for Water Bores in Australia, Edition 3 (2012).*

The actual depths for some bores were reduced due to refusal on rock or wet soil conditions collapsing the hole, with MB1 installed to 8mbgl in collapsing soils (water present), MB3 refused on basalt at 7.6mbgl (dry) and MB4 refused on white sandstone at 25mbgl (water present). MB2 was installed to the target 30mbgl with water present.

Monitoring bores were constructed from factory slotted 50mm Class 18 UPVC and screened to at least a metre below any encountered or expected waste materials so as to minimise introducing a preferential pathway to the aquifer. Soil sampling was not undertaken at the time of bore installation.

The screening was surrounded by a 2mm washed sand gravel pack and sealed to the surface with a bentonite seal (wetted during installation) or as otherwise required based on field observations to avoid migration of overlying contamination. Bores were finished with a stick up and lockable monument covers.

Following installation, the bores were developed using compressed air to extract at least three well volumes (MB3 was dry). Groundwater monitoring bore logs are presented in Appendix N.

6.3.3. GROUNDWATER SAMPLING PROCEDURE

To investigate groundwater at the site, the following scope was completed:

- Development of the bores after completion of drilling (development water disposed of onsite)
- Bores left to 'rest' for at least 7 days
- Remobilise to site
- Dipping of all bores for groundwater level measurement and detection of non-aqueous phase liquids (NAPLs or 'fuel products')
- Purging of groundwater and measurement of field parameters until stabilisation using a water quality meter and flow cell
- Use of properly calibrated dip and water quality meters with calibration certificates presented in Appendix O



- Collection of one groundwater sample from each viable bore being MB1, MB2 and MB4 (plus a duplicate and trip blank for QA purposes) via bailer technique (purge water disposed of onsite in grassed areas)
- Metal samples were field filtered using a disposable syringe and single use 45µm filters
- Samples were collected in adequately labelled and laboratory prepared sampling bottles with appropriate preservation for each analyte to be tested
- Samples were placed in a secure chilled container for transport to the laboratory.

6.3.4. GROUNDWATER SAMPLE ANALYSIS

All groundwater samples were analysed for:

- TRH/BTEXN/PAH (plus volatiles for the trip blank water sample per QA requirements) (with silica gel clean-up for TRH)
- Ultra trace heavy metals (suite of 8) (note that due to no Cr VI detected in soil, groundwater chromium was not speciated)
- PFAS (super trace short suite)
- SVOC
- Total Dissolved Solids
- Measurement of field parameters in all samples:
 - Temperature, pH, Eh, EC, DO
 - Field observations on turbidity, colour, odour and sheen.

6.4. SOIL AND WATER SAMPLES COLLECTED AND ANALYSED

The soil and water samples collected and submitted for laboratory analysis are summarised in Table 12 over page.



Table 12: Soil and Water Samples Collected and Analysed

Sample ID#	Date	Comments on AEC and geology	TRH/BTEXN	Metals	PAH	OCP/OPP	PCB	SVOC	PFAS	Asbestos
PSI samples										
TP1-0.1	24/2/2023	fill with infrequent glass and metal		x		x				
TP1-0.5	24/2/2023	possible natural soil but may be nightsoil fill	x	x						
TP2-0.1	24/2/2023	fill with glass bottle		x						
TP2-0.5	24/2/2023	fill with glass bottles and ceramics		x						
TP3-0.1	24/2/2023	possible natural, some glass and terracotta at surface	x	x						
TP3-0.5	24/2/2023	natural	x	x						
TP4-0.1	24/2/2023	natural		x		x				
TP4-1.0	24/2/2023	natural (NEPM background sample)								
TP5-0.1	24/2/2023	natural	x	x						
TP5-0.5	24/2/2023	natural		x						
TP6-0.1	24/2/2023	fill with frequent bottles and glass fragments	x	x						
TP6-0.3	24/2/2023	natural		x		x				
TP7-0.1	24/2/2023	fill with infrequent glass fragments	x	x						x
TP8-0.1	24/2/2023	fill with glass and ceramic fragments	x	x						x
TP9-0.1	24/2/2023	fill with metal, glass and ceramic fragments	x	x		x				
TP9-0.3	24/2/2023	natural		x						
TP10-0.1	24/2/2023	fill with very frequent landfill wastes		x						
TP10-0.5	24/2/2023	fill with very frequent landfill wastes	x	x		x				
TP10-0.7	24/2/2023	natural	x	x						
TP10-B1	24/2/2023	suspect asbestos bulk sample from TP10								x
TP10-B2	24/2/2023	suspect asbestos bulk sample from TP10								x
TP11-0.1	24/2/2023	fill with glass and suspected asbestos		x						
TP11-0.5	24/2/2023	natural		x						
TP11-B1	24/2/2023	suspect asbestos bulk sample from TP11								x
DSI 1 samples										
TP12-0.1	19/02/2024	natural	x	x	x	x	x		x	x
TP12-0.5	19/02/2024	natural	x	x						
TP12-1.0	19/02/2024	natural		x						
TP12-2.0	19/02/2024	natural	x	x	x	x	x			
TP13-0.1	19/02/2024	possible natural soil but likely nightsoil fill	x	x						
TP13-0.5	19/02/2024	possible natural soil but likely nightsoil fill		x						



Sample ID#	Date	Comments on AEC and geology	TRH/BTEXN	Metals	PAH	OCP/OPP	PCB	SVOC	PFAS	Asbestos
TP13-1.0	19/02/2024	natural		x				x		
TP14-0.1	19/02/2024	possible natural soil but likely nightsoil fill	x	x					x	x
TP14-0.5	19/02/2024	fill with infrequent glass and plastic	x	x	x	x	x			
TP14-1.0	19/02/2024	fill with infrequent glass and plastic	x	x						
TP14-2.0	19/02/2024	likely natural	x	x	x	x	x		x	
TP14-3.3	19/02/2024	natural	x	x						
TP15-0.1	19/02/2024	fill with infrequent bitumen and nails						x	x	x
TP15-0.5	19/02/2024	natural	x	x				x	x	x
TP15-1.0	19/02/2024	natural		x						
TP15-2.0	19/02/2024	natural	x	x						
TP16-0.1	19/02/2024	likely natural		x					x	
TP16-0.5	19/02/2024	natural		x						
TP16-1.0	19/02/2024	natural		x						
TP17-0.1	19/02/2024	likely natural		x						
TP17-0.5	19/02/2024	natural	x	x						
TP18-0.1	19/02/2024	likely natural		x						
TP18-0.5	19/02/2024	natural						x	x	
TP18-1.0	19/02/2024	natural		x						
TP19-0.1	19/02/2024	natural		x						
TP19-1.0	19/02/2024	natural		x				x		
TP19-2.2	19/02/2024	natural		x						
TP20-0.1	19/02/2024	possible natural soil but likely nightsoil fill	x	x						
TP20-0.5	19/02/2024	possible natural soil but likely nightsoil fill		x						
TP20-1.0	19/02/2024	natural						x		
TP20-2.8	19/02/2024	natural	x	x						
TP21-0.1	19/02/2024	possible natural soil but likely nightsoil fill	x	x						
TP21-0.5	19/02/2024	possible natural soil but likely nightsoil fill	x	x	x	x	x	x		
TP21-1.0	19/02/2024	natural	x	x						
TP22-0.1	19/02/2024	natural		x						
TP22-0.5	19/02/2024	natural		x						
TP22-1.0	19/02/2024	natural		x						
TP23-0.5	19/02/2024	natural		x						
TP23-1.0	19/02/2024	natural	x	x						
TP23-2.5	19/02/2024	natural		x				x		



Sample ID#	Date	Comments on AEC and geology	TRH/BTEXN	Metals	PAH	OCP/OPP	PCB	SVOC	PFAS	Asbestos
TP24-0.5	19/02/2024	possible natural soil but likely nightsoil fill, with a broken ceramic teacup and 2 saucers	x	x	x	x	x		x	
TP24-0.7	19/02/2024	possible natural soil but likely nightsoil fill		x					x	
TP24-1.0	19/02/2024	natural		x						
TP25-0.5	19/02/2024	possible natural soil but likely nightsoil fill		x				x		
TP25-1.0	19/02/2024	natural		x				x		
TP26-0.1	19/02/2024	natural								x
TP26-0.5	19/02/2024	natural		x						
TP26-1.0	19/02/2024	natural		x						
TP27-0.1	20/02/2024	completed as 2 transects (50m total length) nightsoil fill with frequent ceramic, glass, brick and 4 nightsoil metal cans		x					x	x
TP27-0.5	20/02/2024	fill with frequent ceramic and glass	x	x						
TP27-1.0	20/02/2024	natural	x	x						
TP28-0.1	20/02/2024	likely natural		x						
TP28-0.5	20/02/2024	likely natural		x						
TP29-0.1	20/02/2024	likely natural		x						
TP29-0.5	20/02/2024	likely natural		x				x		
TP29-1.0	20/02/2024	natural		x						
TP29-2.4	20/02/2024	natural		x						
TP30-0.1	20/02/2024	likely natural		x						
TP30-0.5	20/02/2024	likely natural		x						
TP31-0.1	20/02/2024	likely natural		x						
TP31-0.5	20/02/2024	likely natural		x						
TP32-0.1	20/02/2024	likely natural		x						
TP32-0.5	20/02/2024	natural		x						
TP33-0.1	20/02/2024	likely natural	x	x					x	x
TP33-0.5	20/02/2024	natural	x	x						
TP33-1.0	20/02/2024	natural		x						
TP33-2.3	20/02/2024	natural		x						x
TP34-0.1	20/02/2024	likely natural	x	x	x	x	x			
TP34-0.5	20/02/2024	natural	x	x						
TP35-0.1	20/02/2024	natural		x					x	x
TP36-0.1	21/02/2024	natural		x						
TP36-0.5	21/02/2024	natural		x						
TP37-0.1	21/02/2024	natural		x						
TP37-0.5	21/02/2024	natural		x						



Sample ID#	Date	Comments on AEC and geology	TRH/BTEXN	Metals	PAH	OCP/OPP	PCB	SVOC	PFAS	Asbestos
TP38-0.1	21/02/2024	fill with frequent wastes including glass, ceramic, metal leaf suspension and possible asbestos		X					X	X
TP38-0.5	21/02/2024	natural		X						X
TP38-B1	21/02/2024	bulk building material sample sieved from fill at TP38 and analysed for asbestos								X
TP39-0.1	21/02/2024	possible fill		X						
TP39-0.5	21/02/2024	natural		X						
TP40-0.1	21/02/2024	fill with infrequent wastes including glass and ceramic fragments	X	X	X	X	X			
TP40-0.5	21/02/2024	natural	X	X						
TP40-1.0	21/02/2024	natural	X	X						
TP41-0.2	21/02/2024	fill with infrequent wastes including glass and ceramic fragments	X	X						
TP41-0.5	21/02/2024	natural	X	X	X	X	X			
TP42-0.2	21/02/2024	likely fill		X				X	X	
TP42-1.0	21/02/2024	natural		X						
TP43-0.1	21/02/2024	fill with infrequent glass	X	X				X		
TP43-0.3	21/02/2024	likely fill	X	X	X	X	X		X	X
TP43-0.5	21/02/2024	natural	X	X				X		
TP43-1.0	21/02/2024	natural	X	X						
TP44-0.1	21/02/2024	fill with infrequent glass fragments and a glass bottle	X	X						
TP44-0.5	21/02/2024	natural	X	X	X	X	X			
TP44-1.0	21/02/2024	natural	X	X	X	X	X			
TP45-0.1	21/02/2024	fill with infrequent wastes including glass and ceramic fragments	X	X					X	X
TP45-0.5	21/02/2024	natural	X	X	X	X	X			
TP45-1.0	21/02/2024	natural	X	X						
TP46-0.2	21/02/2024	fill with infrequent wastes including glass and ceramic fragments	X	X	X	X	X			
TP46-0.5	21/02/2024	natural	X	X	X	X	X			
TP46-1.0	21/02/2024	natural	X	X						
TP47-0.2	21/02/2024	fill with infrequent wastes including glass and ceramic fragments	X	X	X	X	X	X		X
TP47-0.5	21/02/2024	natural	X	X				X		
TP47-1.0	21/02/2024	natural	X	X						
TP48-0.2	21/02/2024	fill with infrequent wastes including glass and ceramic fragments	X	X	X	X	X		X	X
TP48-0.5	21/02/2024	natural	X	X	X	X	X		X	X
TP49-0.2	22/02/2024	fill with infrequent wastes including glass and ceramic fragments	X	X				X	X	X
TP49-1.0	22/02/2024	natural	X	X	X	X	X			
TP50-0.1	22/02/2024	fill with very frequent wastes including glass, ceramic, metal and electrical insulators		X						X
TP50-0.5	22/02/2024	natural		X						



Sample ID#	Date	Comments on AEC and geology	TRH/BTEXN	Metals	PAH	OCP/OPP	PCB	SVOC	PFAS	Asbestos
TP51-0.2	22/02/2024	possible fill		X						
TP51-0.5	22/02/2024	natural		X						
TP51-1.4	22/02/2024	natural	X	X	X	X	X			
TP52-0.1	22/02/2024	fill with infrequent glass fragments	X	X	X	X	X			X
TP52-0.5	22/02/2024	natural		X						
TP53-0.2	22/02/2024	fill with frequent glass and ceramic fragments	X	X	X	X	X	X		X
TP53-0.5	22/02/2024	natural	X	X						
TP53-1.0	22/02/2024	natural						X		
TP54-0.1	22/02/2024	fill with infrequent glass and ceramic fragments	X	X	X	X	X			X
TP54-0.5	22/02/2024	natural		X						
TP55-0.1	22/02/2024	fill with frequent glass and possible asbestos	X	X	X	X	X			X
TP55-0.5	22/02/2024	natural		X						X
TP55-B1	22/02/2024	bulk building material sample sieved from fill at TP55 and analysed for asbestos								X
TP56-0.1	22/02/2024	possible fill		X						
TP56-0.5	22/02/2024	natural		X						
TP57-0.1	22/02/2024	fill with infrequent ceramic and glass fragments	X	X	X	X	X			
TP57-0.5	22/02/2024	natural	X	X	X	X	X			
TP58-0.1	22/02/2024	fill with infrequent glass fragments		X						X
TP58-0.5	22/02/2024	natural		X						
TP59-0.2	21/02/2024	fill with infrequent glass fragments	X	X	X	X	X	X		
TP59-0.5	21/02/2024	natural	X	X				X		
TP60-0.1	22/02/2024	possible fill		X						X
TP60-0.5	22/02/2024	natural	X	X						
TP61-0.1	22/02/2024	natural		X						X
TP62-0.1	22/02/2024	fill with infrequent glass fragments	X	X	X	X	X			
TP62-0.5	22/02/2024	natural		X						
TP63-0.1	22/02/2024	possible fill		X						
TP63-0.5	22/02/2024	natural		X						
TP64-0.2	21/02/2024	natural		X						
TP64-0.5	21/02/2024	natural		X						
TP65-0.1	22/02/2024	possible fill	X	X	X	X	X	X		X
DS1 2 samples										
TP67-0.1	7/05/2024	natural	X	X						
TP67-0.5	7/05/2024	natural		X						



Sample ID#	Date	Comments on AEC and geology	TRH/BTEXN	Metals	PAH	OCP/OPP	PCB	SVOC	PFAS	Asbestos
TP67-1.0	7/05/2024	natural		x						
TP68-0.1	7/05/2024	natural	x	x						x
TP68-0.4	7/05/2024	natural	x	x						
TP69-0.01	7/05/2024	natural	x	x						x
TP70-0.1	7/05/2024	fill with infrequent glass fragments		x						x
TP70-0.4	7/05/2024	natural	x	x						
TP71-0.1	7/05/2024	natural	x	x						x
TP71-0.4	7/05/2024	natural		x						
TP72-0.1	7/05/2024	natural	x	x						x
TP72-0.4	7/05/2024	natural		x						
TP73-0.1	7/05/2024	natural		x						x
TP73-0.3	7/05/2024	natural		x						
TP74-0.1	7/05/2024	natural		x						
TP74-0.3	7/05/2024	natural		x						
TP75-0.1	7/05/2024	fill with very frequent glass and ceramic fragments	x	x						
TP75-0.3	7/05/2024	fill with very frequent glass and ceramic fragments	x	x						
TP75-1.0	7/05/2024	natural	x	x						
Screening trial samples										
ST1	23/04/2024	mechanically screened soil material	x	x						x
ST2	23/04/2024	mechanically screened soil material	x	x						x
ST3	23/04/2024	mechanically screened soil material	x	x	x	x	x			x
ST4	23/04/2024	mechanically screened soil material	x	x						x
ST5	23/04/2024	mechanically screened soil material	x	x						x
Groundwater samples										
MB1-1	14/03/2024	groundwater	x	x	x			x	x	
MB2-1	14/03/2024	groundwater	x	x	x			x	x	
MB4-1	14/03/2024	groundwater	x	x	x			x	x	
QA samples										
051332	24/2/23	PSI soil trip blank	x							
D1	24/2/23	duplicate of TP4-0.1		x						
D2	24/2/23	duplicate of TP7-0.1	x	x						
020930	19/02/2024	DSI 1 soil trip blank							x	
011745	19/02/2024	DSI 1 soil trip blank	x							
D1	19/02/2024	duplicate of TP12-0.1	x	x						



Sample ID#	Date	Comments on AEC and geology	TRH/BTEXN	Metals	PAH	OCP/OPP	PCB	SVOC	PFAS	Asbestos
D2	19/02/2024	duplicate of TP20-2.8		x						
D3	19/02/2024	duplicate of TP22-0.5		x						
D4	20/02/2024	duplicate of TP34-0.5	x	x						
D5	20/02/2024	duplicate of TP35-0.1		x					x	
D6	21/02/2024	duplicate of TP43-0.3	x	x	x	x	x		x	
D7	21/02/2024	duplicate of TP59-0.2	x	x	x	x	x			
D8	21/02/2024	duplicate of TP42-0.2		x				x		
D9	22/02/2024	duplicate of TP53-0.5	x	x						
D10	22/02/2024	duplicate of TP51-1.4	x	x	x	x	x			
D11	22/02/2024	duplicate of TP60-0.5	x	x						
D12	22/02/2024	duplicate of TP65-0.1		x				x		
D13	22/02/2024	duplicate of TP61-0.1		x						
T1	19/02/2024	triplicate of TP12-0.1		x						
T2	19/02/2024	triplicate of TP22-0.5		x						
T3	20/02/2024	triplicate of TP35-0.1		x					x	
T4	21/02/2024	triplicate of TP43-0.3	x	x	x	x	x			
T5	21/02/2024	triplicate of TP42-0.2		x						
T6	22/02/2024	triplicate of TP53-0.5	x	x						
T7	22/02/2024	triplicate of TP51-1.4	x	x	x	x	x			
T8	22/02/2024	triplicate of TP60-0.5	x	x						
011747	7/05/2024	DSI 2 soil trip blank	x							
0705D	7/05/2024	duplicate of TP72-0.1	x	x						
220817	14/3/2024	groundwater trip blank	x							
D1	14/3/2024	duplicate of MB4-1	x	x	x			x	x	

Soil sample ID nomenclature for primary in-situ samples is X-Y where X denotes the unique sequential sampling location and Y is the mid depth of the soil sample in metres below ground level.



6.5. VAPOUR AND LANDFILL GAS SAMPLING

The disposal of night soil over the AEC 1 northern portion of the site is associated with the likely historical generation of landfill gas (**LFG** or biogas). There was no historical or field evidence of landfilled putrescible materials over the AEC 2 southern portion of the site.

Whilst decomposition over the subsequent approximately 50 years since deposition is expected to have limited present-day LFG generation, confirmatory evidence was required in accordance with:

- NSW EPA Contaminated Land Guidelines - *Assessment and management of hazardous ground gases, 2020 (NSW EPA 2020)*
- DES (now DESI), 2017, *Model operating conditions, ERA 60 – Waste disposal*. Brisbane: Department of Environment and Science Government (**ERA 60**)

As with general land contamination assessment, and as noted by Section 3 of NSW EPA 2020, a staged approach was undertaken to maximise the effectiveness of the LFG site assessment work and minimise its costs, with opportunistic surface monitoring undertaken during DSI 1 and a formal sub-surface assessment during DSI 2.

6.5.1. DSI 1 LFG WORKS

The technique of surface emission measurement may be applied to bulk gases of typically closed landfills or other filled ground (NSW EPA 2020, Appendix A4.1, Table 18). Opportunistic surface monitoring during DSI 1 was used to provide an additional line of evidence to confirm the CSM and support future LFG borehole placement, with all test pits screened, including those over AEC 2 where an LFG source was not expected.

With an absence of major service trenches or similar underground infrastructure, the surface screening focused on the excavated test pits, any adjacent cracked soil voids, site boundary adjacent housing and the recently constructed shed.

With reference to Section 3.4.4 and Appendix A4.5.2 of NSW EPA 2020 and Section 5.2 of *NSW EPA Environmental Guidelines, Solid waste landfills*, 2nd edition, 2016 (**NSW EPA 2016**) the DSI 1 surface monitoring methodology included:

- Using a calibrated “Eagle 2” landfill gas monitor with a methane sensor detection level of at least 20ppm, with the monitor able to further record at explosivity (PID surrogate), carbon dioxide and oxygen (refer to Appendix O for calibration certificate)
- Testing undertaken preferably during low wind conditions (<10km/h) and relatively low and stable atmospheric pressure (less than 101.3 kPa)
- The LFG monitoring occurred as follows in accordance with the SAQP:
 - in the atmosphere no greater than 5cm above the ground surface or otherwise within the excavated test pit at various recorded depths within 5cm of the test pit base or wall
 - continuous transects at the site boundary immediately bordering residential housing located east and west of the site.
 - within and around the shed at various ground and ceiling locations.



Field and weather station measurements of rainfall, wind and atmospheric pressure were recorded and used as part of the data interpretation and refinement of the CSM.

6.5.2. DSI 2 LFG WORKS AND SAMPLING PROCEDURE

With reference to Section 3.4.5 and Appendix A4 of NSW EPA 2020, to further investigate LFG at the site the following scope was completed:

- Installation of 7 LFG bores, fitted with quick connect nipples, to between 1.6 and 2.3mbgl over AEC 1 (refer to Drawing 1 Appendix A and logs presented at the end of Appendix G)
- Bores left to 'rest' for at least 7 days
- Remobilise to site to perform a round of monitoring on the 7 LFG bores and 4 groundwater bores using a calibrated "GA5000" landfill gas monitor (refer to Appendix O for calibration certificate) for methane (CH₄), hydrogen sulfide (H₂S₄), carbon dioxide (CO₂), carbon monoxide (CO), oxygen (O) and barometric pressure and pressure differential at each LFG bore.

6.6. QUALITY ASSURANCE AND QUALITY CONTROL PLAN

6.6.1. QUALITY ASSURANCE PROCEDURES

The following quality control program was implemented for the assessment, with quality assurance elements including:

- Using qualified and experienced personnel to conduct the field investigation,
- Compliance with the SAQP and other site-specific project plans,
- Using a NATA registered laboratory for sample analysis,
- Despatching samples using appropriate chain of custody procedures,
- Referring to procedures for soil, water and LFG sampling, field testing and decontamination within:
 - National Environment Protection Council (NEPC), 1999, as amended 2013. *National Environment Protection (Assessment of Site Contamination) Measure* (NEPM)
 - Standards Australia, Guide to the investigation and sampling of potentially contaminated soil. AS4482.1 – 2005
 - NSW EPA Contaminated Land Guidelines, *Sampling design part 1 – application*, August 2022 (**NSW EPA 2022**)
 - NSW EPA Contaminated Land Guidelines - *Assessment and management of hazardous ground gases, 2020* (**NSW EPA 2020**)
 - NSW EPA Environmental Guidelines, Solid waste landfills, Second edition, 2016 (**NSW EPA 2016**)
 - DES (now DESI), 2018 as updated 18 May 2023, Queensland auditor handbook for contaminated land: Module 6: Content requirements for contaminated land investigation documents, certifications and audit reports. Brisbane: Department of Environment and Science, Queensland Government (ESR/2018/4224 as updated 18/5/23) (**Module 6**)
 - Heads of EPA Australia and New Zealand (2020) PFAS National Environmental Management Plan Version 2.0 (**NEMP**)



- DES (now DESI), 2018, Monitoring and Sampling Manual: Environmental Protection (Water) Policy. Brisbane: Department of Environment and Science Government.

6.6.2. DATA QUALITY INDICIES

Key indices for data quality are presented in Table 13.

Table 13: Key Data Quality Indices

Item	Detail
Documentation	Completion of field sheets and laboratory chain of custody documentation. Reporting using standard measurements and nomenclatures.
Completeness	Selection and field monitoring or laboratory analysis of contaminants of environmental concern based upon site history information and field observations.
Comparability	Consistency of field sampling and monitoring techniques and use of a NATA certified laboratory utilising traceable USEPA and APHA methods, or similar.
Representativeness	Samples collected using a systematic approach.
Precision	Calculation of Relative Percentage Difference (RPD) for field duplicate sets to assess reproducibility of data against criteria and allow comment on validity.
Accuracy	Data accuracy is achieved through minimising bias effects on samples collected and analysed, such as from cross contamination, incorrect preservation or laboratory techniques. Measures of accuracy include following correct sampling and transport procedures, absence of detectable contamination in field blanks, and use of laboratory quality control samples such as surrogates.

6.6.3. FIELD PROCEDURES

SAMPLING

Sampling was completed in accordance with the procedures described and the SAQP.

DOCUMENTATION

Field QC included sample transportation under Chain of Custody procedures. Completed Chain of Custody documentation and Sample Receipt Advice forms, certifying the condition of the samples upon arrival at the contract laboratory are reported along with the appended certificates of laboratory analysis.

STORAGE AND TRANSPORT

Samples were collected into laboratory supplied containers appropriate for the matrix and the proposed analysis and stored in ice-cooled and insulated containers. Sample integrity was maintained by using sealed plastic/glass jars (soil samples) or plastic/glass bottles (water).

6.6.4. LABORATORY PROCEDURES

HOLDING TIMES

Sample extraction commenced within recommended holding times from date of collection.

LABORATORY QA/QC

Laboratory QA/QC included the following routine quality control procedures for every analytical run:



- Matrix spikes - samples were spiked by the laboratory with a known concentration of analytes and then tested for percent recovery to monitor matrix effects on analyte recovery.
- Surrogates – known quantities of similar compounds to the target analytes are added to samples to monitor potential analyte loss at any stage of laboratory analysis.
- Laboratory duplicates – a randomly selected sample is split and then analysed with the samples forming the analytical run.
- Method/laboratory blanks – use of reagent blanks to monitor potential contamination of equipment and standards being used.

6.6.5. FIELD BLANK

A field blank sample is a solution or appropriate media that is as free as possible of analytes of interest. The field blank is packaged similarly to the samples being collected, and accompanies the field samples throughout sampling, transport and laboratory analysis to monitor potential for false positives from introduced contamination.

Soil and water field blanks were sourced from the laboratory and used in accordance with the SAQP.

6.6.6. FIELD DUPLICATES AND TRIPLICATE

A field duplicate is a single sample that is split into two sample containers with both separately analysed by the laboratory (with unrelated sample labelling), providing a measure of analytical precision. The results of both samples are then assessed by comparing the Relative Percentage Difference (**RPD**) of each analyte, noting that the RPD may also be influenced by sample heterogeneity and sampling procedures.

$$\text{Relative Percentage Difference (RPD)} = \frac{V_1 - V_2}{\left(\frac{V_1 + V_2}{2}\right)} \times 100$$

The generally adopted RPD criteria is $\pm 30\%$ RPD for field duplicates for inorganics and $\pm 50\%$ RPD for field duplicates for organics.

Field duplicates were collected and analysed at a target rate of 1 per 10 primary samples (with a triplicate target of 1 per 20 samples) with actual rates presented in Sections 6.2.2 and 6.2.3.

6.6.7. FIELD RINSATES

The use of rinsate samples was not considered to be required due to low dependence upon re-usable field sampling equipment (i.e. hand trowel).

6.6.8. DETAILED QA/QC AND OUTCOMES

The detailed scope and outcomes of the QA/QC program is presented as Appendix I. In summary, based on the quality assurance measures and review undertaken, the quality of the analytical data produced is considered of acceptable standard for interpretive use within this Report.



7. SITE ASSESSMENT CRITERIA

7.1. SOIL CRITERIA

The Site Assessment Criteria (**SAC**) are sourced from the NEPM and include:

- NEPM Health Based Investigation and Screening Levels (**HIL/HSL**) for:
 - Residential A site use (**HIL A**) (with garden/accessible soil) – to inform the contamination status of the site and used as a trigger value to determine if the site is considered to be “uncontaminated” and would be suitable (subject to legislative policy) to be removed from the EMR or if it otherwise requires further assessment to determine suitability, and
 - Public Open Space Site use (**HIL C**) – to inform if the Site is suitable for public open space (on-going visitation) and to assess any exceedances above HIL A.
- Soil health screening levels (**HSL**) for vapour intrusion, Schedule B1 Table 1A (3):
 - Exposure setting ‘HSL A and HSL B’,
 - Fine grained soils, and
 - Depth range 0m to <1m (most conservative). Less conservative criteria may be applicable for greater depths.
- Soil Management Limits (**SML**) for TPH fractions F1-F4 in soil, Schedule B1 Table 1B (7):
 - Exposure setting ‘Residential, parkland and public open space’, and
 - Fine grained soils.
 - Petroleum hydrocarbon ‘management limits’ are used to consider the potential effects of light non-aqueous phase liquid related hazards:
 - formation of observable Light Non-Aqueous Phase Liquids (**LNAPL**),
 - fire and explosive hazards, and
 - effects on buried infrastructure e.g. penetration of, or damage to, in-ground services by hydrocarbons.
- NEPM Environmental Investigation and Screening Levels (**EIL/ESL**) for:
 - Urban Residential/public open space setting use – used as trigger values to determine if the site would be suitable to be removed from the EMR or otherwise requires further assessment to determine suitability, and
 - The following physiochemical parameters have been used in calculations, based on background soil sample TP4-1.0, or otherwise with estimations as noted:
 - Exposure setting ‘Urban Residential and open public spaces’,
 - Queensland site with low traffic volume,
 - Aged contamination (>2 years old),
 - Clay content 33% (estimated),
 - Cation exchange capacity 1.8 meq/100g (measured),



- pH 4.9 (measured calcium chloride method),
- Total organic carbon content <0.5% (measured), and
- Iron content 5.16% (measured).
- Aesthetic considerations (NEPM provides guidance only)
 - No foreign material (scrap/waste) such as plastic, rubber, metals, timber, steel, brick/concrete (>100mm); and
 - No discoloured or malodourous soil or water.
- Fine grained and clay criteria were adopted for ESL and HSL criteria based on field observations.
- EILs determined by using the NEPC Ecological Investigation Level Calculation Spreadsheet and measures or estimated inputs for the site.

The SAC are provided in Table 14 below. Where multiple criteria are available for an analyte, the adopted criteria are the lowest and highlighted in **bold**.

Table 14: Soil Assessment Criteria (mg/kg)

Analyte	EIL	ESL	HIL A	HSL A & HSL B	HIL C	SML
	Urban residential and public open space			0 m to <1 m		
Metals						
Arsenic	100	-	100	-	300	-
Cadmium	-	-	20	-	90	-
Chromium	600	-	100	-	-	-
Copper	45	-	6,000	-	300	-
Lead	1,100	-	300	-	17,000	-
Nickel	8	-	400	-	600	-
Zinc	140	-	7,400	-	1,200	-
Mercury	-	-	40	-	30,000	-
Organochlorine Pesticides (OC)						
alpha-BHC	-	-	-	-	-	-
Hexachlorobenzene (HCB)	-	-	10	-	10	-
beta-BHC	-	-	-	-	-	-
gamma-BHC	-	-	-	-	-	-
delta-BHC	-	-	-	-	-	-
Heptachlor	-	-	6	-	10	-
Aldrin	-	-	-	-	-	-



Analyte	EIL	ESL	HIL A	HSL A & HSL B	HIL C	SML
	Urban residential and public open space			0 m to <1 m		
Heptachlor epoxide	-	-	-	-	-	-
Total Chlordane (sum)	-	-	50	-	70	-
trans-Chlordane	-	-	-	-	-	-
alpha-Endosulfan	-	-	-	-	-	-
cis-Chlordane	-	-	-	-	-	-
Dieldrin	-	-	-	-	-	-
4,4'-DDE	-	-	-	-	-	-
Endrin	-	-	10	-	20	-
Endosulfan (sum)	-	-	270	-	340	-
beta-Endosulfan	-	-	-	-	-	-
4,4'-DDD	-	-	-	-	-	-
Endrin aldehyde	-	-	-	-	-	-
Endosulfan sulfate	-	-	-	-	-	-
4,4'-DDT	180	-	-	-	-	-
Endrin ketone	-	-	-	-	-	-
Methoxychlor	-	-	300	-	400	-
Sum of DDD + DDE + DDT	-	-	240	-	400	-
Sum of Aldrin + Dieldrin	-	-	6	-	10	-
Organophosphorus Pesticides (OP)						
Dichlorvos	-	-	-	-	-	-
Demeton-S-methyl	-	-	-	-	-	-
Monocrotophos	-	-	-	-	-	-
Dimethoate	-	-	-	-	-	-
Diazinon	-	-	-	-	-	-
Chlorpyrifos-methyl	-	-	-	-	-	-
Parathion-methyl	-	-	-	-	-	-
Malathion	-	-	-	-	-	-
Fenthion	-	-	-	-	-	-
Chlorpyrifos	-	-	160	-	250	-



Analyte	EIL	ESL	HIL A	HSL A & HSL B	HIL C	SML
	Urban residential and public open space			0 m to <1 m		
Parathion	-	-	-	-	-	-
Pirimphos-ethyl	-	-	-	-	-	-
Chlorfenvinphos	-	-	-	-	-	-
Bromophos-ethyl	-	-	-	-	-	-
Fenamiphos	-	-	-	-	-	-
Prothiofos	-	-	-	-	-	-
Ethion	-	-	-	-	-	-
Carbophenothion	-	-	-	-	-	-
Azinphos Methyl	-	-	-	-	-	-
TRH						
C6 – C10 Fraction	-	-	-	-	-	-
C6 – C10 Fraction minus BTEX (F1)	-	180	-	50	-	800
>C10 – C16 Fraction	-	120	-	-	-	1,000
>C16 – C34 Fraction	-	1,300	-	-	-	3,500
>C34 – C40 Fraction	-	5,600	-	-	-	10,000
>C10 – C16 Fraction minus Naphthalene (F2)	-	-	-	280	-	-
BTEXN						
Benzene	-	65	-	0.7	-	NL
Toluene	-	105	-	480	-	NL
Ethylbenzene	-	125	-	NL	-	NL
meta- & para-Xylene	-	-	-	-	-	-
ortho-Xylene	-	-	-	-	-	-
Total Xylenes	-	45	-	110	-	NL
Sum of BTEX	-	-	-	-	-	-
Naphthalene	170	-	-	5	-	NL
PCB						
PCB	-	-	1	-	2	-
PFAS						
PFOS+PFHxS	-	-	0.01	-	1	-



Analyte	EIL	ESL	HIL A	HSL A & HSL B	HIL C	SML
	Urban residential and public open space			0 m to <1 m		
PFOS	0.01 [^]	-	-	-	-	-
PFOA	-	-	0.1	-	10	-
Asbestos						
<p><0.001% asbestos in soil on a weight for weight basis (w/w) for free fibre related materials including Fibrous Asbestos (FA) and Asbestos Fines (AF). The definition of AF includes small fragments of cement sheeting with a diameter less than 7mm.</p> <p>For ACM (bonded asbestos with a diameter greater than 7mm) <0.01 % w/w asbestos for low density residential use, <0.02% for public open space and <0.04% for residential with minimal opportunities for soil access such as apartments and high-rise.</p> <p>In addition to the above, no reportable asbestos present within the top 100mm of soil or within any soil proposed to be disturbed by redevelopment activities.</p>						
Aesthetics						
No foreign material (scrap/waste) such as plastic, rubber, metals, timber, steel, brick/concrete (>100mm) and no discoloured or malodourous soil or water.						

[^] NEMP interim soil – ecological indirect exposure for residential.

Where no criteria exist or are defined, the screening level adopted is the laboratory level of reporting. If detectable concentrations are recorded, then further assessment may be required to be completed.

Statistical analysis of assessment or validation samples may be undertaken where appropriate. This may include a 95% Upper Confidence Limit (**UCL**) analysis for contaminants less than 250% of the criteria, for a discrete soil/fill population.

The laboratory summary tables include the above criteria sets, as well as HIL D for commercial or industrial landuse.

7.2. SURFACE AND GROUNDWATER VALUES AND OBJECTIVES

The *Environmental Protection (Water and Wetland Biodiversity) Policy 2019 (EPP)* is progressively determining Environmental Values (**Evs**) and water quality objectives for water basins and wetlands in Qld, to facilitate environmental protection while allowing for development that is ecologically sustainable. Where a basin framework under the EPP is not currently available, the previous framework under the *Environmental Protection (Water) Policy 2009* is applicable, as follows:

- Environmental Protection (Water) Policy 2009 *Mary River environmental values and water quality objectives Basin No. 138, including all tributaries of the Mary River, July 2010 (EPP Mary River)*

As discussed in Section 3.1 any intermittent surface flows from the site would collect in unnamed channels and then into Six Mile Creek Left Branch that is a tributary of the main Six Mile Creek, a lowland freshwater system. The intersection of these waterways is downstream of Lake Macdonald that is located nearby on Six Mile Creek and used for potable water supply.

Six Mile Creek discharges some 35km to the north-west of the site into the Mary River, just south of Gympie. The EPP Mary River Evs for Six Mile Creek and groundwater are presented in Figure 16 below.



	Environmental values 1, 2, 3, 4, 5													
Water	Aquatic ecosystems	Seagrass	Irrigation	Farm Supply/use	Stock water	Aquaculture	Human consumer	Oystering	Primary recreation	Secondary recreation	Visual recreation	Drinking water	Industrial use	Cultural and spiritual values
Six Mile Creek –freshwater	✓		✓	✓	✓	✓	✓		✓	✓	✓	✓		✓
Ground waters	✓		✓	✓	✓							✓		

Figure 16 EPP Mary River Environmental Values for Six Mile Creek

7.2.1. SURFACE WATER WQOS

EPP Mary River lowland freshwaters Water Quality Objectives (WQO) to protect aquatic ecosystems are presented below for defined parameters:

Table 15 EPP Mary River Lowland Freshwaters WQO's for defined parameters

Lowland freshwater	Aquatic ecosystem – moderately disturbed	<ul style="list-style-type: none"> ▪ turbidity: <50 NTU ▪ suspended solids: <6 mg/L ▪ chlorophyll a: <5 µg/L ▪ total nitrogen: <500 µg/L ▪ oxidised N: <60 µg/L ▪ ammonia N: <20 µg/L ▪ organic N: <420 µg/L ▪ total phosphorus: <50 µg/L ▪ filterable reactive phosphorus (FRP): <20 µg/L ▪ dissolved oxygen: 85% – 110% saturation ▪ pH: 6.5 – 8.0 ▪ secchi depth: n/a
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For toxicants in water and sediment, the EPP Mary River adopts guidance within the *Australian and New Zealand guidelines for fresh and marine water quality*, October 2000 (**AWQG 2000**) (Section 3.4 water quality guidelines for toxicants). The management intent (level of protection) ecological trigger values to be applied are for *slightly–moderately disturbed systems* as noted by the values in grey shading within AWQG 2000 Table 3.4.1.

Where required, human health criteria should be adopted from NHMRC, NRMCC (2011 as updated 2022) *Australian Drinking Water Guidelines Paper 6 National Water Quality Management Strategy*, National Health and Medical Research Council, National Resource Management Ministerial Council, Commonwealth of Australia.

If required and in the absence of other criteria, the adopted site criteria for surface water shall be the lower of the above ecological or human health criteria for each relevant analyte.

7.2.2. GROUNDWATER WQOS

The management intent for water quality objectives for groundwater presented in EPP Mary River are to protect the *aquatic ecosystem – high ecological value*, with the EPP stating:

- Where ground waters interact with surface waters, groundwater quality should not compromise identified Evs and WQOs for those waters.



- AWQG 2000 recommends that the highest level of protection should be provided to underground aquatic ecosystems, given their high conservation value. Where ground waters are in good condition the intent is to maintain existing water quality.

Groundwater assessment criteria are presented in Table 16, which also include Groundwater Investigation Levels (**GIL**'s) for Fresh Waters and Health Screening Levels (**HSL**'s) listed in NEPM Schedule B1, and PFAS criteria from the PFAS NEMP. The selected (lowest) Site Assessment Criteria (**SAC**) is presented in **bold**.

Table 16: Groundwater Assessment Criteria (ug/L)

	Units	GIL Fresh Water ^E	Drinking Water ^C	EPP SW ^K	EPP GW ^N	NEPM HSL's ^I	PFAS NEMP ^J
Turbidity	NTU	-	5^F	<50	-	-	-
Suspended Solids	mg/L	-	-	<6	-	-	-
Total Nitrogen	ug/L	-	-	500	-	-	-
Nitrate	ug/L	-	50,000	-	-	-	-
Nitrite	ug/L	-	3,000	-	-	-	-
Organic N	ug/L	-	-	<420	-	-	-
Ammonia N	ug/L	-	-	<20	-	-	-
Total Phosphorus	ug/L	-	-	<50	-	-	-
Dissolved Oxygen	%	-	>85% ^F	85-110	-	-	-
pH	pH	-	6.5-8.5 ^F	6.5-8	-	-	-
Total Dissolved Solids	ug/L	-	600^F	-	-	-	-
Chloride	ug/L	-	250,000^F	-	-	-	-
Arsenic	ug/L	24 (III) 13 (V)	10	24 (III) 13 (V)	1 (III) 0.8 (V)	-	-
Cadmium	ug/L	0.2	2	0.2	0.06^M	-	-
Chromium (III)	ug/L	-	-	-	-	-	-
Chromium (VI)	ug/L	1 ^A	50	1 ^A	0.01	-	-
Cobalt	ug/L	-	-	-	-	-	-
Copper	ug/L	1.4	2,000	1.4	1.0^M	-	-
Iron	ug/L	-	300 ^F	-	-	-	-
Lead	ug/L	3.4	10	3.4	1.0^M	-	-
Mercury	ug/L	0.06 ^B	1	0.06	0.06^B	-	-



	Units	GIL Fresh Water ^E	Drinking Water ^C	EPP SW ^K	EPP GW ^N	NEPM HSL's ^I	PFAS NEMP ^J
Nickel	ug/L	11	20	11	8^M	-	-
Selenium	ug/L	-	10	5	5^B	-	-
Zinc	ug/L	8 ^A	3000 ^F	8 ^A	2.4^M	-	-
TRH C ₆ -C ₁₀	ug/L	-	-	-	-	1,000	-
TRH C ₁₀ -C ₁₆	ug/L	-	-	-	-	1,000	-
TRH C ₁₆ -C ₃₄	ug/L	-	-	-	-	-	-
TRH C ₃₄ -C ₄₀	ug/L	-	-	-	-	-	-
Benzene	ug/L	950	1	950	600	800	-
Toluene	ug/L	-	800	-	-	-	-
Ethylbenzene	ug/L	-	300	-	-	-	-
Xylenes	ug/L	350 (o-) 200 (p-)	600	350 (o-) 200 (p-)	200 (o-) 140 (p-)	-	-
Naphthalene	ug/L	16	-	16	2.5	-	-
Benzo Pyrene ^a	ug/L	-	0.01	-	-	-	-
Phenol	ug/L	#	#	320 [#]	85[#]	-	-
OC/OP pesticides	ug/L	#	#	#	#	-	-
PFOS	ug/L	-	-	-	-	-	0.00023^J
PFOA	ug/L	-	-	-	-	-	19^J
PCB Aroclor 1242	ug/L			0.3			
PCB Aroclor 1254	ug/L			0.01			

“-“ = no value given , or value not used/determined in lieu of more applicable alternative value as listed.

^A Figure may not protect key species from chronic toxicity.

^B Chemical for which possible bioaccumulation and secondary poisoning effects should be considered.

^C Provided for assessment of direct contact/accidental ingestion during site redevelopment works and assessment of potential off-site impacts to registered bores.

^D ADWG Table 3.3.2 for estuarine waters, 95% level of protection (or 99% where recommended for typical slightly-moderately disturbed systems).

^E Trigger Values for 95% level of protection (fresh water).

^F Aesthetic drinking water value.



^g NEPM GIL's for Fresh Waters as presented in Appendix N. Note that HSL's for Vapour Intrusion have not been used for TRH C6-C10 minus BTEX (F1) in the absence of other guidance. HSL's to assess vapour risk are generally higher than criteria relating to environmental or other human health criteria, with vapour intrusion also assessed via the soil HSL criteria.

^h Colour – not noticeable after 100 times dilution.

ⁱ NEPM Groundwater Health Screening Levels for vapour intrusion 2m to <4m, sand (conservative) that may be adjusted subject to site specific geology and groundwater conditions.

^j PFAS NEMP January 2018, 99% species protection ecological protection criteria to account for potential bioaccumulation risks until these are discounted through site specific assessment for application of 95% species protection for slightly to moderately disturbed conservation value systems.

^k SW EPP aquatic ecosystem WQO's for aquatic ecosystem – moderately disturbed. For toxicants, the SW EPP recommended ANZECC 2000 trigger values for *slightly–moderately disturbed systems* have been adopted.

^m The values have been calculated using a hardness of 30 mg/L CaCO₃. These should be adjusted to the site-specific hardness.

ⁿ GW EPP values not specified - where ground waters interact with surface waters, groundwater quality should not compromise identified EVs and WQOs for those waters. For toxicants, the GW EPP recommended ANZECC 2000 trigger values for freshwater 99% protection have been adopted.

Various sub-criteria. Refer to specific guidance should these contaminants be detected within groundwater.

7.3. LANDFILL GAS

Land fill gas assessment criteria are presented in Table 17 below. The selected (lowest) SAC is presented in **bold**.

Table 17: Landfill gas assessment criteria

	Units	ERA 60	NSW EPA 2020	NSW EPA 2016
Methane (at 5cm above ground surface)	ppm (v/v)	500	500	500
Methane (sub-surface)	% (v/v)	-	<1 ^A	1
Carbon Dioxide (sub-surface)	% (v/v)	-	< background + 1.5^A	< background + 1.5
Explosivity (structures)	LEL % (v/v)	1.25	1	-
Explosivity (soil/geology)	LEL % (v/v)	5	-	-
Explosivity (services such as pipes, drains and trenches)	LEL % (v/v)	1.25	-	-

Notes

A – for closure purposes the monitoring period is 24 months

Criteria presented in Table 17 is based on the following information sources:



- **ERA 60 Model Operating Conditions** (condition PMA003(A3)) stipulates that landfill gas must not exceed the following limits:
 - 500 parts per million (ppm v/v) at a height of 5cm above the final and intermediate cover surface including the batter slopes of the landfill unit
 - 25% of the Lower Explosive Limit (**LEL**) (being 1.25% v/v) when measured in facility structures (but excluding facility structures used for landfill gas control and recovery, and leachate collection system components)
 - the lower explosive limit in subsurface geology at or beyond the landfill site boundary
 - 25% of the lower explosive limit within service pits, service trenches, stormwater drains or other structures beyond the landfill site boundary.
 - Condition PMA005(A5) states if methane gas levels exceeding methane standards referred to in condition PMA003 are detected, all necessary steps must immediately be taken to ensure protection of human health.
- **NSW EPA 2020** bulk ground gas assessment criteria is as follows:
 - *Sub-surface monitoring criterion (off-site migration)* threshold levels for further investigation and corrective action for methane is 1% (v/v) and for carbon dioxide is concentrations of 1.5% (v/v) above established natural background levels
 - *Surface emission criterion* (measured 5cm above the ground surface) threshold level for further investigation and corrective action for methane is 500ppm (v/v) at any point on the landfill surface for intermediate and finally-capped areas
 - *Gas accumulation criterion (enclosed structures per NSW EPA 2020 Section 5.4)* threshold levels for further investigation and corrective action is detection of methane at concentrations above 1% (v/v)
 - *Criteria to show that the landfill is stable and non-polluting post-closure, demonstrated in a certified statement of completion (for NSW landfills per NSW EPA 2020 Section 10.2)* is:
 - gas concentration levels in all perimeter gas wells are less than 1% v/v methane and less than 1.5% v/v carbon dioxide above the established natural background for a period of 24 months.
 - methane concentration at the surface of the final capping should not exceed 500 ppm.
 - Requirements for development on closed landfills (NSW EPA 2020 Section 10.3) includes a number of requirements, including the key requirements that:
 - the landfill should meet stabilisation criteria for reduction in leachate strength, stormwater contamination and gas levels ... the gas criteria are particularly important for developments that create enclosed spaces where gas can accumulate or migrate (e.g. buildings, basements, manholes, tunnels, service ducts, stormwater and sewer pipes). These criteria may be less critical in the case of open developments: sporting fields, golf courses and car parks are sometimes created over recently closed landfills.
 - periodic methane monitoring should be conducted in all buildings and underground utilities, with automatic methane sensors installed in buildings directly above landfilled areas.
- **NSW EPA 2016** assessment criteria is as follows:
 - surface emissions monitoring (NSW EPA 2016 Section 5.2) – further investigation and corrective action threshold for methane monitored at 5cm above the surface is 500ppm (v/v).



- sub-surface monitoring (NSW EPA 2016 Section 5.3) – further investigation and corrective action threshold for methane is 1% (v/v) and carbon dioxide at concentrations of 1.5% (v/v) above established natural background levels.

8. RESULTS

8.1. FIELDWORK OBSERVATIONS

Soil logs are presented in Appendix G, including a photographic log for PSI test pits. Sample locations are presented on Drawing 1 in Appendix A.

8.1.1. AEC 1 – NORTHERN NIGHT SOIL AND BOTTLES DISPOSAL AREA

Five PSI test pits (TP1 to TP5) were initially excavated to a maximum depth of 2.1mbgl within the AEC 1 night soil and bottles disposal area located over the northern part of the site (refer Photos 3 to 6 below).



Photo 3 – Bottle fragments from TP1



Photo 4 – Excavating TP2



Photo 5 – Bottle at TP2 at 0.55mbgl



Photo 6 – Other glass and ceramics at TP2

DSI works included the excavation of an additional 26 test pits over this area (refer Photos 7 to 10 below) to the north of the gully as well as soil observations from an additional 3 groundwater and 7 LFG bores.



Photo 7 – TP14 plastic strap at 0.8mbgl



Photo 8 – TP27 transect



Photo 9 – selection of TP27 transect wastes



Photo 10 – TP76 transect with no wastes

Natural soils consist of a clayey fine red sand with fine to medium gravels overlying red to white sandstone. Mostly infrequent wastes comprising metal, glass and bottles and very rare plastics were observed at 7 locations to the depths noted on Drawing 2 in Appendix A, within soils that often otherwise approximated the characteristics of the expected natural soils.

Two of these waste locations (TP27 and TP75) had an increased density or types of wastes present. Note that the waste depths on Drawing 2 are the minimum depth of fill at these locations, with the original trenches for night soil disposal likely to have been excavated to a maximum depth of around 1mbgl.



8.1.2. AEC 2 – SOUTHERN RUBBISH DISPOSAL AREA

Six PSI test pits (TP6 to TP11) were excavated to a maximum depth of 1.1mbgl within the AEC 2 rubbish disposal area that is located over the southern portion of the site. TP7 was extended to 15m length as a transect. Evidence of fill and waste materials was identified at all locations, ranging from infrequent predominately glass wastes at locations TP7 and TP11, to very frequent waste materials encountered at locations TP6, TP8, TP9 and TP10.

Test pit TP6 located near the eastern site boundary (refer Photo 11) had frequent glass fragments within the fill layer that extended to a depth of 0.25mbgl (refer Photo 12).



Photo 11 – TP7



Photo 12 – TP7 frequent glass fragments

DSI works included the excavation of an additional 39 test pits over this area, which correlated with the PSI works and sit history with respect to expected extent of the wastes and the central hotspot around locations TP9, TP10 and TP50 that were observed to have the most frequent and mixed wastes encountered, including:

- Large to small cement sheeting fragments suspected of containing asbestos
- Various scrap and waste metal items
- Bottles and fragments of glass and ceramics, and
- Household and electronic components (older style meat thermometer and a transistor or similar).

These wastes are present in a fill layer present to a depth of up to 0.6mbgl, with no evidence of putrescible wastes identified. Selected images of the TP10 wastes are presented over page in Photos 13 through 16.



Photo 13 – excavating TP10



Photo 14 – TP10 wastes



Photo 15 – TP10 wastes



Photo 16 – TP11 glass and suspect ACM

Locations TP10 and TP11 had suspected asbestos cement sheeting fragments, with representative bulk samples collected for laboratory analysis. Photo 12 shows the TP11 glass, ceramic and (to the right of the photo) the suspect cement sheeting fragment. Additional suspects asbestos was also encountered at locations TP38 and TP55.

8.2. SOIL AND FILL

Certificates of laboratory analysis are presented in Appendix H and summarised in Tables P1 and P2 presented in Appendix P.



8.2.1. TRH/BTEXN/PAH/SVOC/OCP/OPP/PFAS

Total Recoverable Hydrocarbons (**TRH**), Benzene, Toluene, Ethylbenzene, Xylenes and Naphthalene (**BTEXN**), Polycyclic Aromatic Hydrocarbons (**PAH**), Semi-Volatile Organic Compounds (**SVOC**), Organochlorine and Organophosphorus Pesticides (**OCP/OPP**) and Per-and poly-Fluoroalkyl Substances (**PFAS**) were mostly not detected above the laboratory Limit Of Reporting (**LOR**) or were otherwise well below relevant Site Assessment Criteria (**SAC**).

Whilst these potential contaminants were assessed as part of the detailed site assessment, they have been found unlikely to be present such as to require further assessment or management.

8.2.2. AESTHETICS

The presence of unsuitable physical wastes, as discussed in 8.1 and summarised on Drawing 2, mostly exceed SAC and requires remediation to progress removal of the site from the EMR. No unacceptable odours were associated with any soil or fill material.

8.2.3. ASBESTOS

No Asbestos Fines (**AF**) or Fibrous Asbestos (**FA**) were detected, however, Asbestos Containing Material (**ACM**) in the form of infrequent cement sheeting fragments are associated with the southern rubbish disposal area at locations TP10, TP11, TP38 and TP55. These fragments are likely to be incidental inclusions in the waste streams, and not indicative of more formal historical asbestos disposal activities.

This correlates with the broad usage pattern of asbestos cement sheeting in this part of Australia at the time of the historical disposal occurring, with widespread asbestos use for construction emerging with low potential for structural demolition involving asbestos.

The northern night soil disposal area is not associated with asbestos.

8.2.4. HEAVY METALS

Other than aesthetics and asbestos discussed above, locations or samples exceeding SAC are associated with elevated heavy metals as shown on Drawing 2 and listed below:

- TP2-0.5 – metals (copper) exceed SAC (deepest sample analysed)
- TP7-0.1 – metals (zinc) exceed SAC (deepest sample analysed)
- TP9-0.1 – metals (copper, lead, nickel, zinc) (underlying 0.3 sample below SAC)
- TP10-0.1 – ACM and metals (zinc)
- TP10-0.5 – metals (chromium, copper, lead, nickel, zinc, mercury) (underlying 0.7 sample below SAC)
- TP11-0.1 – ACM and metals (zinc) (underlying 0.5 sample below SAC)
- TP13-0.1 – metals (zinc) (underlying 0.5 sample below SAC)
- TP14-1.0 – metals (zinc) (samples at 0.1, 0.5 and 2.0 were below SAC)
- TP21-0.1 – metals (zinc) (underlying 0.5 sample below SAC)
- TP38-0.1 – ACM



- TP40-0.1 - copper, lead and nickel (underlying 0.5 sample below SAC)
- TP42-0.2 – metals (zinc) (underlying 1.0 sample below SAC)
- TP43-0.1 – metals (zinc) (underlying 0.3 sample below SAC)
- TP45-0.1 – metals (lead) (underlying 0.5 sample below SAC)
- TP46-0.2 – metals (zinc) (underlying 0.5 sample below SAC)
- TP47-0.2 – metals (copper and zinc) (underlying 0.5 sample below SAC)
- TP48-0.2 – metals (nickel and zinc) (underlying sample also impacted – see below)
- TP48-0.5 - metals (zinc)
- TP49-0.2 – metals (zinc) (underlying 1.0 sample below SAC)
- TP54-0.1 – metals (zinc) (underlying 0.5 sample below SAC)
- TP55-0.1 - ACM
- TP58-0.1 – metals (zinc) (underlying 0.5 sample below SAC)
- TP68 – metals (zinc) (to at least 0.4mbgl)
- TP75 - metals (lead, nickel and zinc) (underlying 1.0 sample below SAC for lead and nickel but not for zinc).

The highest recorded heavy metal total concentrations are as follows:

- Arsenic highest result of 35mg/kg in sample TP10-0.5 that was below SAC.
- Cadmium highest result of 12mg/kg in TP10-0.5, then 6mg/kg in TP75-0.3 that are both below SAC.
- Chromium highest result of 132mg/kg in TP10-0.5, which was speciated as Chromium III and therefore below SAC.
- Copper highest results were 9,940mg/kg in TP40-0.1, then 1,710mg/kg (TP10-0.5), 199mg/kg (TP75-0.3), 115mg/kg (TP47-0.2) and 108mg/kg (TP75-0.1) as well as a few other locations with lower concentrations but where the ecological SAC was exceeded as noted above. There were no exceedances of human health SAC for copper.
- Lead highest results were 1,960mg/kg (TP10-0.5) that exceeded EIL and HIL D SAC, then 1,040mg/kg (TP75-0.3) and 929mg/kg (TP75-0.1) that exceeded HIL C SAC, then 465mg/kg (TP9-0.1), 457mg/kg (TP38-0.1), 437mg/kg (TP45-0.1) and 401mg/kg (TP40-0.1) with all these samples exceeding HIL A SAC.
- Nickel highest results were 68mg/kg (TP10-5) then 32mg/kg (TP75-0.3), 31mg/kg (TP40-0.1), 29mg/kg (TP9-0.1), 16mg/kg (TP75-0.1) and 9mg/kg (TP48-0.2) that all exceeded ecological but not human health SAC.
- Zinc highest results were 3,650mg/kg (TP75-0.3) then 2,500mg/kg (TP10-0.5), 1,930mg/kg (TP75-0.1), 992mg/kg (TP40-0.1), 629mg/kg (TP9-0.1), 618mg/kg (TP47-0.2), 596mg/kg (TP68-0.1), 581mg/kg (TP48-0.2), 451mg/kg (TP75-1.0), 389mg/kg (TP54-0.1), 333mg/kg (TP58-0.1), 313mg/kg (TP49-0.2), 310mg/kg (TP21-0.1), 293mg/kg (TP46-0.2), 286mg/kg (TP10-0.1), 282mg/kg (TP38-0.1), 265mg/kg (TP48-0.5), 250mg/kg (TP7-0.1), 236mg/kg (TP11-0.1), 213mg/kg (TP68-0.4),



149mg/kg (TP42-0.2) and 145mg/kg (TP13-0.1) that all exceeded ecological but not human health SAC.

- Mercury highest result of 216mg/kg in sample TP10-0.5 that in isolation exceeded SAC for ecological, HIL A and HIL C, then 2mg/kg in sample TP19-1.0 that was below SAC.

8.2.5. HEAVY METALS LEACHATES

After receipt of the initial laboratory results, follow up analyses were performed for Toxicity Characteristic Leaching Procedure (**TCLP**) and Australian Standard Leaching Protocol (**ASLP**). TCLP tests are used for waste classification purposes for off-site disposal of contaminated soils (acid leach mimicking landfill conditions) and ASLP tests are used to assess the on-site leaching potential of wastes and contaminated soils (neutral acidity leach simulating environmental water).

TCLP leachate results will be further discussed within documents for waste disposal and remediation planning. The following ASLP testing was undertaken at the site:

- Sample TP9-0.1 - lead was below the laboratory Limit Of Reporting (**LOR**), with a zinc concentration of 0.4mg/L
- Sample TP10-05 - arsenic, cadmium, chromium and nickel were below the LOR, with copper, lead and zinc detected respectively at 0.2, 0.2 and 0.8mg/L
- Sample TP13-0.1 – zinc concentration of 0.1mg/L
- Sample TP14-1.0 – zinc concentration of 0.3mg/L
- Sample TP21-0.1 – zinc concentration of 0.2mg/L.

The above results indicate that the zone of very frequent wastes over AEC 2 with some of the highest heavy metal total concentrations has potential to leach and migrate, at levels locally exceeding drinking water criteria for lead, and a range of other criteria for other tested metals. Note that a clear linkage to human or ecological receptors has not been established to date. In addition, the zinc (and to some degree other heavy metals) present in soil across the broader site also has potential to migrate within the soil, and potentially interact with surface and groundwater as noted by the CSM.

8.3. GROUNDWATER

8.3.1. GROUNDWATER OBSERVATIONS

Groundwater bore locations are presented on Drawing 1 and the feature survey presented in Appendix A, with these bores installed in late February 2024 and developed by the driller.

Dipping of the four installed bores for groundwater level measurement and detection of non-aqueous phase liquids (NAPLs or 'fuel products') was first undertaken around two weeks after installation on 11/3/24 using a calibrated interface meter, with no samples collected but with viable bores MB1, MB2 and MB4 purged via removal of 30 standard bailer volumes. A second purge with sampling was undertaken on 14/3/24 with purge and sample records and related groundwater information presented in Appendix N and the equipment calibration certificates presented in Appendix O. The water samples were mildly turbid for MB2 and MB4, and very turbid for MB1. No hydrocarbon sheens or odours were detected.



Photo 17 – drilling MB3 on 23/2/24



Photo 18 – MB1 sampling 14/3/24



Photo 19 – MB2 sampling 14/3/24



Photo 20 – MB4 sampling 14/3/24

Recorded Standing Water Levels (**SWL**) within the bores are presented in Table 18.

Table 18 Groundwater Levels

Bore	Bore Depth (mbgl)	Bore stick-up (metres above ground level)	Bore Screened Interval (mBGL)	Standing Water Level (mbtoc)	
				11/3/24	14/3/24
MB1	8	0.80	2-8	0.26	0.29
MB2	30	0.75	12-30	2.88	2.72
MB3	7.6	0.75	1.6-7.6	Dry	Dry



Bore	Bore Depth (mbgl)	Bore stick-up (metres above ground level)	Bore Screened Interval (mBGL)	Standing Water Level (mbtoc)	
				11/3/24	14/3/24
MB4	25	0.71	5.5-25	0.59	0.06

8.3.2. GROUNDWATER ANALYTICAL RESULTS

All groundwater samples were analysed for dissolved heavy metals (ultra trace), TRH (with silica gel clean-up), BTEXN, PAH, SVOC, PFAS (super trace short suite) and Total Dissolved Solids. Certificates of laboratory analysis are presented in Appendix H.

Other than heavy metals and PFAS, no other tested analyte was detected above LOR. A summary of analytical results for heavy metals and PFAS is presented in Table 19 below, including for sample D1 that is the field duplicate sample for sample MB4-1.

Table 19 Groundwater Sample Analysis Summary

Compound	Units	Screening Criteria ^A	MB1-1	MB2-1	MB4-1	D1
			14/3/24	14/3/24	14/3/24	14/3/24
Arsenic	µg/L	10	<0.2	1.4	<0.2	<0.2
Cadmium	µg/L	0.06	<0.05	<0.05	<0.05	<0.05
Total Chromium	µg/L	NL ^B	<0.2	0.2	0.2	<0.2
Copper	µg/L	1.0	4.3	1.1	1.7	0.5
Lead	µg/L	1.0	0.1	0.1	<0.1	<0.1
Mercury	µg/L	0.06	<0.0004	<0.0004	<0.0004	<0.0004
Nickel	µg/L	8	2.6	3.4	0.5	<0.5
Zinc	µg/L	2.4	13	15	4	2
PFOS	µg/L	0.023	<0.002	<0.002	<0.002	<0.002
PFOA	µg/L	19	<0.002	<0.002	<0.002	<0.002
PFBS	µg/L	none available	<0.002	<0.002	<0.002	0.02

Notes:

X Denotes result at or above initial screening SAC

^A Most conservative criteria selected as presented in Table 16

^B Chromium III criteria has been adopted (No Limit) as the potential for CrVI to be present is expected to be low to negligible given the site setting and absence of CrVI in speciated soil samples

Copper and zinc exceeded ANZECC 2000 trigger values in all primary samples. In addition, copper and zinc concentrations in samples MB1-1 and MB4-1 exceeded GIL and EPP Mary River surface water SAC, but not drinking water criteria.

8.4. LANDFILL GAS

DSI 1 methane field screening results are noted on the borehole logs presented in Appendix G, and were predominately 0ppm with transitory readings of up to 1ppm within a couple of test pits. Accompanying carbon dioxide and oxygen concentrations were at expected naturally occurring atmospheric



concentrations. Explosivity monitoring was less than the detection limit and was used as a surrogate for PID readings.

Whilst field screening is preferred when no significant rain has occurred the week prior to or during sampling to ensure soil pore spaces are not saturated, this was not possible given monsoonal conditions experienced during the works. This means there was potential for any LFG to be suppressed and not detected during the DSI 1 monitoring that may have otherwise been recorded during dry conditions.

DSI 2 works included installation and monitoring of 7 LFG bores as well as within the 4 groundwater bores, with results presented in Table 20 below with no detected SAC exceedances.

Table 20: Landfill gas bore monitoring

Bore	Time	Atmospheric pressure mbar	Pressure differential	CH ₄ %	CO ₂ %	O ₂ %	CO ppm	H ₂ S ppm
MB1	0811	1008	NA	0	1.8	17.2	0	0
MB2	0731	1008	NA	0	0.9	19.0	0	0
MB3	0824	1008	NA	0	2.0	15.7	0	0
MB4	0849	1008	NA	0	3.2	11.3	0	0
LFG1	0719	1008	<1 Pa	0	17.6	3.5	0	0
LFG2	0836	1008	<1 Pa	0	6.1	15.7	0	0
LFG3	0903	1008	<1 Pa	0	5.5	15.2	0	0
LFG4	0928	1009	<1 Pa	0	5.5	16.0	0	0
LFG5	0742	1008	<1 Pa	0	6.9	14.9	0	0
LFG6	0755	1008	<1 Pa	0	5.4	13.7	0	0
LFG7	0916	1009	<1 Pa	0	8.8	11.0	0	0

NA = not applicable due to absence of a biogas valve and quick fit nipple

X Denotes result at or above initial screening SAC

8.5. SCREENING TRIAL

A trial soil screening exercise was performed on 23/4/24 using a 25mm trommel screen supplied and operated by Soil Cyclers Pty Ltd (refer Photos 21 and 22 below). The purpose of this trial was to inform remediation options for the northern AEC 1 that will be detailed separately as part of remediation planning documents.



Photo 21 – waste stockpile in foreground and screened stockpile in background



Photo 22 – waste stockpile and example of screened materials

Approximately 50m³ of night soil fill material was sourced from the vicinity of TP2 with 5 soil samples (ST1 through ST5) collected from the approximate 45m³ screened stockpile. These results are reported as part of the certificates of laboratory analysis (Appendix H).

For completeness for this DSI, we note that all five samples were analysed for metals, TRH, BTEXN, and asbestos, with sample ST3 further analysed for PAH, PCB, OCP and OPP, with all results well below SAC including aesthetics that were successfully screened apart from a few small fragments of inert material.



9. ASSESSMENT OF SITE CONTAMINATION RELATED RISK

9.1.1. AEC 1 – NORTHERN NIGHT SOIL AND BOTTLES DISPOSAL AREA

The assessment confirms that the historical disposal of night soil and bottles, ceramics and possibly other inert materials has occurred in this area. A reported concentrated night soil metal can burial area has not been identified to date.

The fill profile within the northern night soil and bottles disposal area is not immediately evident and can appear as a natural soil horizon. However, the presence to date of mostly infrequent inert wastes indicates a fill depth of around 1mbgl within trenches.

The chemical composition of the fill does have some elevated heavy metals but, within the limitations of the assessment, does not indicate the presence of any additional broad and widespread chemical contamination noting some elevated impacts at locations TP27 and TP75.

9.1.2. AEC 2 – SOUTHERN RUBBISH DISPOSAL AREA

The assessment confirms that the historical disposal of general rubbish has occurred in this area.

The fill profile within the southern rubbish disposal area is generally able to be readily identified due to differences in soil properties and presence of waste materials.

The fill depth ranged from around 0.1 to 0.6mbgl with an average of 0.35mbgl although deeper occurrences may be present associated with the infilling of any deeper natural depressions or constructed pits.

Various exceedances of ecological and human health criteria are associated with heavy metals present within the fill, as well as the presence of general wastes and asbestos materials. Some results exceed those for public open space usage.

It is likely that this impact also extends under the building platform housing the shed and office.

9.1.3. LEACHATES

Whilst heavy metals do not appear to be leaching into underlying natural soils at any level of concern, the total concentration and waste classification results for some metals exceed general landfill disposal criteria where fill material that is interspersed with the more concentrated wastes over both AEC. This does not immediately necessitate alternate disposal options but will require consideration for remediation planning. Most options for on or off-site management or disposal remain valid for the bulk of the material requiring remediation to progress EMR removal.

9.1.4. LANDFILL GAS

DSI 1 field screening occurred when soil pore spaces would likely have been saturated due to monsoonal conditions experienced during the works. This means there was potential for any LFG to be suppressed and not detected during the DSI 1 monitoring. However, additional LFG assessment was undertaken during DSI 2 works including installation and monitoring of 7 LFG bores as well as within the 4 groundwater bores that indicate LFG generation is unlikely to be a current concern for the site, however, an additional monitoring round is recommended in Spring.



9.1.5. GROUNDWATER

Groundwater was encountered underlying the site at relatively shallow depths with impacts correlated with heavy metal soil concentrations. Groundwater results indicate that the site is a probable source of elevated copper and zinc within groundwater, which has potential to impact sensitive off-site and downgradient ecological receptors, with the nearest being surface channels and associated riparian vegetation leading to Six Mile Creek some 1.3km to the north and south of the site, which discharges to the Mary River some 35km to the north-west. The absence of a human health risk, and intervening land uses and distance to the off-site ecological receptors, reduces the risks posed by the recorded groundwater quality.

The observed elevated heavy metals within groundwater are unlikely to preclude the proposed development, with the likely scope of remediation works to result in removal of the probable source being fill and waste material and some secondary impact to underlying natural soils.

9.1.6. RISK EQUATION

As outlined in Section 2.1 for this assessment the Site Contamination Risk Equation (**Risk Equation**) is used:

Source x Pathway x Receptor = Risk	<p>Each variable can have the following values:</p> <p>1 = Exists</p> <p>0 = Does not exist</p> <p>If any of the variables have a value of 0 then the Risk is also 0 or low risk</p>
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The Risk Equation simply determines if a risk is present but not the magnitude of the risk (in terms of consequence or likelihood). In practical terms it is not possible to assess source related hazards to a level where they can be stated as being non-existent and some residual hazard that may result in a risk may remain. Non-existent is intended to mean low risk.

The following sub-set of potential risk sources (AEC, refer to Table 8) were investigated in accordance with the agreed scope and limitations, and their conditions at the completion of the investigation are summarised below.

Table 21 Risk Equation Summary

AEC	Potential Hazardous Contaminant Source ⁶	Source Value	Complete Pathway	Pathway Value	Receptors	Receptor Value	Resultant Risk
1 – Northern night soil and bottles disposal area	Variable wastes and heavy metals detected at concentrations above ecological and human health SAC (no biogas or LFG detected)	1	All pathways	1	All human and ecological	1	Medium to High

⁶ Note that with respect to Table 21 and in accordance with the agreed scope and limitations of the works, the potential hazardous contaminant sources of landfill gas, PFAS, PAH, PCB and SVOC have not been quantitatively assessed to date.



AEC	Potential Hazardous Contaminant Source ⁶	Source Value	Complete Pathway	Pathway Value	Receptors	Receptor Value	Resultant Risk
2 – Southern rubbish disposal area	Heavy metals, wastes and asbestos detected at surface and near surface at concentrations above ecological and human health SAC	1	All pathways	1	All human and ecological	1	High
3 – Groundwater or surface water	Potential for contamination sources to migrate.	1	All pathways	0 to 1	Ecological	1	Low to Medium



10. CONCLUSIONS AND RECOMMENDATIONS

Noosa Council engaged Environmental Advisors Pty Ltd to undertake a Detailed Site Investigation (**DSI**) for land described as Lot 105 SP118458, Cooroy, QLD 4563 (refer to Drawing 1 in Appendix A). The investigation involved a desktop site history and then intrusive investigations of fill, soil, groundwater and landfill gas to inform the assessment of feasibility to redevelop the site for affordable housing.

10.1. AREAS AND CHEMICALS OF ENVIRONMENTAL CONCERN

The following areas of environmental concern (**AEC**) and associated potential contamination sources were identified:

- **AEC 1 – northern night soil and bottles disposal area** – historical disposal in the 1950's and 60's of nightsoil, bottles, and possibly other co-mingled wastes with potential to generate landfill gas or cause additional impact, primarily to underlying natural soils or groundwater.
- **AEC 2 – southern rubbish disposal area** – historical disposal in the 1950's and 60's of general rubbish with potential to cause additional impact, primarily to underlying natural soils or groundwater.
- **AEC 3 – water** – potential for migration of impacts from the adjacent cemetery and AEC 1 and 2 via surface or groundwater, which if present may affect deeper soil or groundwater at the site, and off-site areas including landfill wastes transported by surface flows during high intensity rainfall events.

The above risks were investigated in accordance with the agreed scope and limitations, and it was found that:

- The historical disposal of the suspected waste types within AEC 1 and 2 has been confirmed.
- The southern landfill area waste deposits appear superficial in nature as delineated on Drawing 2 in Appendix A. Chemical exceedances are largely correlated with observed wastes. Relevant waste and soil materials will need to be excavated for off-site disposal to landfill to progress EMR removal.
- The northern night soil disposal area has fewer data points of concern but are deeper to around 1mbgl to account for the expected trenching of the night soil, with the likely remediation extent also delineated on Drawing 2. Other than the expected can disposal area and locations TP27 and TP75, other observed physical wastes were minor (but still of concern) with elevated heavy metals also occurring at various locations.
- The central gully portion of the site between the two waste deposition areas and the southern end of the site do not appear to have any significant and widespread impact based on works to date and are not expected to require remediation.
- Underlying natural soils seem mostly free of any widespread unacceptable impact, and appear to be retarding the migration of the overlying contamination impact, where present. However, some heavy metal migration to natural soil and to groundwater has occurred.
- The preliminary investigation that preceded this DSI had data gaps associated with landfill gas and potential chemical impact from PFAS, PAH, PCB and SVOC that have now been quantitatively assessed and are likely to not be of concern, noting that an additional round of gas monitoring is pending during warmer and drier site conditions.



10.2. CURRENT SITE USE – INTERIM CONTAMINATION MANAGEMENT

Previous advice for interim contamination management remains valid and it is recommended that general access be restricted over the southern forested portion of the site that houses AEC 2 until such time that a decision on the future use of the site is finalised.

Should redevelopment not occur in the short term, on-going access restrictions or remediation will still be required to minimise potential human interaction with surface contaminants and waste. Additional management controls will also be required to safeguard any proposed soil disturbance or export from the entire site.

- General access should be restricted to council personnel performing essential business, with a safety plan prepared prior to access.
- There is to be no soil disturbance within the southern restricted area without an appropriate task specific safety plan prepared in consultation with a suitably qualified person.
- Any soil disturbance in other areas of the site should be undertaken cognisant of the potential for contaminated land risks to occur. In accordance with legislative requirements for land on (or that should be on) the EMR, no soil is to be exported from the site without additional assessment by a suitably qualified person or under a Soil Disposal Permit.
- The recently constructed shed at the mid-western site boundary appears has been constructed on an engineered platform and it is likely that contamination impact extends under this building platform. General above ground use of the shed structure by cemetery staff will not have any adverse implications with respect to contaminated land matters and potential health effects, however, without remediation this land and any connected land over the affected Lot (current or reconfigured) will remain on the EMR.

10.3. FUTURE SITE USE – REMEDIATION OR MANAGEMENT

Remediation or management will be required under all future land use scenarios, with residential development (or a similar sensitive land use) not permissible without first removing all or a portion of the site from the EMR. This is achieved by remediating unacceptable contamination usually by removal off-site to landfill although a less sensitive land use may be achieved by the on-site retention of contamination (if appropriate) that is managed under a statutory Site Management Plan (**SMP**) attached to the site EMR listing.

A mix of these options may be possible if the site was reconfigured into multiple Lots, subject to environmental suitability and regulatory requirements. Further information on how contaminated land is assessed and managed is presented as Appendix B. The general remediation options to facilitate site redevelopment are:

- **On-site** capping or containment in accordance with jurisdictional requirements.
 - On-site options would generally be capping over the in-situ contamination or excavating then concentrating the contamination in an on-site containment cell. Both options have EMR and development limitations and may require Lot reconfiguration if removing some of the site from the EMR is required to legally allow the proposed development, as is the case for any required low density residential development and some other sensitive uses per the planning legislation.
- **Off-site** disposal to an appropriate waste facility under a Soil Disposal Permit.



- Still the most common form of remediation, involving a “dig and dump” strategy and possibility of incurring the landfill levy. Most licensed landfills on the Sunshine Coast could receive wastes up to and including those rated for lined landfill with more toxic wastes requiring fixation or otherwise transport to Brisbane for disposal to double lined landfill, mono-cell or industrial waste disposal at another specialist facility. Waste classification testing indicates a minority of the waste over both AEC exceeds allowable levels for lined landfill, however, most of the waste would be suitable for standard lined landfill disposal.
- Where and when possible, disposal to landfill as daycover material offers a more sustainable and cost-effective option. Use as day cover will not be possible for asbestos or chemical contamination above commercial/industrial land use criteria, or as otherwise directed by the receiving landfill.
- **A combination of the above**, subject to regulatory approval and Lot reconfiguration for removal from the EMR of those Lots to be used for sensitive uses, with other Lots retained on the EMR and managed in accordance with the residual risk.

It is recommended that a Remediation Action Plan (**RAP**) be prepared to support the planned redevelopment.



11. LIMITATIONS

This Report has been prepared by Environmental Advisors Pty Ltd for Noosa Shire Council (**Client**) and may only be used and relied on for the purpose agreed between Environmental Advisors Pty Ltd and the Client, and the Client appointed Contaminated Land Auditor and DESI for the purpose of statutory audit. The services undertaken by Environmental Advisors Pty Ltd in preparing this Report were limited to those specifically detailed herein and are subject to the agreed scope and the stated limitations.

Third-party information used or contained within this Report remains the responsibility of the third-party and not Environmental Advisors Pty Ltd. We do not accept liability for errors or omissions in third-party information and disclaim liability arising from use of third-party information and any assumptions being incorrect in connection with the conclusions, recommendations and opinions of the Report.

Subject only to any contrary nonexcludable obligations we are not responsible to any party requesting the Report, including any consequences of its use or application (whether in part or whole) and do not provide any assurance or warranty as to the accuracy or suitability of the Report for any particular purpose or application.

Report conclusions, recommendations and opinions are based on observed conditions at limited site locations and sample points, at the time of works. Conditions at other parts of the site may be significantly different from those observed, and may change over time, including those observed at the time of works.

In addition, site conditions may pose constraints such as the nature and location of current or historical buildings and related underground infrastructure, services and vegetation. As a result, not all relevant site features and conditions may have been identified by the report.

Environmental Advisors has no obligation or responsibility to update this report to account for site constraints, sampling limitations, events or changes occurring subsequent to the date that the report was prepared.

Where the stated purpose of the original commission included preparation of the report for statutory audit it may be used and relied upon by the Auditor and the Queensland Department of Environment and Science for the purpose of fulfilling their duties under the *Queensland Environmental Protection Act 1994*. Where no such express purpose formed part of the commission, Environmental Advisors Pty Ltd does not warrant that the report is suitable for statutory audit and is not responsible for any additional works that may be recommended or otherwise result from review by an Auditor, Regulator or other third-party.

The assessment undertaken by Environmental Advisors Pty Ltd and its agents is by necessity based on limited observations and assessment of discrete surface and subsurface site locations and obtained desktop data. Despite reasonable care and diligence, identified areas of environmental concern and observed ground conditions and concentrations of contaminants measured may not be representative of conditions between the testing locations. In addition, observed site conditions may change at any time due to chemical reactions, natural environmental processes or other man-made or natural events.

Due to the inherent uncertainties in subsurface evaluations, changes or unanticipated site conditions may occur that could materially affect the validity of this report or any subsequent project costs or execution that relies upon the report. Environmental Advisors Pty Ltd does not accept responsibility due to or arising from any changes from observed site conditions, including updating this report.



12. REFERENCES

- Queensland Government. *Environmental Protection Act, 1994 (EP Act)*
- National Environment Protection Council (NEPC), 1999, as amended 2013. *National Environment Protection (Assessment of Site Contamination) Measure (NEMP)*
- DES (now DESI), 2018 as updated 11 April 2023, *Queensland auditor handbook for contaminated land: Module 5: Auditor's functions*. Brisbane: Department of Environment and Science, Queensland Government (ESR/2015/1807 as updated 11/4/23) (**Module 5**)
- DES (now DESI), 2018 as updated 18 May 2023, *Queensland auditor handbook for contaminated land: Module 6: Content requirements for contaminated land investigation documents, certifications and audit reports*. Brisbane: Department of Environment and Science, Queensland Government (ESR/2018/4224 as updated 18/5/23) (**Module 6**)
- Approved form ESR/2023/6339, Version 1.03 19 May 2023, Queensland Government (**Approved Form**)
- Queensland Globe <https://qldglobe.information.qld.gov.au/>
- DES (now DESI), 2018, *Monitoring and Sampling Manual: Environmental Protection (Water) Policy*. Brisbane: Department of Environment and Science Government
- Standards Australia (1999) Australian Standard, AS4482.2, *Guide to the Sampling and Investigation of Potentially Contaminated soil, Part 2 Volatile Substances*. Standards Australia, Sydney, NSW
- Standards Australia (2005) Australian Standard, AS4482.1, *Guide to the Investigation and Sampling of Potentially Contaminated soil, Part 1: Non-Volatile and Semi-Volatile Compounds*. Standards Australia, Sydney, NSW
- Heads of EPA Australia and New Zealand (2020) *PFAS National Environmental Management Plan Version 2.0 (NEMP)*
- NSW EPA Contaminated Land Guidelines, Sampling design part 1 – application, August 2022 (**NSW EPA 2022**)
- ANZECC Guidelines 2000. *Australian and New Zealand Guidelines for Fresh and Marine Water Quality 2000*. Australian and New Zealand Conservation Council
- Water Quality Australia. *Australian and New Zealand Guidelines for Fresh and Marine Water Quality (2018)*
- HMRC, NRMCC (2011 updated September 2022) *Australian Drinking Water Guidelines Paper 6 National Water Quality Management Strategy*. National Health and Medical Research Council, National Resource Management Ministerial Council, Commonwealth of Australia, Canberra
- Environmental Protection (Water) Policy 2009 *Mary River environmental values and water quality objectives Basin No. 138, including all tributaries of the Mary River, July 2010 (EPP)*
- DES (now DESI), 2018, *Monitoring and Sampling Manual: Environmental Protection (Water) Policy*
- Government of Western Australia Department of Health (2021) *Guidelines for the Assessment, Remediation and Management of Asbestos Contaminated Sites in Western Australia*








- CRC CARE, Various documents forming the National Remediation Framework, CRC for Contamination Assessment and Remediation of the Environment, Newcastle, Australia (**NRF**)
- *Lot 105 SP118458, Cooroy, QLD, 4563, Preliminary Site Contamination Investigation*, 30 October 2023, Environmental Advisors (**PSI**).

Further specific references are provided either by footnote or in the Report text.

Appendix A
Drawings



Drawing 1
 Sampling Locations

-  Test pit or transect
-  Groundwater monitoring bore
-  Landfill gas monitoring bore
-  LFG monitoring transects
-  Gully

0 50m
 Scale

11/6/24
 Project 125
 Sources: Qld Globe & Google Maps






Environmental
 Advisors



Northern night soil disposal area
estimated 8,000m³

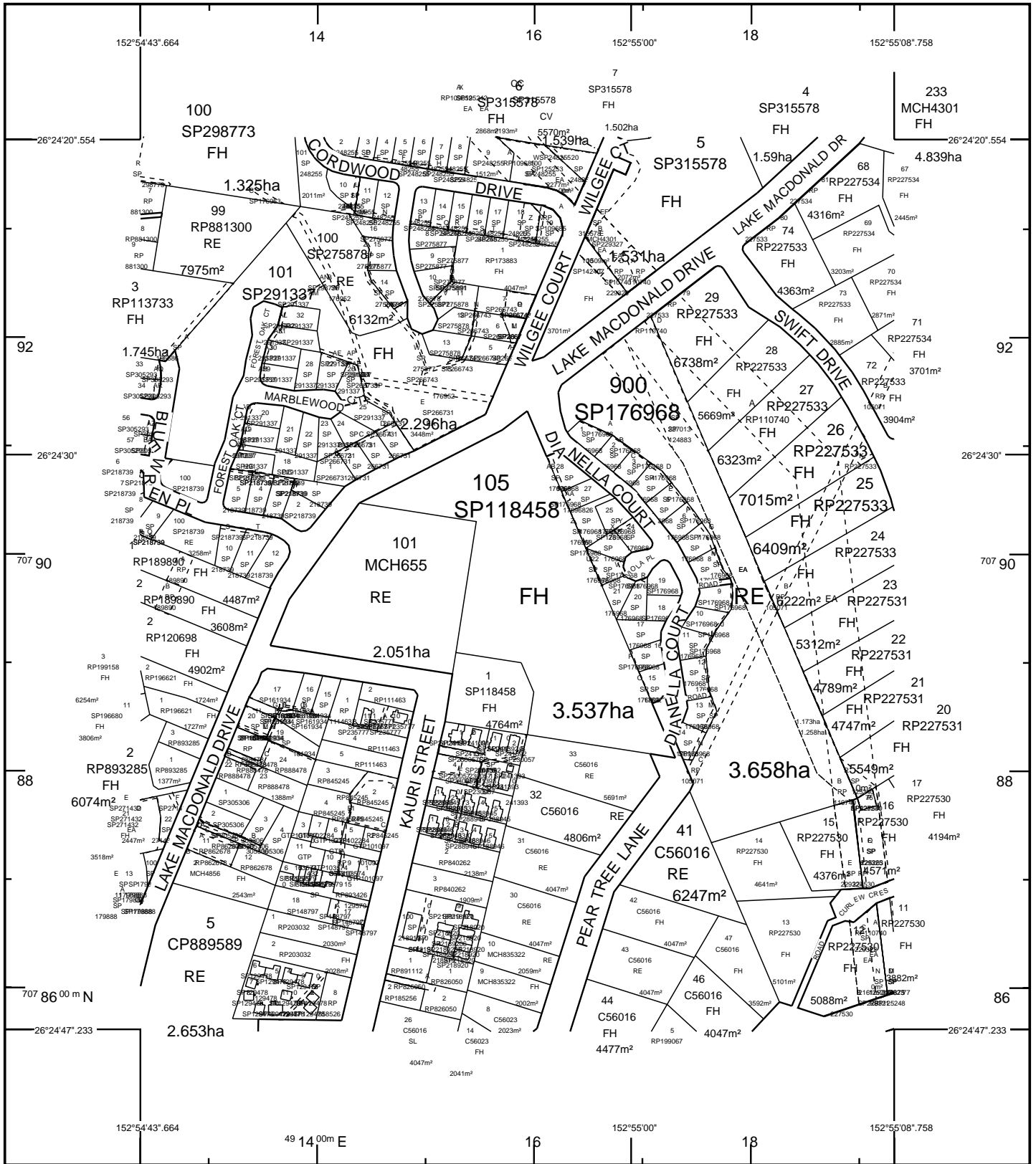
Southern rubbish disposal area
estimated 4,900m³

Drawing 2
Remediation areas

-  infrequent inert waste (with waste depth in metres)
-  frequent inert waste (with waste depth in metres)
-  very frequent or mixed or suspect asbestos
-  Laboratory result exceeding Site Assessment Criteria (SAC)
-  estimated waste areas requiring remediation

0 50m ↑
Scale N
Project 125
Sources: Qld Globe & Google Maps





STANDARD MAP NUMBER
9445-22424



SmartMap

An External Product of
SmartMap Information Services
Based upon an extraction from the
Digital Cadastral Data Base

MAP WINDOW POSITION &
NEAREST LOCATION

152°54'56".211
26°24'33".893
COORDY
0.88 KM

SUBJECT PARCEL DESCRIPTION

DCDB	
Lot/Plan	105/SP118458
Area/Volume	3.537ha
Tenure	FREEHOLD
Local Government	NOOSA SHIRE
Locality	COOROY
Segment/Parcel	31408/90

CLIENT SERVICE STANDARDS

PRINTED 25/08/2022

DCDB 24/08/2022

Users of the information recorded in this document (the Information) accept all responsibility and risk associated with the use of the Information and should seek independent professional advice in relation to dealings with property.

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For further information on SmartMap products visit
<https://www.qld.gov.au/housing/buying-owning-home/property-land-valuations/smartmaps>



Queensland Government
(c) The State of Queensland,
(Department of Resources) 2022.



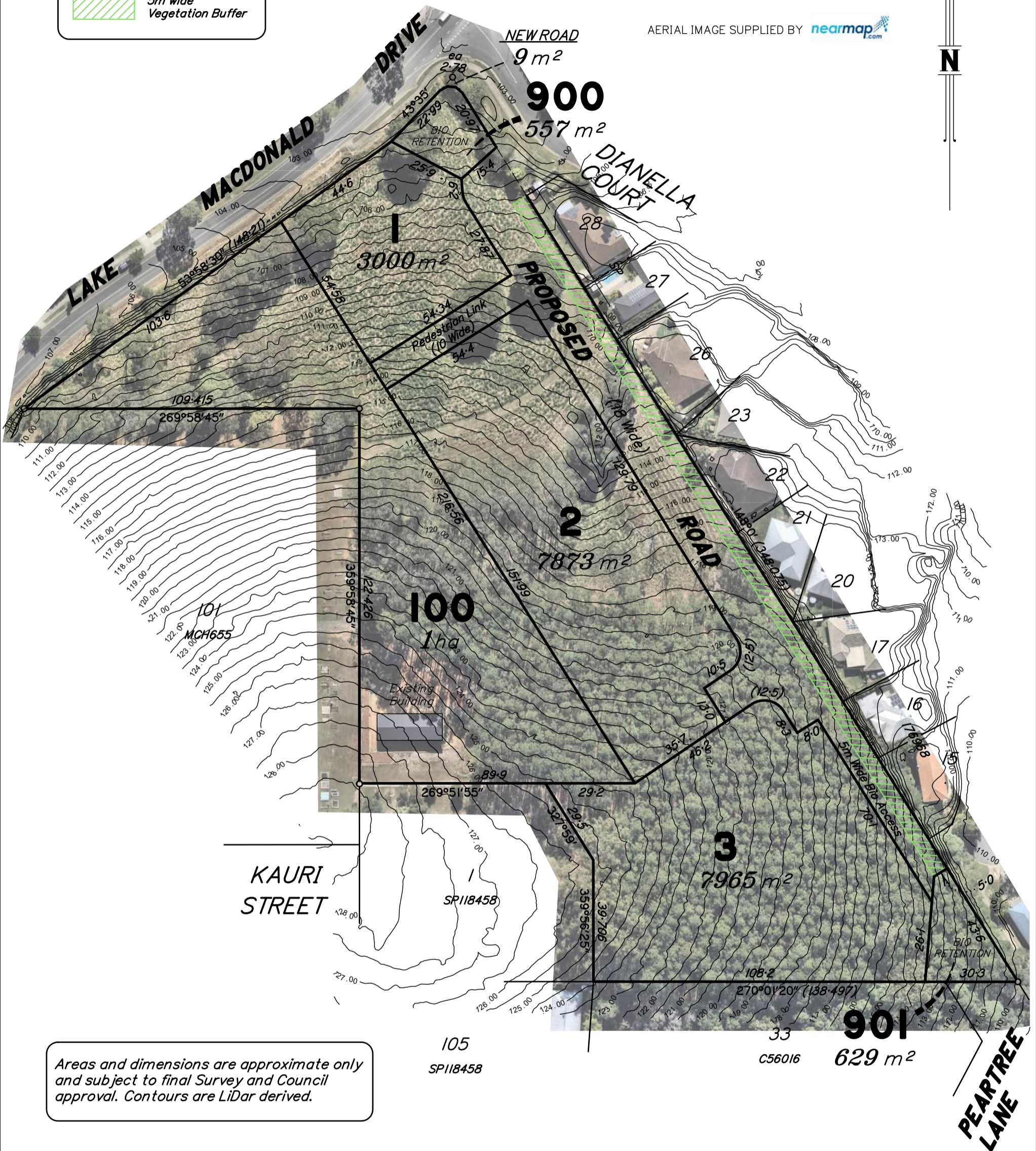
Table of Revisions

Rv.	DATE	REVISION	APPROVED
A	6/09/23	Amendments to Lot Layout.	BWB

LEGEND

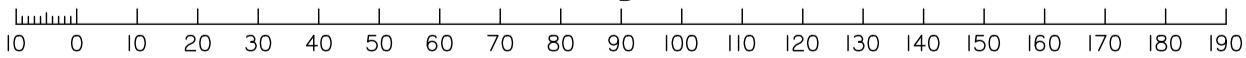
 5m wide Vegetation Buffer

AERIAL IMAGE SUPPLIED BY 



Areas and dimensions are approximate only and subject to final Survey and Council approval. Contours are LiDar derived.

Scale 1:1250 - Lengths are in metres.



MURRAY & ASSOCIATES
 SURVEYORS & TOWN PLANNERS
 ACN 075 543 154
 Murray Building, 15-17 Currie St. Nambour Ph.(07)5441 2188 P.O. Box 246
 Branch Offices at Caboolture Chinchilla Roma Gympie & Emerald

PLAN OF DEVELOPMENT

Proposed Subdivision of Lot 105 on SP118458

LOCAL AUTHORITY: **NOOSA SHIRE COUNCIL**

CLIENT: **Noosa Shire Council**

LOCALITY: **Cooroy** MAP REF. 9445-22424

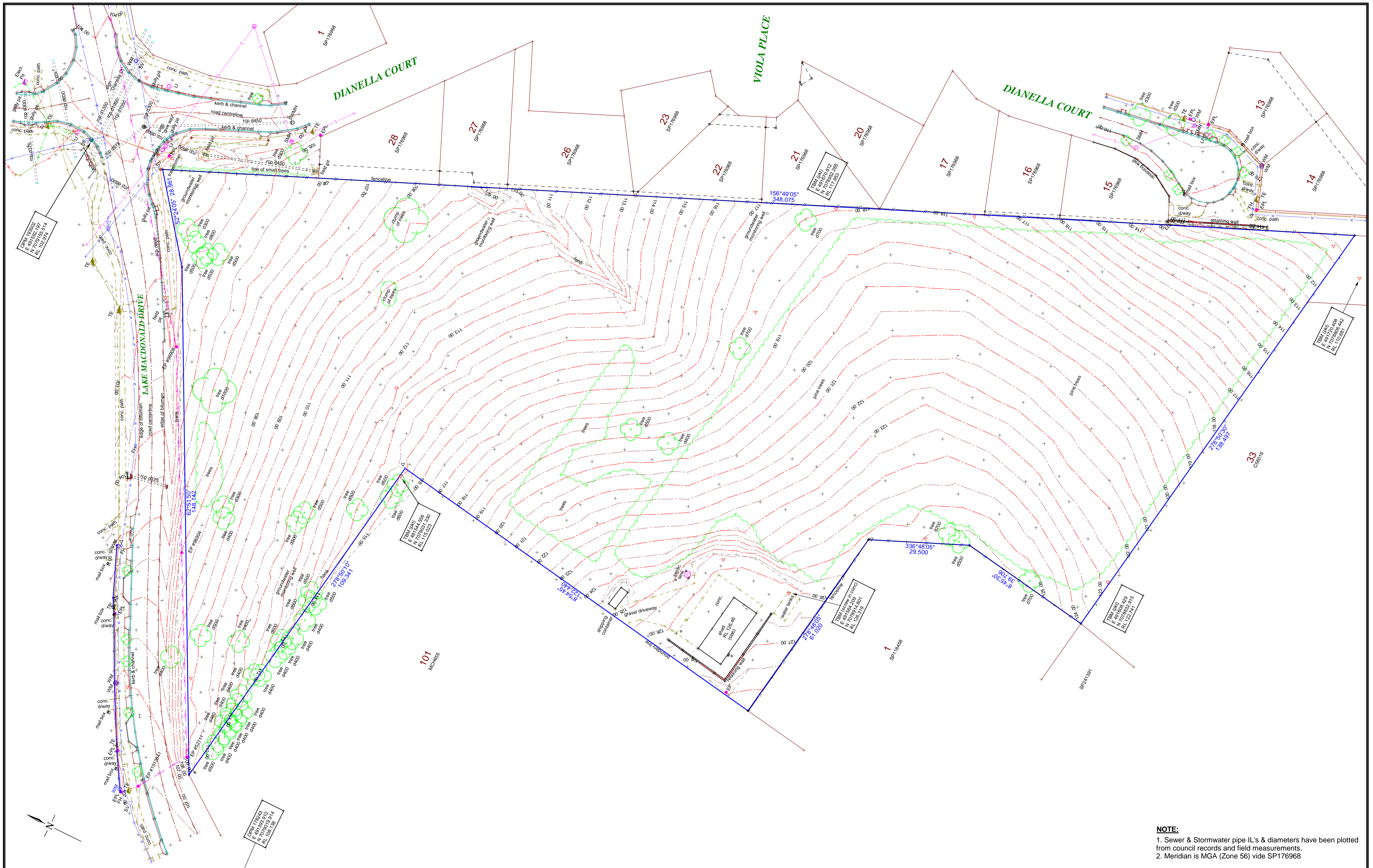
DATE: **5/07/2023** LEVEL DATUM: **AHD**

FILE: **100988_(Proposal A)_NSC.dwg**

DRAWN LF: **BWB** CHECKED: **BWB** ORIGINAL: **POR 105**

SCALE: **1:1250** JOB No: **100988/A**

CADASTRAL SURVEYOR



NOTE:
 1. Sewer & Stormwater pipe IL's & diameters have been plotted from council records and field measurements.
 2. Meridian is MGA (Zone 56) vide SP176968

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 Branch Offices at Maroochydore Caboolture Chinchilla Roma Gympie & Emerald

AV	Air Valve	PH	Fire Hydrant	T	Tree	—	Telecommunications Line
BM	Bench Mark	GRATE	Stormwater Grate	TE	Telstra Pit	—	Sewer Line
CP	Control Point	GATE	Gate	TP	Telstra Pillar	—	Water Line
ELP	Elect. Light Pole	S	Sign	W	Water Meter	—	Fenceline
EMH	Electricity Manhole	GAS	Gas Infrastructure	WV	Water Valve	—	Electricity
PP	Power Pole	SMH	Sewer Manhole	—	—	—	Gas Line
EPI	Electricity Pillar	SV	Scower Valve	—	—	—	Edge of Bitumen
EPT	Electricity Pit	SWMH	Stormwater Manhole	—	—	—	Tree line
				—	—	—	Underground Electricity
				—	—	—	Stormwater
				—	—	—	Overhead Powerline

NO.	DESCRIPTION	DATE	INIT.

PROJECT
 Contour & Detail Survey of
 Lot 105 on SP 118458
 62 Lake McDonald Drive,
 Cooroy
 L.G.A. Noosa Shire Council

CLIENT
 Noosa Shire Council

Notes: Contour Interval is 0.5 metres. Underground services have been located from visible surface features only. A Dial Before You Dig search should be performed before the commencement of any excavation work. The property boundaries shown have not fully been investigated for the purpose of this survey. For an accurate determination of the boundaries, an Identification survey will be required.

Datum: PSM 176243 RL: 108.138 Form 6 Dated 29.02.24	F.W.: CAC	Date: 05.04.24
Drawn: CAC	Level Bk: F.Bk	File: 100988
Licd. Surveyor Ian Smith	Acc. Bk: -	Job & Plan No.: 100988 DTM
	Scale: A1 1:500	



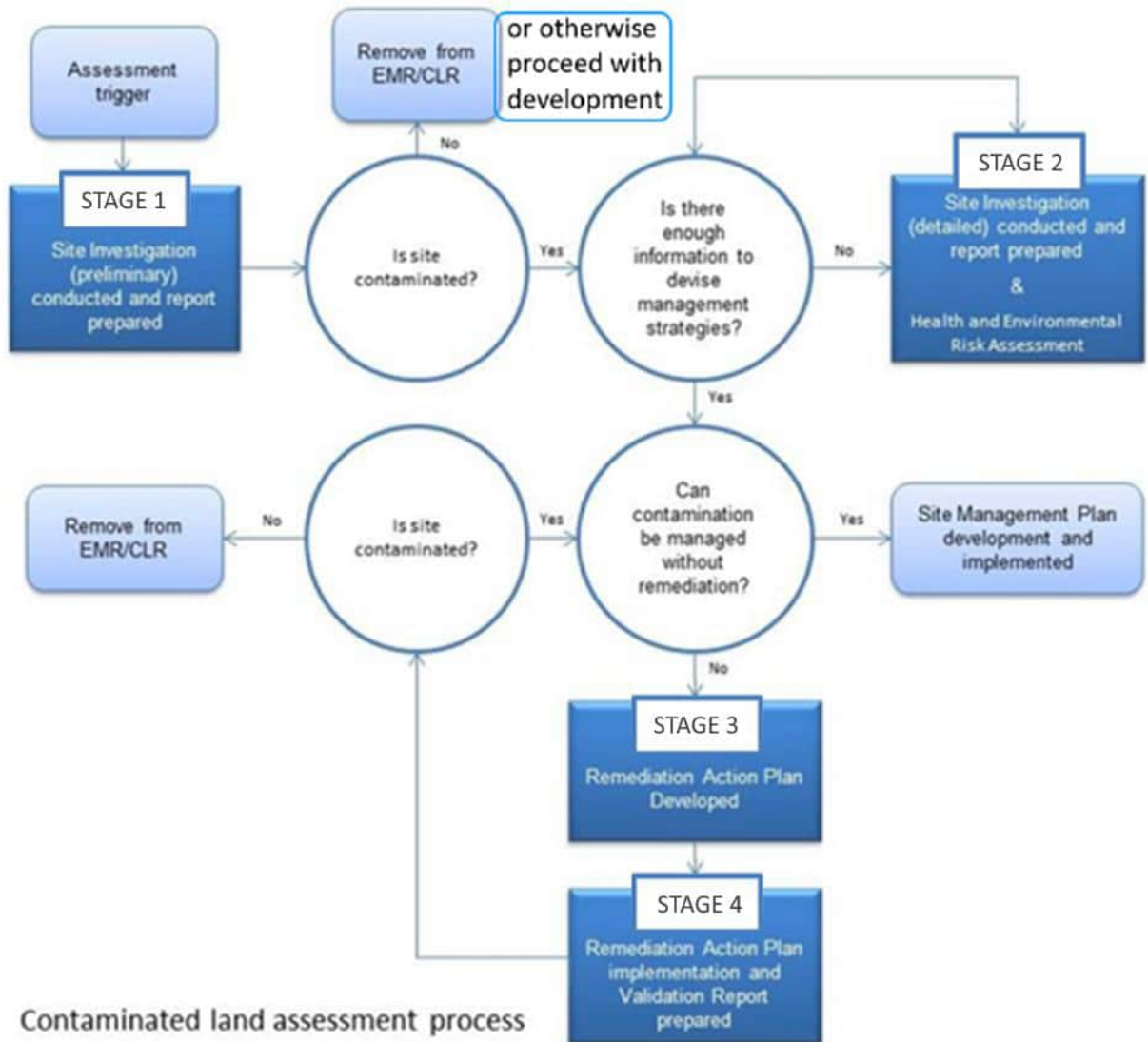
Appendix B

Summary of Contaminated Land Management

Flowchart and Summary of Contaminated Land Management

- The contaminated land assessment framework is predominately led by the *Environmental Protection Act 1994 (EP Act)* and the *National Environment Protection (Assessment of Site Contamination) Measure 1999 (as amended 2013) (NEPM)*.
- The EP Act is administered by the State Department of Environmental, Science and Innovation (**DESI**) and used by Regulatory Authorities to manage land contamination risks, such as at the time of a material change of use or another relevant trigger.
- A key tool for contaminated land management is the statutory Environmental Management Register (**EMR**) that is a public register of land that has housed a current or historical *Notifiable Activity*.
 - A *Notifiable Activity* is one of 38 scheduled activities considered to have elevated potential to cause land contamination, such as cattle dips, landfills, rifle ranges, scrap yards and service stations.
 - Not all land that should be on the EMR may yet be listed.
- Once on the EMR, if the land needs government planning approval for certain activities (such as residential development) it will trigger a requirement for an assessment and, in some cases to allow a sensitive land use to proceed, works to take the land off the EMR.
- Sometimes the *Notifiable Activity* is only present (or has caused contamination) in a localised area but yet due to legislative circumstances has resulted in the larger Lot or any sub-divided land parcels to be listed on the EMR despite the real chance they have no contamination present. This is because the system works on a Lot by Lot basis.
- Land on the EMR is not suitable for low density residential or any other sensitive use listed in the *Planning Regulations* (unless the land is firstly removed from the EMR because an assessment cleared it of having any actual contamination, or after any remediation of unacceptable contamination).
 - It is prohibited to build a house on land on the EMR (although sometimes this happens because Council may miss the trigger, or the land is already zoned for residential use and is self-assessable).
- If you sell (or lease) land on the EMR, the EMR listing must be disclosed and often potential purchasers (or lessees) may, all things being equal, choose similar land elsewhere not on the EMR.
 - Dealing with land on the EMR can cause concerns as prospective buyers or lessees may assume the worst in the absence of some information about the actual contamination risk.
 - There are other considerations as well, which are mostly covered by this government website: <https://www.qld.gov.au/environment/pollution/management/contaminated-land>
- When land needs to be removed from the EMR, or to obtain a related statutory outcome regarding land use, a contaminated land auditor (government appointed) would need to be satisfied that there was no reasonable risk of contamination – they do this by reviewing a Contaminated Land Investigation Document (**CLID**) (assessment report) prepared by a Suitably Qualified Person (**SQP**)
 - The SQP is a consultant that assists you with the contaminated land assessment process and will often perform field works to collect samples of soil or water that are analysed at a laboratory for relevant potential contaminants, as part of preparing the CLID report on the contamination status of the land.

- Irrespective of EMR status and legislative requirements, a contaminated land assessment may also be undertaken at any time for feasibility or due diligence reasons.
- A flowchart of the four stages of contaminated land investigation is provided below. Each stage is iterative and subsequent stages may not be required if it is proven that the risk of contaminated land is low.



(Source: DEHP Guideline for Contaminated Land Professionals 2013)



Appendix C
EMR Certificate



Department of Environment and Science (DES)
ABN 46 640 294 485
400 George St Brisbane, Queensland 4000
GPO Box 2454 Brisbane QLD 4001 AUSTRALIA
www.des.qld.gov.au

SEARCH RESPONSE
ENVIRONMENTAL MANAGEMENT REGISTER (EMR)
CONTAMINATED LAND REGISTER (CLR)

Transaction ID: 50913495 EMR Site Id: 01 February 2024

This response relates to a search request received for the site:

Lot: 105 Plan: SP118458
62 LAKE MACDONALD DR
COOROY 4563

EMR RESULT

The above site is NOT included on the Environmental Management Register.

CLR RESULT

The above site is NOT included on the Contaminated Land Register.

ADDITIONAL ADVICE

All search responses include particulars of land listed in the EMR/CLR when the search was generated.

The EMR/CLR does NOT include:-

1. land which is contaminated land (or a complete list of contamination) if DES has not been notified
2. land on which a notifiable activity is being or has been undertaken (or a complete list of activities) if DES has not been notified

If you have any queries in relation to this search please email emr.clr.registry@des.qld.gov.au

Administering Authority



Appendix D
Lotsearch Report



LOTSEARCH

LOTSEARCH ENVIRO PROFESSIONAL

Address: Lot 105 Sp118458, Cooroy, QLD 4563

Date: 15 Feb 2023 11:38:35

Reference: LS040467 EP

Disclaimer:

The purpose of this report is to provide an overview of some of the site history, environmental risk and planning information available, affecting an individual address or geographical area in which the property is located. It is not a substitute for an on-site inspection or review of other available reports and records. It is not intended to be, and should not be taken to be, a rating or assessment of the desirability or market value of the property or its features.

You should obtain independent advice before you make any decision based on the information within the report.

The detailed terms applicable to use of this report are set out at the end of this report.

Dataset Listing

Datasets contained within this report, detailing their source and data currency:

Dataset Name	Custodian	Supply Date	Currency Date	Update Frequency	Dataset Buffer (m)	No. Features Onsite	No. Features within 100m	No. Features in Buffer
Cadastre Boundaries	State of Queensland (Department of Natural Resources, Mines and Energy) and Mines) 2017	13/02/2023	13/02/2023	Quarterly	-	-	-	-
Environmental Authorities Register Current Prescribed Environmentally Relevant Activities	Queensland Department of Environment and Science	12/11/2021	12/11/2021	Monthly	1000	0	0	2
Environmental Authorities Register Current Resource Activities	Queensland Department of Environment and Science	12/11/2021	12/11/2021	Monthly	1000	0	1	1
Environmental Authorities Register Former Prescribed Environmentally Relevant Activities	Queensland Department of Environment and Science	12/11/2021	12/11/2021	Monthly	1000	0	0	4
Environmental Authorities Register Former Resource Activities	Queensland Department of Environment and Science	12/11/2021	12/11/2021	Monthly	1000	0	0	3
Defence PFAS Investigation & Management Program - Investigation Sites	Department of Defence	14/02/2023	14/02/2023	Monthly	2000	0	0	0
Defence PFAS Investigation & Management Program - Management Sites	Department of Defence	14/02/2023	14/02/2023	Monthly	2000	0	0	0
Airservices Australia National PFAS Management Program	Airservices Australia	13/02/2023	13/02/2023	Monthly	2000	0	0	0
Queensland Fire and Emergency Services PFAS Investigation Sites	Queensland Fire and Emergency Services	25/01/2023	27/06/2022	Monthly	2000	0	0	0
Defence 3 Year Regional Contamination Investigation Program	Department of Defence	02/09/2022	02/09/2022	Quarterly	2000	0	0	0
National Waste Management Facilities Database	Geoscience Australia	26/05/2022	07/03/2017	Annually	1000	0	0	0
National Liquid Fuel Facilities	Geoscience Australia	23/08/2022	13/07/2012	Annually	1000	0	0	2
UBD Business Directories (Premise & Intersection Matches)	Hardie Grant			Not required	150	0	0	0
UBD Business Directories (Road & Area Matches)	Hardie Grant			Not required	150	-	0	0
UBD Business Directory Dry Cleaners & Motor Garages/Service Stations (Premise & Intersection Matches)	Hardie Grant			Not required	500	0	0	0
UBD Business Directory Dry Cleaners & Motor Garages/Service Stations (Road & Area Matches)	Hardie Grant			Not required	500	-	0	0
Groundwater Boreholes	State of Queensland (Department of Natural Resources, Mines and Energy)	14/02/2023	14/02/2023	Quarterly	2000	0	0	30
Detailed Surface Geological Units	State of Queensland (Department of Natural Resources, Mines and Energy)	13/11/2017	28/03/2017	As required	1000	2	-	4
Detailed Surface Geological Structures	State of Queensland (Department of Natural Resources, Mines and Energy)	13/11/2017	28/03/2017	As required	1000	0	-	1
Atlas of Australian Soils	ABARES	19/05/2017	17/02/2011	As required	1000	1	1	2
Atlas of Australian Acid Sulfate Soils	CSIRO	19/01/2017	21/02/2013	As required	1000	1	1	2



Dataset Name	Custodian	Supply Date	Currency Date	Update Frequency	Dataset Buffer (m)	No. Features Onsite	No. Features within 100m	No. Features in Buffer
Commonwealth Heritage List	Australian Government Department of Agriculture, Water and the Environment	03/06/2022	13/04/2022	Annually	1000	0	0	1
National Heritage List	Australian Government Department of Agriculture, Water and the Environment	03/06/2022	13/04/2022	Annually	1000	0	0	0
Heritage Register Boundaries	State of Queensland (Environment and Heritage Protection)	18/10/2022	18/10/2022	Quarterly	1000	0	0	2
Statewide Bushfire Prone Areas	State of Queensland (Department of Natural Resources, Mines and Energy)	05/09/2022	15/07/2015	Annually	1000	0	0	4
Queensland Floodplain Assessment Overlay	State of Queensland (Department of Natural Resources, Mines and Energy)	19/04/2022	06/06/2021	Annually	1000	0	0	1
Wetland Protection Area	State of Queensland (Environment and Heritage Protection)	09/04/2018	14/09/2017	Unknown	1000	0	0	0
Groundwater Dependent Ecosystems Atlas	Bureau of Meteorology	28/10/2022	26/10/2022	Annually	1000	0	0	3
Inflow Dependent Ecosystems Likelihood	Bureau of Meteorology	28/10/2022	26/10/2022	Annually	1000	0	0	2

Aerial Imagery 2022

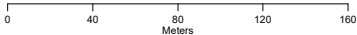
Lot 105 Sp118458, Cooroy, QLD 4563



Legend

-  Site Boundary
-  Buffer 150m

Scale:



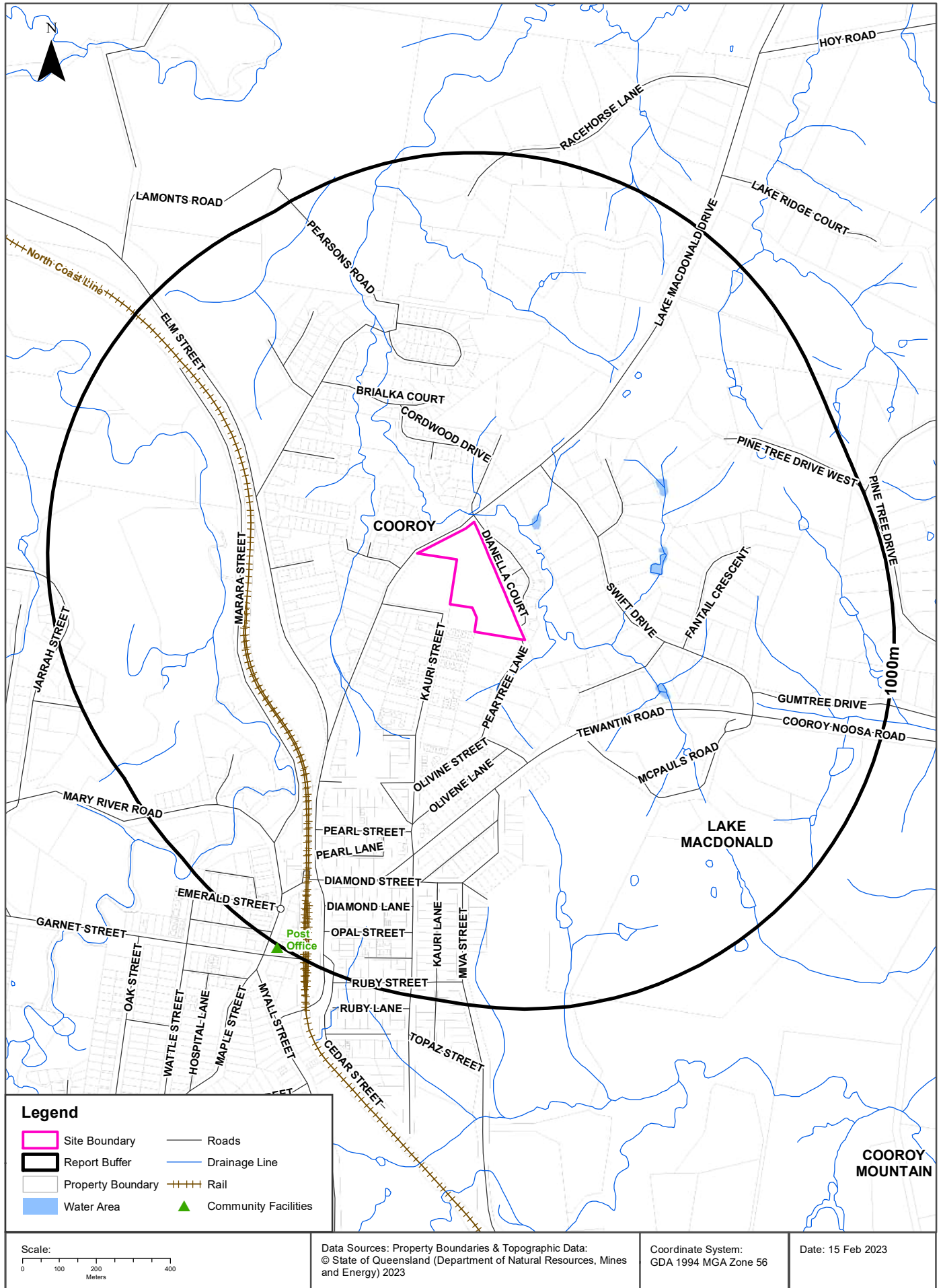
Data Sources: Aerial Imagery © Aerometrex Pty Ltd

Coordinate System:
GDA 1994 MGA Zone 56

Date: 15 February 2023

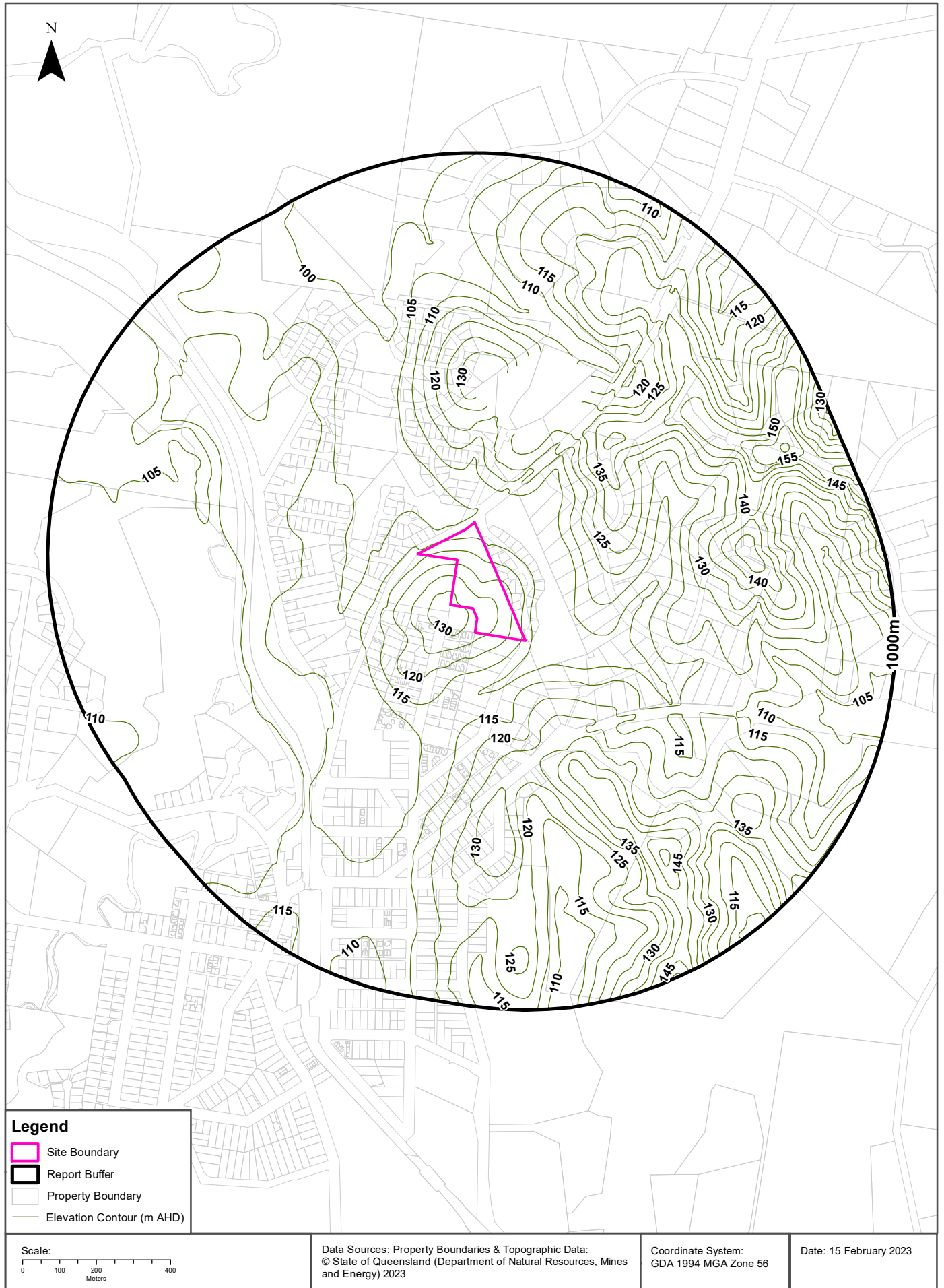
Topographic Features

Lot 105 Sp118458, Cooroy, QLD 4563



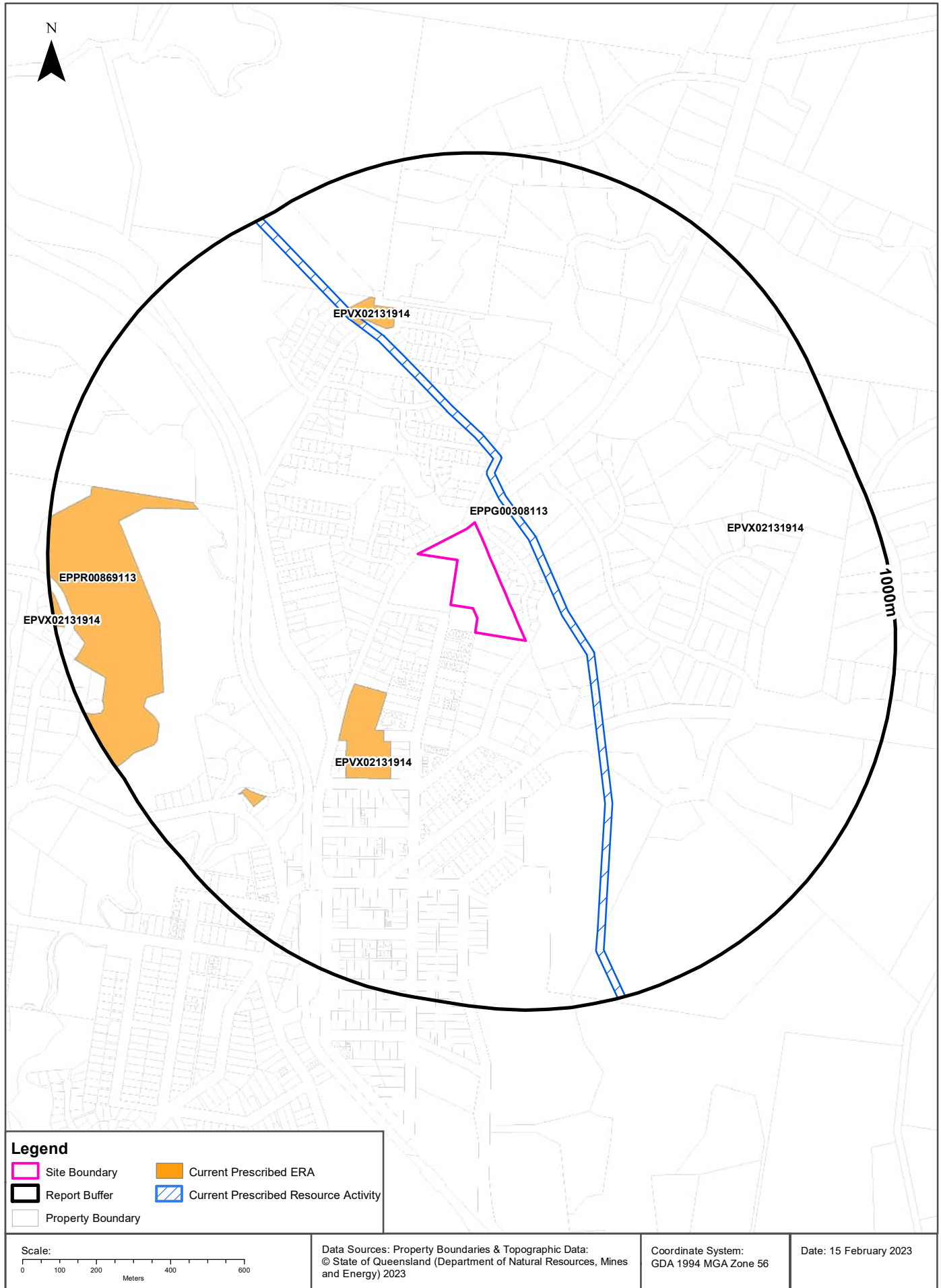
Elevation Contours (5m)

Lot 105 Sp118458, Cooroy, QLD 4563



Current Prescribed ERA and Resource Activities

Lot 105 Sp118458, Cooroy, QLD 4563



Environmental Authorities Register

Lot 105 Sp118458, Cooroy, QLD 4563

Current Prescribed ERA Activities

Current prescribed environmentally relevant activities within the dataset buffer.

Note: Due to the fact that not all records on the EAR have specific or current location details, some premises associated with a permit reference number may not have been mapped, and therefore will not appear in this report. For further details refer to: <https://environment.ehp.qld.gov.au/env-authorities>

Permit No	Permit Status	Effective Date	Primary Holder	Premise	Activity	Loc Conf	Dist'	Dir'n
EPVX02131914	Granted		Northern SEQ Distributor - Retailer Authority	1/RP153299 100/SP112631 3/SP242414 5/CP889589 75/RP227532	ERA 63 - Sewage Treatment, 2 - Operating a sewage pumping station mentioned in subsection (1)(b)	Premise match	289m	South West
EPPR00869113	Granted	2021-07-12	Northern SEQ Distributor - Retailer Authority	2/SP248288	ERA 07 - Chemical manufacturing, 6(a) - Manufacturing, in a year, the following quantities of inorganic chemicals, other than inorganic chemicals to which items 1 to 4 apply - 200t to 1000t ERA 08 - Chemical Storage, 5 - storing 200 cubic metres or more of chemicals that are liquids, other than chemicals mentioned in items 1 to 3, under subsection (1)(d) ERA 53 - Organic material processing, (a) Processing more than 200t of organic material in a year by composting the organic material ERA 62 - Resource recovery and transfer facility operation, 1(c) - Operating a facility for receiving and sorting, dismantling, baling or temporarily storing category 2 regulated waste ERA 63 - Sewage Treatment, 1(b-ii) - Operating sewage treatment works, other than no-release works, with a total daily peak design capacity of more than 100 but not more than 1500EP - otherwise ERA 63 - Sewage Treatment, 1(c) - Operating sewage treatment works, other than no-release works, with a total daily peak design capacity of more than 1500 but not more than 4000EP ERA 63 - Sewage Treatment, 1(d) - Operating sewage treatment works, other than no-release works, with a total daily peak design capacity of more than 4000 but not more than 10,000EP ERA 63 - Sewage Treatment, 1(e) - Operating sewage treatment works, other than no-release works, with a total daily peak design capacity of more than 10,000 but not more than 50,000EP ERA 63 - Sewage Treatment, 1(f) - Operating sewage treatment works, other than no-release works, with a total daily peak design capacity of more than 50,000 but not more than 100,000EP ERA 63 - Sewage Treatment, 1(g) - Operating sewage treatment works, other than no-release works, with a total daily peak design capacity of more than 100,000EP	Premise match	606m	West

Current Prescribed ERA Activities Data Source: QLD Department of Environment and Science
Creative Commons Attribution 4.0 <https://creativecommons.org/licenses/by/4.0/>

Current Prescribed Resource Activities

Current prescribed resource activities within the dataset buffer.

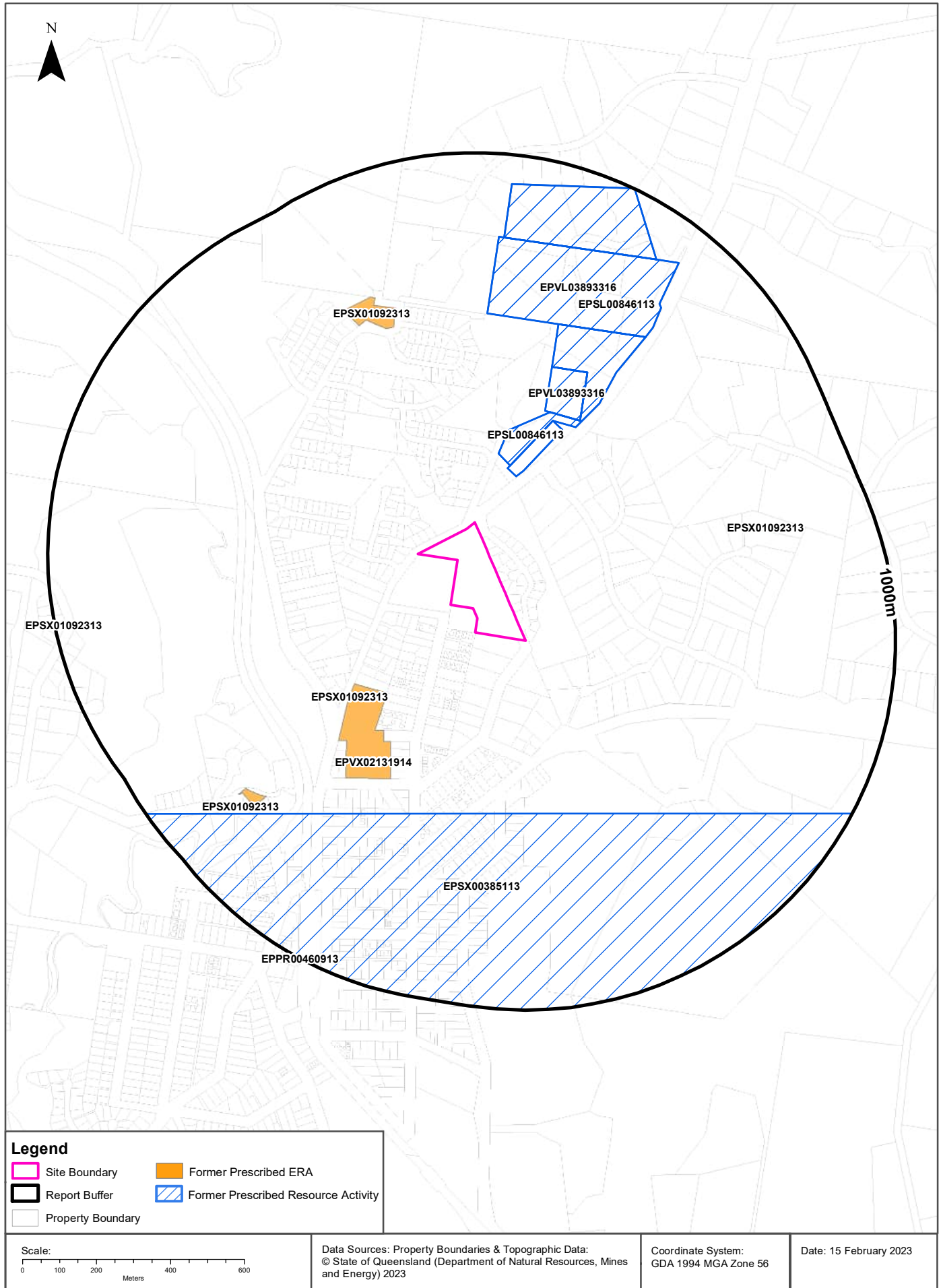
Note: Due to the fact that not all records on the EAR have specific or current location details, some premises associated with a permit reference number may not have been mapped, and therefore will not appear in this report. For further details refer to: <https://environment.ehp.qld.gov.au/env-authorities>

Permit No	Permit Status	Effective Date	Primary Holder	Premise	Activity	Loc Conf	Dist'	Dir'n
EPPG00308113	Granted	2016-03-08	ALLGAS ENERGY PTY LIMITED	PPL32	Non-Scheduled, Petroleum Activity - Petroleum Pipeline Licence (PPL)	General area	89m	South West

Current Prescribed Resource Activities Data Source: QLD Department of Environment and Science
Creative Commons Attribution 4.0 <https://creativecommons.org/licenses/by/4.0/>

Former Prescribed ERA and Resource Activities

Lot 105 Sp118458, Cooroy, QLD 4563



Environmental Authorities Register

Lot 105 Sp118458, Cooroy, QLD 4563

Former Prescribed ERA Activities

Former prescribed environmentally relevant activities within the dataset buffer.

Note: Due to the fact that not all records on the EAR have specific or current location details, some premises associated with a permit reference number may not have been mapped, and therefore will not appear in this report. For further details refer to: <https://environment.ehp.qld.gov.au/env-authorities>

Permit No	Permit Status	Effective Date	Primary Holder	Premise	Activity	Loc Conf	Dist'	Dir'n
EPVX02131914	No Longer on Supplied List	2020-02-21	Northern SEQ Distributor - Retailer Authority	Adjacent to Lot 1/RP153299 Adjacent to Lot 5/CP889589	ERA 63 - Sewage Treatment, 2	Land adjacent to geocoded site	289m	South West
EPSX01092313	No Longer on Supplied List	2014-05-20	Northern SEQ Distributor - Retailer Authority	Adjacent to 5/CP889589 SPS CRY002 in Lake MacDonald Dr	63-(2) Sewage treatment - pumping station (1)(b)	Premise match	365m	South West
EPSX01092313	No Longer on Supplied List	2014-05-20	Northern SEQ Distributor - Retailer Authority	Adjacent to 1/RP153299 SPS CRY001 in Mary River Rd, COOROY SPS CRY009 Jarrah St, COOROY 4563 SPS CRY010 Fantail Cr, COOROY 4563 SPS CRY020 Pearsons Rd, COOROY 4563	63-(2) Sewage treatment - pumping station (1)(b)	Premise match	574m	North
EPPR00460913	No Longer on Supplied List	2013-12-13	Peet No 90 Pty Limited	Garnett Street and Pine Street and Straker Drive COOROY	16-(1a) Dredging >1000t but <10000t yr	Road match	999m	South West

Former Prescribed ERA Activities Data Source: QLD Department of Environment and Science
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Former Prescribed Resource Activities

Former prescribed resource activities within the dataset buffer.

Note: Due to the fact that not all records on the EAR have specific or current location details, some premises associated with a permit reference number may not have been mapped, and therefore will not appear in this report. For further details refer to: <https://environment.ehp.qld.gov.au/env-authorities>

Permit No	Permit Status	Effective Date	Primary Holder	Premise	Activity	Loc Conf	Dist'	Dir'n
EPPL00846113	No Longer on Supplied List	2016-10-28	CSR Building Products Limited	ML3672 ML3673 ML3705 ML3718 ML3729 ML50078	Mining - ML	General area	167m	North East
EPVL03893316	Surrendered	2018-07-05	CSR BUILDING PRODUCTS LIMITED	ML3672 ML3673 ML3705 ML3718 ML3729 ML50078	Non-Scheduled, Mining Activity, Mining Lease - ML	General area	167m	North East
EPSX00385113	No Longer on Supplied List	2014-06-06	Native Metals Pty Ltd	EPM18629	Mining - EPM	General area	468m	West

Former Prescribed Resource Activities Data Source: QLD Department of Environment and Science
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PFAS Investigation Sites

Lot 105 Sp118458, Cooroy, QLD 4563

Defence PFAS Investigation and Management Program Investigation Sites

Sites being investigated by the Department of Defence for PFAS contamination within the dataset buffer:

Map ID	Base Name	Address	Loc Conf	Dist	Dir
N/A	No records in buffer				

Defence PFAS Investigation & Management Program Data Custodian: Department of Defence, Australian Government

Defence PFAS Investigation and Management Program Management Sites

Sites being managed by the Department of Defence for PFAS contamination within the dataset buffer:

Map ID	Base Name	Address	Loc Conf	Dist	Dir
N/A	No records in buffer				

Defence PFAS Investigation & Management Program Data Custodian: Department of Defence, Australian Government

Airservices Australia National PFAS Management Program

Sites being investigated or managed by Airservices Australia for PFAS contamination within the dataset buffer:

Map ID	Site Name	Impacts	Loc Conf	Dist	Dir
N/A	No records in buffer				

Airservices Australia National PFAS Management Program Data Custodian: Airservices Australia

Queensland Fire and Emergency Services PFAS Investigation Sites

Sites being investigated by Queensland Fire and Emergency Services for PFAS contamination within the dataset buffer:

Map ID	Fire Station Name	PFOA (µg/L)	PFOS (Σ(PFOS + PFHxS) (µg/L)	Location Confidence	Dist	Dir
N/A	No records in buffer					

Queensland Fire and Emergency Services PFAS investigation Sites Data Source: Queensland Fire and Emergency Services, Queensland Government

Defence Sites

Lot 105 Sp118458, Cooroy, QLD 4563

Defence 3 Year Regional Contamination Investigation Program

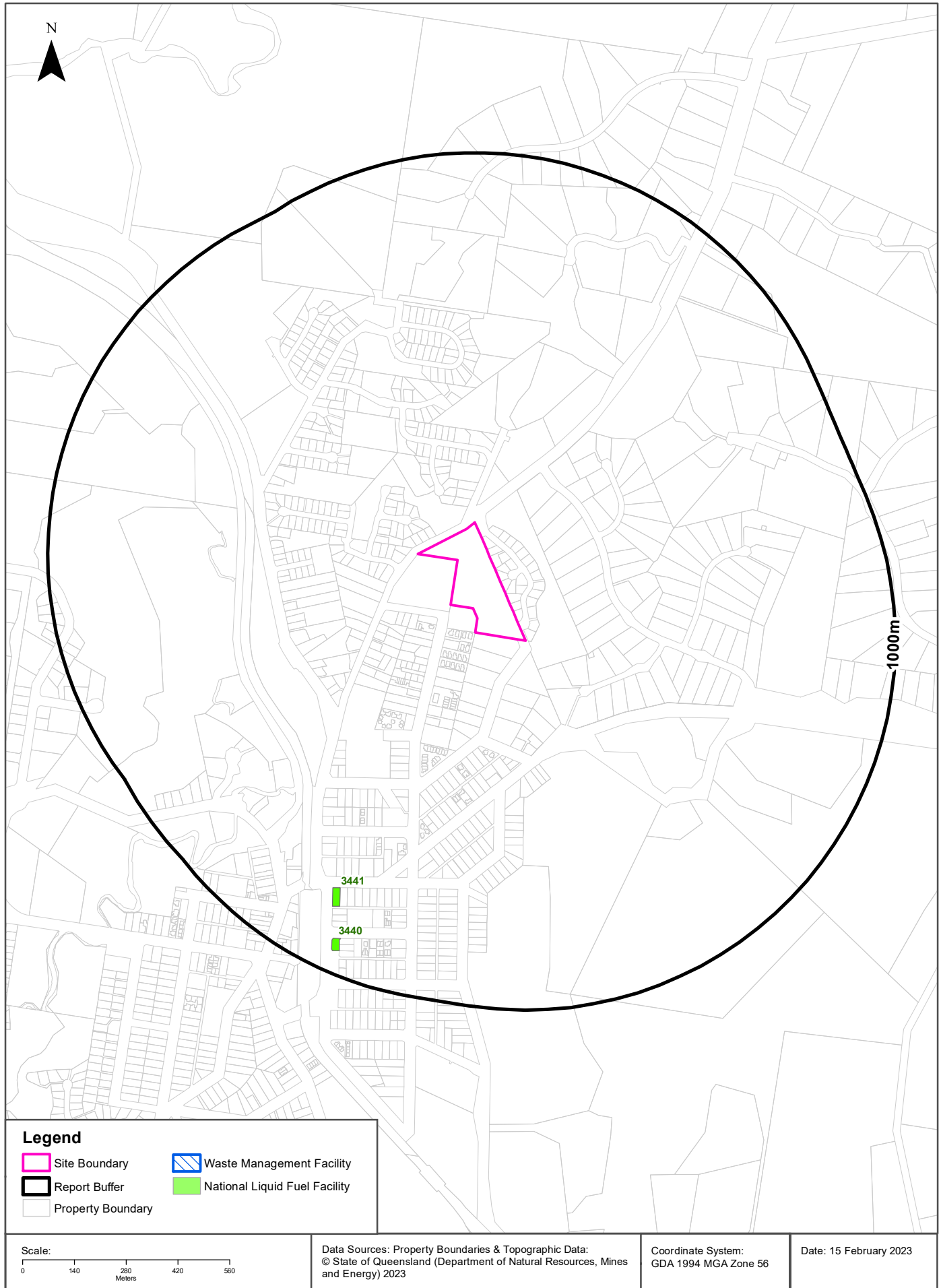
Sites which have been assessed as part of the Defence 3 Year Regional Contamination Investigation Program within the dataset buffer:

Property ID	Base Name	Address	Known Contamination	Loc Conf	Dist	Dir
N/A	No records in buffer					

Defence 3 Year Regional Contamination Investigation Program, Data Custodian: Department of Defence, Australian Government

Waste Management and Liquid Fuel Facilities

Lot 105 Sp118458, Cooroy, QLD 4563



Legend

- Site Boundary
- Report Buffer
- Property Boundary
- Waste Management Facility
- National Liquid Fuel Facility

Scale:
0 140 280 420 560
Meters

Data Sources: Property Boundaries & Topographic Data:
© State of Queensland (Department of Natural Resources, Mines
and Energy) 2023

Coordinate System:
GDA 1994 MGA Zone 56

Date: 15 February 2023

Waste Management and Liquid Fuel Facilities

Lot 105 Sp118458, Cooroy, QLD 4563

National Waste Management Site Database

Sites on the National Waste Management Site Database within the dataset buffer:

Site Id	Owner	Name	Address	Suburb	Class	Landfill	Reprocess	Transfer	Comments	Loc Conf	Dist'	Direction
N/A	No records in buffer											

Waste Management Facilities Data Source: Australian Government Geoscience Australia
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

National Liquid Fuel Facilities

National Liquid Fuel Facilities within the dataset buffer:

Map Id	Owner	Name	Address	Suburb	Class	Operational Status	Operator	Revision Date	Loc Conf	Dist (m)	Dir
3441	Independent Fuel Supplies	Reliance Cooroy	2 Diamond Street	Cooroy	Petrol Station	Operational		25/07/2011	Premise Match	780m	South West
3440	BP	BP Cooroy Supermart	28 Elm Street	Cooroy	Petrol Station	Operational		25/07/2011	Premise Match	903m	South

National Liquid Fuel Facilities Data Source: Geoscience Australia
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Historical Business Directories

Lot 105 Sp118458, Cooroy, QLD 4563

Business Directory Records 1941-1968-70 Premise or Road Intersection Matches

Universal Business Directory records, from years 1968-70, 1961, 1950 & 1941, mapped to a premise or road intersection within the dataset buffer:

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
	No records in buffer						

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

Business Directory Records 1941-1968-70 Road or Area Matches

Universal Business Directory records, from years 1968-70, 1961, 1950 & 1941, mapped to a road or an area, within the dataset buffer. Records are mapped to the road when a building number is not supplied, cannot be found, or the road has been renumbered since the directory was published:

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
	No records in buffer					

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

Historical Business Directories

Lot 105 Sp118458, Cooroy, QLD 4563

Dry Cleaners, Motor Garages & Service Stations 1941-1968-70 Premise or Road Intersection Matches

Dry Cleaners, Motor Garages & Service Stations from UBD Business Directories, from years 1968-70, 1961, 1950 & 1941, mapped to a premise or road intersection, within the dataset buffer.

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
	No records in buffer						

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

Dry Cleaners, Motor Garages & Service Stations 1941-1968-70 Road or Area Matches

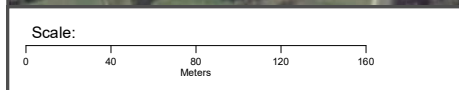
Dry Cleaners, Motor Garages & Service Stations from UBD Business Directories, from years 1968-70, 1961, 1950 & 1941, mapped to a road or an area, within the dataset buffer. Records are mapped to the road when a building number is not supplied, cannot be found, or the road has been renumbered since the directory was published.

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
	No records in buffer					

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

Aerial Imagery 2016

Lot 105 Sp118458, Cooroy, Qld, Cooroy, QLD 4563



Data Source Aerial Imagery: © 2023 Google Inc, used with permission. Google and the Google logo are registered trademarks of Google Inc.

Coordinate System:
GDA 1994 MGA Zone 56



Date: 14 February 2023

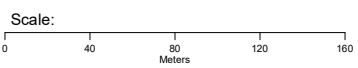
Aerial Imagery 2012

Lot 105 Sp118458, Cooroy, Qld, Cooroy, QLD 4563



Legend

-  Site Boundary
-  Buffer 150m



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Coordinate System:
GDA 1994 MGA Zone 56

Date: 14 February 2023

Aerial Imagery 2007

Lot 105 Sp118458, Cooroy, Qld, Cooroy, QLD 4563



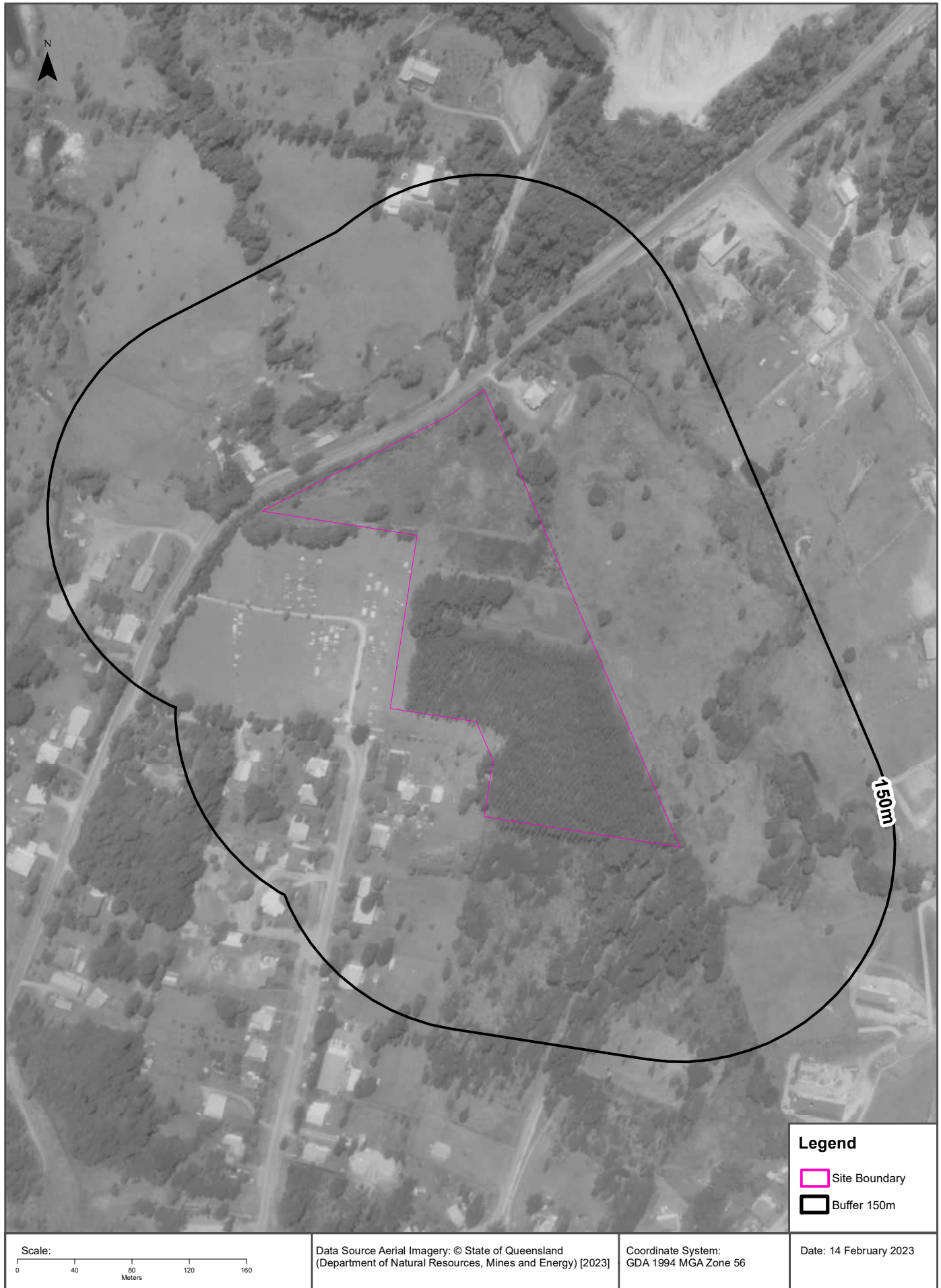
Aerial Imagery 2001

Lot 105 Sp118458, Cooroy, Qld, Cooroy, QLD 4563



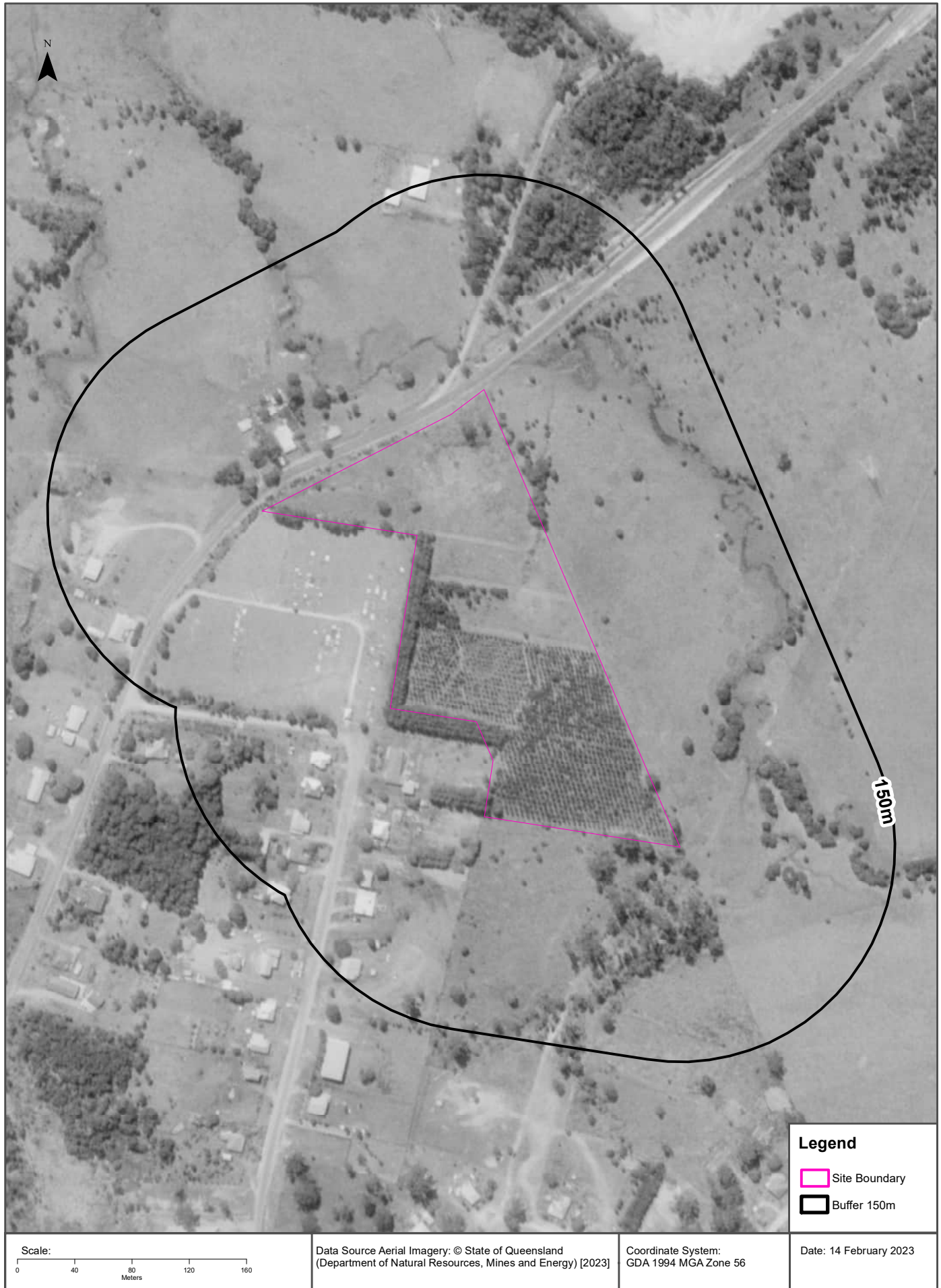
Aerial Imagery 1992

Lot 105 Sp118458, Cooroy, Qld, Cooroy, QLD 4563



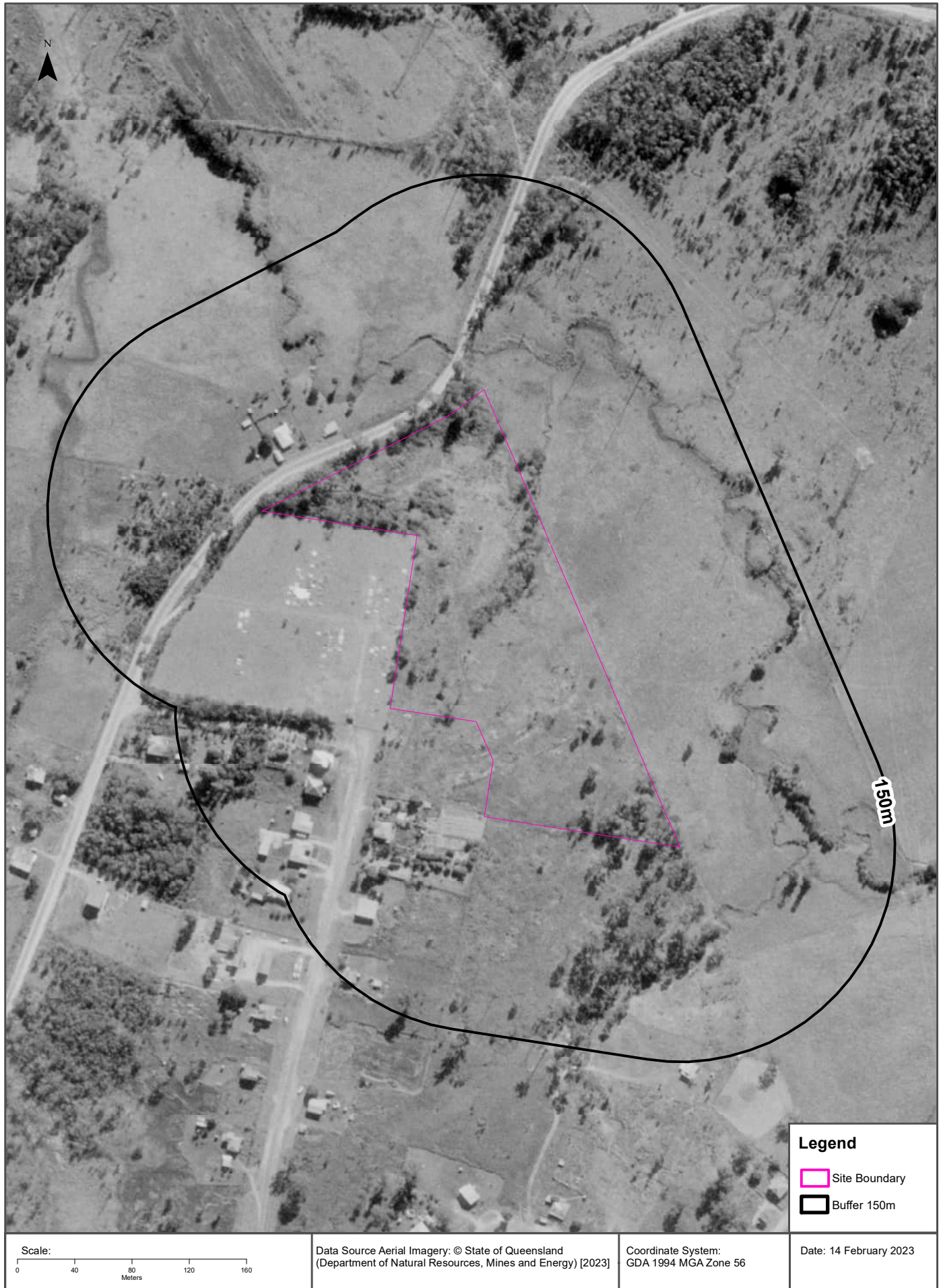
Aerial Imagery 1984

Lot 105 Sp118458, Cooroy, Qld, Cooroy, QLD 4563



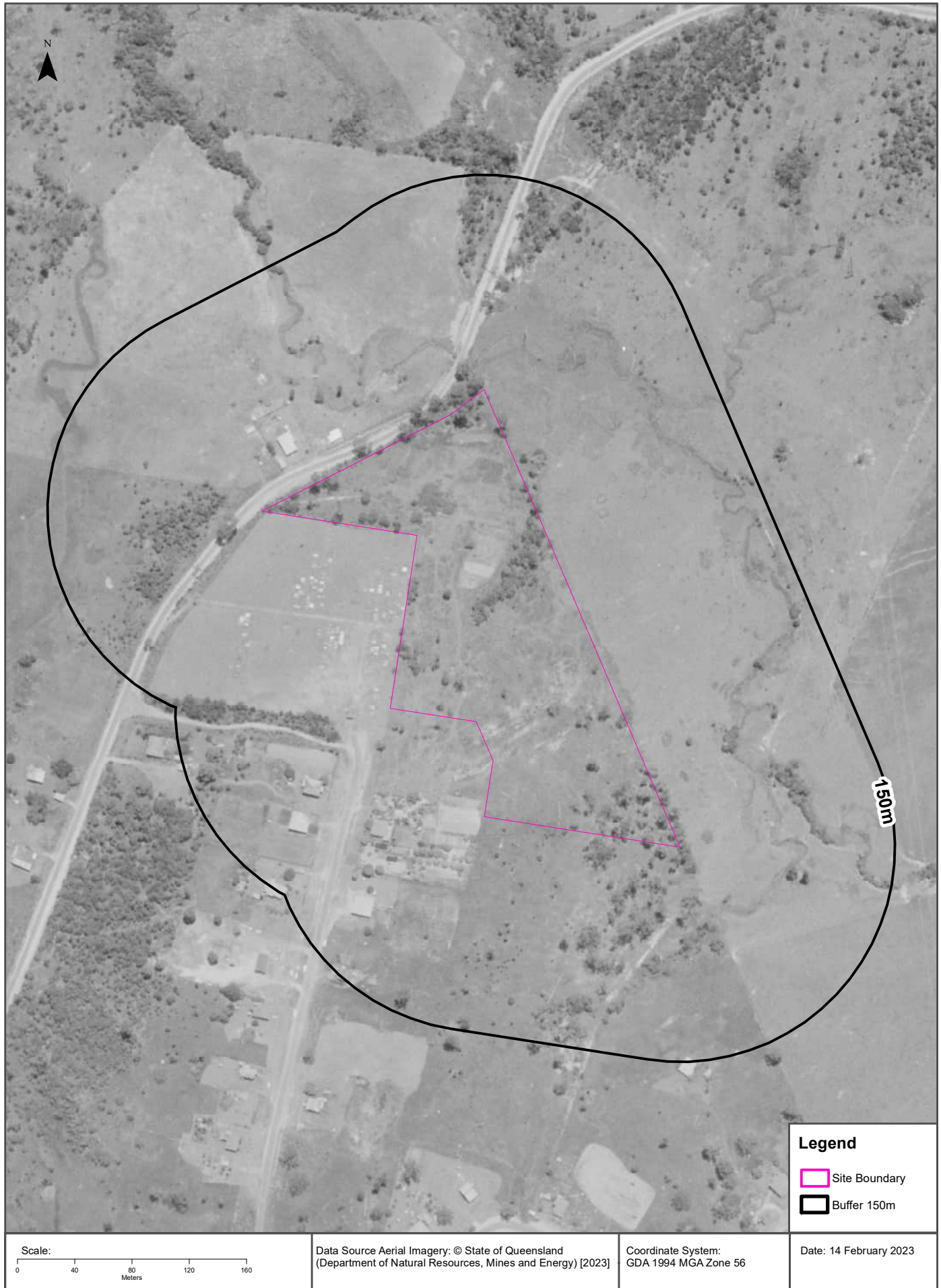
Aerial Imagery 1971

Lot 105 Sp118458, Cooroy, Qld, Cooroy, QLD 4563



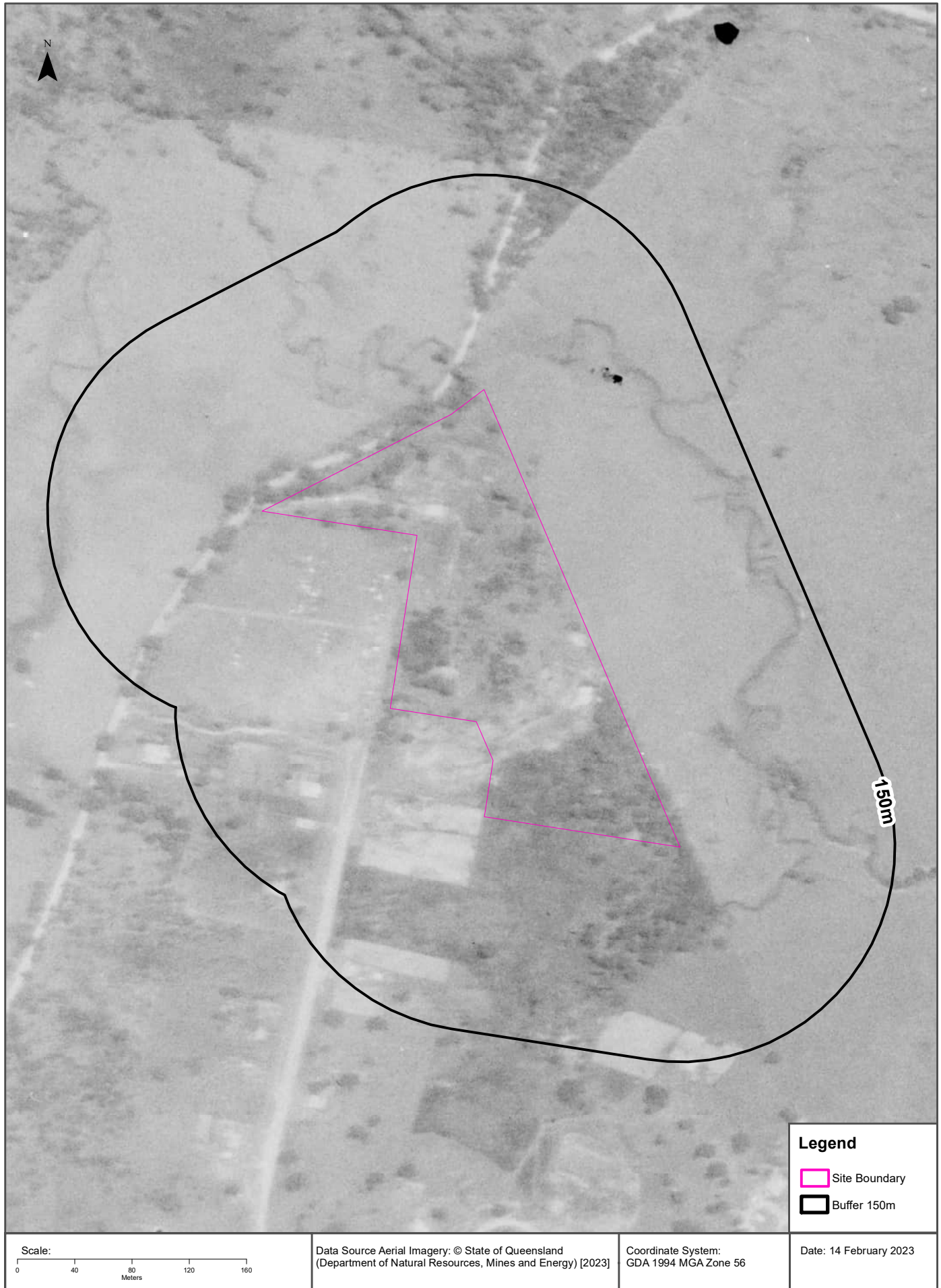
Aerial Imagery 1967

Lot 105 Sp118458, Cooroy, Qld, Cooroy, QLD 4563



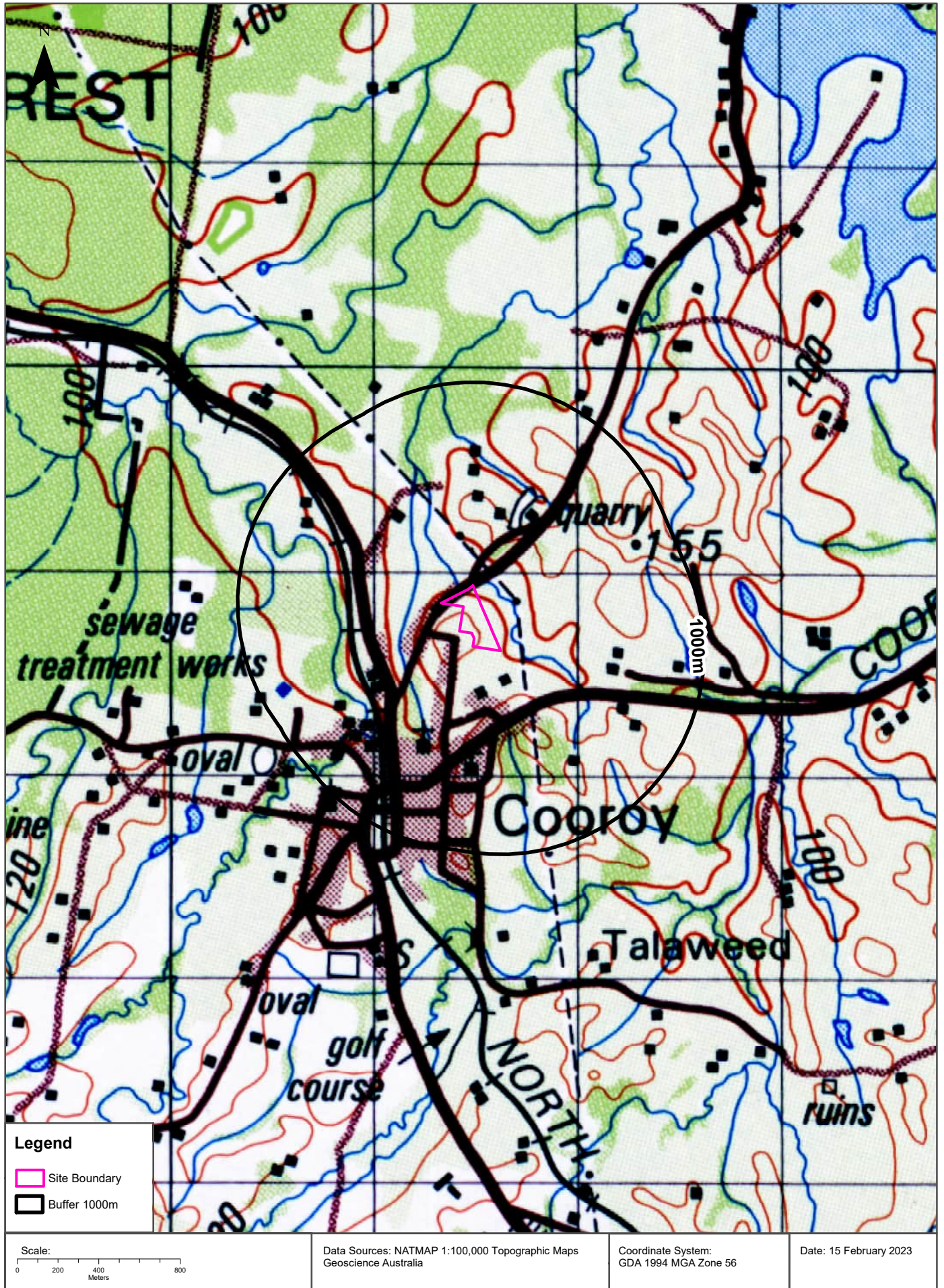
Aerial Imagery 1953

Lot 105 Sp118458, Cooroy, Qld, Cooroy, QLD 4563



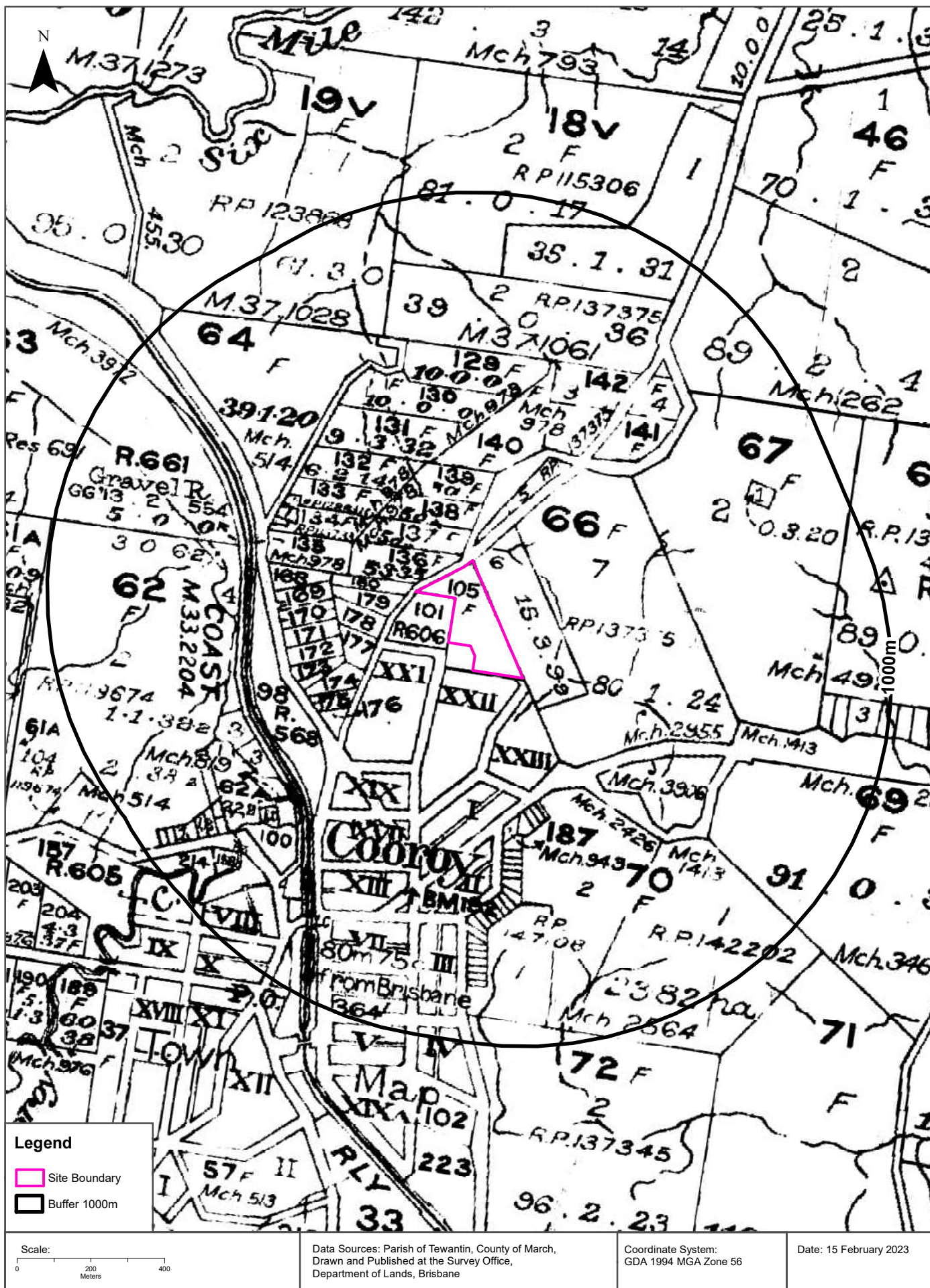
Historical Map 1982

Lot 105 Sp118458, Cooroy, QLD 4563



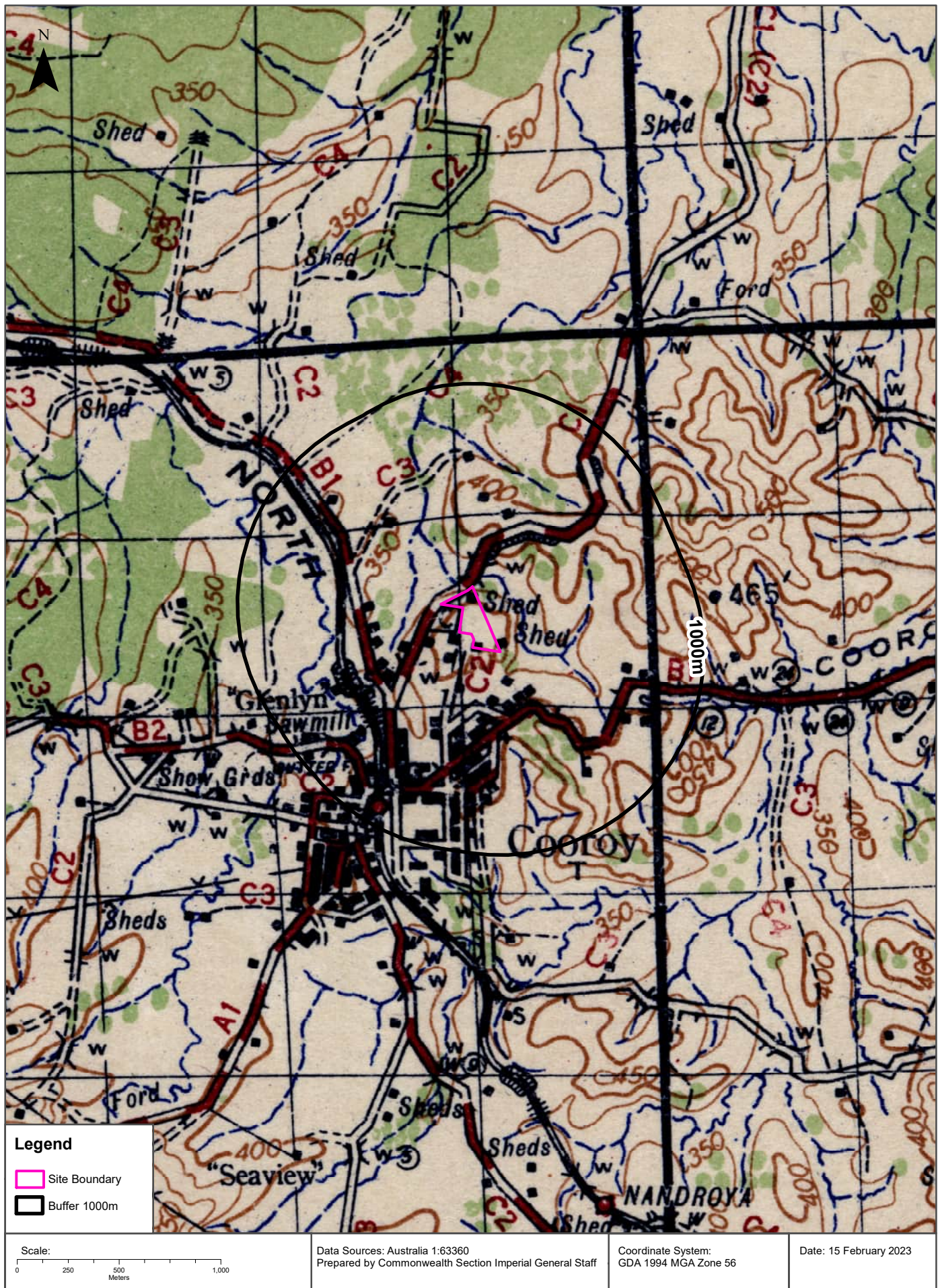
Historical Map 1977

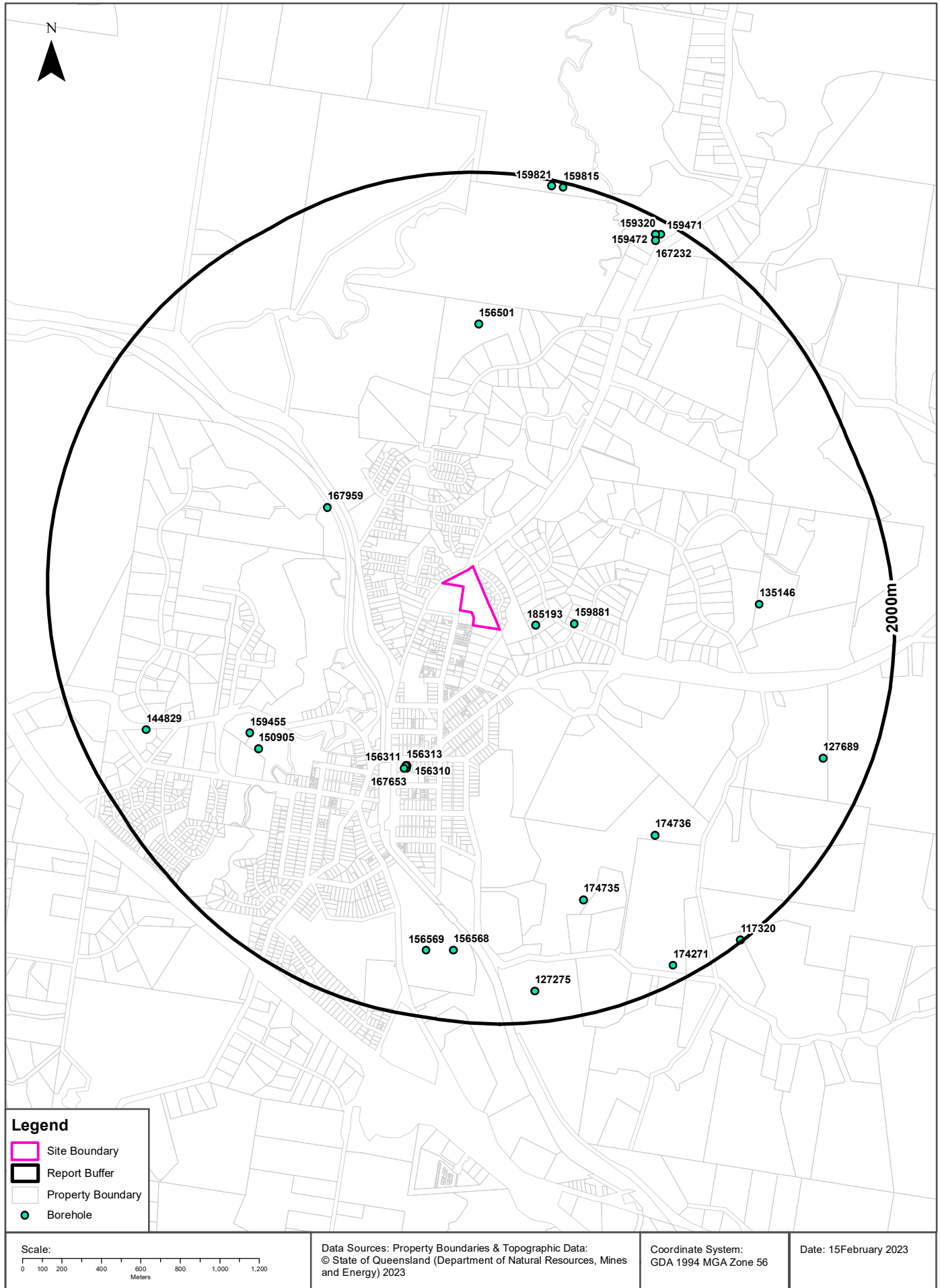
Lot 105 Sp118458, Cooroy, QLD 4563



Historical Map c.1943

Lot 105 Sp118458, Cooroy, QLD 4563





Groundwater Boreholes

Lot 105 Sp118458, Cooroy, QLD 4563

Groundwater Boreholes

Boreholes within the dataset buffer:

Bore No	Facility Type	Facility Role	Status	Drillers Log	Aquifer	Drill Date	Dist	Direct'
185193	Sub-artesian Facility	Water Supply	Existing	0.00m-1.00m BROWN CLAY 1.00m-4.00m RED CLAY 4.00m-8.00m WHITE CLAY 8.00m-9.00m BROWN CLAY 9.00m-24.00m BLACK SHALE 24.00m-27.00m SHALE & QUARTZ * 27.00m-37.00m BLACK SHALE	Aquifer Top-Bottom: 24.00m-27.00m. Fractured Condition. Formation is contributing water to the bore. Formation does not flow. Quality: SALINITY 100PPM Yield: 0.40 SWL: -10.00	2019-01-29	184m	South East
159881	Sub-artesian Facility		Existing	0.00m-3.00m BROWN TOPSOIL 3.00m-10.00m BROWN CLAY 10.00m-30.00m BLACK SHALE		2013-10-29	379m	East
167959	Sub-artesian Facility	Water Supply	Existing	0.00m-1.80m ORANGE SOIL 1.80m-3.00m ORANGE CLAY 3.00m-4.60m PINK CLAY 4.60m-6.10m WHITE CLAY 6.10m-9.10m PINK AND WHITE CLAY 9.10m-13.70m BROWN TO ORANGE CLAY 13.70m-16.80m PURPLE CLAY 16.80m-24.40m BROWN CLAYSTONE 24.40m-38.10m BROWN TO GREY CLAYSTONE 38.10m-48.80m DARK BROWN CLAYSTONE 48.80m-53.90m GREY SANDSTONE 53.90m-60.40m DARK BROWN CLAYSTONE		2016-01-25	694m	North West
156312	Sub-artesian Facility		Existing	0.00m-6.00m CLAY		2012-06-14	785m	South
156314	Sub-artesian Facility		Existing	0.00m-6.00m CLAY		2012-06-14	786m	South
156313	Sub-artesian Facility		Existing			2012-06-14	787m	South
156310	Sub-artesian Facility		Existing	0.00m-6.00m CLAY		2009-06-14	788m	South
156311	Sub-artesian Facility		Existing	0.00m-6.00m CLAY		2009-06-14	788m	South
156315	Sub-artesian Facility		Existing	0.00m-6.00m CLAY		2012-06-14	788m	South
167653	Sub-artesian Facility	Sub-Artesian Monitoring	Existing	0.00m-0.70m FILL 0.70m-10.00m CLAY BROWN		2015-10-22	799m	South
167648	Sub-artesian Facility	Sub-Artesian Monitoring	Existing	0.00m-0.60m FILL 0.60m-8.00m CLAY BROWN		2015-10-22	804m	South
156501	Sub-artesian Facility		Abandoned and Destroyed	0.00m-0.30m SOIL 0.30m-3.00m YELLOW CLAYS 3.00m-12.20m WHITE AND PINK CLAYS 12.20m-21.30m GREY CLAYS 21.30m-27.40m PINK BROWN SHALE 27.40m-39.60m GREEN WHITE BROWN SANDSTONE 39.60m-57.90m GREY AND BROWN SANDSTONE 57.90m-73.20m GREY MUDSTONE 73.20m-86.90m DARK MUDSTONE 86.90m-91.40m GREY SHALE		2012-11-29	1229m	North

Bore No	Facility Type	Facility Role	Status	Drillers Log	Aquifer	Drill Date	Dist	Direct'
159455	Sub-artesian Facility		Existing	0.00m-0.60m SOIL 0.60m-1.50m RED CLAY 1.50m-6.10m PINK AND WHITE CLAYS 6.10m-9.10m BROWN CLAY 9.10m-18.30m PINK GREY BROWN CLAYS 18.30m-25.90m GREY SANDSTONE 25.90m-30.50m DARK BROWN CLAY 30.50m-36.60m GREY SANDSTONE 36.60m-41.10m GREY MUDSTONE 41.10m-50.30m DARK BROWN MUDSTONE 50.30m-51.80m GREY SANDSTONE 51.80m-54.90m DARK CLAY	Aquifer Top-Bottom: 24.45m-51.80m. Consolidated Condition. Formation does not contribute water to the bore. Formation does not flow. Quality: POTABLE Yield: 1.00 SWL: -4.60	2013-11-11	1231m	South West
150905	Sub-artesian Facility		Existing	0.00m-1.00m BLACK TOPSOIL 1.00m-4.00m BROWN CLAY 4.00m-9.00m WHITE CLAY 9.00m-12.00m QUARTZ 12.00m-15.00m BROWN CLAY *	Aquifer Top-Bottom: 12.00m-15.00m. Semi Consolidated Condition. Formation is contributing water to the bore. Formation does not flow. Yield: 1.00 SWL: -2.00	2010-06-10	1236m	South West
174736	Sub-artesian Facility	Water Supply	Existing	0.00m-0.60m SOIL 0.60m-7.00m CLAY - WHITE/BROWN YELLOW 7.00m-15.20m BROWN SHALE 15.20m-19.80m DARK SHALE * 19.80m-25.90m GREY SHALE 25.90m-31.10m GREY SHALE QUARTZ BANDS *	Aquifer Top-Bottom: 15.20m-19.80m. Fractured Condition. Formation is contributing water to the bore. Formation does not flow. Quality: 200 MS Yield: 0.45 SWL: -4.90 Aquifer Top-Bottom: 25.90m-31.10m. Fractured Condition. Formation is contributing water to the bore. Formation does not flow. Quality: 220 Yield: 0.30 SWL: -4.90	2017-11-07	1307m	South East
135146	Sub-artesian Facility	Water Supply	Abandoned and Destroyed	0.00m-2.00m BROWN CLAY 2.00m-8.00m WHITE CLAY 8.00m-11.00m BROWN CLAY 11.00m-14.00m WEATHERED SHALE * 14.00m-15.00m BROKEN GREY SHALE 15.00m-31.00m GREY SHALE		2006-09-07	1322m	East
174735	Sub-artesian Facility	Water Supply	Abandoned and Destroyed	0.00m-0.90m SOIL 0.90m-6.10m WHITE RED BROWN CLAYS 6.10m-41.10m GREY SHALE * 41.10m-42.70m GREY SILT CRIT BAND 42.70m-54.90m GREY SHALE 54.90m-74.70m GREY BASALT TYPE ROCK 74.70m-88.40m GREY SHALE 88.40m-90.80m GREEN BASALT BAND 90.80m-91.40m GREY SHALE	Aquifer Top-Bottom: 6.10m-41.10m. Fractured Condition. Formation does not contribute water to the bore. Formation does not flow. Quality: 200 MS Yield: 0.03 SWL: -9.10	2017-11-06	1434m	South
156568	Sub-artesian Facility		Abandoned and Destroyed	0.00m-9.00m WHITE SANDY CLAY 9.00m-11.00m GRAVEL AND WHITE CLAY 11.00m-45.00m BLACK SHALE		2013-01-09	1643m	South
156569	Sub-artesian Facility		Abandoned and Destroyed	0.00m-16.00m RED CLAY 16.00m-17.00m GRAVEL IN WHITE SANDY CLAY (DRY) 17.00m-34.00m LIGHT SANDSTONE 34.00m-45.00m BLACK SHALE		2013-01-10	1665m	South
144829	Sub-artesian Facility	Water Supply	Existing	0.00m-1.00m BLACK TOPSOIL 1.00m-6.00m RED CLAY 6.00m-10.00m WHITE CLAY 10.00m-25.00m BROWN CLAY 25.00m-30.00m RED CLAY 30.00m-39.00m GREY SHALE *		2007-11-30	1673m	West

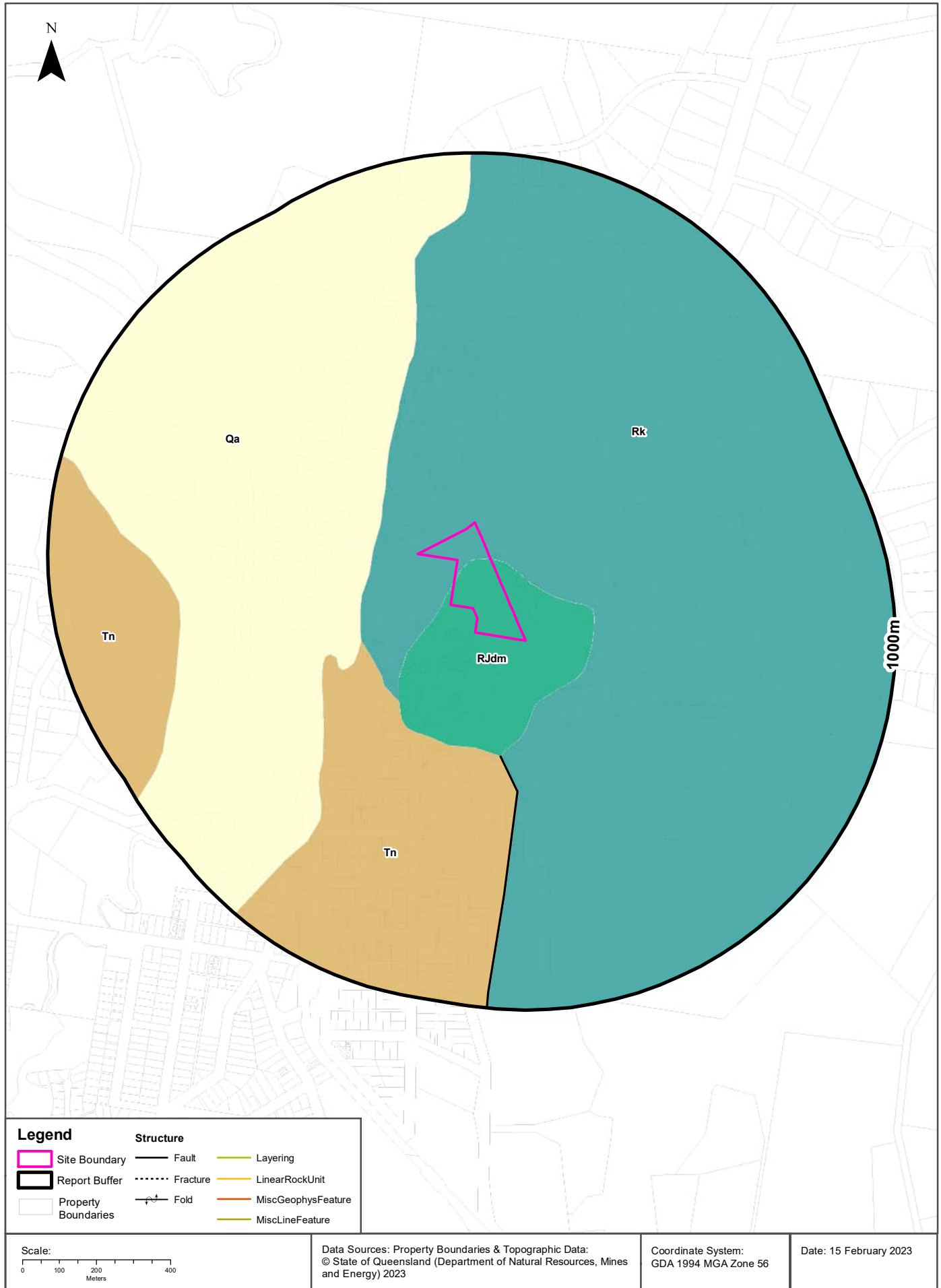
Bore No	Facility Type	Facility Role	Status	Drillers Log	Aquifer	Drill Date	Dist	Direct'
127689	Sub-artesian Facility	Water Supply	Existing	0.00m-1.00m BROWN CLAY 1.00m-4.00m RED CLAY 4.00m-7.00m RED AND BROWN CLAY 7.00m-16.00m BROWN CLAY 16.00m-22.00m BROWN CLAY AND WEATHERED ROCK 22.00m-25.00m WEATHERED BASALT 25.00m-34.00m BASALT 34.00m-36.00m FRACTURED BASALT * 36.00m-37.50m BASALT		2005-12-15	1763m	South East
127275	Sub-artesian Facility	Water Supply	Abandoned and Destroyed	0.00m-1.20m TOP SOIL 1.20m-4.00m BROWN CLAY 4.00m-7.00m WEATHERED SHALE 7.00m-60.00m GREY SHALE		2004-07-26	1842m	South
167232	Sub-artesian Facility		Existing	0.00m-1.00m TOP SOIL 1.00m-5.00m WHITE CLAY 5.00m-22.00m ORANGE BROWN CLAY 22.00m-28.00m GREY SANDSTONE 28.00m-29.00m BROKEN SANDSTONE 29.00m-115.50m GREY SANDSTONE		2015-05-18	1893m	North East
174271	Sub-artesian Facility	Water Supply	Abandoned and Destroyed	0.00m-0.60m SOIL 0.60m-4.60m CLAY BROWN PINK WHITE 4.60m-10.70m WEATHERING BROWN 10.70m-29.00m GREY SHALE 29.00m-30.50m BASALT GREY 30.50m-61.00m SHALE GREY		2017-03-02	1915m	South East
159320	Sub-artesian Facility		Existing	0.00m-1.00m TOP SOIL 1.00m-5.00m WHITE CLAY 5.00m-22.00m ORANGE BROWN CLAY 22.00m-61.00m GRAY SANDSTONE		2013-09-16	1920m	North East
159472	Sub-artesian Facility		Existing	0.00m-1.00m TOPSOIL 1.00m-5.00m WHITE CLAY 5.00m-22.00m ORANGE/BROWN CLAY 22.00m-28.00m GREY SANDSTONE 28.00m-29.00m VERY BROKEN SANDSTONE 29.00m-31.00m GREY SANDSTONE		2013-10-17	1920m	North East
159471	Sub-artesian Facility		Existing	0.00m-1.00m TOPSOIL 1.00m-5.00m WHITE CLAY 5.00m-22.00m ORANGE/BROWN CLAY 22.00m-37.00m GREY SANDSTONE		2013-10-16	1934m	North East
159821	Sub-artesian Facility	Water Supply	Existing	0.00m-1.00m TOP SOIL 1.00m-3.00m ORANGE CLAY 3.00m-6.00m GREY CLAY 6.00m-18.00m ORANGE CLAY 18.00m-29.00m GREY CLAY 29.00m-46.00m DARK GREY-BLACK SHALE, FIRM BUT NOT HARD 46.00m-59.00m GREEN-GREY LOOKS LIKE SOAP STONE BUT VERY FIRM	Aquifer Top-Bottom: 38.00m-55.00m. Fractured Condition. Formation is contributing water to the bore. Formation does not flow. Quality: POTABLE Yield: 7.78 SWL: -10.00	2016-01-06	1969m	North

Bore No	Facility Type	Facility Role	Status	Drillers Log	Aquifer	Drill Date	Dist	Direct'
159815	Sub-artesian Facility	Water Supply	Existing	0.00m-1.00m TOP SOIL 1.00m-2.00m ORANGE CLAY 2.00m-5.00m WHITE CLAY 5.00m-8.00m ORANGE CLAY 8.00m-10.00m WHITE SANDY CLAY 10.00m-13.00m BROWN CLAY 13.00m-15.00m GREY SANDY CLAY 15.00m-19.00m BROWN CLAY 19.00m-24.00m DRY GREY CLAY 24.00m-37.00m GREY SANDSTONE		2016-01-07	1974m	North
117320	Sub-artesian Facility	Water Supply	Existing	0.00m-0.50m TOP SOIL 0.50m-9.00m CLAY 9.00m-12.00m WEATHERED SANDSTONE 12.00m-33.00m GREY BASALT *		2003-12-23	1991m	South East

Groundwater Borehole Data: © State of Queensland (Department of Natural Resources and Mines) [2016]
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Acknowledgment: In consideration of the State permitting use of this data you acknowledge and agree that the State gives no warranty in relation to the data (including accuracy, reliability, completeness, currency or suitability) and accepts no liability (including without limitation, liability in negligence) for any loss, damage or costs (including consequential damage) relating to any use of the data. Data must not be used for direct marketing or be used in breach of the privacy laws.

Groundwater Borehole Metadata: https://www.dnrm.qld.gov.au/__data/assets/pdf_file/0015/31317/bore-baseline-assessment-dictionary.pdf



Geology

Lot 105 Sp118458, Cooroy, QLD 4563

Detailed Surface Geological Units

What are the Geological Units onsite?

Symbol	Lithology Summary	Unit Name	Dominant Rock	Rock Type	Age
RJdm	Quartzose sandstone, orthoquartzite, sublabile to labile sandstone, siltstone, shale	Myrtle Creek Sandstone	ARENITE	STRATIFIED UNIT (INCLUDING VOLCANIC AND METAMORPHIC)	LATE TRIASSIC - EARLY JURASSIC
Rk	Strongly cleaved and commonly kinked mudstone with thin siltstone laminae; minor volcanilithic sandstone	Kin Kin beds	ARENITE-MUDROCK	STRATIFIED UNIT (INCLUDING VOLCANIC AND METAMORPHIC)	MIDDLE TRIASSIC

What are the Geological Units within the dataset buffer?

Symbol	Lithology Summary	Unit Name	Dominant Rock	Rock Type	Age
Qa	Clay, silt, sand and gravel; flood-plain alluvium	Qa-QLD	ALLUVIUM	STRATIFIED UNIT (INCLUDING VOLCANIC AND METAMORPHIC)	QUATERNARY
RJdm	Quartzose sandstone, orthoquartzite, sublabile to labile sandstone, siltstone, shale	Myrtle Creek Sandstone	ARENITE	STRATIFIED UNIT (INCLUDING VOLCANIC AND METAMORPHIC)	LATE TRIASSIC - EARLY JURASSIC
Rk	Strongly cleaved and commonly kinked mudstone with thin siltstone laminae; minor volcanilithic sandstone	Kin Kin beds	ARENITE-MUDROCK	STRATIFIED UNIT (INCLUDING VOLCANIC AND METAMORPHIC)	MIDDLE TRIASSIC
Tn	Shale, sandstone, conglomerate, basalt	Pomona beds	SEDIMENTARY ROCK	STRATIFIED UNIT (INCLUDING VOLCANIC AND METAMORPHIC)	EOCENE

Detailed Geological Structures

What are the Geological Structures onsite?

Feature	Name	Description	Source	Scale
-	No features onsite			

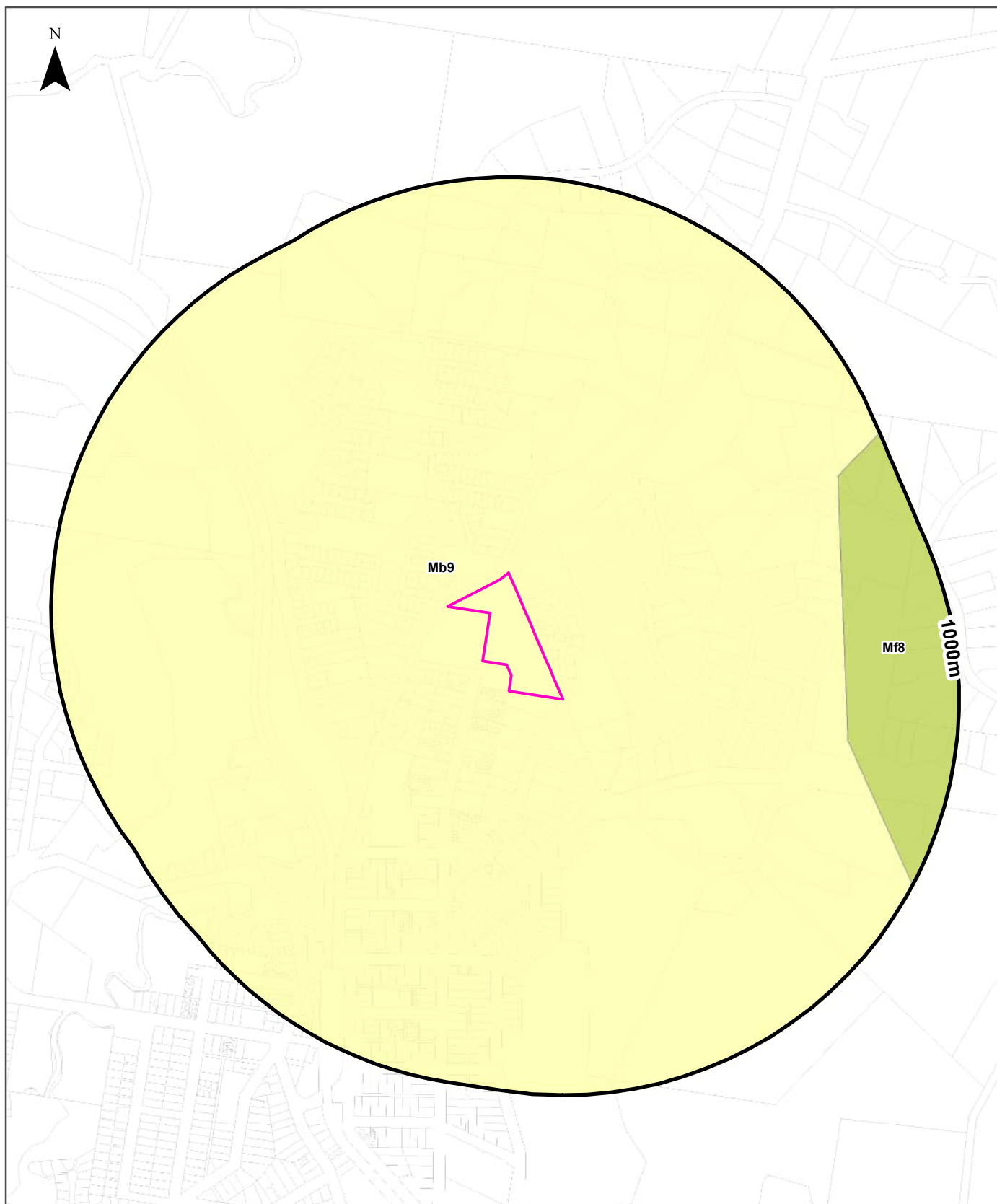
What are the Geological Structures within the dataset buffer?

Feature	Name	Description	Source	Scale
Fault		Fault Approximate	Map Sheet 9445 (GYMPIE) - 1973-76 PR Murphy, H Schwarzbock, LC Cranfield, CG Murray, R Rollason (GSQ); 1990-93 LC Cranfield, M Scott (GSQ)	25000

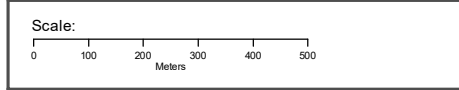
Geological Data Source : Detailed Surface Geology & Detailed Geological Structures
 © State of Queensland (Department of Natural Resources, Mines and Energy)

Atlas of Australian Soils

Lot 105 Sp118458, Cooroy, QLD 4563



Legend		Australian Soil Classification Orders					
Site Boundary	Anthrosol	Dermosol	Kandosol	Podosol	Tenosol	No Data	
Report Buffer	Calcarosol	Ferrosol	Kurosol	Rudosol	Vertosol		
Property Boundary	Chromosol	Hydrosol	Organosol	Sodosol	Lake		



Data Sources: Property Boundaries & Topographic Data:
 © State of Queensland (Department of Natural Resources, Mines and Energy) 2023

Coordinate System:
 GDA 1994 MGA Zone 56

Date: 15 February 2023

Soils

Lot 105 Sp118458, Cooroy, QLD 4563

Atlas of Australian Soils

Australian soil types within the dataset buffer:

Symbol	Soil Order	Map Unit Description	Distance
Mb9	Kandosol	Rolling to low hilly terrain of a weakly dissected sedimentary basin, with gently sloping convex hills below 350 ft above sea level and fairly flat platforms above 350 ft; some significant stream flats: chief soils are acid yellow leached earths (Gn2.74) and acid yellow earths (Gn2.64) on crests and slopes generally below 350 ft. Associated are (Gn2.91) and (Gn2.94) soils on broad stream flats, and (Gn2.14) soils on platforms (above 350 ft) and lower slopes. Other soils include: (Dy3.41) on lower hill slopes; (Gn3.81) and (Gn3.84) on some crests; (Gn2.21) on some stream terraces; and (Uc2.33) on low mounds along some stream flats.	0m
Mf8	Dermosol	Hilly dissected plateau remnants about 600 ft above sea level with included higher granitic peak at 1400 ft--generally convex hills with moderate slopes and marked fan development, narrow creek flats: chief soils are acid yellow friable earths (Gn3.71) and (Gn3.54) on slopes and fans. Associated are (Gn3.14) soils on fans and (Um4.1) soils on hill crests. Other soils include (Dy5.81) and (Gn3.81) along stream flats, probably (Uc2.12), (Gn2.14), and/or (Dr2.21) on granite, and (Gn3.11), (Ug5.14), and (Gn3.91) where remnants of basalt remain.	713m

Atlas of Australian Soils: CSIRO

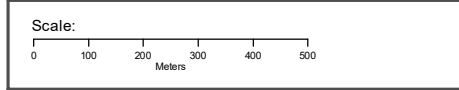
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Atlas of Australian Acid Sulfate Soils

Lot 105 Sp118458, Cooroy, QLD 4563



Legend			
Site Boundary	Probability of occurrence of Acid Sulfate Soils		
Report Buffer	A. High (>70%)	C. Extremely Low (1-5%)	No Data
Property Boundary	B. Low (6-70%)	D. No Chance (0%)	



Data Sources: Property Boundaries & Topographic Data:
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Coordinate System:
GDA 1994 MGA Zone 56

Date: 15 February 2023

Acid Sulfate Soils

Lot 105 Sp118458, Cooroy, QLD 4563

Atlas of Australian Acid Sulfate Soils

Atlas of Australian Acid Sulfate Soil categories within the dataset buffer:

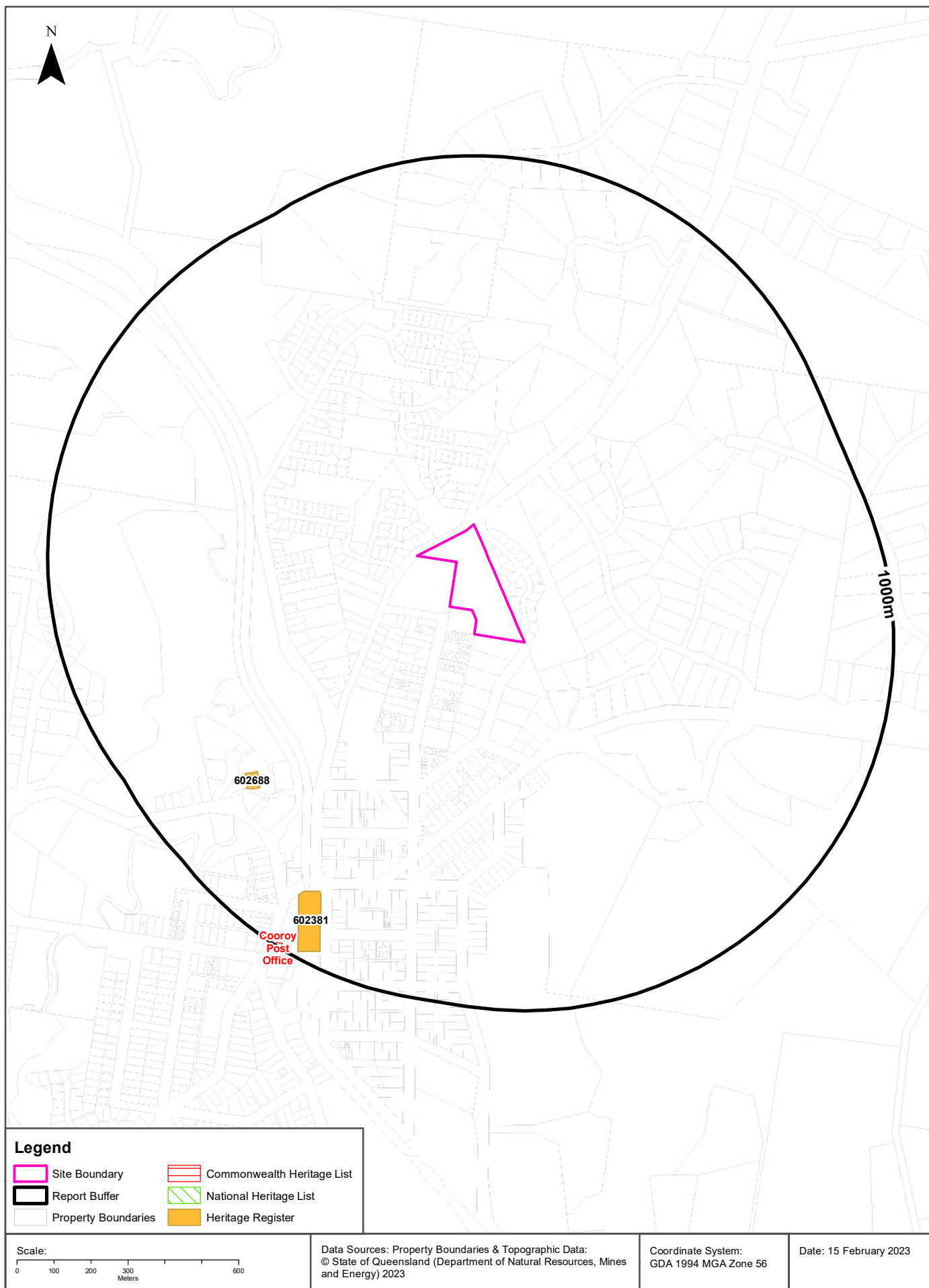
PROBCLASS	Description	Distance
C	Extremely low probability of occurrence. 1-5% chance of occurrence with occurrences in small localised areas.	0m
B	Low Probability of occurrence. 6-70% chance of occurrence.	711m

Atlas of Australian Acid Sulfate Soils Data Source: CSIRO

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Heritage

Lot 105 Sp118458, Cooroy, QLD 4563



Heritage

Lot 105 Sp118458, Cooroy, QLD 4563

Commonwealth Heritage List

What are the Commonwealth Heritage List Items located within the dataset buffer?

Place Id	Name	Address	Place File No	Class	Status	Register Date	Distance	Direction
106202	Cooroy Post Office	33 Maple St, Cooroy QLD	4/01/090/0020	Historic	Listed place	2012-08-22	986m	South West

Heritage Data Source: Australian Government Department of the Environment and Energy - Heritage Branch
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National Heritage List

What are the National Heritage List Items located within the dataset buffer?

Note. Please click on Place Id to activate a hyperlink to online website.

Place Id	Name	Address	Place File No	Class	Status	Register Date	Distance	Direction
N/A	No records in buffer							

Heritage Data Source: Australian Government Department of the Environment and Energy - Heritage Branch
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Heritage Register Boundaries

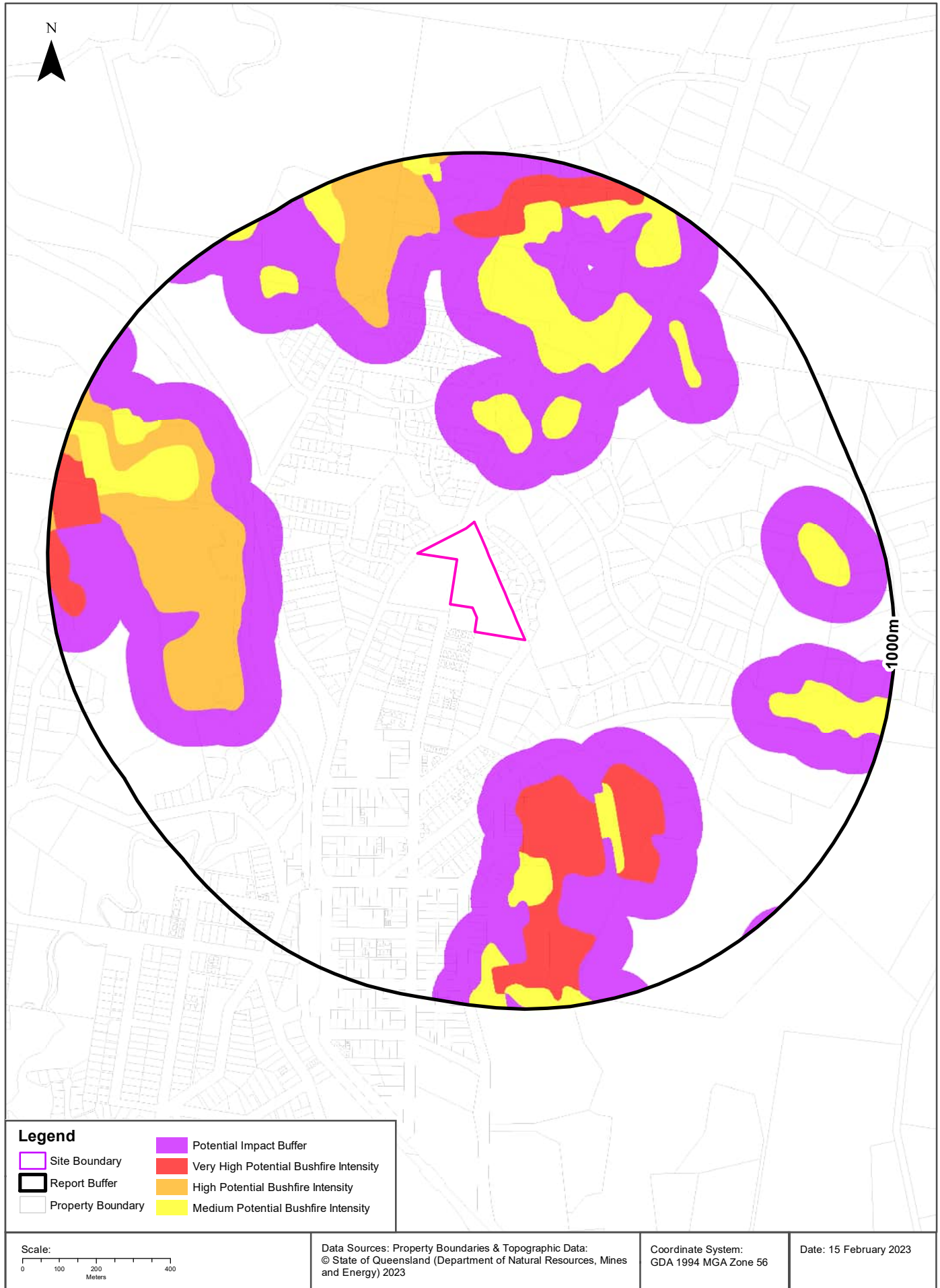
Heritage Register Boundaries within the dataset buffer:

Place ID	Name	Entry Date	Distance	Direction
602688	Cooroy Lower Mill Site Kiln	12/11/2008	685m	South West
602381	Cooroy Railway Station	8/14/2008	809m	South West

Heritage Register Boundaries Data: © State of Queensland (Department of Environment and Heritage Protection)
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Natural Hazards - Bushfire Prone Areas

Lot 105 Sp118458, Cooroy, QLD 4563



Natural Hazards

Lot 105 Sp118458, Cooroy, QLD 4563

Statewide Bushfire Prone Areas

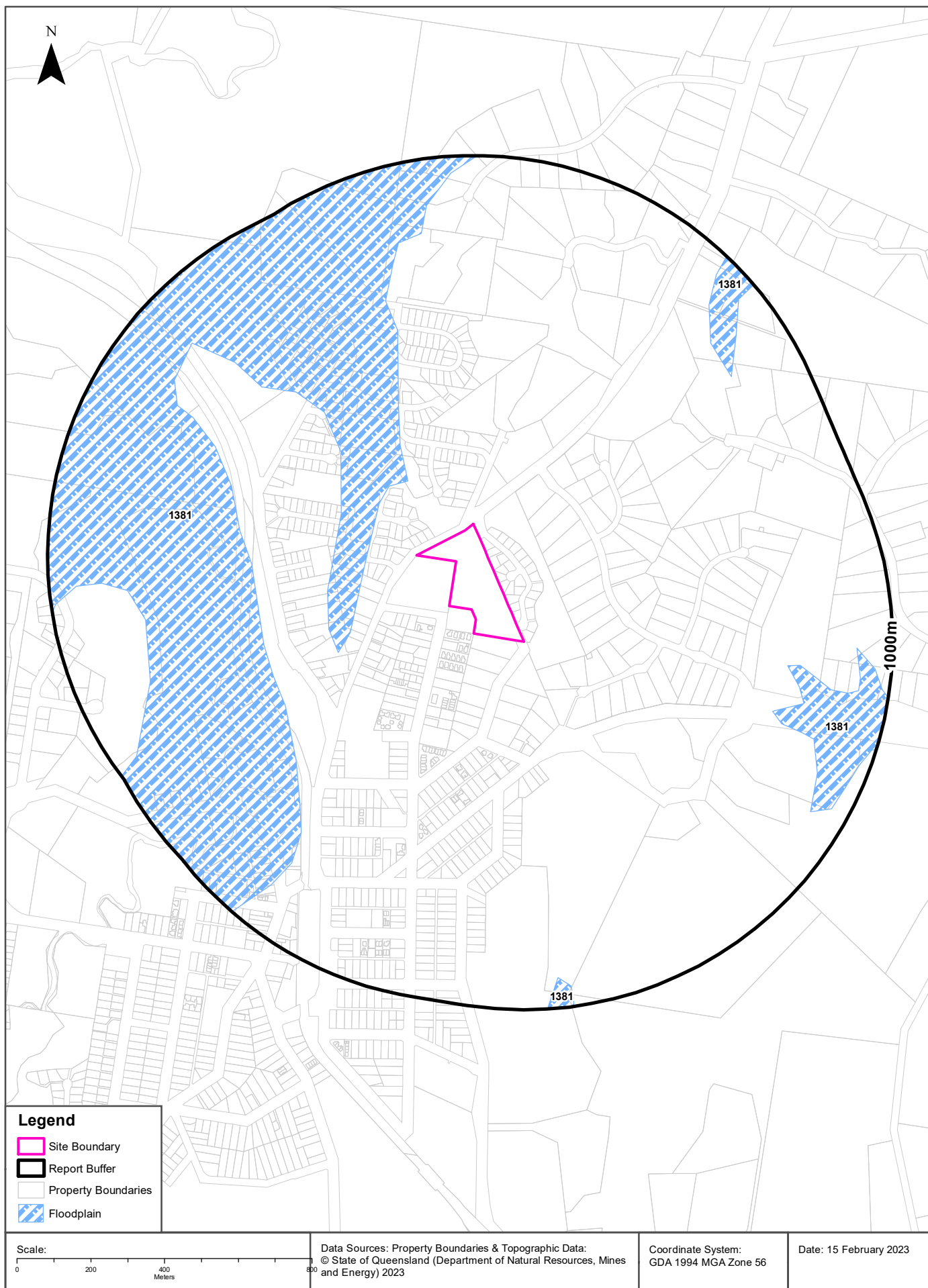
Bushfire Prone Areas within the dataset buffer:

Bushfire Prone Area Class	Version	Region	Distance	Direction
Potential Impact Buffer	July 2017	South East Queensland	114m	West
Medium Potential Bushfire Intensity	July 2017	South East Queensland	213m	North
Very High Potential Bushfire Intensity	July 2017	South East Queensland	374m	South
High Potential Bushfire Intensity	July 2017	South East Queensland	466m	West

Bushfire Prone Areas Data: © State of Queensland (Department of Natural Resources and Mines)
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Natural Hazards - Queensland Floodplain Assessment Overlay

Lot 105 Sp118458, Cooroy, QLD 4563



Natural Hazards

Lot 105 Sp118458, Cooroy, QLD 4563

Queensland Floodplain Assessment Overlay

QFAO within the dataset buffer:

Number	Name	Distance	Direction
1381	Upper Mary River	129m	West

Queensland Floodplain Assessment Overlay Data: © State of Queensland (Department of Natural Resources and Mines)
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Ecological Constraints

Lot 105 Sp118458, Cooroy, QLD 4563

Wetland Protection Area

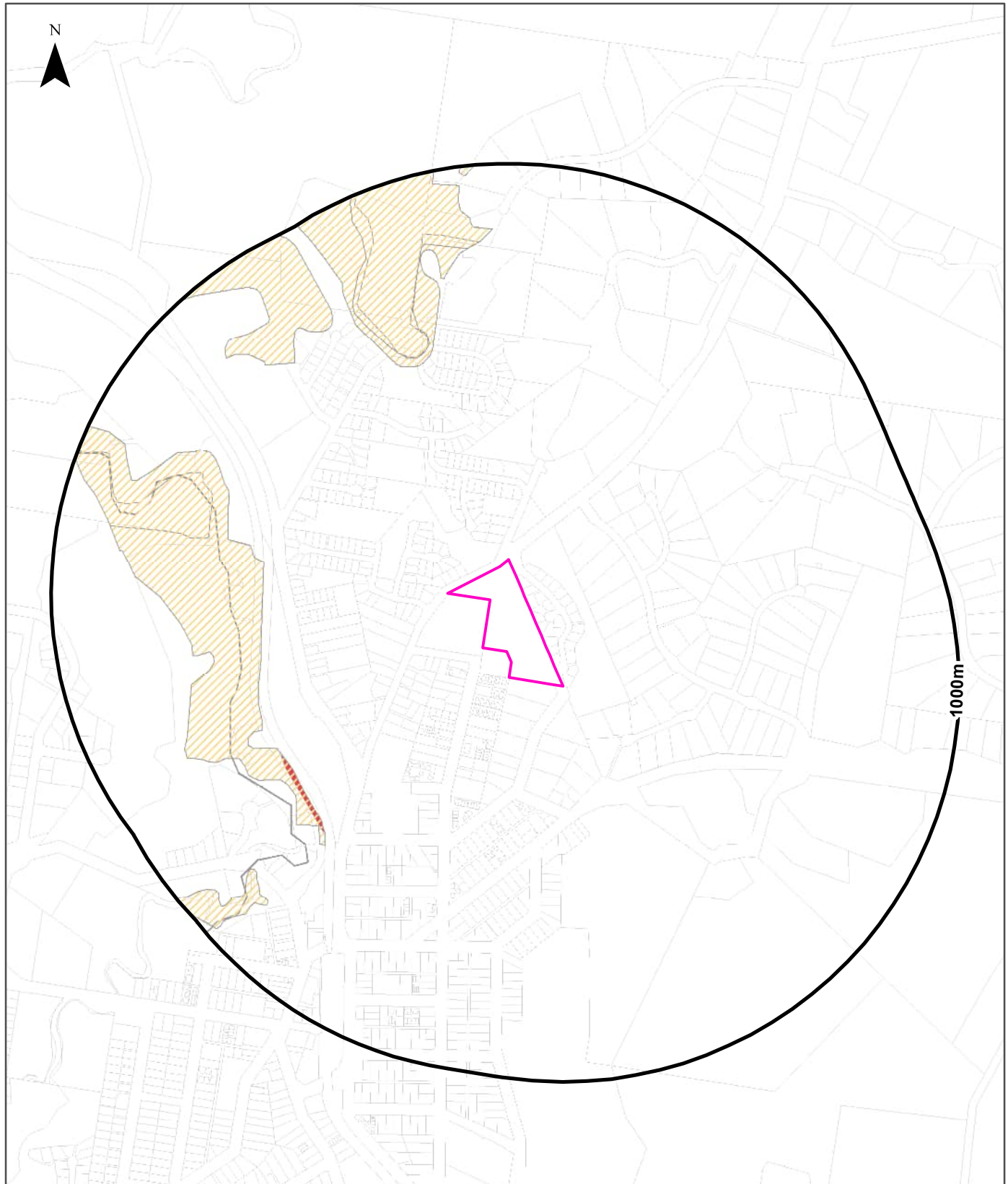
Wetland Protection Areas within the dataset buffer:

SPUNIT ID	Study Area	Wetland ID	Aqua Score	Sub-catchment Name	Sub-catchment ID	Distance	Direction
N/A	No records within buffer						

Wetland Protection Area Data Source: State of Queensland (Environment and Heritage Protection)
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Ecological Constraints - Groundwater Dependent Ecosystems Atlas

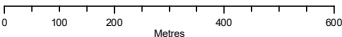
Lot 105 Sp118458, Cooroy, QLD 4563



Legend

Site Boundary	High potential GDE - from national assessment	Low potential GDE - from national assessment
Report Buffer	High potential GDE - from regional studies	Low potential GDE - from regional studies
Property Boundaries	Moderate potential GDE - from national assessment	Known GDE - from regional studies
	Moderate potential GDE - from regional studies	Unclassified potential GDE - from national assessment
		Unclassified potential GDE - from regional studies

Scale:



Data Sources: Property Boundaries & Topographic Data:
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Coordinate System:
GDA 1994 MGA Zone 56

Date: 15 February 2023

Ecological Constraints

Lot 105 Sp118458, Cooroy, QLD 4563

Groundwater Dependent Ecosystems Atlas

GDEs within the dataset buffer:

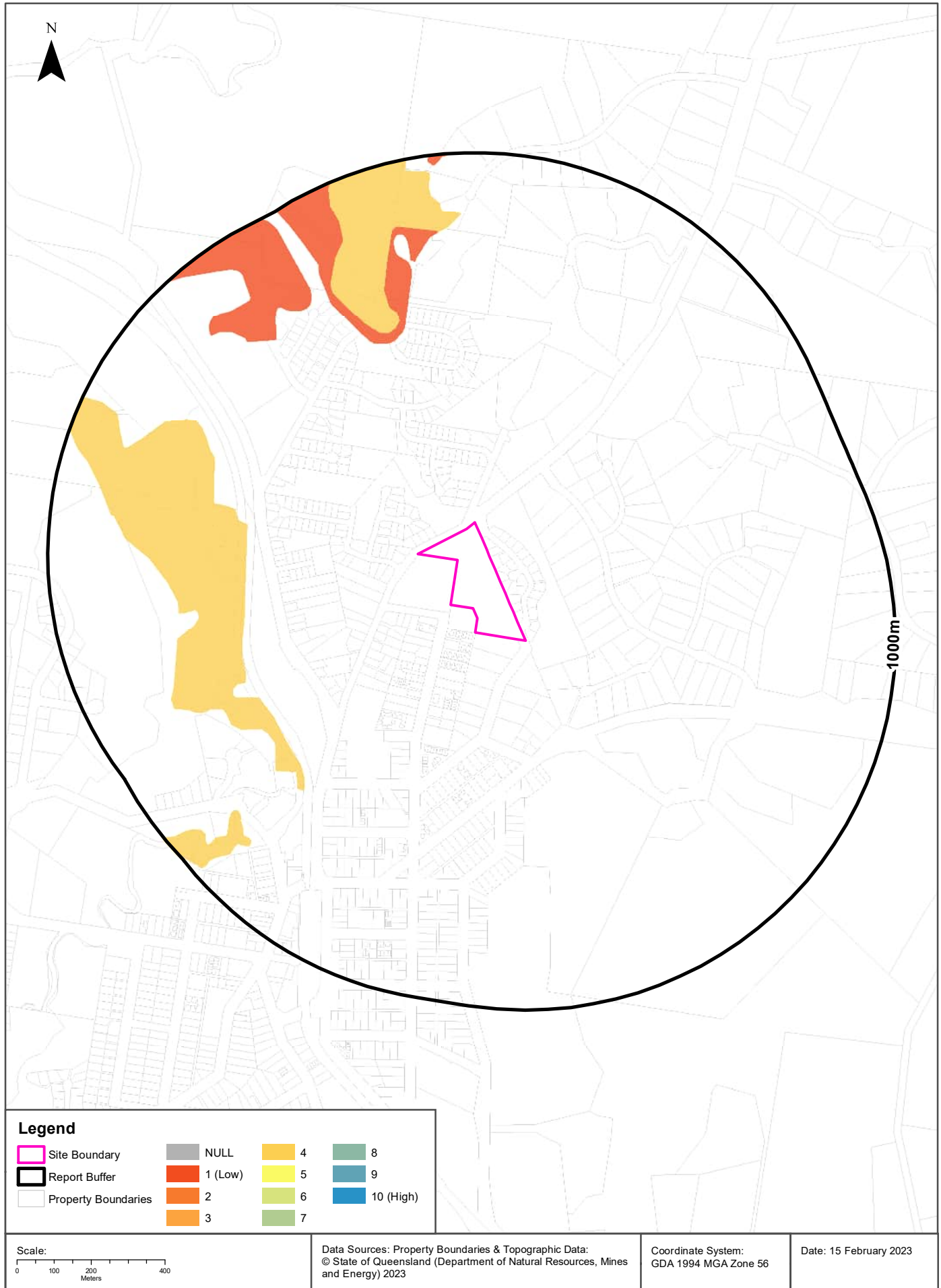
Type	GDE Potential	Geomorphology	Ecosystem Type	Aquifer Geology	Distance
Terrestrial	Moderate potential GDE - from regional studies	Mountain ranges, rugged and dissected on granitic and metamorphic rocks in east, broader uplands and upland basins, partly on sedimentary rocks, in west.	Riparian vegetation		466m
Terrestrial	Moderate potential GDE - from regional studies	Mountain ranges, rugged and dissected on granitic and metamorphic rocks in east, broader uplands and upland basins, partly on sedimentary rocks, in west.	Vegetation		466m
Aquatic	High potential GDE - from national assessment	Eastern Murchison	SALT LAKE		533m

Groundwater Dependent Ecosystems Atlas Data Source: The Bureau of Meteorology

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Ecological Constraints - Inflow Dependent Ecosystems Likelihood

Lot 105 Sp118458, Cooroy, QLD 4563



Ecological Constraints

Lot 105 Sp118458, Cooroy, QLD 4563

Inflow Dependent Ecosystems Likelihood

IDEs within the dataset buffer:

Type	IDE Likelihood	Geomorphology	Ecosystem Type	Aquifer Geology	Distance
Terrestrial	4	Mountain ranges, rugged and dissected on granitic and metamorphic rocks in east, broader uplands and upland basins, partly on sedimentary rocks, in west.	Riparian vegetation		466m
Terrestrial	1	Mountain ranges, rugged and dissected on granitic and metamorphic rocks in east, broader uplands and upland basins, partly on sedimentary rocks, in west.	Riparian vegetation		540m

Inflow Dependent Ecosystems Likelihood Data Source: The Bureau of Meteorology
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Where Lotsearch has had to georeference features from supplied addresses, a location confidence has been assigned to the data record. This indicates a confidence to the positional accuracy of the feature. Where applicable, a code is given under the field heading "LC" or "LocConf". These codes lookup to the following location confidences:

LC Code	Location Confidence
Premise match	Georeferenced to the site location / premise or part of site
General area or suburb match	Georeferenced with the confidence of the general/approximate area
Road match	Georeferenced to the road or rail
Road intersection	Georeferenced to the road intersection
Feature is a buffered point	Feature is a buffered point
Land adjacent to geocoded site	Land adjacent to Georeferenced Site
Network of features	Georeferenced to a network of features

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Appendix E

State Government Information



Queensland Government

Department of Environment and Science

Environmental Reports

Matters of State Environmental Significance

For the selected area of interest
Lot: 105 Plan: SP118458

Environmental Reports - General Information

The Environmental Reports portal provides for the assessment of selected matters of interest relevant to a user specified location, or area of interest (AOI). All area and derivative figures are relevant to the extent of matters of interest contained within the AOI unless otherwise stated. Please note, if a user selects an AOI via the "central coordinates" option, the resulting assessment area encompasses an area extending for a 2km radius from the point of interest.

All area and area derived figures included in this report have been calculated via reprojecting relevant spatial features to Albers equal-area conic projection (central meridian = 146, datum Geocentric Datum of Australia 1994). As a result, area figures may differ slightly if calculated for the same features using a different co-ordinate system.

Figures in tables may be affected by rounding.

The matters of interest reported on in this document are based upon available state mapped datasets. Where the report indicates that a matter of interest is not present within the AOI (e.g. where area related calculations are equal to zero, or no values are listed), this may be due either to the fact that state mapping has not been undertaken for the AOI, that state mapping is incomplete for the AOI, or that no values have been identified within the site.

The information presented in this report should be considered as a guide only and field survey may be required to validate values on the ground.

Please direct queries about these reports to: Planning.Support@des.qld.gov.au

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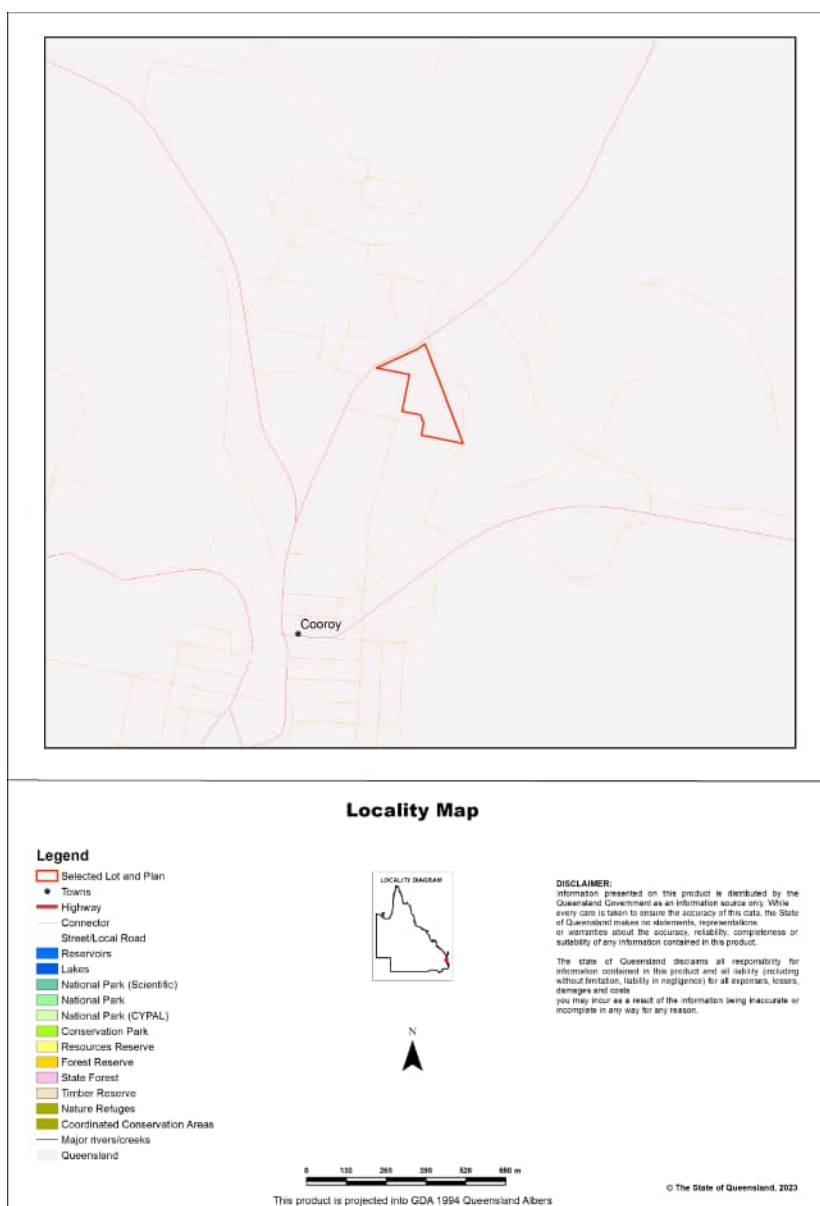
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Assessment Area Details

The following table provides an overview of the area of interest (AOI) with respect to selected topographic and environmental values.

Table 1: Summary table, details for AOI Lot: 105 Plan: SP118458

Size (ha)	3.54
Local Government(s)	Noosa Shire
Bioregion(s)	Southeast Queensland
Subregion(s)	Sunshine Coast - Gold Coast Lowlands
Catchment(s)	Mary



Matters of State Environmental Significance (MSES)

MSES Categories

Queensland's State Planning Policy (SPP) includes a biodiversity State interest that states:

'The sustainable, long-term conservation of biodiversity is supported. Significant impacts on matters of national or state environmental significance are avoided, or where this cannot be reasonably achieved; impacts are minimised and residual impacts offset.'

The MSES mapping product is a guide to assist planning and development assessment decision-making. Its primary purpose is to support implementation of the SPP biodiversity policy. While it supports the SPP, the mapping does not replace the regulatory mapping or environmental values specifically called up under other laws or regulations. Similarly, the SPP biodiversity policy does not override or replace specific requirements of other Acts or regulations.

The SPP defines matters of state environmental significance as:

- Protected areas (including all classes of protected area except coordinated conservation areas) under the *Nature Conservation Act 1992* ;
- Marine parks and land within a 'marine national park', 'conservation park', 'scientific research', 'preservation' or 'buffer' zone under the *Marine Parks Act 2004* ;
- Areas within declared fish habitat areas that are management A areas or management B areas under the Fisheries Regulation 2008;
- Threatened wildlife under the *Nature Conservation Act 1992* and special least concern animals under the Nature Conservation (Wildlife) Regulation 2006;
- Regulated vegetation under the *Vegetation Management Act 1999* that is:
 - Category B areas on the regulated vegetation management map, that are 'endangered' or 'of concern' regional ecosystems;
 - Category C areas on the regulated vegetation management map that are 'endangered' or 'of concern' regional ecosystems;
 - Category R areas on the regulated vegetation management map;
 - Regional ecosystems that intersect with watercourses identified on the vegetation management watercourse and drainage feature map;
 - Regional ecosystems that intersect with wetlands identified on the vegetation management wetlands map;
- Strategic Environmental Areas under the *Regional Planning Interests Act 2014* ;
- Wetlands in a wetland protection area of wetlands of high ecological significance shown on the Map of Queensland Wetland Environmental Values under the Environment Protection Regulation 2019;
- Wetlands and watercourses in high ecological value waters defined in the Environmental Protection (Water) Policy 2009, schedule 2;
- Legally secured offset areas.

MSES Values Present

The MSES values that are present in the area of interest are summarised in the table below:

Table 2: Summary of MSES present within the AOI

1a Protected Areas- estates	0.0 ha	0.0 %
1b Protected Areas- nature refuges	0.0 ha	0.0 %
1c Protected Areas- special wildlife reserves	0.0 ha	0.0 %
2 State Marine Parks- highly protected zones	0.0 ha	0.0 %
3 Fish habitat areas (A and B areas)	0.0 ha	0.0 %
4 Strategic Environmental Areas (SEA)	0.0 ha	0.0 %
5 High Ecological Significance wetlands on the map of Referable Wetlands	0.0 ha	0.0 %
6a High Ecological Value (HEV) wetlands	0.0 ha	0.0 %
6b High Ecological Value (HEV) waterways	0.0 km	Not applicable
7a Threatened (endangered or vulnerable) wildlife	0.0 ha	0.0 %
7b Special least concern animals	0.0 ha	0.0 %
7c i Koala habitat area - core (SEQ)	0.0 ha	0.0 %
7c ii Koala habitat area - locally refined (SEQ)	0.0 ha	0.0 %
7d Sea turtle nesting areas	0.0 km	Not applicable
8a Regulated Vegetation - Endangered/Of concern in Category B (remnant)	0.0 ha	0.0 %
8b Regulated Vegetation - Endangered/Of concern in Category C (regrowth)	0.0 ha	0.0 %
8c Regulated Vegetation - Category R (GBR riverine regrowth)	0.11 ha	3.1%
8d Regulated Vegetation - Essential habitat	0.0 ha	0.0 %
8e Regulated Vegetation - intersecting a watercourse	0.0 km	Not applicable
8f Regulated Vegetation - within 100m of a Vegetation Management Wetland	0.0 ha	0.0 %
9a Legally secured offset areas- offset register areas	0.0 ha	0.0 %
9b Legally secured offset areas- vegetation offsets through a Property Map of Assessable Vegetation	0.0 ha	0.0 %

Additional Information with Respect to MSES Values Present

MSES - State Conservation Areas

1a. Protected Areas - estates

(no results)

1b. Protected Areas - nature refuges

(no results)

1c. Protected Areas - special wildlife reserves

(no results)

2. State Marine Parks - highly protected zones

(no results)

3. Fish habitat areas (A and B areas)

(no results)

Refer to **Map 1 - MSES - State Conservation Areas** for an overview of the relevant MSES.

MSES - Wetlands and Waterways

4. Strategic Environmental Areas (SEA)

(no results)

5. High Ecological Significance wetlands on the Map of Queensland Wetland Environmental Values

(no results)

6a. Wetlands in High Ecological Value (HEV) waters

(no results)

6b. Waterways in High Ecological Value (HEV) waters

(no results)

Refer to **Map 2 - MSES - Wetlands and Waterways** for an overview of the relevant MSES.

MSES - Species

7a. Threatened (endangered or vulnerable) wildlife

Not applicable

7b. Special least concern animals

Not applicable

7c i. Koala habitat area - core (SEQ)

Not applicable

7c ii. Koala habitat area - locally refined (SEQ)

Not applicable

7d. Wildlife habitat (sea turtle nesting areas)

Not applicable

Threatened (endangered or vulnerable) wildlife habitat suitability models

Species	Common name	NCA status	Presence
<i>Boronia keysii</i>		V	None
<i>Calyptorhynchus lathami</i>	Glossy black cockatoo	V	None
<i>Casuarium casuarium johnsonii</i>	Sthn population cassowary	E	None
<i>Crinia tinnula</i>	Wallum froglet	V	None
<i>Denisonia maculata</i>	Ornamental snake	V	None
<i>Litoria freycineti</i>	Wallum rocketfrog	V	None
<i>Litoria olongburensis</i>	Wallum sedgefrog	V	None
<i>Macadamia integrifolia</i>		V	None
<i>Macadamia ternifolia</i>		V	None
<i>Macadamia tetraphylla</i>		V	None
<i>Melaleuca irbyana</i>		E	None
<i>Petaurus gracilis</i>	Mahogany Glider	E	None
<i>Petrogale persephone</i>	Proserpine rock-wallaby	E	None
<i>Pezoporus wallicus wallicus</i>	Eastern ground parrot	V	None
<i>Phascolarctos cinereus</i>	Koala - outside SEQ*	E	None
<i>Taudactylus pleione</i>	Kroombit tinkerfrog	E	None
<i>Xeromys myoides</i>	Water Mouse	V	None

*For koala model, this includes areas outside SEQ. Check 7c SEQ koala habitat for presence/absence.

Threatened (endangered or vulnerable) wildlife species records

(no results)

Special least concern animal species records

(no results)

Shorebird habitat (critically endangered/endangered/vulnerable)

Not applicable

Shorebird habitat (special least concern)

Not applicable

**Nature Conservation Act 1992 (NCA) Status- Endangered (E), Vulnerable (V) or Special Least Concern Animal (SL). Environment Protection and Biodiversity Conservation Act 1999 (EPBC) status: Critically Endangered (CE) Endangered (E), Vulnerable (V)*

Migratory status (M) - China and Australia Migratory Bird Agreement (C), Japan and Australia Migratory Bird Agreement (J), Republic of Korea and Australia Migratory Bird Agreement (R), Bonn Migratory Convention (B), Eastern Flyway (E)

To request a species list for an area, or search for a species profile, access Wildlife Online at:

<https://www.qld.gov.au/environment/plants-animals/species-list/>

Refer to **Map 3a - MSES - Species - Threatened (endangered or vulnerable) wildlife and special least concern animals**, **Map 3b - MSES - Species - Koala habitat area (SEQ)** and **Map 3c - MSES - Wildlife habitat (sea turtle nesting areas)** for an overview of the relevant MSES.

MSES - Regulated Vegetation

For further information relating to regional ecosystems in general, go to:

<https://www.qld.gov.au/environment/plants-animals/plants/ecosystems/>

For a more detailed description of a particular regional ecosystem, access the regional ecosystem search page at:

<https://environment.ehp.qld.gov.au/regional-ecosystems/>

8a. Regulated Vegetation - Endangered/Of concern in Category B (remnant)

Not applicable

8b. Regulated Vegetation - Endangered/Of concern in Category C (regrowth)

Not applicable

8c. Regulated Vegetation - Category R (GBR riverine regrowth)

Regulated vegetation map category	Map number
R	9445

8d. Regulated Vegetation - Essential habitat

Not applicable

8e. Regulated Vegetation - intersecting a watercourse**

(no results)

8f. Regulated Vegetation - within 100m of a Vegetation Management wetland

Not applicable

Refer to **Map 4 - MSES - Regulated Vegetation** for an overview of the relevant MSES.

MSES - Offsets

9a. Legally secured offset areas - offset register areas

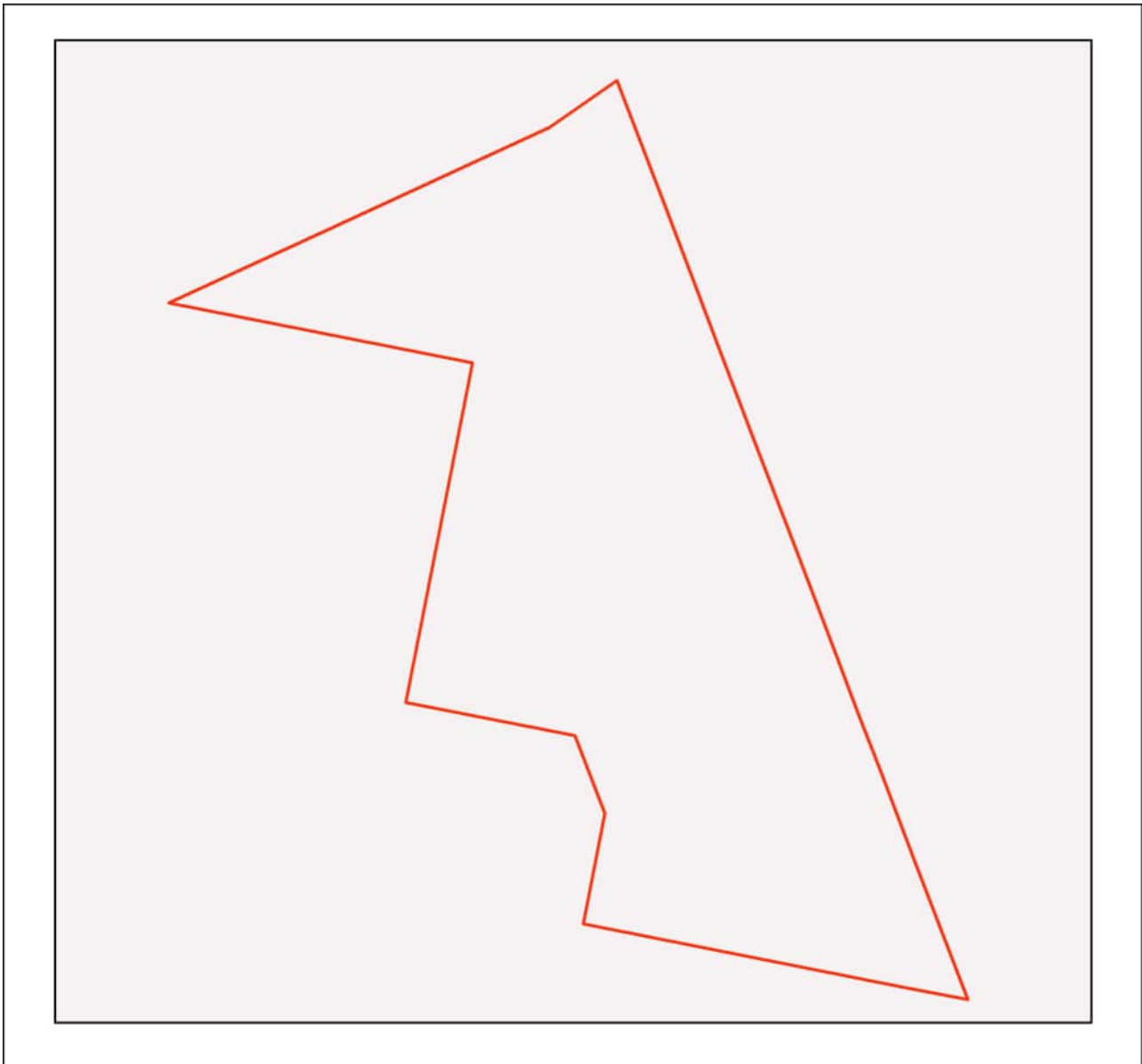
(no results)

9b. Legally secured offset areas - vegetation offsets through a Property Map of Assessable Vegetation

(no results)





Refer to **Map 5 - MSES - Offset Areas** for an overview of the relevant MSES.

Map 1 - MSES - State Conservation Areas



MSES - State Conservation Areas

Area of Interest

-  Selected Lot and Plan
-  Towns
-  Freeways/Highways
-  Secondary roads
-  Major rivers/creeks
-  Protected area (estates, nature refuges, special wildlife reserves)
-  Declared fish habitat area (A and B areas)
-  Marine park (highly protected)



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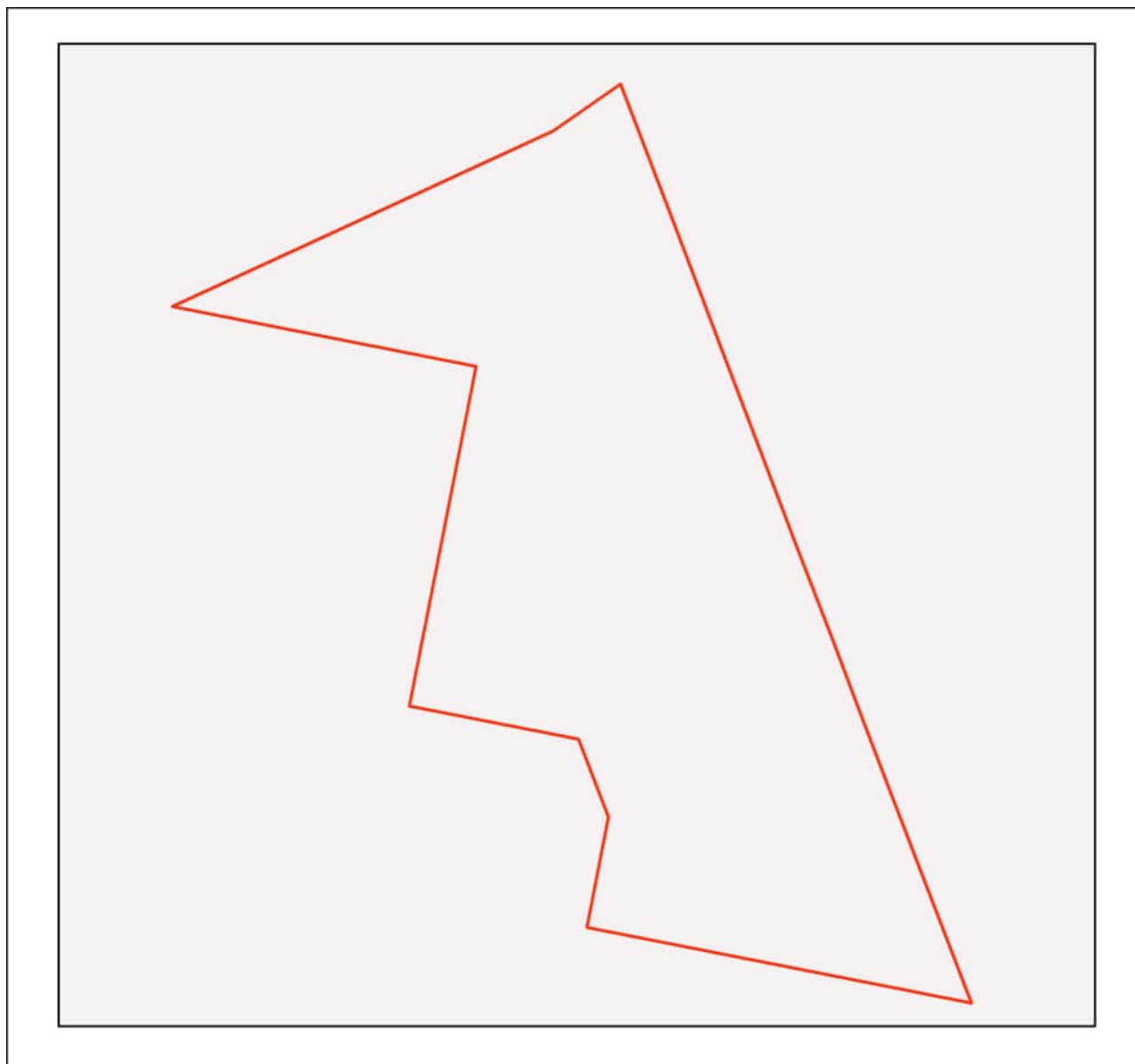
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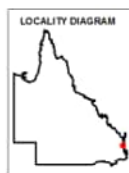
Map 2 - MSES - Wetlands and Waterways



MSES - Wetlands and Waterways

Area of Interest

- Selected Lot and Plan
- ▲ Towns
- Freeways/Highways
- Secondary roads
- Major rivers/creeks
- Declared high ecological value waters (watercourse)
- Strategic environmental area (designated precinct)
- Declared high ecological value waters (wetland)
- High ecological significance wetlands



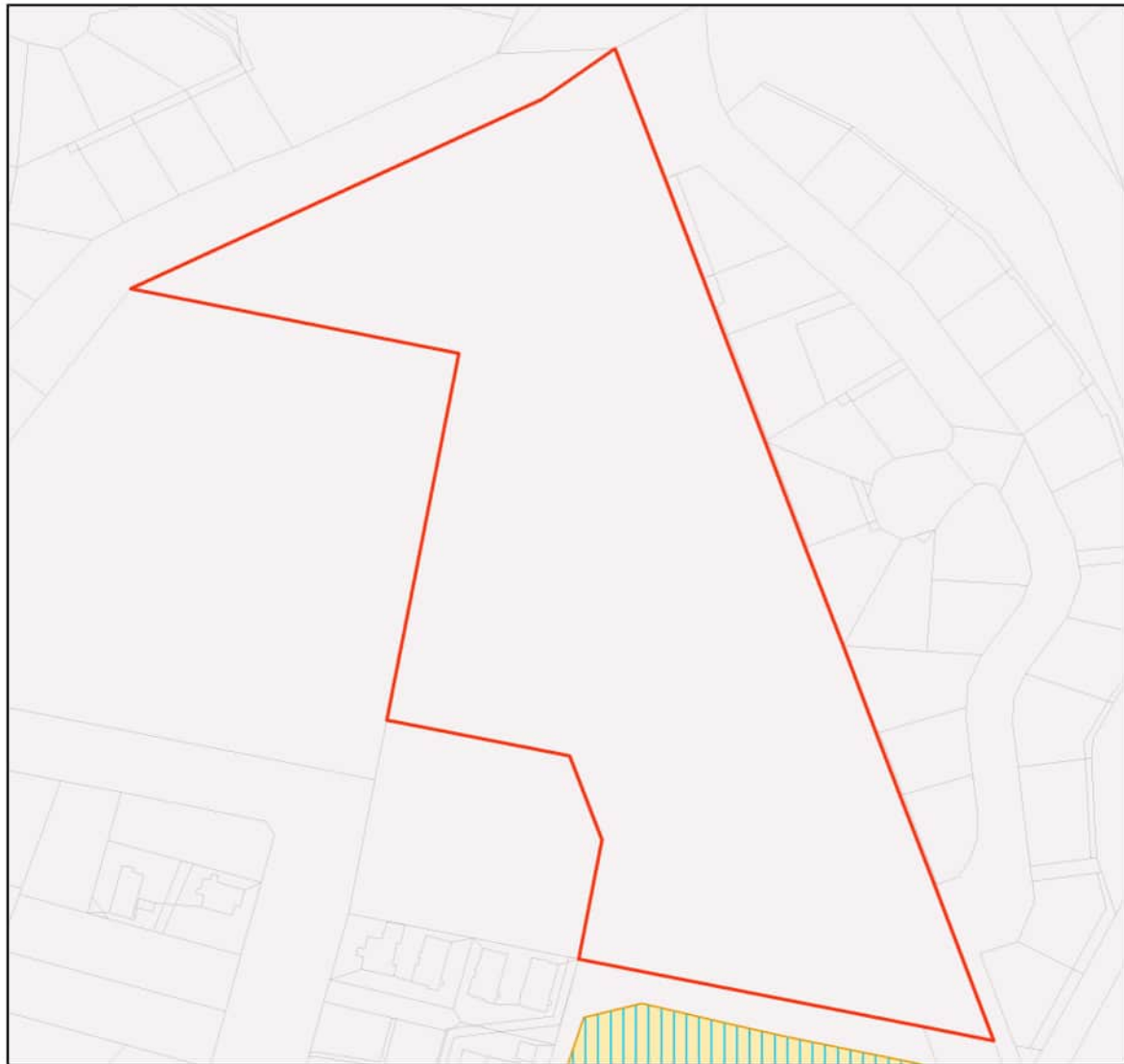
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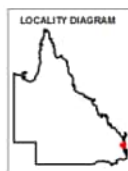
Map 3a - MSES - Species - Threatened (endangered or vulnerable) wildlife and special least concern animals



MSES - Species Threatened (endangered or vulnerable) wildlife and special least concern animals

Area of Interest

- Selected Lot and Plan
- Towns
- Freeways/Highways
- Secondary roads
- Major rivers/creeks
- Wildlife habitat (special least concern)
- Wildlife habitat (endangered or vulnerable)



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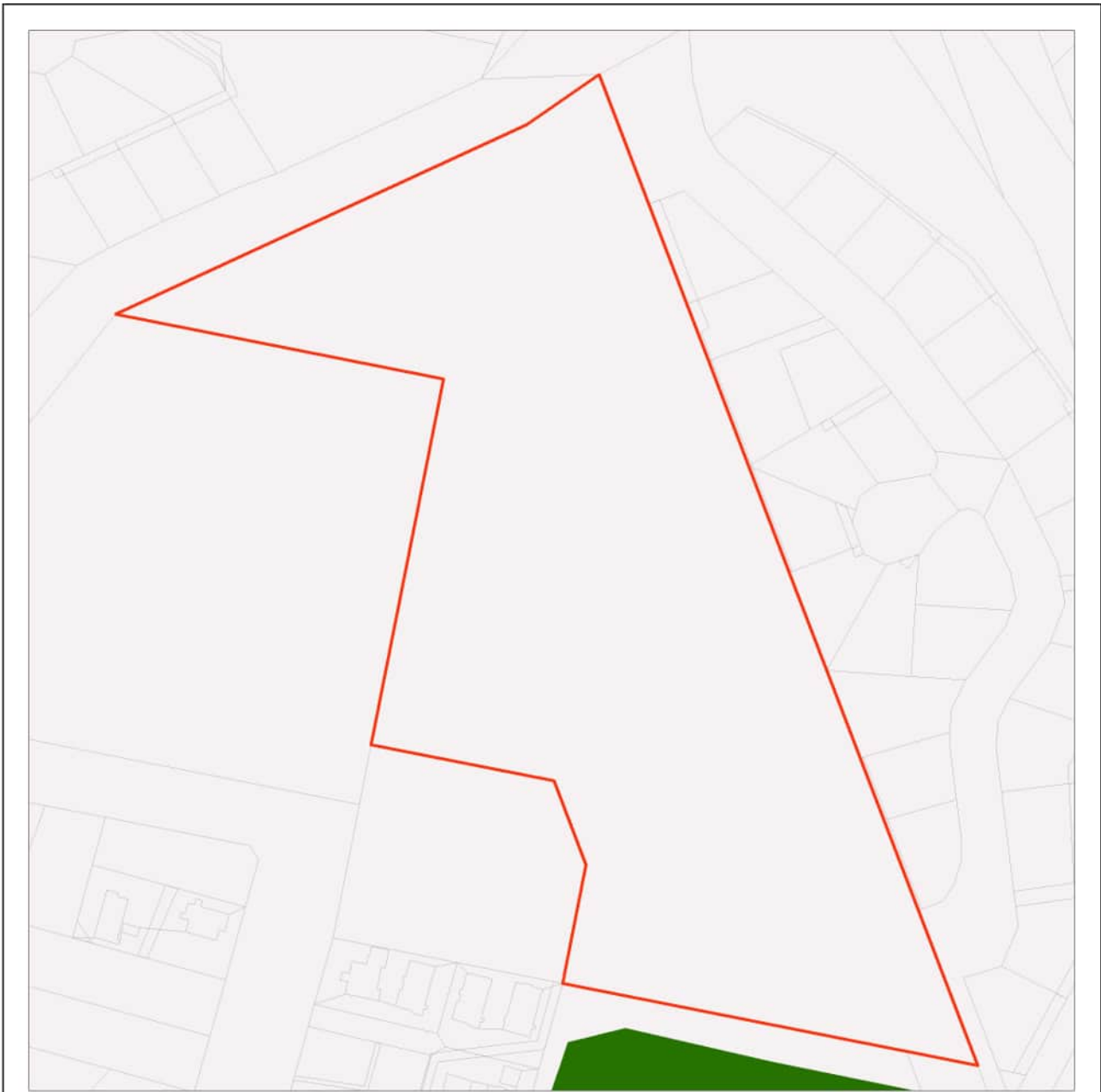
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Map 3b - MSES - Species - Koala habitat area (SEQ)



MSES - Species Koala habitat area (SEQ)

Area of Interest

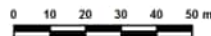
- Selected Lot and Plan
- Towns
- Freeways/Highways
- Secondary roads
- Major rivers/creeks
- Koala habitat area (core)
- Koala habitat area (locally refined)



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The represented layers for SEQ 'koala habitat area-core' and 'koala habitat area- locally refined' in MSES are sourced directly from the regulatory mapping under the Nature Conservation (Koala) Conservation Plan 2017. Whilst every effort is made to ensure the information remains current, there may be delays between updating versions. Please refer to the original mapping for the most recent version. See <https://environment.des.qld.gov.au/wildlife/animals/living-with/koalas/mapping>

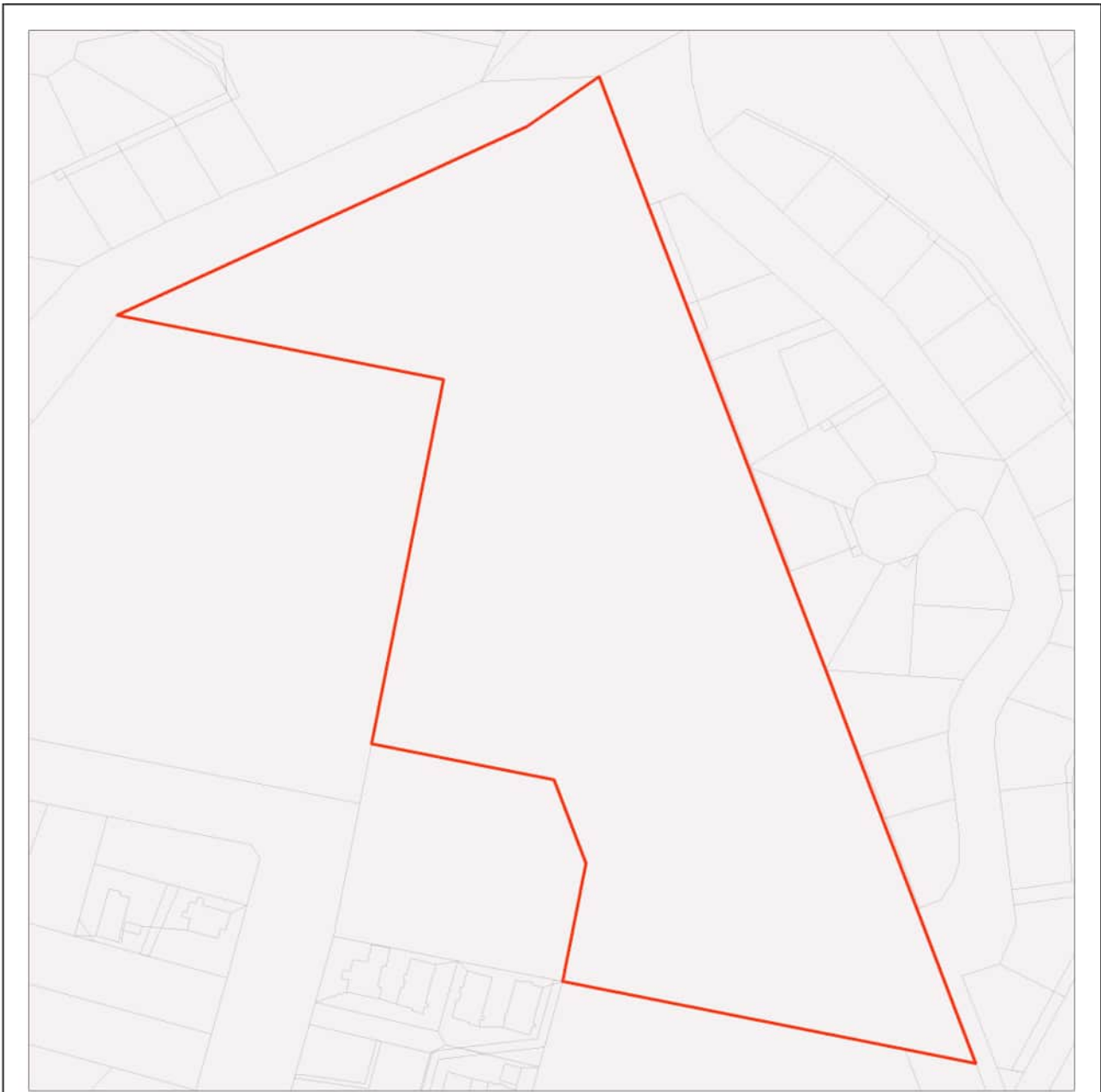
The koala habitat mapping within South East Queensland uses regional ecosystem linework compiled at a scale varying from 1:25,000 to 1:100,000. Linework should be used as a guide only. The positional accuracy of regional ecosystem data mapped at a scale of 1:100,000 is +/- 100 metres.



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Map 3c - MSES - Wildlife habitat (sea turtle nesting areas)



MSES - Wildlife habitat (sea turtle nesting areas)

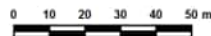
Area of Interest

- Selected Lot and Plan
- Towns
- Freeways/Highways
- Secondary roads
- Major rivers/creeks
- Wildlife habitat (sea turtle nesting areas)

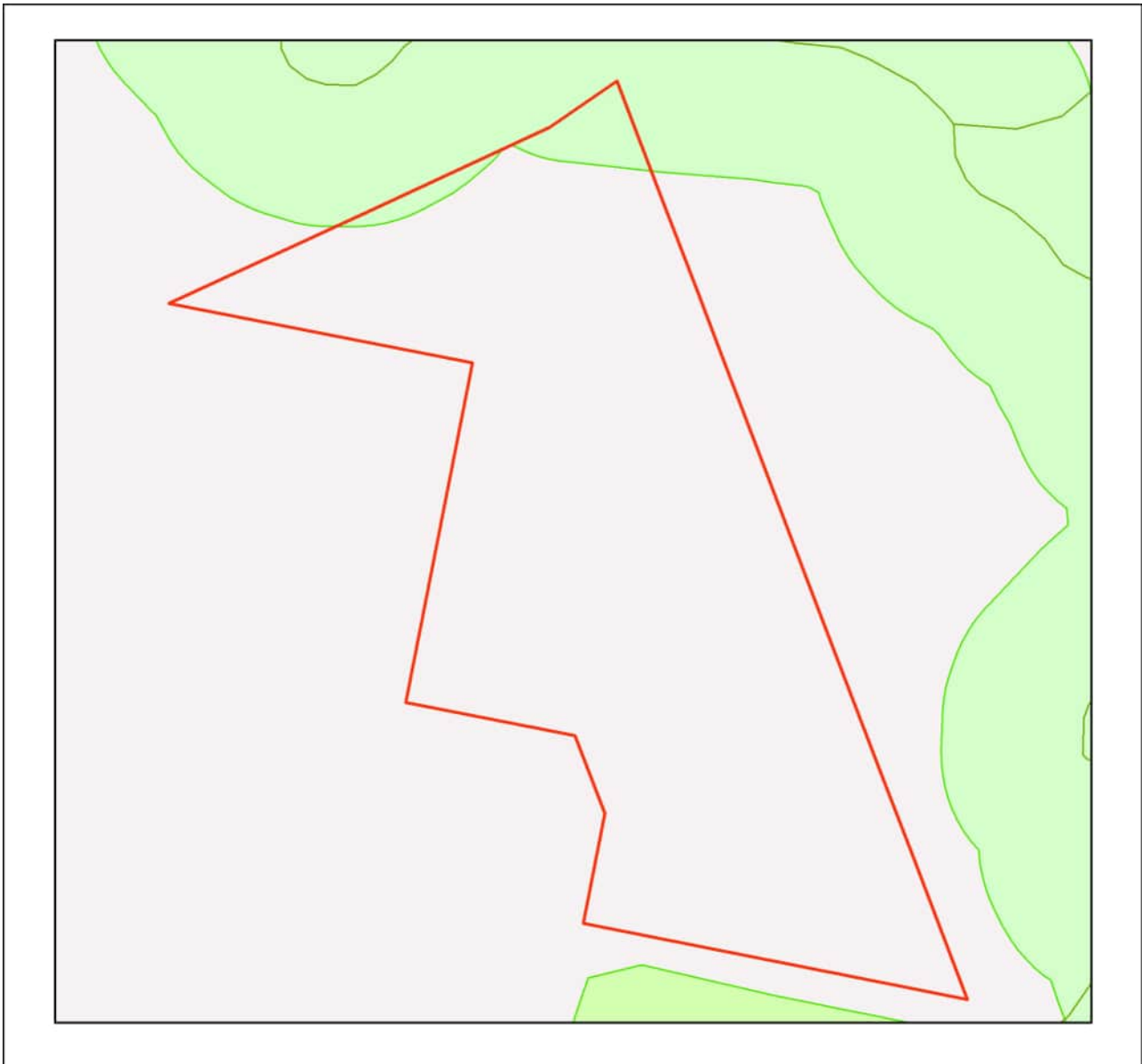


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MSES mapping of sea turtle nesting areas identifies beaches where the recorded number of turtle nests are over 1% of the turtle species or genetic stock. The linework is also deliberately extended along nearby rocky coastlines and headlands to recognise that significant numbers of nesting adults and hatchlings can become disoriented by light pollution from development on rocky coastlines and headlands while navigating offshore from nesting beaches.



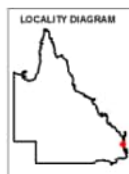
Map 4 - MSES - Regulated Vegetation



MSES - Regulated Vegetation

Area of Interest

- Selected Lot and Plan
- ▲ Towns
- Freeways/Highways
- Secondary roads
- Major rivers/creeks
- Regulated vegetation (intersecting a watercourse)
- Regulated vegetation (100m from wetland)
- Regulated vegetation (category B - endangered or of concern)
- Regulated vegetation (category C - endangered or of concern)
- Regulated vegetation (category R - GBR riverine)
- Regulated vegetation (essential habitat)



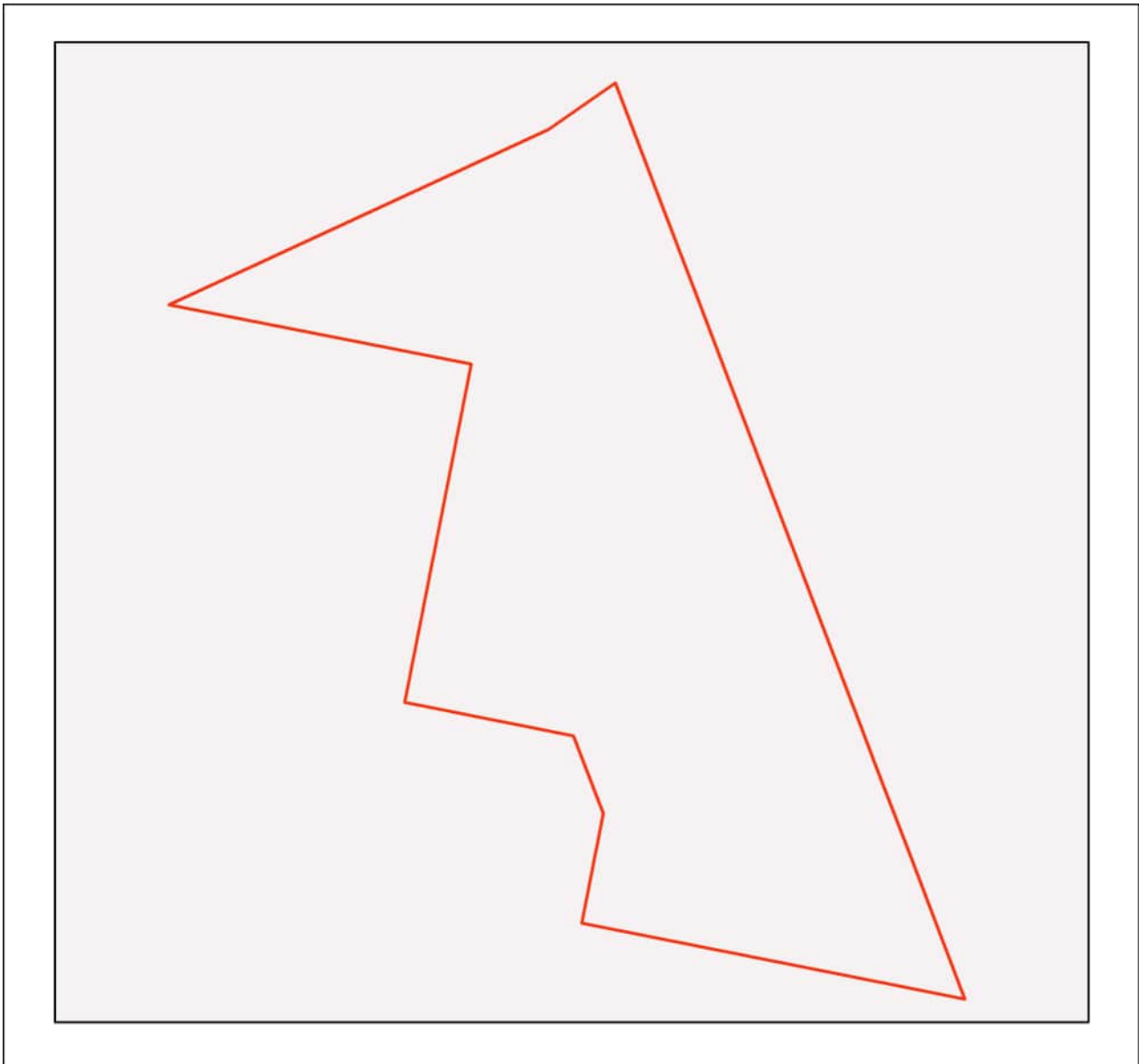
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
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Map 5 - MSES - Offset Areas



MSES - Offsets

Area of Interest

-  Selected Lot and Plan
-  Towns
-  Freeways/Highways
-  Secondary roads
-  Major rivers/creeks
-  Legally secured offset area (offset register)
-  Legally secured offset area (vegetation offsets)



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Appendices

Appendix 1 - Matters of State Environmental Significance (MSES) methodology

MSES mapping is a regional-scale representation of the definition for MSES under the State Planning Policy (SPP). The compiled MSES mapping product is a guide to assist planning and development assessment decision-making. Its primary purpose is to support implementation of the SPP biodiversity policy. While it supports the SPP, the mapping does not replace the regulatory mapping or environmental values specifically called up under other laws or regulations. Similarly, the SPP biodiversity policy does not override or replace specific requirements of other Acts or regulations.

The Queensland Government's "Method for mapping - matters of state environmental significance for use in land use planning and development assessment" can be downloaded from:

<http://www.ehp.qld.gov.au/land/natural-resource/method-mapping-mses.html> .

Appendix 2 - Source Data

The datasets listed below are available on request from:

<http://qldspatial.information.qld.gov.au/catalogue/custom/index.page>

- Matters of State environmental significance

Note: MSES mapping is not based on new or unique data. The primary mapping product draws data from a number of underlying environment databases and geo-referenced information sources. MSES mapping is a versioned product that is updated generally on a twice-yearly basis to incorporate the changes to underlying data sources. Several components of MSES mapping made for the current version may differ from the current underlying data sources. To ensure accuracy, or proper representation of MSES values, it is strongly recommended that users refer to the underlying data sources and review the current definition of MSES in the State Planning Policy, before applying the MSES mapping.

Individual MSES layers can be attributed to the following source data available at QSpatial:

MSES layers	current QSpatial data (http://qspatial.information.qld.gov.au)
Protected Areas-Estates, Nature Refuges, Special Wildlife Reserves	- Protected areas of Queensland - Nature Refuges - Queensland - Special Wildlife Reserves- Queensland
Marine Park-Highly Protected Zones	Moreton Bay marine park zoning 2008
Fish Habitat Areas	Queensland fish habitat areas
Strategic Environmental Areas-designated	Regional Planning Interests Act - Strategic Environmental Areas
HES wetlands	Map of Queensland Wetland Environmental Values
Wetlands in HEV waters	HEV waters: - EPP Water intent for waters Source Wetlands: - Queensland Wetland Mapping (Current version 5) Source Watercourses: - Vegetation management watercourse and drainage feature map (1:100000 and 1:250000)
Wildlife habitat (threatened and special least concern)	- WildNet database species records - habitat suitability models (various) - SEQ koala habitat areas under the Koala Conservation Plan 2019 - Sea Turtle Nesting Areas records
VMA regulated regional ecosystems	Vegetation management regional ecosystem and remnant map
VMA Essential Habitat	Vegetation management - essential habitat map
VMA Wetlands	Vegetation management wetlands map
Legally secured offsets	Vegetation Management Act property maps of assessable vegetation. For offset register data-contact DES
Regulated Vegetation Map	Vegetation management - regulated vegetation management map

Appendix 3 - Acronyms and Abbreviations

AOI	- Area of Interest
DES	- Department of Environment and Science
EP Act	- <i>Environmental Protection Act 1994</i>
EPP	- Environmental Protection Policy
GDA94	- Geocentric Datum of Australia 1994
GEM	- General Environmental Matters
GIS	- Geographic Information System
MSES	- Matters of State Environmental Significance
NCA	- <i>Nature Conservation Act 1992</i>
RE	- Regional Ecosystem
SPP	- State Planning Policy
VMA	- <i>Vegetation Management Act 1999</i>

17 March 2023

Mr Andrew Winters
Environmental Advisors Pty Ltd
168 Flaxton Drive
Mapleton QLD 4560

By email only: andrew@environmentaladvisors.com.au

Dear Mr Winters

Your RTI application 22-239
Decision notice under the *Right to Information Act 2009 (Qld)*

I refer to your application under the *Right to Information Act 2009 (Qld)* (RTI Act) which was received by the Department of Environment and Science (DES) on 13 February 2023 and validated on that day with payment of the \$53.90 application fee. In your application you requested access to:

For Lot 105 SP118458, Cooroy, Qld (cnr Lake McDonald Drive and Dianella Court), any information held for the Lot regarding the Environmental Management Register, or other contaminated land or waste disposal information that may be held by DES such as possible night soil, bottle or general rubbish disposal.

Type of documents requested: All

Time period / date range for request: 1955 to present

On 24 February 2023 you agreed to revise the scope of your application to:

All documents relating to 62 Lake McDonald Drive, Cooroy, Qld 4563 (Lot 105 on SP118458), and which may be located on the Environmental Management Register, and which informs of any contamination or waste disposal on this land including by:

- night soil;*
- bottle or general waste disposal.*

For the period: 1 January 1955 to 13 February 2023.

As required under section 24(2)(d) of the RTI Act, you identified Noosa Shire Council as seeking to use or benefit from access to the documents.

Authority to make decisions

I am an officer authorised by the Director-General under section 30(2) of the RTI Act to make decisions concerning the provisions of the RTI Act. The Director-General is the principal officer of this agency.

Search efforts

On 6 March 2023 I received advice from DES' Environmental Services Regulation division stating that they did not hold any documents responsive to the scope of your application.

Access decision

A prescribed written notice is required to be provided under section 54 of the RTI Act to notify you of the access decision and the reasons for the decision.

The advice received from the relevant business area indicates that there are no documents responsive to the scope of your RTI application. There is no information to indicate that the documents should exist but cannot be located. Therefore, I have decided to refuse access to the documents pursuant to sections 47(3)(e) and 52(1)(a) of the RTI Act.

I made this decision on 16 March 2022.

Reasons for decision

A detailed statement of reasons for my decision can be found at Attachment A.

Assessment of processing charges

As less than five hours was spent processing your application, in accordance with section 56 of the RTI Act and section 5(1)(a) of the *Right to Information Regulation 2009 (Qld)*, no processing charges are payable.

Disclosure log

Under section 78 of the RTI Act, a document in relation to this decision must be published on the disclosure log if the document does not contain the applicant's personal information and if the applicant accesses the document within the access period.

As there were no documents located in relation to your application, no documents will be published on the disclosure log.

Review rights

Please refer to Attachment B for details regarding your review rights.

Further enquiries

Should you wish to discuss your application in any way, please do not hesitate to contact me by email: rtiservices@des.qld.gov.au or phone: (07) 3330 5107.

Yours sincerely

Kerry Muré

Kerry Muré
Senior Right to Information Officer
Right to Information Services

Statement of Reasons RTI Application 22-239

Evidence considered

In making my decision, I have considered the following evidence and other material:

- the terms of your application;
- contextual information provided by the relevant business group, the Environmental Services Regulation division;
- the provisions of the *Right to Information Act 2009* (Qld) (RTI Act);
- previous decisions of the Queensland Information Commissioner;
- relevant Australian case law; and
- the *Human Rights Act 2019* (Qld) (HR Act). In accordance with section 58(1) of the HR Act, I believe I have given proper consideration to, and acted compatibly with, the rights set out in the HR Act when making my decision in accordance with the RTI Act. In particular, I have had regard to the right to recognition and equality before the law and the right to freedom of expression, including the right to seek and receive information.

Refused information

Nonexistent documents

Under the RTI Act, a person has the right to be given access to documents of an agency. However, this right is subject to other provisions of the RTI Act, including grounds on which an agency may refuse access to documents.¹

Sections 47(3)(e) and 52 of the RTI Act relevantly provide that access may be refused to documents which:

- do not exist; or
- have been (or should be) in an agency's possession but cannot be located.

A document is non-existent for the purposes of the RTI Act if there are reasonable grounds for the agency to be satisfied that it does not exist, having regard to: -

- the agency's particular knowledge or experience with respect to the administrative arrangements of government;
- the agency's structure;
- the agency's functions and responsibilities (particularly with respect to the legislation for which it has administrative responsibility and other legal obligations that fall to it);
- relevant administrative practices and procedures including but not exclusively information management approaches; and
- other factors reasonably inferred from information supplied by the applicant including the nature and age of the requested documents and the nature of the government activity to which the request relates.²

¹ Set out in section 47 of the RTI Act.

² *PDE and the University of Queensland* [2009] (Unreported) QICmr (9 February 2009); *Mewburn and Department of State Development* [2015] (Unreported) QICmr (21 April 2015) ("Mewburn"); and *Exemplar Health and Sunshine Coast Hospital and Health Service* [2021] QICmr 27 (8 June 2021).

In assessing whether the documents are non-existent, an agency may also conduct searches. Where searches are conducted, an agency must demonstrate that it has taken all reasonable steps to locate responsive documents, prior to deciding that documents are non-existent.³

After carefully considering the terms of your application, I requested searches be undertaken by the Environmental Services Regulation division. On 6 March 2023 I received advice from that business unit that searches were made of the following systems using the key words Lot 105 on SP118458, 62 Lake Mc Donald Drive Cooroy Qld 4563:

- Contaminated Land Register
- eDOCS
- emails
- Environmental Management Register
- network drives
- hard copy files
- Ministerial and Executive Correspondence System; and
- QLD Globe.

I was advised that no documents were located by these searches. In addition, that an extensive search had also revealed that neither the Contaminated Land Unit, nor the Waste Assessment Team held any documents associated with the relevant address.

I have considered the searches undertaken by the Environmental Services Regulation division and am satisfied that the searches performed were appropriately targeted and that, if the information you requested existed within the agency, the documents would have been located by the searches that were performed.

Conclusion

I am satisfied on reasonable grounds that the documents you have requested access to do not exist and that the agency has taken all reasonable steps to locate the requested information. I have therefore decided to refuse access to the requested information under sections 47(3)(e) and 52(1)(a) of the RTI Act on the basis that the requested documents are non-existent.

³ Mewburn, at [20].

Review Rights

If you are dissatisfied with a statutory decision the agency has made while processing an information access or amendment application under the *Right to Information Act 2009* (RTI Act) you can apply to have the decision reviewed. The right of review is available to:

- the information access;
- anyone who this agency has consulted in the course of dealing with an information access; and
- anyone who believes the agency should have consulted them in the course of dealing with an information access application.

An application for a review must:

- be in writing;
- specify an address of the applicant to which notices may be sent; and
- give particulars of the decision for review.

There is no charge for a review application.

Internal review

An application for internal review must be lodged with the agency within **20 business days** of the date of this decision notice.

If the internal reviewer considers the application for internal review to be valid, a fresh decision must be made within 20 business days of the application being lodged with this agency.

The internal review decision will be made by an officer of this agency more senior than the original decision maker.

Applications for internal review should be addressed to:

Internal Review Officer
Right to Information Services
Department of Environment and Science
GPO Box 2454
Brisbane QLD 4001

External review

The Office of the Information Commissioner (OIC) is an independent body responsible for reviewing decisions made under the RTI Act.

An application to the OIC for external review must be made within **20 business days** of the date of the agency's initial decision or internal review decision notice (whichever is relevant in the circumstances).

An applicant can apply to the OIC for a review if the agency fails to issue a decision notice on the RTI application within the statutory timeframe and has not sought approval from the applicant to extend the timeframe.

An external review application can be made to the OIC if:

- the agency has failed to make a decision within the time limits
- you are unhappy with the agency's initial decision or internal review decision

Applications for external review should be addressed to:

Office of the Information Commissioner
PO Box 10143
Adelaide Street
Brisbane QLD 4000

For further information about external reviews, please contact the OIC as follows:

Telephone: (07) 3234 7373
Email: administration@oic.qld.gov.au
Web page: www.oic.qld.gov.au

Note: You may apply for an external review irrespective of whether the agency has internally reviewed the decision.

Andrew Winters

From: Glen Conforti <glen.conforti@noosa.qld.gov.au>
Sent: Wednesday, 4 October 2023 8:48 AM
To: Andrew Winters
Cc: Troy Andreassen
Subject: RE: 62 Lake Macdonald Dr, Cooroy - contamination assessment

Good morning Andrew,
I don't think an RTI with council would reveal any information.

All good to contact the historical society.

Troy is probably your best first point of call and may know person/s contacts who could have more historical information.

Regards

Glen Conforti

Principal Strategic Planner | Strategy and Environment

Contact hours: Mon, Tues, Wed, and Thurs 8:15am - 4pm

Phone: 07 5329 6241

Email: glen.conforti@noosa.qld.gov.au

Website: www.noosa.qld.gov.au



From: Andrew Winters <Andrew@environmentaladvisors.com.au>
Sent: Wednesday, October 4, 2023 8:02 AM
To: Glen Conforti <glen.conforti@noosa.qld.gov.au>
Subject: 62 Lake Macdonald Dr, Cooroy - contamination assessment

CAUTION: This email originated outside of Council. Do not open links or attachments if the email is unexpected or unusual.

Hi Glen

Just wanted to check that it is ok to proceed with contacting the local historical society regarding the Cooroy site, and specifically seeking information on early use for nightsoil and other disposal activities. I recall there was some sensitivity around contacting neighbouring residents, and to confirm, we are not planning on any such direct contact to neighbouring residents as part of SAQP development.

Would Council have any current or former employees or similar contacts with historical knowledge of the site that we could interview?

Also, whilst we submitted an RTI to State (DES) regarding the site (they held no relevant information) we have not done so with Council – would this be of benefit in the sense that could there be historical information that Council holds regarding historical disposal or similar contamination issues?

Regards



Andrew Winters
Director | Principal Scientist
M: 0409 662 747
E: Andrew@EnvironmentalAdvisors.com.au
www.EnvironmentalAdvisors.com.au
PO Box 505 Buddina | QLD | 4575



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Appendix F

Current and Historical Land Titles

Queensland Titles Registry Pty Ltd
ABN 23 648 568 101

Title Reference: 50270172	Search Date: 12/04/2023 07:57
Date Title Created: 15/06/1999	Request No: 44099777
Previous Title: 15368083	

ESTATE AND LAND

Estate in Fee Simple

LOT 105 SURVEY PLAN 118458

Local Government: NOOSA

REGISTERED OWNER

Dealing No: 717558453 06/10/2016

NOOSA SHIRE COUNCIL

EASEMENTS, ENCUMBRANCES AND INTERESTS

1. Rights and interests reserved to the Crown by
Deed of Grant No. 14960029 (POR 105)

ADMINISTRATIVE ADVICES

NIL

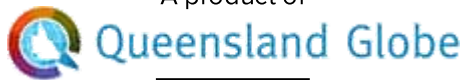
UNREGISTERED DEALINGS

NIL

** End of Current Title Search **



A product of



Legend located on next page



0 50 metres

Scale: 1:2500

Printed at: A4

Print date: 6/10/2023

Not suitable for accurate measurement.
Projection: Web Mercator EPSG 102100 (3857)

For more information, visit
<https://qldglobe.information.qld.gov.au/help-info/Contact-us.html>

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QImagery





TOWN OF COOROY
PARISH OF TEWANTIN
COUNTY OF MARCH
LAND AGENT'S DISTRICT OF GYMPIE

SCALE 1:2500
 0 100 200 METRES

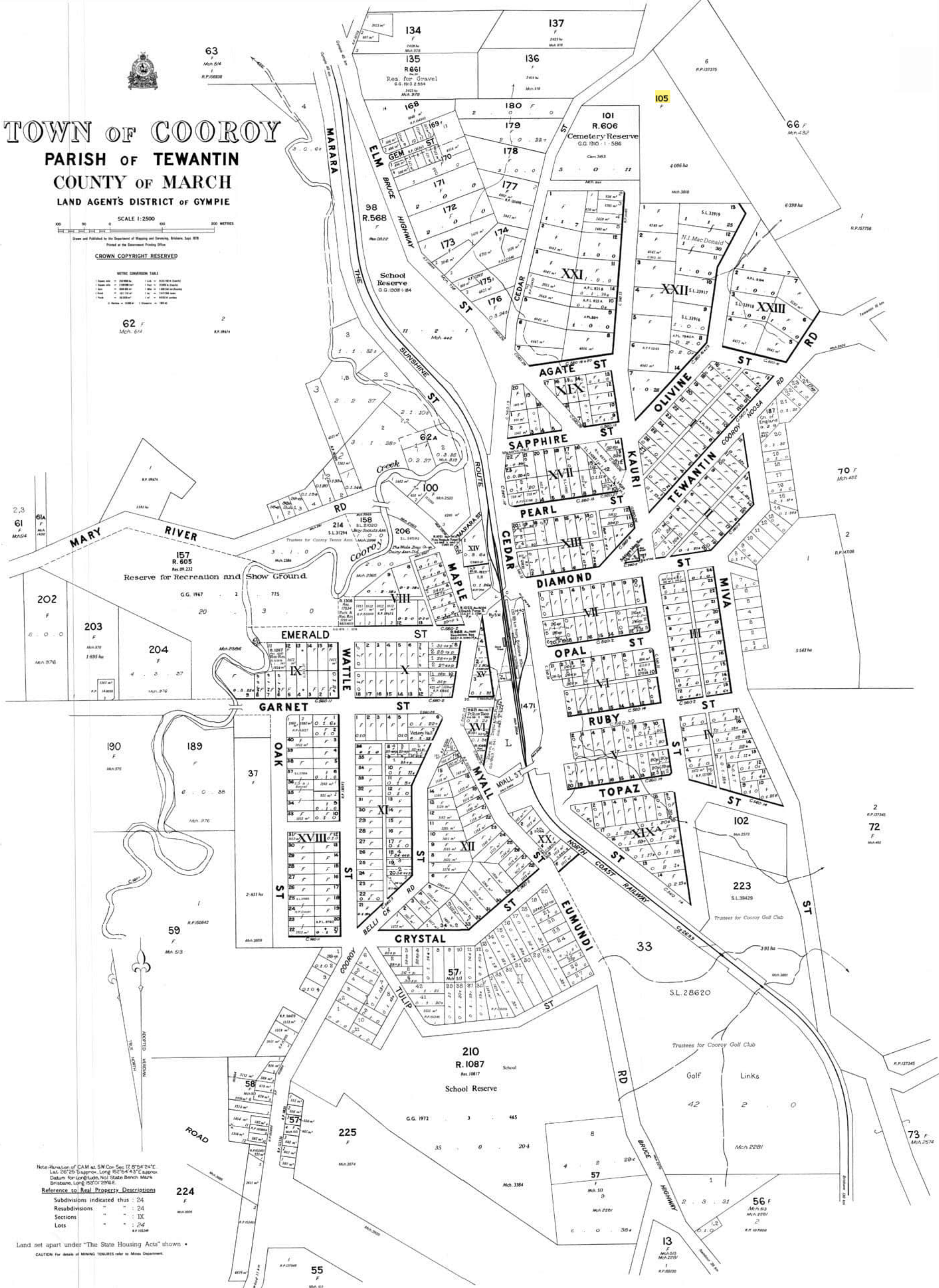
Drawn and Published by the Department of Mapping and Surveying, Brisbane, Sept. 1928
 Printed at the Government Printing Office

CROWN COPYRIGHT RESERVED

METRIC CONVERSION TABLE

1 inch = 25.4 mm	1 foot = 304.8 mm
1 mile = 1609.344 m	1 acre = 4046.8564 m ²
1 fathom = 1.8288 m	1 hectare = 10000 m ²
1 league = 3.0 m	1 rood = 1011.7141 m ²
1 cable = 182.88 m	1 perch = 25.2929 m ²
1 chain = 201.168 m	1 square perch = 626.4005 m ²
1 link = 20.1168 m	1 square chain = 5278.4310 m ²
1 link = 20.1168 m	1 square link = 404.6856 m ²

62 F
 Mch. 614



Note: Meridian of G.A.M. at SW Cor. Sec. 17, 8°54'24" E.
 Lat. 26°25' S approx., Long. 152°54'43" E approx.
 Datum: for Longitude, New State Bench Mark Brisbane, Long. 152°01'29" E.

Reference to Real Property Descriptions

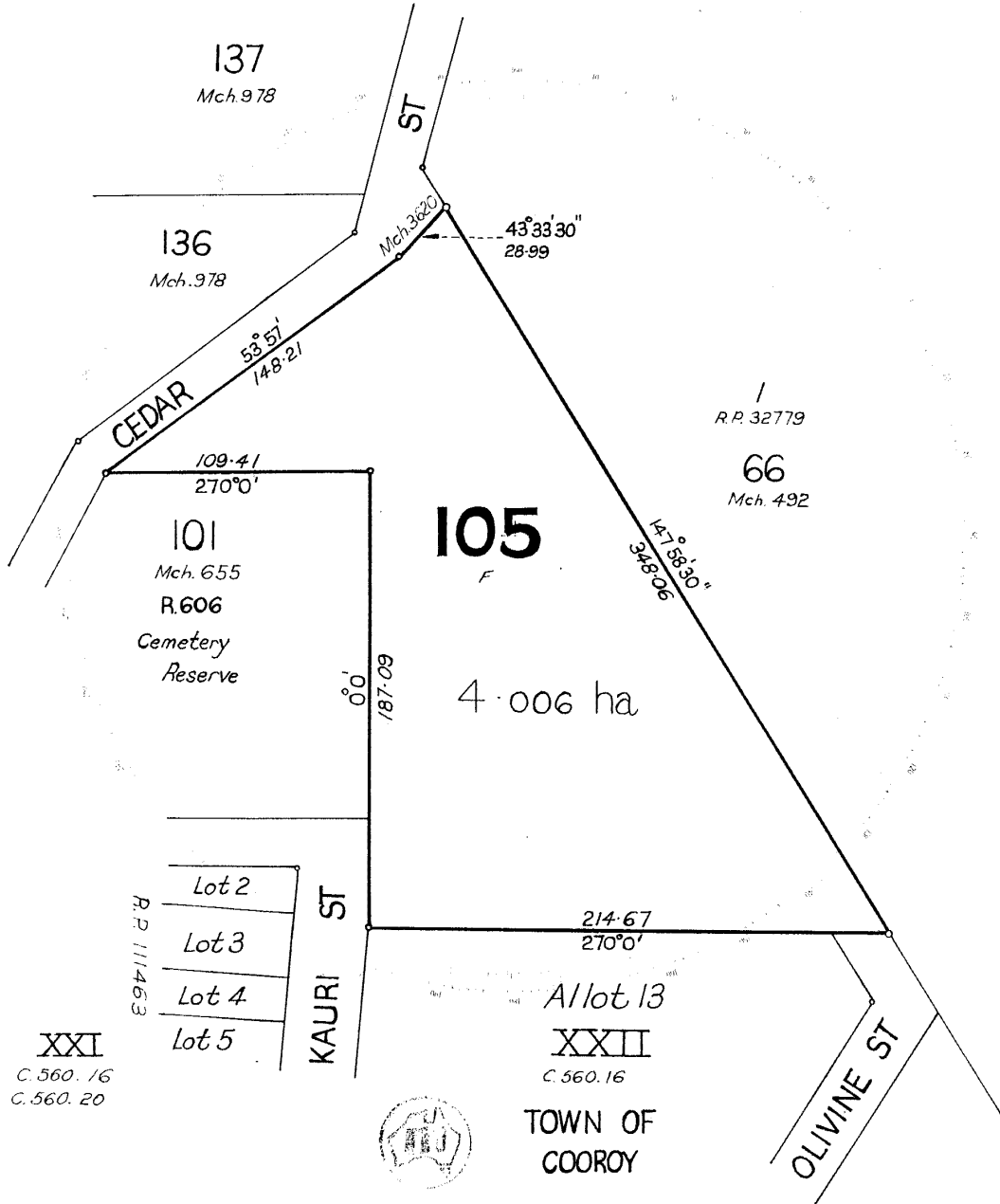
Subdivisions indicated thus:	24
Resubdivisions	24
Sections	IX
Lots	24

Land set apart under "The State Housing Acts" shown
 CAUTION for areas of MINING TENURES refer to Mines Department.

POR No.	LEASE No.
105	F.75.791 NEW DEFO ✓

229

For Additional Plan & Document Notings Refer to CISP



XXI
C.560.16
C.560.20



TOWN OF COOROY

ADJUSTMENTS			INITIALS & DATE			COMPILED FROM Mch.3620 & Mch.927		POR. No. 105	
POR.	REF.	PREV. AREA	DRAWN	EXAM'D	CHARTED	SCALE 1:2000		PARISH OF TEWANTIN	
105	RC.36187	9.3348	D.J.R.	G.P.D.	C.A.V.	MERIDIAN/CAM Vide Mch.655		COUNTY OF MARCH	
			18-2-75	5-3-75	13-3-75	REF 75-1523 S9		L.A.D. OF GYMPIE	
				14-2-75		SURVEY OFFICE		COMPILED PLAN Mch.3818	
I.M. Gooroy			CROWN COPYRIGHT RESERVED						

FOR OPENING NOTIFICATIONS—SEE BACK

Reference to Traverse and Road Sections

Line Bearing Dist.

Particulars

Plan No.	Date of Birth	Form No.	Selector	Area in Acres	Remarks
105	17/2/12	105	17/2/12	25.372	17/2/12
105	S.L. 22733		Mary M. Bourke Surrend.		
105	S.L. 25404		Cameron A. Biehal F. 7.3.1531		

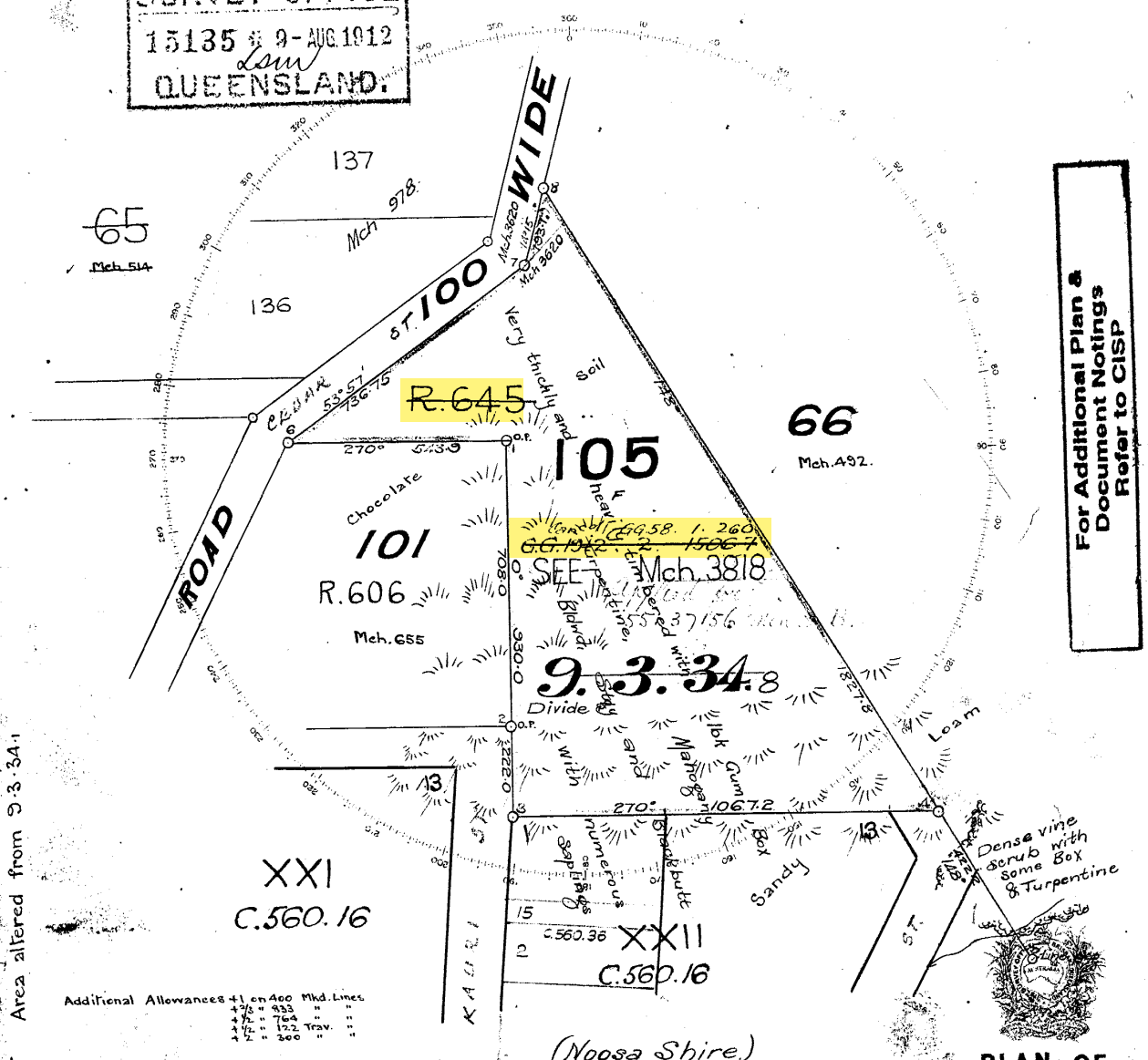
Date of Instructions 23.1.12

Date of transmission of plans &c. 1.8.12
 Examined and Charted 11.9.12
 Voucher No. 6135 Passed for payment 27.8.12 R.M.E.1
 Sales Register Vol. 10 Fol. 383
 Scale 3 Chains to an Inch.

Reference to Corners.

Cor. Bearing	From	To	Mark
1 71°20'	O.Box	572	N101/05
2 30°12'	O.Box	873	101
3 271°29'	Box	771	105
4 111°35'	Box	287	105

SURVEY OFFICE
 15135 9-AUG 1912
 QUEENSLAND.



For Additional Plan & Document Notings Refer to CISP

Area altered from 9.3.34.1

Additional Allowances 41 on 400 Mhd. Lines
 478 = 933 " "
 472 = 764 " "
 472 = 122 Trav. " "
 4 = 200 " "

(Noosa Shire)

Meridian Observations
 (This form can also be adapted to stellar observations.)

Station	Time	Altitude	Observed	Reduced	Correction
C.A.M. of Mch 655 adopted.					

NOTE: Bearing stations are shown by triangles in red.

I hereby certify that I, in person made, and on the 13 April 1912 completed the survey represented by this plan, on which are written the bearings and distances of the lines surveyed by me, and that the survey has been executed in accordance with the existing regulations of the Department.

Edith A. Tuley
 Clerk to the Surveyor

PLAN OF
 PORTION No 105
 PARISH OF Tewartin
 County of March
 Land Agents Gympie
 District of

Mch 927
MCH 927

Reference to Traverse and Road Sections.

Line	Bearing	Dist.

Particulars

Per. No.	Date of Birth	Farm No.	Selector	Acres	Remarks
101				3.2.10	

Date of Instructions 23.4.09.09.8256R.

Date of transmission of plans &c 27.11.09.

Examined and Charted 21.1.10.

Voucher No. - Passed for payment.

Sales Register Vol. Fol.

Scale 4 Chains to an Inch.

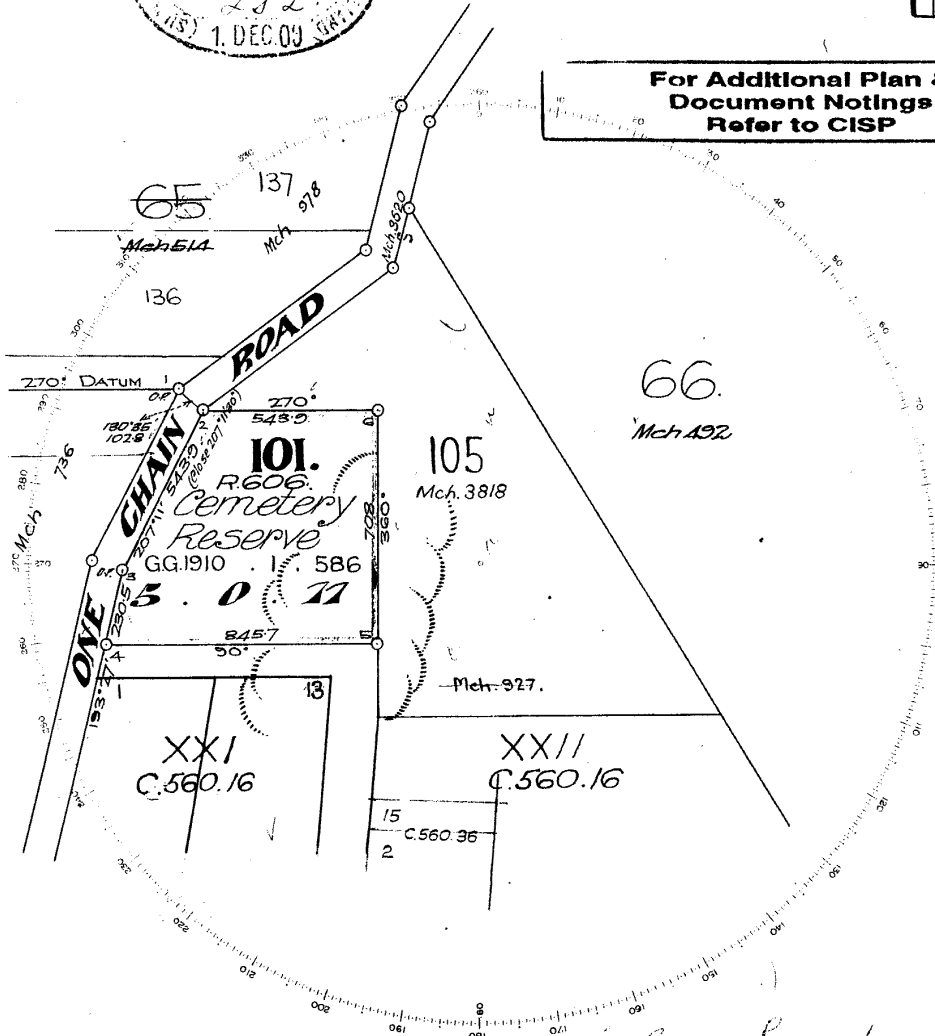
Reference to Corners

Corner	Bearing	From	Links	Mark
2	23°20'	Box	363	101-R
3	282°18'	"	478	"
4	278°40'	Block	258	"
5	281°12'	Box	873	101
6	71°40'	"	574	"



For Additional Plan & Document Notings Refer to CISP

Area altered from S.O. 107



Charted on Cooroy Fair Plan.

to Cooroy Repurchased

(Widgee Shire)



PLAN OF

I hereby certify that I, in person, made and on the 10.2.1909 completed the survey represented by this plan, on which are written the bearings and lengths of the lines surveyed by me, and that the survey has been executed in accordance with the existing regulations of the Surveyor-General's Department.

Alfred Lyburner
Surveyor

Meridian Observations
(This form can also be adapted to stellar observations.)

No.	Date	Lat.	Long.	Baromet.	Baromet. Reduct.	Time	Alt. Cor. Sun.	Observed Altitude	Observed Azimuth	Meridian
County Meridian										

NOTE: Observing stations are shown by a triangle in red.

PORTION No 101
PARISH OF Tewantin
County of March
Land Agents) Gympie
District of)

Mch. 655.

MCH 655

5

[Form 1] 73.1531



Deed of Grant of Land

Land Act 1962-1973
PURCHASE

FULLY CANCELLED

VOL: 4960 FOLIO: 29



14960029

Acquired by _____

Elizabeth the Second, by the Grace of God, of the United Kingdom, Australia, and Her other Realms and Territories, Queen, Head of the Commonwealth, Defender of the Faith:—

To all to whom these Presents shall come, Greeting;

Whereas in conformity with the Laws and Regulations in force for the alienation of Crown Land in our State of Queensland, _____
ROSS BEVAN SPICER and PATRICIA DAPHNEY SPICER, his wife, as joint tenants

_____ have become entitled to a Deed of Grant in Fee-simple of the Land hereinafter described:
NOW KNOW YE, in consideration of the premises and of the sum of FIVE HUNDRED DOLLARS
for Us, and on Our behalf, paid into the Office in Brisbane of the Department of Lands or at any District Land Office of Our said State, and in further consideration of the Quit-Rent hereinafter reserved, WE, with the advice of The Executive Council of Our said State, have granted, and for Us, Our Heirs and Successors, do hereby Grant unto the said
ROSS BEVAN SPICER and PATRICIA DAPHNEY SPICER, his wife, as joint tenants, their Administrators
and Assigns, subject to the Reservations hereinafter mentioned,

All That Parcel of Land in our State, containing by admeasurement NINE ACRES THREE ROODS THIRTY-FOUR AND EIGHT-TENTHS PERCHES
_____ be the same more or less, situated in the County of MARCH Parish of TEWANTIN,
PORTION ONE HUNDRED AND FIVE, Being land granted under Section 207 of the Land Act 1962-1973,

as delineated on plan of Survey catalogue No. Mch.927 deposited in the Survey Office and as shown edged red on diagram hereon
_____ with all the Rights and Appurtenances whatsoever thereto belonging,
To Hold unto the said ROSS BEVAN SPICER and PATRICIA DAPHNEY SPICER, his wife, as joint tenants, their Administrators

and Assigns for ever, Yielding and Paying therefor Yearly unto Us, Our Heirs and Successors, the Quit-Rent of One Peppercorn for ever, if demanded: But Subject Nevertheless to the several Conditions and Reservations contained in and declared by the Land Act 1962-1973, the Mining Act 1968-1971 and "The Petroleum Acts, 1923 to 1967": AND WE do hereby reserve unto Us, Our Heirs and Successors, all Gold and Minerals (the term "Minerals" to have the same meaning as in the Mining Act 1968-1971), on and below the surface of the said Land, and all Mines of Gold and Minerals, on and below the surface of the said Land: AND WE do hereby also reserve unto Us, Our Heirs and Successors, and to such persons as shall from time to time be duly authorised by Us in that behalf, the free right and privilege of access, including ingress, egress, and regress, into, upon, over, and out of the said Land, for the purpose of searching for or working Gold and Minerals, or any of them, or Mines of Gold and Minerals, or any of them, in any part of the said Land: AND WE do hereby also reserve unto Us, Our Heirs and Successors, all Petroleum (the term "Petroleum" to have the same meaning as in "The Petroleum Acts, 1923 to 1967"), on or below the surface of the said Land: AND also all rights of access for the purpose of searching for, and for the operations of obtaining Petroleum in any part of the said Land: AND also all rights of way for access and for pipe lines and other purposes requisite for obtaining and conveying Petroleum in the event of Petroleum being obtained in any part of the said Lands: AND WE do also further reserve unto Us, Our Heirs and Successors, All Helium found in association with Petroleum in any part of the said Land:

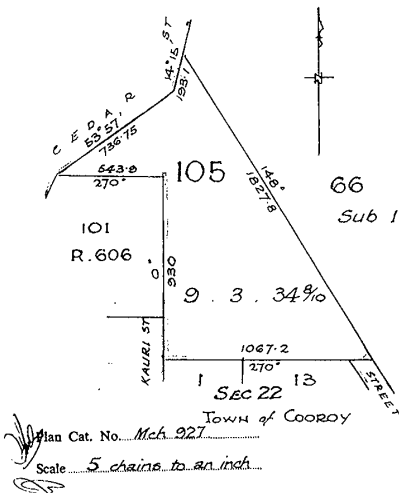
IN TESTIMONY WHEREOF, We have caused this Our Grant to be Sealed with the Seal of Our said State.

WITNESSE Our Trusty and Well-beloved His Excellency the Honourable SIR MORTON HANCOCK,
Knight Commander of the Most Excellent Order of the British Empire, Chief Justice of
Our State of Queensland, and Administrator of the Government of the said State

WITNESS Our Trusty and Well-beloved His Excellency SIR COLIN THOMAS HANNAH, Air Marshal on the Retired List of the Royal Australian Air Force,
Knight Commander of Our Most Distinguished Order of Saint Michael and Saint George, Knight Commander of our Most Excellent Order of the
British Empire, Companion of our Most Honourable Order of the Bath, Governor in and over the State of Queensland and its Dependencies in the
Commonwealth of Australia, at Government House, Brisbane, in Queensland aforesaid, this fourteenth day of
June in the twenty-second year of Our Reign and in the year of Our Lord One
thousand nine hundred and seventy-three

ENTERED as Country _____ Land in the Register Book, Vol. 394, Folio 77, in the Survey Office, Brisbane,
this twentieth day of June, 1973.


SURVEYOR-GENERAL



4960 29

No. EG09171 Bill of Mortgage
 to Australia and New Zealand Savings Bank Limited
 Produced 17 Oct 73 at 9:47a
 Registered. 11 DEC 1973

James H. Bennett
 REGISTRAR OF TITLES




James H. Bennett
ACTING REGISTRAR OF TITLES

APD
EG09171
JK
EG09171

Her Majesty Queen Elizabeth the Second is seized of an Estate in fee-simple in the within land under Section 9 of "The Land Acts, 1962 to 1973" pursuant to Memo. of Transfer produced 22 Jan 1975 at 10:38a.
 No. CE88853 Reference to New Deed, Vol. 5368
 Fol. B3 23 JAN 1975
 Subject to mortgage No. EG09171

James H. Bennett
 REGISTRAR OF TITLES



FULLY CANCELLED

7

5

[Form 3]



75.791

VOL: 5368 FOLIO: 83



15368083

QUEENSLAND

Deed of Grant of Land

Under the Provisions of Section 9 of the Land Act 1962-1974

Elizabeth the Second, by the Grace of God, of the United Kingdom, Australia, and Her other Realms and Territories, Queen, Head of the Commonwealth
Defender of the Faith:—

To all to whom these Presents shall come, Greeting:

WHEREAS, in pursuance of the provisions of Section 9 of the Land Act 1962-1974

ROSS BEVAN SPICER and PATRICIA DAPHNEY SPICER, his wife, as joint tenants

the Owner of the Land hereinafter mentioned, has surrendered to Us All that Parcel of land in Our State of Queensland, containing by admeasurement

Nine acres three roods thirty-four and eight-tenths perches

be the same more or less, situated in the County of MARCH Parish of TEWANTIN

PORTION ONE HUNDRED AND FIVE

being the whole of the land contained in Deed of Grant Volume 4960 Folio 29

surrendered on the Twenty-third day of January 1975 in consideration that a new Deed of Grant

with the description hereinafter contained should issue: NOW KNOW YE that for the considerations aforesaid, and in further consideration of the

Quit-Rent hereinafter reserved, WE, with the advice of the Executive Council of Our said State, have granted, and for Us, Our Heirs and Successors, do hereby grant unto the said

ROSS BEVAN SPICER and PATRICIA DAPHNEY SPICER, his wife, as joint tenants, their Administrators

and Assigns, subject to the several and respective Reservations hereinafter mentioned,

containing by admeasurement 4.006 HECTARES All That Parcel of Land in Our said State,

be the same more or less, situated in the County of MARCH Parish of TEWANTIN

PORTION ONE HUNDRED AND FIVE

as delineated on plan of Survey catalogue No. Mch. 3818 deposited in the Survey Office and as shown edged red on diagram hereon

To Hold unto the said ROSS BEVAN SPICER and PATRICIA DAPHNEY SPICER, his wife, as joint tenants, their Administrators

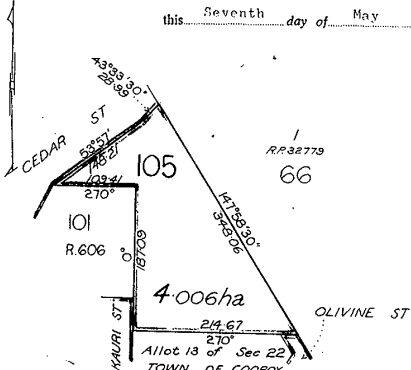
and Assigns for ever, Yielding and paying therefor Yearly unto Us, Our Heirs and Successors, the Quit-Rent of One Peppercorn for ever, if demanded: But Subject Nevertheless to the several Conditions and Reservations contained in and declared by the Laws of Our said State in that behalf, and to the Reservations and Conditions set forth in the said Deed of Grant No. Volume 4960 Folio 29 to the Land so surrendered:

IN TESTIMONY WHEREOF, We have caused this Our Grant to be Sealed with the Seal of Our said State.

WITNESS Our Trusty and Well-beloved His Excellency SIR COLIN THOMAS HANNAH, Air Marshal on the Retired List of the Royal Australian Air Force, Knight Commander of Our Most Distinguished Order of Saint Michael and Saint George, Knight Commander of our Most Excellent Order of the British Empire, Companion of our Most Honourable Order of the Bath, Governor in and over our State of Queensland and its Dependencies in the Commonwealth of Australia, at Government House, Brisbane, in Queensland aforesaid, this First day of May, in the twenty-fourth year of Our Reign and in the year of Our Lord One thousand nine hundred and seventy-five

ENTERED as Country Land in the Register Book, Vol. 411, Folio 254, in the Survey Office, Brisbane, this Seventh day of May, 1975.

SURVEYOR-GENERAL.



Plan Cat. No. Mch. 3818 Scale 1:5000

1 5368 083

ENTERED in the Register Book, Vol. 5368 Folio 83, this _____ day of _____ 1987

R.P.L. OF MONTREAL to _____
 Limited
 No. E609171 PRO-
 at 9.473 m. REC-
 REGISTERED PLAN No. MICH3818
 REGISTER OF TITLES

J. J. J.
 REGISTRAR OF TITLES

THE DESCRIPTION OF THE WITHIN LAND IS CONVERTED
 TO LOT(S) 105
 ON REGISTERED PLAN No. MICH3818
 30 JUL 1987
 REGISTRAR OF TITLES

plan
 E952000
 140716
 REJECTED
 3-9-78
 R.L. F. 9/23/69

(Faint, illegible text and markings on the right side of the page, including a circled '0' and a circled '3')

HISTORICAL TITLE SEARCH

QUEENSLAND TITLES REGISTRY PTY LTD

Request No: 45860827

Search Date: 04/10/2023 20:33

Title Reference: 15368083

Date Created: 15/05/1975

Previous Title: 14960029

This Title Has Been Fully Cancelled.

REGISTERED OWNER

ROSS BEVAN SPICER

PATRICIA DAPHNEY SPICER

JOINT TENANTS

ESTATE AND LAND

Estate in Fee Simple

LOT 105 CROWN PLAN MCH3818

EASEMENTS, ENCUMBRANCES AND INTERESTS

1. SURVEY PLAN No 703383422
subdivides the land into
LOTS 1 AND 105 ON SP118458
Lodged at 15:00 on 08/06/1999
2. Rights and interests reserved to the Crown by
Deed of Grant No. 14960029 (POR 105)

ADMINISTRATIVE ADVICES - NIL

UNREGISTERED DEALINGS - NIL

Caution - Charges do not necessarily appear in order of priority

** End of Historical Title Search **

COPYRIGHT QUEENSLAND TITLES REGISTRY PTY LTD [2023]

Requested By: D-ENQ INFOTRACK PTY LIMITED

HISTORICAL TITLE SEARCH

QUEENSLAND TITLES REGISTRY PTY LTD

Request No: 45860826

Search Date: 04/10/2023 20:33

Title Reference: 50270172

Date Created: 15/06/1999

Previous Title: 15368083

REGISTERED OWNER

Dealing No: 717558453 06/10/2016

NOOSA SHIRE COUNCIL

VESTING No 717558453

NOOSA SHIRE COUNCIL

Lodged at 10:08 on 06/10/2016

OWNERSHIP CORRECTION No 714874039

to update the Registered Owner's name in accordance with the
Local Government Reform Implementation Act 2007 to:

SUNSHINE COAST REGIONAL COUNCIL

Lodged at 12:59 on 08/01/2013

TRANSFER No 703784593

COUNCIL OF THE SHIRE OF NOOSA

Lodged at 12:12 on 24/12/1999

VESTING No 717420934 FULLY WITHDRAWN ON 06/10/2016

Lodged at 11:50 on 02/08/2016

ESTATE AND LAND

Estate in Fee Simple

LOT 105 SURVEY PLAN 118458

Local Government: NOOSA

EASEMENTS, ENCUMBRANCES AND INTERESTS

1. APPLICATION FOR TITLE No 703784599

A Certificate of Title has been issued

Lodged at 12:12 on 24/12/1999

2. Rights and interests reserved to the Crown by

Deed of Grant No. 14960029 (POR 105)

ADMINISTRATIVE ADVICES - NIL

UNREGISTERED DEALINGS - NIL

Caution - Charges do not necessarily appear in order of priority

** End of Historical Title Search **

COPYRIGHT QUEENSLAND TITLES REGISTRY PTY LTD [2023]

Requested By: D-ENQ INFOTRACK PTY LIMITED

CURRENT TITLE SEARCH

QUEENSLAND TITLES REGISTRY PTY LTD

Request No: 45860822

Search Date: 04/10/2023 20:33

Title Reference: 50270172

Date Created: 15/06/1999

Previous Title: 15368083

REGISTERED OWNER

Dealing No: 717558453 06/10/2016

NOOSA SHIRE COUNCIL

ESTATE AND LAND

Estate in Fee Simple

LOT 105 SURVEY PLAN 118458
Local Government: NOOSA

EASEMENTS, ENCUMBRANCES AND INTERESTS

1. Rights and interests reserved to the Crown by
Deed of Grant No. 14960029 (POR 105)

ADMINISTRATIVE ADVICES - NIL

UNREGISTERED DEALINGS - NIL

** End of Current Title Search **

COPYRIGHT QUEENSLAND TITLES REGISTRY PTY LTD [2023]

Requested By: D-ENQ INFOTRACK PTY LIMITED



Appendix G
Soil and LFG Logs



TEST PIT LOG ENVIRONMENTAL

Client:	Noosa Council	Machine:	8T Excavator	Test Pit No:	TP1
Project:	Contaminated Land Assessment	Type/Model:	-	Easting/Northing:	
Job No.:	125	Operator:	AW/ZW	Grid Ref:	
Location:	Lot 105 SP118458	Width:	300mm	Elevation:	
Date:	24 February 2023	Pit Width/Length (m):		Logged/Checked by:	ZW/AW

Depth (m)	Soil type (Classification Group Symbol); Particle size; Colour; Secondary/Minor components	Consistency	Moisture	Odours, staining, waste materials, separate phase liquids, imported fill, ash?	Water	PID (ppm)	Sample ID
0	0-0.05 Grass and organic matter						
	0.05-0.35 Grey sand- Likely fill with glass (Clear & Amber) + Metal, some charcoal (Possible Natural)						TP1-0.1
0.5	0.35-1.0 Fine clayey sand, light orange with frequent weakly cemented angular sandstone boulders and gravel – likely natural						TP1-0.5
1.0							TP1-1.0
	1.0-1.2 Red Sandstone – natural - Refusal						
	Discontinued target depth reach						
1.5							
2.0							
2.5							
3.0							
3.5							
4.0							
4.5							



TEST PIT LOG ENVIRONMENTAL

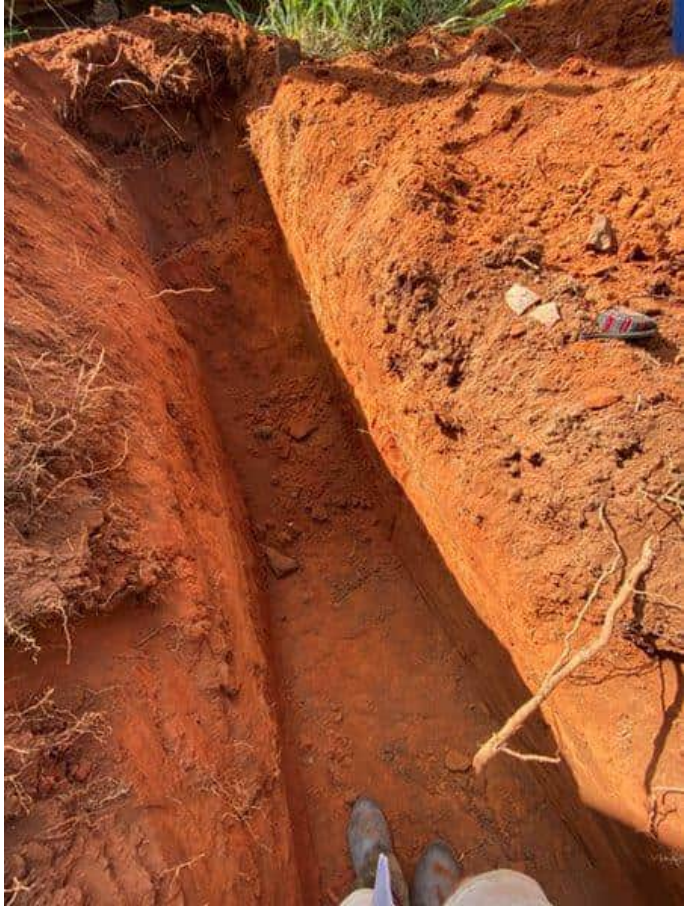
Client:	Noosa Council	Machine:	8T Excavator	Test Pit No:	TP2
Project:	Contaminated Land Assessment	Type/Model:	-	Easting/Northing:	
Job No.:	125	Operator:	AW/ZW	Grid Ref:	
Location:	Lot 105 SP118458	Width:	300mm	Elevation:	
Date:	24 February 2023	Pit Width/Length (m):		Logged/Checked by:	ZW/AW

Depth (m)	Soil type (Classification Group Symbol); Particle size; Colour; Secondary/Minor components	Consistency	Moisture	Odours, staining, waste materials, separate phase liquids, imported fill, ash?	Water	PID (ppm)	Sample ID
0	0-0.05 Grass and organic matter						
	0.05-0.25 Grey silty sand- Likely Fill (Glass bottle)						TP2-0.1
0.5	0.25-0.9 Fine Clayey sand, light orange with infrequent gravel & glass bottle @ 0.55 (refer photo below) and ceramic fragments - fill						TP2-0.5 TP2-0.8
1.0	0.9- 1.2 Clayey fine sand, red with minor gravel						TP2-1.0
	1.2-1.4 Red Sandstone- Refusal						
1.5	Discontinued target depth reach						
2.0							
2.5							
3.0							
3.5							
4.0							
4.5							



TEST PIT LOG ENVIRONMENTAL

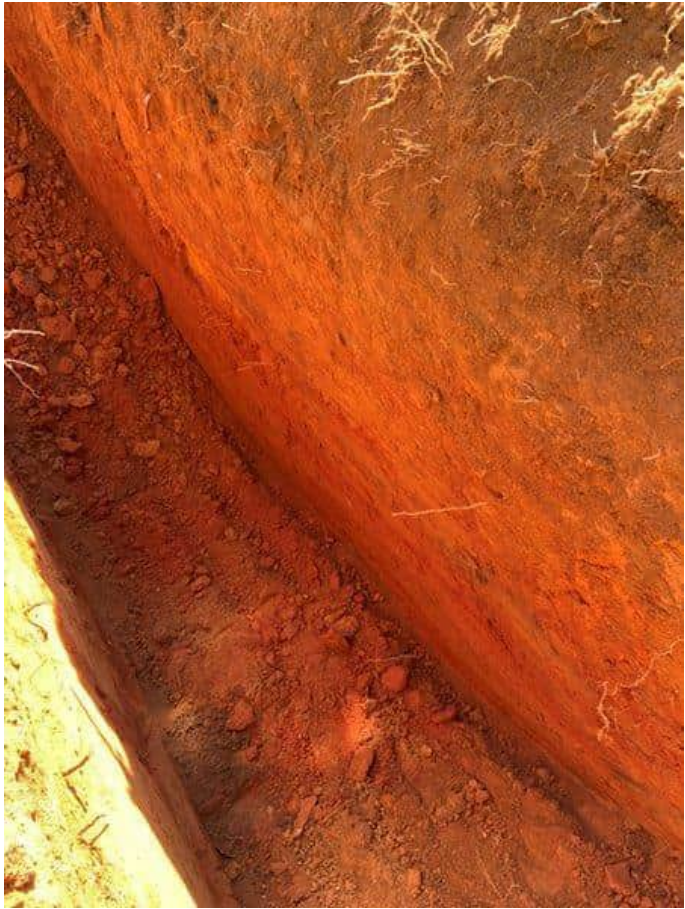
Client:	Noosa Council	Machine:	8T Excavator	Test Pit No:	TP3
Project:	Contaminated Land Assessment	Type/Model:	-	Easting/Northing:	
Job No.:	125	Operator:	AW/ZW	Grid Ref:	
Location:	Lot 105 SP118458	Width:	300mm	Elevation:	
Date:	24 February 2023	Pit Width/Length (m):		Logged/Checked by:	ZW/AW

Depth (m)	Soil type (Classification Group Symbol); Particle size; Colour; Secondary/Minor components	Consistency	Moisture	Odours, staining, waste materials, separate phase liquids, imported fill, ash?	Water	PID (ppm)	Sample ID
0	0-0.05 Grass and organic matter						
	0.05-1.9 Red fine clayey sand, likely natural but with terracotta & pipe fragments at surface						TP3-0.1
0.5							TP3-0.5
1.0							
1.5							
							TP3-1.8
2.0	1.9-2.1- Red weakly cemented sandstone- refusal						
	Discontinued target depth reach						
2.5							
3.0							
3.5							
4.0							
4.5							



TEST PIT LOG ENVIRONMENTAL


Client:	Noosa Council	Machine:	8T Excavator	Test Pit No:	TP4
Project:	Contaminated Land Assessment	Type/Model:	-	Easting/Northing:	
Job No.:	125	Operator:	AW/ZW	Grid Ref:	
Location:	Lot 105 SP118458	Width:	300mm	Elevation:	
Date:	24 February 2023	Pit Width/Length (m):		Logged/Checked by:	ZW/AW

Depth (m)	Soil type (Classification Group Symbol); Particle size; Colour; Secondary/Minor components	Consistency	Moisture	Odours, staining, waste materials, separate phase liquids, imported fill, ash?	Water	PID (ppm)	Sample ID
0	0-0.05 Grass and organic matter						
	0.05-1.4 Red fine clayey sand, minor gravel						TP4-0.1
0.5							TP4-0.5
1.0							TP4-1.0
1.5	Discontinued target depth reach						
2.0							
2.5							
3.0							
3.5							
4.0							
4.5							



TEST PIT LOG ENVIRONMENTAL


Client:	Noosa Council	Machine:	8T Excavator	Test Pit No:	TP5
Project:	Contaminated Land Assessment	Type/Model:	-	Easting/Northing:	
Job No.:	125	Operator:	AW/ZW	Grid Ref:	
Location:	Lot 105 SP118458	Width:	300mm	Elevation:	
Date:	24 February 2023	Pit Width/Length (m):		Logged/Checked by:	ZW/AW

Depth (m)	Soil type (Classification Group Symbol); Particle size; Colour; Secondary/Minor components	Consistency	Moisture	Odours, staining, waste materials, separate phase liquids, imported fill, ash?	Water	PID (ppm)	Sample ID
0	0-0.15 Grass and organic matter + grey sand (likely fill)						TP5-0.1
0.5	0.15-0.9 Red fine clayey sand with frequent gravel (quartz) at depth						TP5-0.5
1.0	0.9-1.3 Weakly cemented sandstone- refusal						
1.5	Discontinued target depth reach						
2.0							
2.5							
3.0							
3.5							
4.0							
4.5							



TEST PIT LOG ENVIRONMENTAL

Client:	Noosa Council	Machine:	8T Excavator	Test Pit No:	TP6
Project:	Contaminated Land Assessment	Type/Model:	-	Easting/Northing:	
Job No.:	125	Operator:	AW/ZW	Grid Ref:	
Location:	Lot 105 SP118458	Width:	300mm	Elevation:	
Date:	24 February 2023	Pit Width/Length (m):		Logged/Checked by:	ZW/AW

Depth (m)	Soil type (Classification Group Symbol); Particle size; Colour; Secondary/Minor components	Consistency	Moisture	Odours, staining, waste materials, separate phase liquids, imported fill, ash?	Water	PID (ppm)	Sample ID
0	0-0.05 Grey silty sand + grass and organic matter + glass						
	0.05-0.25 Gray silty sand fill + frequent glass/bottle fragments						TP6-0.1
0.5	0.25-1.1 Red/brown mottle clay increasing red mottle at depth- likely natural with grey- turning to hard red/grey mottled clay @ 1.0						TP6-0.3 TP6-0.5
1.0							
	Discontinued target depth reach						
1.5							
2.0							
2.5							
3.0							
3.5							
4.0							
4.5							



TEST PIT LOG ENVIRONMENTAL


Client:	Noosa Council	Machine:	8T Excavator	Test Pit No:	TP7
Project:	Contaminated Land Assessment	Type/Model:	-	Easting/Northing:	
Job No.:	125	Operator:	AW/ZW	Grid Ref:	
Location:	Lot 105 SP118458	Width:	300mm	Elevation:	
Date:	24 February 2023	Pit Width/Length (m):		Logged/Checked by:	ZW/AW

Depth (m)	Soil type (Classification Group Symbol); Particle size; Colour; Secondary/Minor components	Consistency	Moisture	Odours, staining, waste materials, separate phase liquids, imported fill, ash?	Water	PID (ppm)	Sample ID
0	0-0.05 0-0.05 Grey silty sand + grass and organic matter + infrequent						
	0.05-0.2 Grey silty sand gill + infrequent glass						TP7-0.1
	0.2-0.4 Red/light brown mottle clay						
0.5	Discontinued target depth reach						
1.0							
1.5							
2.0							
2.5							
3.0							
3.5							
4.0							
4.5							



TEST PIT LOG ENVIRONMENTAL

Client:	Noosa Council	Machine:	8T Excavator	Test Pit No:	TP8
Project:	Contaminated Land Assessment	Type/Model:	-	Easting/Northing:	
Job No.:	125	Operator:	AW/ZW	Grid Ref:	
Location:	Lot 105 SP118458	Width:	300mm	Elevation:	
Date:	24 February 2023	Pit Width/Length (m):		Logged/Checked by:	ZW/AW

Depth (m)	Soil type (Classification Group Symbol); Particle size; Colour; Secondary/Minor components	Consistency	Moisture	Odours, staining, waste materials, separate phase liquids, imported fill, ash?	Water	PID (ppm)	Sample ID
0	0-0.05 Grass and organic matter + grey silty sand + frequent Glass fragments- minor pottery (ceramic) pieces						TP8-0.1
0.5	0.3-0.9 Grey/orange/red clay mottle increasing red + stiffness with depth						TP8-0.8
1.0	Discontinued target depth reach						
1.5							
2.0							
2.5							
3.0							
3.5							
4.0							
4.5							



TEST PIT LOG ENVIRONMENTAL

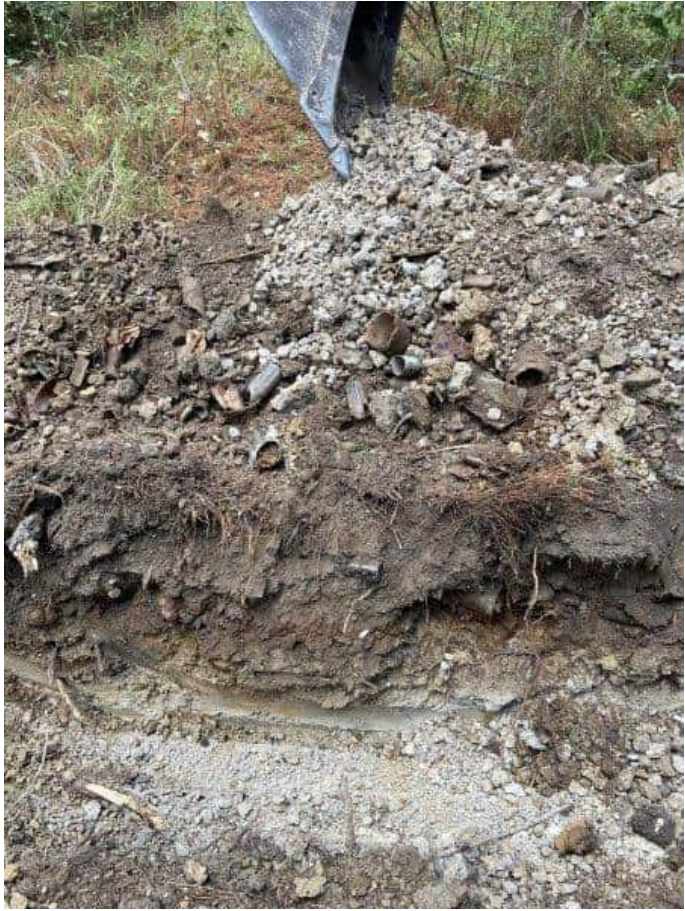
Client:	Noosa Council	Machine:	8T Excavator	Test Pit No:	TP9
Project:	Contaminated Land Assessment	Type/Model:	-	Easting/Northing:	
Job No.:	125	Operator:	AW/ZW	Grid Ref:	
Location:	Lot 105 SP118458	Width:	300mm	Elevation:	
Date:	24 February 2023	Pit Width/Length (m):		Logged/Checked by:	ZW/AW

Depth (m)	Soil type (Classification Group Symbol); Particle size; Colour; Secondary/Minor components	Consistency	Moisture	Odours, staining, waste materials, separate phase liquids, imported fill, ash?	Water	PID (ppm)	Sample ID
0	0-0.25 Grass and organic matter + grey silty sand + frequent glass Fragments, ceramic and piece of metal sheeting (20cm diameter)						TP9-0.1
0.25	0.25-0.8 Grey/orange/red clay mottle increasing red + stiffness with depth						TP9-0.3
0.5							
0.8							
1.0	Discontinued target depth reach						
1.5							
2.0							
2.5							
3.0							
3.5							
4.0							
4.5							



TEST PIT LOG ENVIRONMENTAL

Client:	Noosa Council	Machine:	8T Excavator	Test Pit No:	TP10
Project:	Contaminated Land Assessment	Type/Model:	-	Easting/Northing:	
Job No.:	125	Operator:	AW/ZW	Grid Ref:	
Location:	Lot 105 SP118458	Width:	300mm	Elevation:	
Date:	24 February 2023	Pit Width/Length (m):		Logged/Checked by:	ZW/AW

Depth (m)	Soil type (Classification Group Symbol); Particle size; Colour; Secondary/Minor components	Consistency	Moisture	Odours, staining, waste materials, separate phase liquids, imported fill, ash?	Water	PID (ppm)	Sample ID
0	0-0.0.6 Grey silty sand with numerous waste materials including AC, Bottles, ceramic, metal, plastic, wire, electronics (transistors?), old meat thermometer						TP10-0.1
0.5							TP10-0.5
Discontinued target depth reach							
1.0							TP10-0.7
1.5							
2.0							
2.5							
3.0							
3.5							
4.0							
4.5							



TEST PIT LOG ENVIRONMENTAL

Client:	Noosa Council	Machine:	8T Excavator	Test Pit No:	TP11
Project:	Contaminated Land Assessment	Type/Model:	-	Easting/Northing:	
Job No.:	125	Operator:	AW/ZW	Grid Ref:	
Location:	Lot 105 SP118458	Width:	300mm	Elevation:	
Date:	24 February 2023	Pit Width/Length (m):		Logged/Checked by:	ZW/AW

Depth (m)	Soil type (Classification Group Symbol); Particle size; Colour; Secondary/Minor components	Consistency	Moisture	Odours, staining, waste materials, separate phase liquids, imported fill, ash?	Water	PID (ppm)	Sample ID
0	0-0.05 Grass and organic matter + grey silty sand – likely fill						
	0.05-0.25 Grey silty sand – likely fill with suspect AC fragment + glass						TP11-0.1
	0.25-0.6 Orange/grey mottle clay natural						
0.5							TP11-0.5
	Discontinued target depth reach						
1.0							
1.5							
2.0							
2.5							
3.0							
3.5							
4.0							
4.5							



TEST PIT LOG ENVIRONMENTAL

Client:	Noosa Council	Machine:	8T Excavator	Test Pit No:	TP12
Project:	Stage Two Contaminated Land Assessment	Type/Model:	Kobelco	Grid Ref:	
Job No.:	125	Operator:	Bebrok	Elevation:	
Location:	Lot 105 SP118458	Width:	300mm	Logged/Checked by:	IH
Date:	19-2-24 February 2024	Pit Width/Length (m):	0.6x5		

Depth (m)	Soil type (Classification Group Symbol); Particle size; Colour; Secondary/Minor components	Moisture / Water	Odours, staining, waste materials, separate phase liquids, imported fill, ash?	PID (ppm)	Methane (ppm)	Sample ID
	0-0.05 Grass and organic matter					○ TP12-0.1
	0.05-1.7 Red sandy clay, minor gravel					
0.5						○ TP12-0.5
1.0						○ TP12-1.0
1.5						
2.0	1.7-3.1 White to orange sandy clay fine to coarse gravel, semi-rounded quartz					○ TP12-2.0
2.5						
3.0						
3.5	Discontinued target depth reach					



TEST PIT LOG ENVIRONMENTAL

Client:	Noosa Council	Machine:	BT Excavator	Test Pit No:	TP13
Project:	Stage Two Contaminated Land Assessment	Type/Model:	Kobelco	Grid Ref:	
Job No.:	125	Operator:	Bebrok	Elevation:	
Location:	Lot 105 SP118458	Pit Width/Length (m):	0.6x5	Logged/Checked by:	IH
Date:	19 February 2024				

Depth (m)	Soil type (Classification Group Symbol): Particle size; Colour; Secondary/Minor components	Moisture / Water	Odours, staining, waste materials, separate phase liquids, imported fill, ash?	PID (ppm)	Methane (ppm)	Sample ID
0 -	0.05 Grass and organic matter 0.05-2.2 Red sandy clay, minor gravel				0	TP13-0.1
0.5					0	TP13-0.5
1.0					0	TP13-1.0
1.5						
2.0						
			W Water Seepage			
2.5	2.2-2.8 white to orange sandy clay fine to coarse gravel semi-rounded quartz					
3.0	Discontinued target depth reach					
3.5						



TEST PIT LOG ENVIRONMENTAL

Client:	Noosa Council	Machine:	BT Excavator	Test Pit No:	TP14
Project:	Stage Two Contaminated Land Assessment	Type/Model:	Kobelco	Grid Ref:	
Job No.:	125	Operator:	Bebrok	Elevation:	
Location:	Lot 105 SP118458	Width:	300mm	Logged/Checked by:	IH
Date:	19 February 2024	Pit Width/Length (m):	0.6 x 5		

Depth (m)	Soil type (Classification Group Symbol); Particle size; Colour; Secondary/Minor components	Moisture / Water	Odours, staining, waste materials, separate phase liquids, imported fill, ash?	PID (ppm)	Methane (ppm)	Sample ID
	0-0.05 Grass and organic matter 0.05-3.3 Red sandy clay, minor gravel					TP14-0.1 0 TP14-0.1
0.5			glass jar Plastic strap			0 TP14-0.5
1.0						0 TP14-1.0
1.5						
2.0						0 TP14-2.0
2.5						
3.0						
3.5	Discontinued target depth reach					0 TP14-3.3



TEST PIT LOG ENVIRONMENTAL

Client:	Noosa Council	Machine:	BT Excavator	Test Pit No:	TP15
Project:	Stage Two Contaminated Land Assessment	Type/Model:	Kobelco	Grid Ref:	
Job No.:	125	Operator:	Bebrok	Elevation:	
Location:	Lot 105 SP118458	Width:	300mm	Logged/Checked by:	IH
Date:	19 February 2024	Pit Width/Length (m):	0.6 x 5		

Depth (m)	Soil type (Classification Group Symbol); Particle size; Colour; Secondary/Minor components	Moisture / Water	Odours, staining, waste materials, separate phase liquids, imported fill, ash?	PID (ppm)	Methane (ppm)	Sample ID
0-0.05	Grass and organic matter					TP15-0.1
0.05-0.25	FILL orange/brown clay, fine to coarse gravel, minor ceramic					
0.5	0.05-2.3 Red sandy clay, minor fine to medium gravel (quartz)		Small bitumen fragment 2x nails			TP15-0.5
1.0						TP15-1.0
1.5						
2.0						TP15-2.0
2.5	Discontinued target depth reach					
3.0						
3.5						



TEST PIT LOG ENVIRONMENTAL

Client:	Noosa Council	Machine:	8T Excavator	Test Pit No:	TP16
Project:	Stage Two Contaminated Land Assessment	Type/Model:	Kobelco	Grid Ref:	
Job No.:	125	Operator:	Bebrok	Elevation:	
Location:	Lot 105 SP118458	Width:	300mm	Logged/Checked by:	IH
Date:	19 February 2024	Pit Width/Length (m):	0.6 x 5		

Depth (m)	Soil type (Classification Group Symbol); Particle size; Colour; Secondary/Minor components	Moisture / Water	Odours, staining, waste materials, separate phase liquids, imported fill, ash?	PID (ppm)	Methane (ppm)	Sample ID
	0-0.05 grass and organic matter 0.05-2.5 Red sandyclay, minor fine to medium gravel					0 TP16-0.01
0.5						0 TP16-0.5
1.0						0 TP16-1.0
1.5						
2.0						
2.5	Discontinued target depth reach					
3.0						
3.5						



TEST PIT LOG ENVIRONMENTAL

Client:	Noosa Council	Machine:	8T Excavator	Test Pit No:	TP17
Project:	Stage Two Contaminated Land Assessment	Type/Model:	Kobelco	Grid Ref:	
Job No.:	125	Operator:	Bebrok	Elevation:	
Location:	Lot 106 SP118458	Width:	300mm	Logged/Checked by:	IH
Date:	19 February 2024	Pit Width/Length (m):	0.6 x 5		

Depth (m)	Soil type (Classification Group Symbol); Particle size; Colour; Secondary/Minor components	Moisture / Water	Odours, staining, waste materials, separate phase liquids, imported fill, ash?	PH (ppm)	Methane (ppm)	Sample ID
	0-0.05 grass and organic matter 0.05-1.7 Red sandy clay, minor fine to medium gravel				0	TP17-0.1
0.5						0 TP17-0.5
1.0						
1.5						0 TP17-1.5
<hr/> <i>Discontinued target depth reach</i>						
2.0						
2.5						
3.0						
3.5						



TEST PIT LOG ENVIRONMENTAL

Client:	Noosa Council	Machine:	BT Excavator	Test Pit No:	TP18
Project:	Stage Two Contaminated Land Assessment	Type/Model:	Kobelco	Grid Ref:	
Job No.:	125	Operator:	Bebrok	Elevation:	
Location:	Lot 105 SP118458	Width:	300mm	Logged/Checked by:	IH
Date:	19 February 2024	Pit Width/Length (m):	0.6 x 5		

Depth (m)	Soil type (Classification Group Symbol); Particle size; Colour; Secondary/Minor components	Moisture / Water	Odours, staining, waste materials, separate phase liquids, imported fill, ash?	PID (ppm)	Methane (ppm)	Sample ID
	0-0.12 grass and organic matter, crusher dust 0.12-1.9 Red sandy clay, minor fine to medium gravel					0 TP18-0.1
0.5						0 TP18-0.5
1.0						0 TP18-1.0
1.5						
2.0	Discontinued target depth reach					
2.5						
3.0						
3.5						



TEST PIT LOG ENVIRONMENTAL

Client:	Noosa Council	Machine:	BT Excavator	Test Pit No:	TP19
Project:	Stage Two Contaminated Land Assessment	Type/Model:	Kobelco	Grid Ref:	
Job No.:	125	Operator:	Bebrok	Elevation:	
Location:	Lot 105 SP118458	Pit Width/Length (m):	0.6x5	Logged/Checked by:	IH
Date:	19 February 2024				

Depth (m)	Soil type (Classification Group Symbol), Particle size; Colour; Secondary/Minor components	Moisture / Water	Odnors, staining, waste materials, separate phase liquids, imported fill, ash?	PID (ppm)	Methane (ppm)	Sample ID
	0-2.05 grass and organic matter 0.05 - 1.0 SANDY CLAY, RED, SOME SILT				0	TP19-0.1
0.5		W INGRESS			0	TP19-0.5
1.0		W INGRESS			0	TP19-1.0
	1.0 - 1.8 RED sandy clay, minor fine to medium gravel					
1.5					0	TP19-1.5
	1.8 - 2.5 - WHITE/RED matrix sandy clay with weakly cemented sandstone increasing with depth					
2.0						0 TP19-2.2
2.5	Discontinued target depth reach					
3.0						
3.5						



TEST PIT LOG ENVIRONMENTAL

Client:	Noosa Council	Machine:	RT Excavator	Test Pit No:	TP20
Project:	Stage Two Contaminated Land Assessment	Type/Model:	Kobelco	Grid Ref:	
Job No.:	125	Operator:	Bebrook	Elevation:	
Location:	Lot 105 SP118458	Pit Width/Length (m):	0.6x5	Logged/Checked by:	IH
Date:	19 February 2024				

Depth (m)	Soil type (Classification Group Symbol); Particle size; Colour; Secondary/Minor components	Moisture / Water	Odours, staining, waste materials, separate phase liquids, imported fill, ash?	PID (ppm)	Methane (ppm)	Sample ID
0-0.05	grass and organic matter					
0.05-2.7	Red sandy clay, minor fine to medium gravel					
0.5						0 TP20-0.5
1.0						0 TP20-1.0
1.5						
2.0						
2.5						
2.7-2.8	red orange sandy clay with weakly cemented sandstone					
3.0	Discontinued target depth reach					0 TP20-2.8
3.5						



TEST PIT LOG ENVIRONMENTAL

Client:	Noosa Council	Machine:	BT Excavator	Test Pit No:	TP21
Project:	Stage Two Contaminated Land Assessment	Type/Model:	Kobelco	Grid Ref:	
Job No.:	125	Operator:	Bebrok	Elevation:	
Location:	Lot 105 SP118458	Pit Width/Length (m):	0.6x5	Logged/Checked by:	IH
Date:	19 February 2024				

Depth (m)	Soil type (Classification Group Symbol); Particle size; Colour; Secondary/Minor components	Moisture / Water	Odours, staining, waste materials, separate phase liquids, imported fill, ash?	PID (ppm)	Methane (ppm)	Sample ID
	0-0.05 grass and organic matter					0 TP21-0.1
	0.05-2.3 Red sandy clay, minor fine to medium gravel					
0.5						0 TP21-0.5
1.0						0 TP21-1.0
1.5						
2.0						
2.5	2.3-2.8 white/red mottle sandy clay with weakly cemented sandstone increasing with depth					
3.0	Discontinued target depth reach					
3.5						



TEST PIT LOG ENVIRONMENTAL

Client:	Noosa Council	Machine:	8T Excavator	Test Pit No:	TP22
Project:	Stage Two Contaminated Land Assessment	Type/Model:	Kobelco	Grid Ref:	
Job No.:	125	Operator:	Bebrok	Elevation:	
Location:	Lot 105 SP118458	Width:	300mm	Logged/Checked by:	IH
Date:	19 February 2024	Pit Width/Length (m):	0.6 x 5		

Depth (m)	Soil type (Classification Group Symbol); Particle size; Colour; Secondary/Minor components	Moisture / Water	Odours, staining, waste materials, separate phase liquids, imported fill, ash?	PID (ppm)	Methane (ppm)	Sample ID
	0-0.05 grass and organic matter 0.05-1.8 Red sandy clay, minor fine to medium gravel				0	TP22-0.1
0.5					0	TP22-0.5
1.0					0	TP22-1.0
1.5						
2.0	1.8-2.5 white/red mottle sandy clay with weakly cemented sandstone increasing with depth					
2.5	Discontinued target depth reach					
3.0						
3.5						



TEST PIT LOG ENVIRONMENTAL

Client:	Noosa Council	Machine:	BT Excavator	Test Pit No:	TP23
Project:	Stage Two Contaminated Land Assessment	Type/Model:	Kobelco	Grid Ref:	
Job No.:	125	Operator:	Bebrok	Elevation:	
Location:	Lot 105 SP118458	Pit Width/Length (m):	0.6 x 5	Logged/Checked by:	IH
Date:	19 February 2024				

Depth (m)	Soil type (Classification Group Symbol); Particle size; Colour; Secondary/Minor components	Moisture / Water	Odours, staining, waste materials, separate phase liquids, imported fill, ash?	PHD (ppm)	Methane (ppm)	Sample ID
	0-0.05 grass and organic matter					o TP23-0.1
	0.05-2.5 Red sandy clay, minor fine to medium gravel					
0.5						o TP23-0.5
1.0						o TP23-1.0
1.5						
2.0						
2.5						o TP23-2.5
	Discontinued target depth reach					
3.0						
3.5						



TEST PIT LOG ENVIRONMENTAL

Client:	Noosa Council	Machine:	BT Excavator	Test Pit No:	TP24
Project:	Stage Two Contaminated Land Assessment	Type/Model:	Kobelco	Grid Ref:	
Job No.:	125	Operator:	Bebrok	Elevation:	
Location:	Lot 105 SP118458	Width:	300mm	Logged/Checked by:	IH
Date:	19 February 2024	Pit Width/Length (m):	0.6x5		

Depth (m)	Soil type (Classification Group Symbol); Particle size; Colour; Secondary/Minor components	Moisture / Water	Odours, staining, waste materials, separate phase liquids, imported fill, ash?	PID (ppm)	Methane (ppm)	Sample ID
	0-0.05 grass and organic matter				0	TP24-0.1
	0.05-2.1 Red sandy clay, minor fine to medium gravel.					
0.5			Broken ceramic teacup + 2 saucers		1	TP24-0.5
					0	TP24-0.7
1.0					0	TP24-1.0
1.5						
2.0						
	2.1-3.1 white/red mottle sandy clay with weakly cemented sandstone increasing with depth					
2.5						
3.0						
	Discontinued target depth reach					
3.5						



TEST PIT LOG ENVIRONMENTAL

Client:	Noosa Council	Machine:	BT Excavator	Test Pit No:	TP25
Project:	Stage Two Contaminated Land Assessment	Type/Model:	Kobelco	Grid Ref:	
Job No.:	125	Operator:	Bebrok	Elevation:	
Location:	Lot 105 SP118458	Width:	300mm	Logged/Checked by:	IH
Date:	19 February 2024	Pit Width/Length (m):	0.6x5		

Depth (m)	Soil type (Classification Group Symbol); Particle size; Colour; Secondary/Minor components	Moisture / Water	Odours, staining, waste materials, separate phase liquids, imported fill, ash?	PID (ppm)	Methane (ppm)	Sample ID
	0-0.05 grass and organic matter 0.05-2.0 Red sandy clay, minor fine to medium gravel					1 TP25-0.1
0.5						1 TP25-0.5
1.0						0 TP25-1.0
1.5						
2.0	2.0-2.5 white/red mottle sandy clay with weakly cemented sandstone increasing with depth.					
2.5	Discontinued target depth range					
3.0						
3.5						



TEST PIT LOG ENVIRONMENTAL

Client:	Noosa Council	Machine:	8T Excavator	Test Pit No:	TP26
Project:	Stage Two Contaminated Land Assessment	Type/Model:	Kobelco	Grid Ref:	
Job No.:	125	Operator:	Bebrok	Elevation:	
Location:	Lot 105 SP118458	Width:	300mm	Logged/Checked by:	IH
Date:	19 February 2024	Pit Width/Length (m):	0.6x5		

Depth (m)	Soil type (Classification Group Symbol); Particle size; Colour; Secondary/Minor components	Moisture / Water	Odours, staining, waste materials, separate phase liquids, imported fill, ash?	PID (ppm)	Methane (ppm)	Sample ID
	0-0.05 grass and organic matter				0	TP26-0.1
	0.05-1.8 Red sandy clay, minor fine to medium gravel					
0.5						1 TP26-0.5
1.0						1 TP26-1.0
1.5						
2.0	1.8-2.0 white/red mottle sandy clay with weakly cemented sandstone increasing with depth Discontinued Discontinued target depth range					
2.5						
3.0						
3.5						



TEST PIT LOG ENVIRONMENTAL

Client:	Noosa Council	Machine:	BT Excavator	Test Pit No:	TP27
Project:	Stage Two Contaminated Land Assessment	Type/Model:	Kobelco	Grid Ref:	
Job No.:	125	Operator:	Bebrok	Elevation:	
Location:	Lot 105 SP118458	Width:	300mm	Pit Width/Length (m):	50m Transects
Date:	20 February 2024	Logged/Checked by:			IH

Depth (m)	Soil type (Classification Group Symbol); Particle size; Colour; Secondary/Minor components	Moisture / Water	Odours, staining, waste materials, separate phase liquids, imported fill, ash?	PID (ppm)	Methane (ppm)	Sample ID
0-0.05	grass and organic matter					1 TP27-0.1
0.05-0.6	brown silty sand, fine to medium gravel - occasionally					
0.1						
0.5						1 TP27-0.5
0.6-1.0	light brown clayey sand, fine to medium sandstone gravel - likely natural					
1.0						0 TP27-1.0
	Discontinued target depth reach					
1.5						
2.0						
2.5						
3.0						
3.5						

completed as 2 transects of total length 50m with ceramic, glass fragments and 4x metal night soil containers and 1/2 brick



TEST PIT LOG ENVIRONMENTAL

Client:	Noosa Council	Machine:	8T Excavator	Test Pit No:	TP28
Project:	Stage Two Contaminated Land Assessment	Type/Model:	Kobelco	Grid Ref:	
Job No.:	125	Operator:	Bebrok	Elevation:	
Location:	Lot 105 SP116458	Width:	300mm	Logged/Checked by:	IH
Date:	20 February 2024	Pit Width/Length (m):	5x0.6		

Depth (m)	Soil type (Classification Group Symbol); Particle size; Colour; Secondary/Minor components	Moisture / Water	Odours, staining, waste materials, separate phase liquids, imported fill, ash?	PID (ppm)	Methane (ppm)	Sample ID
0-0.05	grass and organic matter					
0.05-0.7	brown silty sand, occasional fine to medium gravel					1 TP28-0-1
0.5						1 TP28-0-5
0.7-1.2	light brown clayey sand fine to medium sandstone gravel					
1.0						0 TP28-1-0
1.2-1.4	red to grey weakly cemented sandstone	W	ingress			
1.5	Discontinued target depth reach					
2.0						
2.5						
3.0						
3.5						



TEST PIT LOG ENVIRONMENTAL

Client:	Noosa Council	Machine:	BT Excavator	Test Pit No:	TP29
Project:	Stage Two Contaminated Land Assessment	Type/Model:	Kobelco	Grid Ref:	
Job No.:	125	Operator:	Bebrok	Elevation:	
Location:	Lot 105 SP118458	Width:	300mm	Logged/Checked by:	IH
Date:	20 February 2024	Pit Width/Length (m):	0.6x5		

Depth (m)	Soil type (Classification Group Symbol); Particle size; Colour; Secondary/Minor components	Moisture / Water	Odours, staining, waste materials, separate phase liquids, imported fill, ash?	PID (ppm)	Methane (ppm)	Sample ID
	0-0.05 grass and organic matter 0.05-0.5 grey silty sand, occasional fine to medium gravel					0 TP29-0.1
0.5	0.5-1.1 light brown sandy clay, fine to medium gravel (sandstone gravel)					0 TP29-0.5
1.0						0 TP29-1.0
1.5	1.1-2.4 orange grey weakly cemented clayey sandstone, with some more strongly cemented red sandstone	W	ingress			
2.0						
2.5	Discontinued target depth reach					0 TP29-2.4
3.0						
3.5						



TEST PIT LOG ENVIRONMENTAL

Client:	Noosa Council	Machine:	8T Excavator	Test Pit No:	TP30
Project:	Stage Two Contaminated Land Assessment	Type/Model:	Kobelco	Grid Ref:	
Job No.:	125	Operator:	Bebrok	Elevation:	
Location:	Lot 105 SP118458	Width:	300mm	Logged/Checked by:	IH
Date:	20 February 2024	Pit Width/Length (m):	0.6 x 5		

Depth (m)	Soil type (Classification Group Symbol); Particle size; Colour; Secondary/Minor components	Moisture / Water	Ocours, staining, waste materials, separate phase liquids, imported fill, ash?	PHD (ppm)	Methane (ppm)	Sample ID
0-0.05	grass and organic matter					
0.05-0.5	grey silty sand, occasional fine to medium gravel					0 TP30-0.1
0.5	0.5-1.2 light brown sandy clay, fine to medium gravel					0 TP30-0.5
1.0						0 TP30-1.0
1.5	1.2-1.5 orange grey weakly cemented sandstone, with some more strongly cemented red sandstone	W	ingress			
2.0	Discontinued target depth reach					
2.5						
3.0						
3.5						



TEST PIT LOG ENVIRONMENTAL

Client:	Noosa Council	Machine:	BT Excavator	Test Pit No:	TP31
Project:	Stage Two Contaminated Land Assessment	Type/Model:	Kobelco	Grid Ref:	
Job No.:	125	Operator:	Bebrok	Elevation:	
Location:	Lot 105 SP118458	Pit Width/Length (m):	0.6x5	Logged/Checked by:	IH
Date:	20 February 2024				

Depth (m)	Soil type (Classification Group Symbol); Particle size; Colour; Secondary/Minor components	Moisture / Water	Odours, staining, waste materials, separate phase liquids, imported fill, ash?	PID (ppm)	Methane (ppm)	Sample ID
0-0.05	grass and organic matter				0	TP31-0.1
0.05-0.3	grey silty sand occasional fine to medium gravel					
0.3-1.0	light brown clayey sand with fine to coarse sandstone gravel and boulders				0	TP31-0.5
1.0	1.0-1.6 grey red weakly cemented sandstone with sandy clay				0	TP31-1.0
1.5	Discontinued target depth reach					
2.0						
2.5						
3.0						
3.5						



TEST PIT LOG ENVIRONMENTAL

Client:	Ncosa Council	Machine:	8T Excavator	Test Pit No:	TP32
Project:	Stage Two Contaminated Land Assessment	Type/Model:	Kobelco	Grid Ref:	
Job No.:	125	Operator:	Bebrok	Elevation:	
Location:	Lot 105 SP118458	Width:	300mm	Logged/Checked by:	IH
Date:	20 February 2024	Pit Width/Length (m):	0.6 x 5		

Depth (m)	Soil type (Classification Group Symbol); Particle size; Colour; Secondary/Minor components	Moisture / Water	Odours, staining, waste materials, separate phase liquids, imported fill, ash?	PID (ppm)	Methane (ppm)	Sample ID
0-0.05						
0.05-0.8	light brown clayey sand fine to medium gravel					TP32-0.1
0.5						TP32-0.5
0.8-1.5	sandy clay with fine to coarse sandstone gravel					TP32-1.0
1.0						
1.5						
	Discontinued target depth reach					
2.0						
2.5						
3.0						
3.5						



TEST PIT LOG ENVIRONMENTAL

Client:	Noosa Council	Machine:	BT Excavator	Test Pit No:	TP33
Project:	Stage Two Contaminated Land Assessment	Type/Model:	Kobelco	Grid Ref:	
Job No.:	125	Operator:	Bebrok	Elevation:	
Location:	Lot 105 SP118458	Width:	300mm	Logged/Checked by:	IH
Date:	20 February 2024	Pit Width/Length (m):	0.6 x 5		

Depth (m)	Soil type (Classification Group Symbol); Particle size; Colour; Secondary/Minor components	Moisture / Water	Odcours, staining, waste materials, separate phase liquids, imported fill, ash?	PID (ppm)	Methane (ppm)	Sample ID
	0-0.05 grass and organic matter 0.05-0.5 grey clayey sand with fine to medium gravel 0.05-0.5				0	TP33-0.1
0.5	0.5-1.7 Red sandy clay, fine to coarse sandstone gravel and boulders				0	TP33-0.5
1.0						0 TP33-1.0
1.5						
2.0	1.7-2.3 white red mottle sandy clay with weakly cemented sandstone increasing with depth					0 TP33-2.3
2.5	Discontinued target depth range					
3.0						
3.5						



TEST PIT LOG ENVIRONMENTAL

Client:	Noosa Council	Machine:	8T Excavator	Test Pit No:	TP34
Project:	Stage Two Contaminated Land Assessment	Type/Model:	Kobelco	Grid Ref:	
Job No.:	125	Operator:	Bebrok	Elevation:	
Location:	Lot 105 SP118458	Width:	300mm	Logged/Checked by:	IH
Date:	20 February 2024	Pit Width/Length (m):	0.6-5		

Depth (m)	Soil type (Classification Group Symbol); Particle size; Colour; Secondary/Minor components	Moisture / Water	Odours, staining, waste materials, separate phase liquids, imported fill, ash?	FID (ppm)	Methane (ppm)	Sample ID
0-0.05	grass and organic matter					0 TP34-0.1
0.05-0.7	grey clayey sand with fine to medium gravel					
0.5						0 TP34-0.5
0.7-1.3	red sandy clay, fine to coarse sandstone gravel					
1.0						0 TP34-1.0
1.3-1.7	white red mottle dry sandy clay with weakly cemented sandstone and boulders increasing with depth					
1.5						
2.0	Discontinued target depth reach					
2.5						
3.0						
3.5						



TEST PIT LOG ENVIRONMENTAL

Client:	Noosa Council	Machine:	BT Excavator	Test Pit No:	TP35
Project:	Stage Two Contaminated Land Assessment	Type/Model:	Kobelco	Grid Ref:	
Job No.:	125	Operator:	Betrok	Elevation:	
Location:	Lot 105 SP118458	Pit Width/Length (m):	0.6 x 5	Logged/Checked by:	IH
Date:	20 February 2024				

Depth (m)	Soil type (Classification Group Symbol); Particle size; Colour; Secondary/Minor components	Moisture / Water	Odours, staining, waste materials, separate phase liquids, imported fill, ash?	PID (ppm)	Methans (ppm)	Sample ID
0-0.05	grass and organic matter					TP35-0.1
0.05-0.5	grey clayey sand with fine to medium gravel					
0.5	0.5-1.0 light brown sandy clay, fine to coarse sandstone gravel					TP35-0.5
1.0	1.0-1.3 red sandstone, weakly cemented with minor clay					TP35-1.0
1.5	Discontinued target depth reach					
2.0						
2.5						
3.0						
3.5						



TEST PIT LOG ENVIRONMENTAL

Client:	Noosa Council	Machine:	BT Excavator	Test Pit No:	TP36
Project:	Stage Two Contaminated Land Assessment	Type/Model:	Kobelco	Grid Ref:	
Job No.:	125	Operator:	Bebrok	Elevation:	
Location:	Lot 105 SP118458	Width:	300mm	Logged/Checked by:	IH
Date:	21 February 2024	Pit Width/Length (m):	0.6x5		

Depth (m)	Soil type (Classification Group Symbol); Particle size; Colour; Secondary/Minor components	Moisture / Water	Oilours, staining, waste materials, separate phase liquids, imported fill, ash?	PID (ppm)	Methane (ppm)	Sample ID
	0-0.05 grass and organic matter				0	TP36-0.0
	0.05-0.4 grey silty sand, occasional fine to medium gravel					
0.5	0.4-0.8 light brown sandy clay, fine to coarse gravel				1	TP36-0.5
	<hr/>					
1.0	0.8-2.3 red grey mottle sandstone, weakly cemented with minor clay				0	TP36-1.0
1.5						
2.0						
						TP36-2.3
2.5	Discontinued, target depth reach					
3.0						
3.5						



TEST PIT LOG ENVIRONMENTAL

Client:	Noosa Council	Machine:	BT Excavator	Test Pit No:	TP37
Project:	Stage Two Contaminated Land Assessment	Type/Model:	Kobelco	Grid Ref:	
Job No.:	125	Operator:	Bebrok	Elevation:	
Location:	Lot 105 SP118458	Width:	300mm	Logged/Checked by:	IH
Date:	21 February 2024	Pit Width/Length (m):	0.6x5		

Depth (m)	Soil type (Classification Group Symbol); Particle size; Colour; Secondary/Minor components	Moisture / Water	Odours, staining, waste materials, separate phase liquids, imported fill, ash?	PID (ppm)	Methane (ppm)	Sample ID
	0.0-0.05 grass and organic matter				0	TP37-0.1
	0.05-0.3 grey silt sand, occasional fine to medium gravel					
0.5	0.3-0.9 light brown sandy clay, fine to coarse gravel				0	TP37-0.5
1.0	0.9-1.3 red grey mottled sandstone, weakly cemented with minor clay	W ingress			0	TP37-1.0
1.5	Discontinued target depth reach					
2.0						
2.5						
3.0						
3.5						



TEST PIT LOG ENVIRONMENTAL

Client:	Noosa Council	Machine:	8T Excavator	Test Pit No:	TP38
Project:	Stage Two Contaminated Land Assessment	Type/Model:	Kobelco	Grid Ref:	
Job No.:	125	Operator:	Bebrok	Elevation:	
Location:	Lot 105 SP118458	Width:	300mm	Logged/Checked by:	IH
Date:	21 February 2024	Pit Width/Length (m):	0.6 x 5		

Depth (m)	Soil type (Classification Group Symbol); Particle size; Colour; Secondary/Minor components	Moisture / Water	Odours, staining, waste materials, separate phase liquids, imported fill, ash?	PID (ppm)	Methane (ppm)	Sample ID
0-0.05	grass and organic matter					1 TP38-0.1
0.05-0.4	gray silty sand, with frequent waste		glass, ceramic, metal leaf suspension of 13cm scap (Possible woven asbestos)			
0.4-1.4	Red gray mottled sandy clay with weakly cemented sandstone increasing with depth					1 TP38-0.5
1.0						0 TP38-1.0
1.5	Discontinued target depth reach					
2.0						
2.5						
3.0						
3.5						



TEST PIT LOG ENVIRONMENTAL

Client:	Noosa Council	Machine:	BT Excavator	Test Pit No:	TP39
Project:	Stage Two Contaminated Land Assessment	Type/Model:	Kobelco	Grid Ref:	
Job No.:	125	Operator:	Bebrok	Elevation:	
Location:	Lot 105 SP118458	Width:	300mm	Logged/Checked by:	IH
Date:	21 February 2024	Pit Width/Length (m):	0.6 x 5		

Depth (m)	Soil type (Classification Group Symbol); Particle size; Colour; Secondary/Minor components	Moisture / Water	Odours, staining, waste materials, separate phase liquids, imported fill, ash?	PID (ppm)	Methane (ppm)	Sample ID
	0-0.05 grass and organic matter				1	TP39-0.1
	0.05-0.3 grey silty sand, fine to medium gravel					
	0.3-0.6 grey light brown sandy clay fine to medium gravel					
0.5					1	TP39-0.5
	0.6-1.2 grey red mottle clay with fine to medium gravel					
1.0					0	TP39-1.0
	Discontinued target depth reach					
1.5						
2.0						
2.5						
3.0						
3.5						



TEST PIT LOG ENVIRONMENTAL

Client:	Noosa Council	Machine:	BT Excavator	Test Pit No:	TP40
Project:	Stage Two Contaminated Land Assessment	Type/Model:	Kobelco	Grid Ref:	
Job No.:	125	Operator:	Bebrok	Elevation:	
Location:	Lot 105 SP118458	Width:	300mm	Logged/Checked by:	IH
Date:	21 February 2024	Pit Width/Length (m):	0.6x5		

Depth (m)	Soil type (Classification Group Symbol); Particle size; Colour; Secondary/Minor components	Moisture / Water	Odours, staining, waste materials, separate phase liquids, imported fill, ash?	PID (ppm)	Methane (ppm)	Sample ID
	0-0.05 grass and organic matter 0.05-0.4 grey clayey sand fine to medium gravel		occasional glass and ceramic fragments			1 TP40-0.1
0.5	0.4-0.8 light brown sandy clay with fine to medium gravel					1 TP40-0.5
1.0	0.8-1.4 red gray mottled clay with fine to medium gravel					0 TP40-1.0
1.5	Discontinued target depth reach					
2.0						
2.5						
3.0						
3.5						



TEST PIT LOG ENVIRONMENTAL

Client:	Noosa Council	Machine:	8T Excavator	Test Pit No:	TP41
Project:	Stage Two Contaminated Land Assessment	Type/Model:	Kobelco	Grid Ref:	
Job No.:	125	Operator:	Bebrook	Elevation:	
Location:	Lot 105 SP118458	Width:	300mm	Logged/Checked by:	IH
Date:	21 February 2024	Pit Width/Length (m):	0.6 x 5		

Depth (m)	Soil type (Classification Group Symbol); Particle size; Colour; Secondary/Minor components	Moisture / Water	Odours, staining, waste materials, separate phase liquids, imported fill, ash?	PID (ppm)	Methane (ppm)	Sample ID
0.0-0.05	grass and organic matter					
0.05-0.4	grey silty sand with fine to medium gravel		infrequent glass and ceramic fragments			0 TP41-0.2
0.4-0.7	light brown sandy clay with fine to medium gravel					0 TP41-0.5
0.7-1.5	red grey mottled clay with fine to medium gravel					0 TP41-1.0
1.5						
	Discontinued target depth reach					
2.0						
2.5						
3.0						
3.5						



TEST PIT LOG ENVIRONMENTAL

Client:	Noosa Council	Machine:	8T Excavator	Test Pit No:	TP42
Project:	Stage Two Contaminated Land Assessment	Type/Model:	Kobelco	Grid Ref:	
Job No.:	125	Operator:	Bebrok	Elevation:	
Location:	Lot 105 SP118458	Width:	300mm	Logged/Checked by:	IH
Date:	21 February 2024	Pit Width/Length (m):	0.6x5		

Depth (m)	Soil type (Classification Group Symbol); Particle size; Colour; Secondary/Minor components	Moisture / Water	Odours, staining, waste materials, separate phase liquids, imported fill, ash?	PH (ppm)	Methane (ppm)	Sample ID
	0.0-0.05 grass and organic matter					
	0.05-0.4 grey silty sand with fine to medium gravel					1 TP42-0.2
0.5	0.4-0.7 light brown sandy clay with fine to medium gravel					1 TP42-0.5
	0.7-1.6 red grey mottled clay with fine to medium gravel					
1.0						6 TP42-1.0
1.5						
	* Discontinued target depth range					
2.0						
2.5						
3.0						
3.5						



TEST PIT LOG ENVIRONMENTAL

Client:	Noosa Council	Machine:	BT Excavator	Test Pit No:	TP43
Project:	Stage Two Contaminated Land Assessment	Type/Model:	Kobelco	Grid Ref:	
Job No.:	125	Operator:	Bebrok	Elevation:	
Location:	Lot 105 SP118458	Width:	300mm	Logged/Checked by:	IH
Date:	21 February 2024	Pit Width/Length (m):	0.6 x 5		

Depth (m)	Soil type (Classification Group Symbol); Particle size; Colour; Secondary/Minor components	Moisture / Water	Odours, staining, waste materials, separate phase liquids, imported fill, ash?	PID (ppm)	Methane (ppm)	Sample ID
	0-0.05 grass and organic matter				1	TP43-0.1
	0.05-0.4 grey silty sand with minor waste		infrequent glass			TP43-0.3
0.5	0.4-1.6 Red grey mottled sandy clay with fine to medium gravel				0	TP43-0.5
1.0					0	TP43-1.0
1.5	Discontinued target depth reach					
2.0						
2.5						
3.0						
3.5						



TEST PIT LOG ENVIRONMENTAL

Client:	Noosa Council	Machine:	BT Excavator	Test Pit No:	TP44
Project:	Stage Two Contaminated Land Assessment	Type/Model:	Kobelco	Grid Ref:	
Job No.:	125	Operator:	Bebrok	Elevation:	
Location:	Lot 105 SP118458	Width:	300mm	Logged/Checked by:	IH
Date:	21 February 2024	Pit Width/Length (m):	0.6 x 5		

Depth (m)	Soil type (Classification Group Symbol); Particle size; Colour; Secondary/Minor components	Moisture / Water	Odours, staining, waste materials, separate phase liquids, imported fill, ash?	PID (ppm)	Methane (ppm)	Sample ID
	0-0.05 grass and organic matter 0.05-0.5 grey silty sand with minor waste.		infrequent glass fragments and glass bottle			0 TP44-0.1
0.5	0.5-2.5 red grey mottled clay, fine to medium gravel					0 TP44-0.5
1.0						0 TP44-1.0
1.5						
2.0						
2.5						
	Discontinued target depth reach					
3.0						
3.5						



TEST PIT LOG ENVIRONMENTAL

Client:	Noosa Council	Machine:	BT Excavator	Test Pit No:	TP45
Project:	Stage Two Contaminated Land Assessment	Type/Model:	Kobelco	Grid Ref:	
Job No.:	125	Operator:	Bebrok	Elevation:	
Location:	Lot 105 SP118458	Width:	300mm	Logged/Checked by:	IH
Date:	21 February 2024	Pit Width/Length (m):	0.6x5		

Depth (m)	Soil type (Classification Group Symbol); Particle size; Colour; Secondary/Minor components	Moisture / Water	Odours, staining, waste materials, separate phase liquids, imported fill, ash?	PH (ppm)	Methane (ppm)	Sample ID
	0-0.05 grass and organic matter				0	TP45-0.1
	0.05-0.3 grey silty sand with fine to medium gravel		glass and ceramic			
	0.3-0.6 light brown sandy clay with fine to medium gravel					
0.5					0	TP45-0.5
	0.6-1.3 red grey mottled clay with fine to medium gravel					
1.0					0	TP45-1.0
1.5	Discontinued target depth reach					
2.0						
2.5						
3.0						
3.5						



TEST PIT LOG ENVIRONMENTAL

Client:	Noosa Council	Machine:	BT Excavator	Test Pit No:	TP46
Project:	Stage Two Contaminated Land Assessment	Type/Model:	Kobelco	Grid Ref:	
Job No.:	125	Operator:	Bebrok	Elevation:	
Location:	Lot 105 SP118458	Pit Width/Length (m):	0.6x5	Logged/Checked by:	IH
Date:	21 February 2024				

Depth (m)	Soil type (Classification Group Symbol); Particle size; Colour; Secondary/Minor components	Moisture / Water	Odours, staining, waste materials, separate phase liquids, imported fill, ash?	PID (ppm)	Methane (ppm)	Sample ID
0-0.05	grass and organic matter					
0.05-0.3	grey silty sand with fine to medium gravel		glass and ceramic fragments			1 TP46-0.2
0.3-0.6	light brown sandy clay with fine to medium gravel					
0.5						1 TP46-0.5
0.6-1.5	red grey mottled clay with fine to medium gravel					
1.0						0 TP46-1.0
1.5						
	Discontinued target depth reach					
2.0						
2.5						
3.0						
3.5						



TEST PIT LOG ENVIRONMENTAL

Client:	Noosa Council	Machine:	8T Excavator	Test Pit No:	TP47
Project:	Stags Two Contaminated Land Assessment	Type/Model:	Kobelco	Grid Ref:	
Job No.:	125	Operator:	Bebrok	Elevation:	
Location:	Lot 105 SP118458	Width:	300mm	Logged/Checked by:	IH
Date:	21 February 2024	Pit Width/Length (m):	0.6x5		

Depth (m)	Soil type (Classification Group Symbol); Particle size; Colour; Secondary/Minor components	Moisture / Water	Odours, staining, waste materials, separate phase liquids, imported fill, ash?	PID (ppm)	Methane (ppm)	Sample ID
	0-0.05 grass and organic matter					
	0.05-0.4 gray silty sand with fine to medium gravel		occasional glass and ceramic			1 TP47-0.2
0.5	0.4-0.7 light brown sandy clay with fine to medium gravel					1 TP47-0.5
	0.7-1.5 red gray mottled clay with fine to medium gravel					
1.0						0 TP47-1.0
1.5						
	Discontinued target depth reach					
2.0						
2.5						
3.0						
3.5						



TEST PIT LOG ENVIRONMENTAL

Client:	Ncoosa Council	Machine:	BT Excavator	Test Pit No:	TP48
Project:	Stage Two Contaminated Land Assessment	Type/Model:	Kobelco	Grid Ref:	
Job No.:	125	Operator:	Bebrok	Elevation:	
Location:	Lot 105 SP118458	Width:	300mm	Logged/Checked by:	IH
Date:	21 February 2024	Pit Width/Length (m):	0.6 x 5		

Depth (m)	Soil type (Classification Group Symbol); Particle size; Colour; Secondary/Minor components	Moisture / Water	Odours, staining, waste materials, separate phase liquids, imported fill, ash?	PID (ppm)	Methane (ppm)	Sample ID
	0-0.05 grass and organic matter					
	0.05-0.4 grey silty sand with minor fine to medium gravel		infrequent glass and ceramic		1	TP48-0.2
0.5	0.4-0.9 light brown sandy clay with fine to medium gravel				1	TP48-0.5
1.0	0.9-1.6 red grey mottled clay with fine to medium gravel				0	TP48-1.0
1.5						
	Discontinued target depth range					
2.0						
2.5						
3.0						
3.5						



TEST PIT LOG ENVIRONMENTAL

Client:	Noosa Council	Machine:	BT Excavator	Test Pit No:	TP49
Project:	Stage Two Contaminated Land Assessment	Type/Model:	Kobelco	Grid Ref:	
Job No.:	125	Operator:	Bebrok	Elevation:	
Location:	Lot 105 SP118458	Width:	300mm	Logged/Checked by:	IH
Date:	22 February 2024	Pit Width/Length (m):	0.6x5		

Depth (m)	Soil type (Classification Group Symbol); Particle size; Colour; Secondary/Minor components	Moisture / Water	Odours, staining, waste materials, separate phase liquids, imported fill, ash?	PID (ppm)	Methane (ppm)	Sample ID
0-0.05	grass and organic matter					
0.05-0.3	gray silty sand fine to medium gravel		glass and ceramic			o TP49-0.2
0.3-0.6	light brown sandy clay with fine to medium gravel					
0.5						o TP49-0.5
0.6-1.5	red gray mottled clay with fine to medium gravel					
1.0						o TP49-1.0
1.5						
	Discontinued target depth reach					
2.0						
2.5						
3.0						
3.5						



TEST PIT LOG ENVIRONMENTAL

Client:	Noosa Council	Machine:	BT Excavator	Test Pit No:	TP50
Project:	Stage Two Contaminated Land Assessment	Type/Model:	Kobelco	Grid Ref:	
Job No.:	125	Operator:	Bebrok	Elevation:	
Location:	Lot 105 SP118458	Width:	300mm	Logged/Checked by:	IH
Date:	22 February 2024	Pit Width/Length (m):	0.6x5		

Depth (m)	Soil type (Classification Group Symbol); Particle size; Colour; Secondary/Minor components	Moisture / Water	Odours, staining, waste materials, separate phase liquids, imported fill, ash?	PID (ppm)	Methane (ppm)	Sample ID
	0-0.05 grass and organic matter 0.05-0.4 grey silty sand, fine to medium gravel		frequent waste including glass, ceramic, metal, electrical insulators			TP50-0.1
0.5	0.4-0.8 light brown sandy clay with fine to medium gravel					TP50-0.5
1.0	0.8-1.4 red grey mottled clay with fine to medium gravel					TP50-1.0
1.5	Discontinued target depth reach					
2.0						
2.5						
3.0						
3.5						



TEST PIT LOG ENVIRONMENTAL

Client:	Noosa Council	Machine:	BT Excavator	Test Pit No:	TP51
Project:	Stage Two Contaminated Land Assessment	Type/Model:	Kobelco	Grid Ref:	
Job No.:	125	Operator:	Bebrok	Elevation:	
Location:	Lot 105 SP118458	Width:	300mm	Logged/Checked by:	IH
Date:	22 February 2024	Pit Width/Length (m):	0.6x5		

Depth (m)	Soil type (Classification Group Symbol); Particle size; Colour; Secondary/Minor components	Moisture / Water	Odours, staining, waste materials, separate phase liquids, imported fill, ash?	PID (ppm)	Methane (ppm)	Sample ID
	0-0.05 grass and organic matter					0 TP51-0.2
	0.05-0.3 grey silty sand with fine to medium gravel					
0.5	0.2-0.9 light brown sandy clay, fine to medium gravel					0 TP51-0.5
						0 TP51-0.8
1.0	0.9-2.5 red grey mottled clay with fine to medium gravel					
						0 TP51-1.4
1.5						
2.0						
2.5						
	Discontinued target depth reach					
3.0						
3.5						



TEST PIT LOG ENVIRONMENTAL

Client:	Noosa Council	Machine:	BT Excavator	Test Pit No:	TP52
Project:	Stage Two Contaminated Land Assessment	Type/Model:	Kobelco	Grid Ref:	
Job No.:	125	Operator:	Bebrok	Elevation:	
Location:	Lot 105 SP116458	Width:	300mm	Logged/Checked by:	IH
Date:	22 February 2024	Pit Width/Length (m):	0.6 x 5		

Depth (m)	Soil type (Classification Group Symbol); Particle size; Colour; Secondary/Minor components	Moisture / Water	Odours, staining, waste materials, separate phase liquids, imported fill, ash?	PID (ppm)	Methane (ppm)	Sample ID
	0-0.05 grass and organic matter				0	TP52-0.1
	0.05-0.3 grey silty sand with fine to medium gravel		glass fragments			
0.5	0.3-0.9 light brown sandy clay with fine to medium gravel				0	TP52-0.5
1.0	0.9-1.3 red grey mottled clay with fine to medium gravel				0	TP52-1.0
1.5	Discontinued target depth range					
2.0						
2.5						
3.0						
3.5						



TEST PIT LOG ENVIRONMENTAL

Client:	Noosa Council	Machine:	BT Excavator	Test Pit No:	TP53
Project:	Stage Two Contaminated Land Assessment	Type/Model:	Kobelco	Grid Ref:	
Job No.:	125	Operator:	Bebrok	Elevation:	
Location:	Lot 105 SP118458	Width:	300mm	Logged/Checked by:	IH
Date:	22 February 2024	Pit Width/Length (m):	0.6 x 5		

Depth (m)	Soil type (Classification Group Symbol); Particle size; Colour; Secondary/Minor components	Moisture / Water	Odours, staining, waste materials, separate phase liquids, imported fill, ash?	PID (ppm)	Methane (ppm)	Sample ID
	0.05-0.05 grass and organic matter					
	0.05-0.4 grey silty sand with fine to medium gravel		glass and ceramic fragments			TP53-0.2
0.5	0.4-0.7 light brown sandy clay with gravel fine to medium gravel		etc			TP53-0.5
	0.7-1.5 red grey mottled clay with fine to medium gravel					
1.0						TP53-1.0
1.5						
	Discontinued target depth reach.					
2.0						
2.5						
3.0						
3.5						



TEST PIT LOG ENVIRONMENTAL

Client:	Noosa Council	Machine:	BT Excavator	Test Pit No:	TP54
Project:	Stage Two Contaminated Land Assessment	Type/Model:	Kobelco	Grid Ref:	
Job No.:	125	Operator:	Bebrok	Elevation:	
Location:	Lot 105 SP118458	Width:	300mm	Logged/Checked by:	IH
Date:	22 February 2024	Pit Width/Length (m):	0.6x5		

Depth (m)	Soil type (Classification Group Symbol); Particle size; Colour; Secondary/Minor components	Moisture / Water	Odours, staining, waste materials, separate phase liquids, imported fill, ash?	PID (ppm)	Methane (ppm)	Sample ID
	0-0.05 grass and organic matter					1 TP54-0.1
	0.05-0.3 grey silty sand with fine to medium gravel		ceramic and glass fragments			
0.5	0.3-0.8 light brown sandy clay with fine to medium gravel					1 TP54-0.5
1.0	0.8-1.5 red grey mottled clay with fine to medium gravel					0 TP54-1.0
1.5						
	Discontinued target depth reach					
2.0						
2.5						
3.0						
3.5						



TEST PIT LOG ENVIRONMENTAL

Client:	Noosa Council	Machine:	8T Excavator	Test Pit No:	TP55
Project:	Stage Two Contaminated Land Assessment	Type/Model:	Kobelco	Grid Ref:	
Job No.:	125	Operator:	Bebrok	Elevation:	
Location:	Lot 105 SP118458	Width:	300mm	Logged/Checked by:	IH
Date:	22 February 2024	Pit Width/Length (m):	0.6x5		

Depth (m)	Soil type (Classification Group Symbol); Particle size; Colour; Secondary/Minor components	Moisture / Water	Odours, staining, waste materials, separate phase liquids, imported fill, ash?	PID (ppm)	Methane (ppm)	Sample ID
	0-0.05 grass and organic matter 0.05-0.4 grey silty sand, fine to medium gravel		glass and ACM fragment		0	TP55-0.1
0.5	0.4-1.0 light brown sandy clay with fine to medium gravel				0	TP55-0.5
1.0	1.0-1.6 red grey mottled clay with fine to medium gravel				0	TP55-1.0
1.5						
	Discontinued target depth reach					
2.0						
2.5						
3.0						
3.5						



TEST PIT LOG ENVIRONMENTAL

Client:	Noosa Council	Machine:	BT Excavator	Test Pit No:	TP56
Project:	Stage Two Contaminated Land Assessment	Type/Model:	Kobelco	Grid Ref:	
Job No.:	125	Operator:	Bebrok	Elevation:	
Location:	Lot 105 SP118458	Width:	300mm	Logged/Checked by:	IH
Date:	22 February 2024	Pit Width/Length (m):	0.6 x 5		

Depth (m)	Soil type (Classification Group Symbol); Particle size; Colour; Secondary/Minor components	Moisture / Water	Oudours, staining, waste materials, separate phase liquids, imported fill, ash?	PID (ppm)	Methane (ppm)	Sample ID
	0-0.05 grass and organic matter				0	TP56-0.1
	0.05-0.3 grey silty sand, fine to medium gravel					
0.5	0.3-0.8 light brown sandy clay with fine to medium gravel				0	TP56-0.5
1.0	0.8-1.6 red gray mottled clay with fine to medium gravel					
1.5						
2.0	Discontinued target depth reach					
2.5						
3.0						
3.5						



TEST PIT LOG ENVIRONMENTAL

Client:	Noosa Council	Machine:	BT Excavator	Test Pit No:	TP57
Project:	Stage Two Contaminated Land Assessment	Type/Model:	Kobelco	Grid Ref:	
Job No.:	125	Operator:	Bebrok	Elevation:	
Location:	Lot 105 SP118458	Width:	300mm	Logged/Checked by:	IH
Date:	22 February 2024	Pit Width/Length (m):	0.6x5		

Depth (m)	Soil type (Classification Group Symbol); Particle size; Colour; Secondary/Minor components	Moisture / Water	Odours, staining, waste materials, separate phase liquids, imported fill, ash?	PID (ppm)	Methane (ppm)	Sample ID
	0-0.05 grass and organic matter 0.05-0.4 grey silty sand, fine to medium gravel		Ceramic (infrequent) and glass (infrequent)		0	TP57-0.1
0.5	0.4-0.7 light brown sandy clay with fine to medium gravel				0	TP57-0.5
1.0	0.7-1.6 red grey mottled clay with fine to medium gravel				0	TP57-1.0
1.5						
2.0	Discontinued target depth reach					
2.5						
3.0						
3.5						



TEST PIT LOG ENVIRONMENTAL

Client:	Noosa Council	Machine:	5T Excavator	Test Pit No:	TP58
Project:	Stage Two Contaminated Land Assessment	Type/Model:	Kobelco	Grid Ref:	
Job No.:	125	Operator:	Bebrok	Elevation:	
Location:	Lot 105 SP118458	Width:	300mm	Logged/Checked by:	IH
Date:	22 February 2024	Pit Width/Length (m):	0.6x5		

Depth (m)	Soil type (Classification Group Symbol); Particle size; Colour; Secondary/Minor components	Moisture / Water	Odours, staining, waste materials, separate phase liquids, imported fill, ash?	PID (ppm)	Methane (ppm)	Sample ID
	0-0.05 grass and organic matter				0	TP58-0.1
	0.05-0.4 gray silty sand, fine to medium gravel		infrequent glass			
0.5	0.4-1.0 light brown sandy clay with fine to medium gravel				0	TP58-0.5
1.0	1.0-1.6 red grey mottled clay with fine to medium gravel					
1.5						
	Discontinued target depth reach					
2.0						
2.5						
3.0						
3.5						



TEST PIT LOG ENVIRONMENTAL

Client:	Noosa Council	Machine:	BT Excavator	Test Pit No:	TP59
Project:	Stage Two Contaminated Land Assessment	Type/Model:	Kobelco	Grid Ref:	
Job No.:	125	Operator:	Bebrok	Elevation:	
Location:	Lot 105 SP118458	Width:	300mm	Logged/Checked by:	IH
Date:	21 February 2024	Pit Width/Length (m):	0.6x5		

Depth (m)	Soil type (Classification Group Symbol); Particle size; Colour; Secondary/Minor components	Moisture / Water	Odours, staining, waste materials, separate phase liquids, imported fill, ash?	PID (ppm)	Methane (ppm)	Sample ID
0.05	0.05-0.05 grass and organic matter 0.05-0.4 grey clayey sand with fine to medium gravel		1 glass fragment			0 TP59-0.2
0.5	0.4-0.7 light brown sandy clay with fine to medium gravel					0 TP59-0.5
1.0	0.7-1.5 red grey mottled clay with fine to medium gravel					0 TP59-1.0
1.5	Discontinued target depth reach					
2.0						
2.5						
3.0						
3.5						



TEST PIT LOG ENVIRONMENTAL

Client:	Noosa Council	Machine:	8T Excavator	Test Pit No:	TP60
Project:	Stage Two Contaminated Land Assessment	Type/Model:	Kobelco	Grid Ref:	
Job No.:	125	Operator:	Bebrok	Elevation:	
Location:	Lot 105 SP118458	Width:	300mm	Logged/Checked by:	IH
Date:	22 February 2024	Pit Width/Length (m):	0.6 x 5		

Depth (m)	Soil type (Classification Group Symbol); Particle size; Colour; Secondary/Minor components	Moisture / Water	Odours, staining, waste materials, separate phase liquids, imported fill, ash?	PID (ppm)	Methane (ppm)	Sample ID
	0-0.05 grass and organic matter					0 TP60-0.1
	0.05-0.3 grey silty sands fine to medium gravel					
0.5	0.3-0.7 light brown sandy clay with fine to medium gravel					0 TP60-0.5
	0.7-1.6 red grey mottled clay with fine to medium gravel					
1.0						
1.5						
	Discontinued target depth reach					
2.0						
2.5						
3.0						
3.5						



TEST PIT LOG ENVIRONMENTAL

Client:	Noosa Council	Machine:	BT Excavator	Test Pit No:	TP61
Project:	Stage Two Contaminated Land Assessment	Type/Model:	Kobelco	Grid Ref:	
Job No.:	125	Operator:	Bebrok	Elevation:	
Location:	Lot 105 SP118458	Width:	300mm	Logged/Checked by:	IH
Date:	22-2-24 February 2024	Pit Width/Length (m):	0.6 x 5		

Depth (m)	Soil type (Classification Group Symbol); Particle size; Colour; Secondary/Minor components	Moisture / Water	Colours, staining, waste materials, separate phase liquids, imported fill, ash?	PID (ppm)	Methane (ppm)	Sample ID
0-0.05	grass and organic matter				0	TP61-0.1
0.05-0.3	grey silty sand, fine to medium gravel					
0.3-0.6	light brown sandy clay, with fine to medium gravel					TP61-0.3
0.5						
0.6-0.9	red grey mottled clay with fine to medium gravel					
1.0	Discontinued target depth reach					TP61-1.0
1.5						
2.0						
2.5						
3.0						
3.5						



TEST PIT LOG ENVIRONMENTAL

Client:	Noosa Council	Machine:	8T Excavator	Test Pit No:	TP62
Project:	Stage Two Contaminated Land Assessment	Type/Model:	Kobelco	Grid Ref:	
Job No.:	125	Operator:	Bebrok	Elevation:	
Location:	Lot 105 SP118458	Width:	300mm	Logged/Checked by:	IH
Date:	22 February 2024	Pit Width/Length (m):	0.6 x 5		

Depth (m)	Soil type (Classification Group Symbol); Particle size; Colour; Secondary/Minor components	Moisture / Water	Odours, staining, waste materials, separate phase liquids, imported fill, ash?	PID (ppm)	Methane (ppm)	Sample ID
0-0.05	grass and organic matter				0	TP62-0.1
0.05-0.3	Silty sand Sand with fine to medium gravel		infrequent glass			
0.3-0.6	light brown sandy clay with fine to medium gravel					
0.5					0	TP62-0.5
0.6-1.1	red grey mottled clay with fine to medium gravel					
1.0						
	Discontinued target depth reach					
1.5						
2.0						
2.5						
3.0						
3.5						



TEST PIT LOG ENVIRONMENTAL

Client:	Noosa Council	Machine:	BT Excavator	Test Pit No:	TP63
Project:	Stage Two Contaminated Land Assessment	Type/Model:	Kobelco	Grid Ref:	
Job No.:	125	Operator:	Bebrok	Elevation:	
Location:	Lot 105 SP118458	Width:	300mm	Logged/Checked by:	IH
Date:	22 February 2024	Pit Width/Length (m):	0.6x5		

Depth (m)	Soil type (Classification Group Symbol); Particle size; Colour; Secondary/Minor components	Moisture / Water	Odours, staining, waste materials, separate phase liquids, imported fill, ash?	PID (ppm)	Methane (ppm)	Sample ID
	0-0.05 grass and organic matter 0.05-0.4 grey silty sand, fine to medium gravel				0	TP63-0.1
0.5	0.4-0.6 light brown sandy clay with fine to medium gravel 0.6-1.0 red grey mottled clay with fine to medium gravel				0	TP63-0.5
1.0	Discontinued target depth reach					
1.5						
2.0						
2.5						
3.0						
3.5						



TEST PIT LOG ENVIRONMENTAL

Client:	Noosa Council	Machine:	BT Excavator	Test Pit No:	TP64
Project:	Stage Two Contaminated Land Assessment	Type/Model:	Kobelco	Grid Ref:	
Job No.:	125	Operator:	Bebrok	Elevation:	
Location:	Lot 105 SP118458	Width:	300mm	Logged/Checked by:	IH
Date:	21 February 2024	Pit Width/Length (m):	0.6 x 5		

Depth (m)	Soil type (Classification Group Symbol); Particle size; Colour; Secondary/Minor components	Moisture / Water	Odours, staining, waste materials, separate phase liquids, imported fill, ash?	PID (ppm)	Methane (ppm)	Sample ID
0-0.05	grass and organic matter					
0.05-0.3	grey clayey sand with fine to medium gravel					TP64-0.2
0.3-0.9	light brown sandy clay with fine to medium gravel					TP64-0.5
0.9-1.7	red grey mottled clay with fine to medium gravel					TP64-1.0
Discontinued target depth reach						



TEST PIT LOG ENVIRONMENTAL

Client:	Noosa Council	Machine:	BT Excavator	Test Pit No:	TP65
Project:	Stage Two Contaminated Land Assessment	Type/Model:	Kobelco	Grid Ref:	
Job No.:	125	Operator:	Bebrok	Elevation:	
Location:	Lot 105 SP118458	Width:	300mm	Logged/Checked by:	IH
Date:	22 February 2024	Pit Width/Length (m):	0.6x5		

Depth (m)	Soil type (Classification Group Symbol); Particle size; Colour; Secondary/Minor components	Moisture / Water	Odours, staining, waste materials, separate phase liquids, imported fill, ash?	PH (ppm)	Methane (ppm)	Sample ID
	0-0.05 grass and organic matter					0 TP65-0.1
	0.05-0.3 grey silty sandy fine to medium gravel					
	0.3-0.7 light brown sandy clay with fine to medium gravel					0 TP65-0.5
0.5						
	0.7-1.4 red grey mottled clay with fine to medium gravel					
1.0						
1.5	Discontinued target depth reach					
2.0						
2.5						
3.0						
3.5						



TEST PIT LOG ENVIRONMENTAL

Client:	Noosa Council	Machine:	BT Excavator	Test Pit No:	TP66
Project:	Stage Two Contaminated Land Assessment	Type/Model:	Kobelco	Grid Ref:	
Job No.:	125	Operator:	Bebrok	Elevation:	
Location:	Lot 105 SP118458	Width:	300mm	Logged/Checked by:	IH
Date:	22 February 2024	Pit Width/Length (m):	0.6 x 5		

Depth (m)	Soil type (Classification Group Symbol); Particle size; Colour; Secondary/Minor components	Moisture / Water	Odours, staining, waste materials, separate phase liquids, imported fill, ash?	PID (ppm)	Methane (ppm)	Sample ID
	0-0.05 grass and organic matter					
	0.05-0.3 grey silty sand, fine to medium gravel					
0.5	0.3-0.7 light brown sandy clay with fine to medium gravel					
1.0	0.7-1.4 red grey mottled clay with fine to medium gravel					
1.5	Discontinued target depth reach					
2.0						
2.5						
3.0						
3.5						



TEST PIT LOG ENVIRONMENTAL

Client:	Noosa Council	Machine:	5T Excavator	Test Pit No:	TP67
Project:	Stage Two Contaminated Land Assessment	Type/Model:	Kobelco	Grid Ref:	
Job No.:	125	Operator:	Bebrok	Elevation:	
Location:	Lot 105 SP118458	Width:	300mm	Logged/Checked by:	IH
Date:	8 May 2024	Pit Width/Length (m):	0.6 x 2		

Depth (m)	Soil type (Classification Group Symbol); Particle size; Colour; Secondary/Minor components	Moisture / Water	Odours, staining, waste materials, separate phase liquids, imported fill, ash?	PID (ppm)	Methane (ppm)	Sample ID
	0-0.05 grass and organic matter					TP67-0.1
	0.05-0.2 grey silty sand, fine to medium gravel					
	0.2-0.5 light brown sandy clay, fine to medium gravel					
0.5	0.5-1.2 red grey mottled clay with fine to medium gravel					TP67-0.5
1.0						TP67-1.0
	Discontinued target depth reach					
1.5						
2.0						
2.5						
3.0						
3.5						



TEST PIT LOG ENVIRONMENTAL

Client:	Noosa Council	Machine:	5T Excavator	Test Pit No:	TP68
Project:	Stage Two Contaminated Land Assessment	Type/Model:	Kobelco	Grid Ref:	
Job No.:	125	Operator:	Bebrok	Elevation:	
Location:	Lot 105 SP118458	Width:	300mm	Logged/Checked by:	IH
Date:	6 May 2024	Pit Width/Length (m):	0.6 x 2		

Depth (m)	Soil type (Classification Group Symbol); Particle size; Colour; Secondary/Minor components	Moisture / Water	Odours, staining, waste materials, separate phase liquids, imported fill, ash?	PH (ppm)	Methane (ppm)	Sample ID
	0-0.05 grass and organic matter					TP68-0.1
	0.05-0.3 grey silty sand, fine to medium gravel					
0.5	0.3-0.6 orange grey mottled clay fine to medium gravel					TP68-0.4
	Discontinued target depth reach					
1.0						
1.5						
2.0						
2.5						
3.0						
3.5						



TEST PIT LOG ENVIRONMENTAL

Client:	Noosa Council	Machine:	5T Excavator	Test Pit No:	TP69
Project:	Stage Two Contaminated Land Assessment	Type/Model:	Kobelco	Grid Ref:	
Job No.:	125	Operator:	Bebrok	Elevation:	
Location:	Lot 105 SP118458	Width:	300mm	Logged/Checked by:	IH
Date:	6 May 2024	Pit Width/Length (m):	0.6 x 2		

Depth (m)	Soil type (Classification Group Symbol); Particle size; Colour; Secondary/Minor components	Moisture / Water	Odours, staining, waste materials, separate phase liquids, imported fill, ash?	PID (ppm)	Methane (ppm)	Sample ID
	0-0.05 grass and organic matter					TP69a.01
	0.05-0.3 gray sand with fine gravel					
0.5	0.3-0.6 red silty clay, minor gray mottling, fine to medium gravel					
	Discontinued target depth reach					
1.0						
1.5						
2.0						
2.5						
3.0						
3.5						



TEST PIT LOG ENVIRONMENTAL

Client:	Noosa Council	Machine:	5T Excavator	Test Pit No:	TP70
Project:	Stage Two Contaminated Land Assessment	Type/Model:	Kobelco	Grid Ref:	
Job No.:	125	Operator:	Bebrok	Elevation:	
Location:	Lot 105 SP118458	Width:	300mm	Logged/Checked by:	IH
Date:	6 May 2024	Pit Width/Length (m):	0.6 x 2		

Depth (m)	Soil type (Classification Group Symbol); Particle size; Colour; Secondary/Minor components	Moisture / Water	Odours, staining, waste materials, separate phase liquids, imported fill, ash?	PHD (ppm)	Methane (ppm)	Sample ID
	0-0.05 grass and organic matter					TP70-0.1
	0.05-0.25 dark grey silty sand, minor fine to medium gravel		occasional glass fragments			
	0.25-0.7 red silty clay with minor grey mottling, fine to medium gravel					TP70-0.4
0.5						
	Discontinued target depth reach					
1.0						
1.5						
2.0						
2.5						
3.0						
3.5						



TEST PIT LOG ENVIRONMENTAL

Client:	Noosa Council	Machine:	5T Excavator	Test Pit No:	TP71
Project:	Stage Two Contaminated Land Assessment	Type/Model:	Kobelco	Grid Ref:	
Job No.:	125	Operator:	Bebrok	Elevation:	
Location:	Lot 105 SP118456	Pit Width/Length (m):	0.6 x 2	Logged/Checked by:	IH
Date:	6 May 2024				

Depth (m)	Soil type (Classification Group Symbol); Particle size; Colour; Secondary/Minor components	Moisture / Water	Odours, staining, waste materials, separate phase liquids, imported fill, ash?	PID (ppm)	Methane (ppm)	Sample ID
	0-0.05 grass and organic matter					TP71-0.1
	0.05-0.4 grey silty sand, occasional fine to medium gravel					
0.5	0.4-0.8 light brown sandy clay, fine to medium gravel					TP71-0.4
1.0	Discontinued target depth reach					
1.5						
2.0						
2.5						
3.0						
3.5						



TEST PIT LOG ENVIRONMENTAL

Client:	Noosa Council	Machine:	5T Excavator	Test Pit No:	TP72
Project:	Stage Two Contaminated Land Assessment	Type/Model:	Kobelco	Grid Ref:	
Job No.:	125	Operator:	Bebrok	Elevation:	
Location:	Lot 105 SP118458	Width:	300mm	Logged/Checked by:	IH
Date:	6 May 2024	Pit Width/Length (m):	0.6x2		

Depth (m)	Soil type (Classification Group Symbol); Particle size; Colour; Secondary/Minor components	Moisture / Water	Odours, staining, waste materials, separate phase liquids, imported fill, ash?	PID (ppm)	Methane (ppm)	Sample ID
	0-0.05 grass and organic matter					TP72-0.1
	0.05-0.3 grey silty sand, occasional fine to medium gravel					
0.5	0.3-0.8 light brown sandy clay, fine to medium gravel					TP72-0.4
1.0	Discontinued target depth reach					
1.5						
2.0						
2.5						
3.0						
3.5						



TEST PIT LOG ENVIRONMENTAL

Client:	Noosa Council	Machine:	5T Excavator	Test Pit No:	TP73
Project:	Stage Two Contaminated Land Assessment	Type/Model:	Kobelco	Grid Ref:	
Job No.:	125	Operator:	Bebrok	Elevation:	
Location:	Lot 105 SP118458	Width:	300mm	Logged/Checked by:	IH
Date:	6 May 2024	Pit Width/Length (m):	0.6x2		

Depth (m)	Soil type (Classification Group Symbol); Particle size; Colour; Secondary/Minor components	Moisture / Water	Odours, staining, waste materials, separate phase liquids, imported fill, ash?	PID (ppm)	Methane (ppm)	Sample ID
	0-0.05 grass and organic matter					TP73-0.1
	0.05-0.2 grey silty sand, occasional fine to medium gravel					
	0.2-0.5 Light brown sandy clay, fine to medium gravel					TP73-0.3
0.5						
	Discontinued target depth reach					
1.0						
1.5						
2.0						
2.5						
3.0						
3.5						



TEST PIT LOG ENVIRONMENTAL

Client:	Noosa Council	Machine:	5T Excavator	Test Pit No:	TP 74
Project:	Stage Two Contaminated Land Assessment	Type/Model:	Kobelco	Grid Ref:	
Job No.:	125	Operator:	Bebrok	Elevation:	
Location:	Lot 105 SP11B458	Width:	300mm	Logged/Checked by:	IH
Date:	6 May 2024	Pit Width/Length (m):	0.6 x 2		

Depth (m)	Soil type (Classification Group Symbol); Particle size; Colour; Secondary/Minor components	Moisture / Water	Odours, staining, waste materials, separate phase liquids, imported fill, ash?	PH (ppm)	Methane (ppm)	Sample ID
	0-0.05 grass and organic matter					TP74-0.1
	0.05-0.25 silty sand, grey, coarse frequent gravel					
	0.2-0.4 red sandy clay, fine to medium gravel					TP74-0.3
0.5	Discontinued target depth reach					
1.0						
1.5						
2.0						
2.5						
3.0						
3.5						



TEST PIT LOG ENVIRONMENTAL

Client:	Noosa Council	Machine:	5T Excavator	Test Pit No:	TP75
Project:	Stage Two Contaminated Land Assessment	Type/Model:	Kobelco	Grid Ref:	
Job No.:	125	Operator:	Bebrok	Elevation:	
Location:	Lot 105 SP118458	Width:	300mm	Logged/Checked by:	IH
Date:	6 May 2024	Pit Width/Length (m):	0.6x2		

Depth (m)	Soil type (Classification Group Symbol); Particle size; Colour; Secondary/Minor components	Moisture / Water	Odours, staining, waste materials, separate phase liquids, imported fill, ash?	PID (ppm)	Methane (ppm)	Sample ID
	0-0.05 grass and organic matter					TP75-0.1
	0.05-0.7 brown silty sand, frequent glass & ceramic		frequent glass and ceramic			TP75-0.3
0.5						
	0.7-1.0 red clay, fine to medium gravel					
1.0						TP75-1.0
	Discontinued target depth reach					
1.5						
2.0						
2.5						
3.0						
3.5						



BORE LOG REPORT

Client: Noosa Council
Project: Lake Macdonald Drive, Cooroy
Location: Lot 105, SP118458 Cooroy
Monitoring Bore: LFG 1
Job Number: 125
Total Depth: 2.2mbgl
Stick-up: approx 0.7
Logged by: AW
R L Surface: -
Machinery: Truck Mounted Drill Rig
Date: 7/05/2024
Datum: Ground level
Operator: -
Contractor: All Tech Drilling
Auger Size: 100mm

Depth	Method	Ground water	Construction	Material Description	Sample ID Test Depth (m)	Test Results/Field Records
0.0	Drill Rig with 100mm auger			0-0.05 grass and organic matter		
				0.05-2.1 - red sandy clay, minor fine to medium gravel		
0.5						
1.0						
2.0				2.1-2.2 - red to grey clay		
				End borehole 2.2m - target depth reached		
3.0						
4.0						
5						



BORE LOG REPORT

Client: Noosa Council
Project: Lake Macdonald Drive, Cooroy
Location: Lot 105, SP118458 Cooroy
Monitoring Bore: LFG 2
Job Number: 125
Total Depth: 2.2mbgl
Stick-up: approx 0.7
Logged by: AW
R L Surface: -
Machinery: Truck Mounted Drill Rig
Date: 7/05/2024
Datum: Ground level
Operator: -
Contractor: All Tech Drilling
Auger Size: 100mm

Depth	Method	Ground water	Construction	Material Description	Sample ID Test Depth (m)	Test Results/Field Records
0.0				0-0.05 grass and organic matter		
0.05				0.05-2.2 - red sandy clay, minor fine to medium gravel		
0.5						
1.0						
2.0						
3.0	Drill Rig with 100mm auger			End borehole 2.2m - target depth reached		
4.0						
5						



BORE LOG REPORT

Client: Noosa Council
Project: Lake Macdonald Drive, Cooroy
Location: Lot 105, SP118458 Cooroy
Monitoring Bore: LFG 3
Job Number: 125
Total Depth: 2.3mbgl
Stick-up: approx 0.7
Logged by: AW
R L Surface: -
Machinery: Truck Mounted Drill Rig
Date: 7/05/2024
Datum: Ground level
Operator: -
Contractor: All Tech Drilling
Auger Size: 100mm

Depth	Method	Ground water	Construction	Material Description	Sample ID Test Depth (m)	Test Results/Field Records
0.0	Drill Rig with 100mm auger			0-0.05 grass and organic matter		
				0.05-2.1 - red sandy clay, minor fine to medium gravel		
0.5						
1.0						
2.0				2.1-2.3 - orange sandy clay		
3.0				End borehole 2.3m - target depth reached		
4.0						
5						



BORE LOG REPORT

Client: Noosa Council
Project: Lake Macdonald Drive, Cooroy
Location: Lot 105, SP118458 Cooroy
Monitoring Bore: LFG 4
Job Number: 125
Total Depth: 1.6mbgl
Stick-up: approx 0.7
Logged by: AW
R L Surface: -
Machinery: Truck Mounted Drill Rig
Date: 7/05/2024
Datum: Ground level
Operator: -
Contractor: All Tech Drilling
Auger Size: 100mm

Depth	Method	Ground water	Construction	Material Description	Sample ID Test Depth (m)	Test Results/Field Records
0.0				0-0.05 grass and organic matter		
0.05				0.05-2.1 - red sandy clay, minor fine to medium gravel		
0.5						
1.0						
1.6				End borehole 1.6m - target depth reached		
2.0						
3.0						
4.0						
5.0						

Drill Rig with 100mm auger





BORE LOG REPORT

Client: Noosa Council
Project: Lake Macdonald Drive, Cooroy
Location: Lot 105, SP118458 Cooroy
Monitoring Bore: LFG 5
Job Number: 125
Total Depth: 1.7mbgl
Stick-up: approx 0.7
Logged by: AW
R L Surface: -
Machinery: Truck Mounted Drill Rig
Date: 7/05/2024
Datum: Ground level
Operator: -
Contractor: All Tech Drilling
Auger Size: 100mm

Depth	Method	Ground water	Construction	Material Description	Sample ID Test Depth (m)	Test Results/Field Records
0.0				0-0.05 grass and organic matter		
0.05				0.05-1.7 - red sandy clay, minor fine to medium gravel		
0.5						
1.0						
1.7				End borehole 1.7m - target depth reached		
2.0						
3.0						
4.0						
5.0						

Drill Rig with 100mm auger





BORE LOG REPORT

Client: Noosa Council		Monitoring Bore: LFG 6	
Project: Lake Macdonald Drive, Cooroy		Job Number: 125	
Location: Lot 105, SP118458 Cooroy			
Total Depth:	1.7mbgl	Stick-up:	approx 0.7
Logged by:	AW	R L Surface:	-
Date:	7/05/2024	Datum:	Ground level
		Contractor:	All Tech Drilling
		Machinery:	Truck Mounted Drill Rig
		Operator:	-
		Auger Size:	100mm

Depth	Method	Ground water	Construction	Material Description	Sample ID Test Depth (m)	Test Results/Field Records
0.0				0-0.05 grass and organic matter		
				0.05-1.7 - red sandy clay, minor fine to medium gravel		
0.5						
1.0						
2.0				End borehole 1.7m - target depth reached		
3.0						
4.0						
5						

Drill Rig with 100mm auger



BORE LOG REPORT

Client: Noosa Council		Monitoring Bore: LFG 7	
Project: Lake Macdonald Drive, Cooroy		Job Number: 125	
Location: Lot 105, SP118458 Cooroy			
Total Depth: 1.7mbgl	Stick-up: approx 0.7	Machinery: Truck Mounted Drill Rig	
Logged by: AW	R L Surface: -	Operator: -	
Date: 7/05/2024	Datum: Ground level	Auger Size: 100mm	
	Contractor: All Tech Drilling		

Depth	Method	Ground water	Construction	Material Description	Sample ID Test Depth (m)	Test Results/Field Records
0.0				0-0.05 grass and organic matter		
				0.05-1.7 - red sandy clay, minor fine to medium gravel		
0.5						
1.0						
2.0				End borehole 1.7m - target depth reached		
3.0						
4.0						
5						

Drill Rig with 100mm auger





Appendix H

Laboratory Certificates of Analysis



CHAIN OF CUSTODY

ALS Laboratory: please tick →

Sydney: 277 Woodpark Rd, Smithfield NSW 2176
Ph: 02 8784 8555 E: samples_sydney@alsenviro.com
 Newcastle: 5 Rosegum Rd, Warabrook NSW 2304
Ph: 02 4666 9433 E: samples_newcastle@alsenviro.com

Brisbane: 32 Shand St, Stafford QLD 4052
Ph: 07 3243 7222 E: samples_brisbane@alsenviro.com
 Townsville: 14-16 Desma Ct, Bohle QLD 4818
Ph: 07 4796 0800 E: townsville_environmental@alsenviro.com

Melbourne: 2-4 Westall Rd, Springvale VIC 3171
Ph: 03 8548 0800 E: samples_melbourne@alsenviro.com
 Adelaide: 2-1 Burma Rd, Pooraka SA 5095
Ph: 08 8358 0500 E: adelaide@alsenviro.com

Perth: 10 Hod Way, Malaga WA 6090
Ph: 08 9209 7555 E: samples_perth@alsenviro.com
 Launceston: 27 Wellington St, Launceston TAS 7250
Ph: 03 6331 2158 E: launceston@alsenviro.com

CLIENT: Environmental Advisors Pty Ltd	TURNAROUND REQUIREMENTS : <input checked="" type="checkbox"/> Standard TAT (List due date):		FOR LABORATORY USE ONLY (Circle)	
OFFICE: Sunshine Coast	(Standard TAT may be longer for some tests e.g., Ultra Trace Organics)		Quality Seal Intact? Yes No N/A	
PROJECT: 125 NSC LAKE McDONALD DVE, COOROY	ALS QUOTE NO.: EN/222/21	<input type="checkbox"/> Non Standard or urgent TAT (List due date):		Free ice / frozen ice bricks present upon receipt? Yes No N/A
ORDER NUMBER:		COC SEQUENCE NUMBER (Circle)		Random Sample Temperature on Receipt: C
PROJECT MANAGER: Andrew Winters	CONTACT PH: 0409 662 747	COC: ① 2 3 4 5		Other comment:
SAMPLER: Andrew Winters	SAMPLER MOBILE: 0409 662 747	OF: 1 2 ③ 4 5		
COC emailed to ALS? <input checked="" type="checkbox"/> No	EDD FORMAT: Default	RELINQUISHED BY: Andrew Winters	RECEIVED BY: SW	RELINQUISHED BY:
Email Reports to (will default to PM if no other addresses are listed): andrew@environmentaladvisors.com.au		DATE/TIME: 28/2/23	DATE/TIME: 28/2/23 110	DATE/TIME:
Email Invoice to (will default to PM if no other addresses are listed): admin@environmentaladvisors.com.au				DATE/TIME:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

ALS USE ONLY	SAMPLE DETAILS MATRIX: Solid(S) Water(W)				CONTAINER INFORMATION	ANALYSIS REQUIRED including SUITES (NB. Suite Codes must be listed to attract suite price) Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (field filtered bottle required).						Additional Information	
	LAB ID	SAMPLE ID	DATE / TIME	MATRIX		TYPE & PRESERVATIVE (refer to codes below)	TOTAL BOTTLES	S-2 (8 Metals)	S-12(OCP/OPP)	Asbestos (presence/absence)	S-5 (TRH/BTEX/N8 metals)		P-22 (NEPM Screen) (MINUS CLAY CONTENT)
1	TP1-0.1		Soil	Jar	1	x	x						
2	TP1-0.5		Soil	Jar	1				x				
3	TP1-1.0		Soil	Jar	1								
4	TP2-0.1		Soil	Jar	1	x							
5	TP2-0.5		Soil	Jar	1	x							
6	TP2-0.8		Soil	Jar	1								
7	TP2-1.0		Soil	Jar	1								
8	TP3-0.1		Soil	Jar	1				x				
9	TP3-0.5		Soil	Jar	1				x				
10	TP3-1.8		Soil	Jar	1								
11	TP4-0.1		Soil	Jar	1	x	x						
12	TP4-0.5		Soil	Jar	1								
13	TP4-1.0		Soil	Jar	1					x			
TOTAL					13	4	2	0	3	1	0	0	0

Environmental Division
Brisbane
Work Order Reference
EB2306000



Telephone - 61-7-3243 7222

Water Container Codes: P = Unpreserved Plastic; N = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide/Cd Preserved; S = Sodium Hydroxide Preserved Plastic; AG = Amber Glass Unpreserved; AP - Airfreight Unpreserved Plastic
V = VOA Vial HCl Preserved; VB = VOA Vial Sodium Bisulphate Preserved; VS = VOA Vial Sulfuric Preserved; AV = Airfreight Unpreserved Vial SG = Sulfuric Preserved Amber Glass; H = HCl preserved Plastic; HS = HCl preserved Speciation bottle; SP = Sulfuric Preserved Plastic; F = Formaldehyde Preserved Glass;
Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bottle; ASS = Plastic Bag for Acid Sulphate Soils; B = Unpreserved Bag.



CHAIN OF CUSTODY

ALS Laboratory: please tick →

Sydney: 277 Woodpark Rd, Smithfield NSW 2176
Ph: 02 8784 8665 E:samples.sydney@alsenviro.com
Newcastle: 5 Rosgum Rd, Warabrook NSW 2304
Ph:02 4968 9432 E:samples.newcastle@alsenviro.com

Brisbane: 32 Shand St, Stafford QLD 4052
Ph:07 3243 7222 E:samples.brisbane@alsenviro.com
Townsville: 14-15 Dasma Ct, Bohle QLD 4818
Ph:07 4786 0000 E:townsville.environmental@alsenviro.com

Melbourne: 2-4 Westall Rd, Springvale VIC 3171
Ph:03 8549 9600 E:samples.melbourne@alsenviro.com
Adelaide: 2-1 Burma Rd, Pooraka SA 5095
Ph: 08 8359 0960 E:adelaide@alsenviro.com

Perth: 10 Hod Way, Malaga WA 6090
Ph: 08 9209 7665 E:samples.perth@alsenviro.com
Launceston: 27 Wellington St, Launceston TAS 7250
Ph: 03 6331 2158 E:launceston@alsenviro.com

CLIENT: Environmental Advisors Pty Ltd	TURNAROUND REQUIREMENTS : <input checked="" type="checkbox"/> Standard TAT (List due date):	FOR LABORATORY USE ONLY (Circle) Custody Seal intact? Yes No N/A Free ice / frozen ice bricks present upon receipt? Yes No N/A Random Sample Temperature on Receipt °C Other comment
OFFICE: Sunshine Coast	(Standard TAT may be longer for some tests e.g., Ultra Trace Organics) <input type="checkbox"/> Non Standard or urgent TAT (List due date):	
PROJECT: 125 NSC LAKE McDONALD DVE, COOROY	ALS QUOTE NO.: EN/222/21	COC SEQUENCE NUMBER (Circle) COC: 1 2 3 4 5 OF: 1 2 3 4 5
ORDER NUMBER:	PROJECT MANAGER: Andrew Winters	CONTACT PH: 0409 662 747
SAMPLER: Andrew Winters	SAMPLER MOBILE: 0409 662 747	RELINQUISHED BY: Andrew Winters
COC emailed to ALS? No	EDD FORMAT: Default	RECEIVED BY: SW
Email Reports to (will default to PM if no other addresses are listed): andrew@environmentaladvisors.com.au		DATE/TIME: 28/12/23 1110
Email Invoice to (will default to PM if no other addresses are listed): admin@environmentaladvisors.com.au		RELINQUISHED BY:
		RECEIVED BY:
		DATE/TIME:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

ALS USE ONLY	SAMPLE DETAILS MATRIX: Solid(S) Water(W)			CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES (NB. Suite Codes must be listed to attract suite price) Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (field filtered bottle required).						Additional Information		
	LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL BOTTLES	S-2 (8 Metals)	S-12(OCP/OPP)	Asbestos (presence/absence)	S-5 (TRH/BTEX/N6 metals)	P-22 (NEPM Screen) (MINUS CLAY CONTENT)		S-18 TRH(c6-c10)/BTEXN	
14	TP5-0.1			Soil	Jar	1				x				
15	TP5-0.5			Soil	Jar	1	x							
16	TP6-0.1			Soil	Jar	1				x				
17	TP6-0.3			Soil	Jar	1	x	x						
18	TP6-0.5			Soil	Jar	1								
19	TP7-0.1			Soil	Jar + Plastic Bag	2			x	x				
20	TP8-0.1			Soil	Jar + Plastic Bag	2			x	x				
21	TP8-0.5			Soil	Jar	1								
22	TP9-0.1			Soil	Jar	1		x		x				
23	TP9-0.3			Soil	Jar	1	x							
24	TP9-0.8			Soil	Jar	1								
25	TP10-0.1			Soil	Jar	1	x							
26	TP10-0.5			Soil	Jar	1		x		x				
TOTAL						15	4	3	2	6	0	0	0	0

Water Container Codes: P = Unpreserved Plastic; N = Nilric Preserved Plastic; ORC = Nilric Preserved ORC; SH = Sodium Hydroxide/Cd Preserved; S = Sodium Hydroxide Preserved Plastic; AG = Amber Glass Unpreserved; AP - Airfreight Unpreserved Plastic
V = VOA Vial HCl Preserved; VB = VOA Vial Sodium Bisulphate Preserved; VS = VOA Vial Sulfuric Preserved; AV = Airfreight Unpreserved Vial SG = Sulfuric Preserved Amber Glass; H = HCl preserved Plastic; HS = HCl preserved Speciation bottle; SP = Sulfuric Preserved Plastic; F = Formaldehyde Preserved Glass;
Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bottle; ASS = Plastic Bag for Acid Sulphate Soils; B = Unpreserved Bag.



CHAIN OF CUSTODY

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Ph: 02 8784 8555 E:samples.sydney@alsenviro.com

Brisbane: 32 Chand St, Stafford QLD 4053
Ph:07 3243 7222 E:samples.brisbane@alsenviro.com

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Ph:03 8549 9600 E: samples.melbourne@alsenviro.com

Perth: 10 Hed Way, Malaga WA 6090
Ph: 08 9269 7055 E: samples.perth@alsenviro.com

Newcastle: 5 Rosegum Rd, Warbrook NSW 2304
Ph:02 4988 9433 E:samples.newcastle@alsenviro.com

Townsville: 14-15 Desma CL, Battle QLD 4818
Ph:07 4798 0800 E: townsville.environmental@alsenviro.com

Adelaide: 2-1 Burma Rd, Pooraka SA, 5095
Ph: 08 8359 6890 E:adelaide@alsenviro.com

Launceston: 27 Wellington St, Launceston TAS 7250
Ph: 03 6331 2150 E: launceston@alsenviro.com

CLIENT: Environmental Advisors Pty Ltd	TURNAROUND REQUIREMENTS : <input checked="" type="checkbox"/> Standard TAT (List due date):	FOR LABORATORY USE ONLY (Circle) Custody Seal intact? Yes No N/A Free ice / frozen ice blocks present upon receipt? Yes No N/A Random Sample Temperature on Receipt °C Other comment:
OFFICE: Sunshine Coast	(Standard TAT may be longer for some tests e.g., Ultra Trace Organics) <input type="checkbox"/> Non Standard or urgent TAT (List due date):	
PROJECT: 125 NSC LAKE McDONALD DVE, COOROY	ALS QUOTE NO.: EN/222/21	COC SEQUENCE NUMBER (Circle) COC: 1 2 3 4 5 OF: 1 2 3 4 5
ORDER NUMBER:		
PROJECT MANAGER: Andrew Winters	CONTACT PH: 0409 662 747	
SAMPLER: Andrew Winters	SAMPLER MOBILE: 0409 662 747	RELINQUISHED BY: Andrew Winters
COC emailed to ALS? \No	EDD FORMAT: Default	RECEIVED BY: SW
Email Reports to (will default to PM if no other addresses are listed): andrew@environmentaladvisors.com.au		DATE/TIME: 28/12/23 1110
Email Invoice to (will default to PM if no other addresses are listed): admin@environmentaladvisors.com.au		

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

ALS USE ONLY	SAMPLE DETAILS MATRIX: Solid(S) Water(W)			CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES (NB. Suite Codes must be listed to attract suite price) Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (field filtered bottle required)							Additional Information	
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL BOTTLES	S-2 (8 Metals)	S-12(OC/OPP)	Asbestos (presence/absence)	S-5 (TRH/BTEXN/8 metals)	P-22 (NEPM Screen) (MINUS CLAY CONTENT)	S-18 TRH(c6-c10)/BTEXN			Comments on likely contaminant levels, dilutions, or samples requiring specific QC analysis etc.
27	TP10-0.7		Soil	Jar	1				x					
28	TP11-0.1		Soil	Jar	1	x								
29	TP11-0.5		Soil	Jar	1	x								
30	051332		Soil	Jar	1						x			
31	D1		Soil	Jar	1	x								
32	D2		Soil	Jar	1				x					
33	TP10-B1		Bulk	Plastic Bag	1			x						asbestos bulk sample
34	TP10-B2		Bulk	Plastic Bag	1			x						asbestos bulk sample
			Soil	Jar	1									
			Soil	Jar	1									
			Soil	Jar	1									
			Soil	Jar	1									
			Soil	Jar	1									
TOTAL					13	3	0	2	2	0	1	0	0	

GRAND TOTALS 41 11 5 4 11 1 1 0 0

**SAMPLE RECEIPT NOTIFICATION (SRN)****Work Order : EB2306000**

Client	: ENVIRONMENTAL ADVISORS	Laboratory	: Environmental Division Brisbane
Contact	: ANDREW WINTERS	Contact	: Customer Services EB
Address	: PO BOX 505 BUDDINA QLD 4575	Address	: 2 Byth Street Stafford QLD Australia 4053
E-mail	: andrew@environmentaladvisors.com.au	E-mail	: ALSEnviro.Brisbane@alsglobal.com
Telephone	: ----	Telephone	: +61 7 3243 7222
Facsimile	: ----	Facsimile	: +61-7-3243 7218
Project	: 125 NSC LAKE McDONALD DVE, COOROY	Page	: 1 of 4
Order number	: ----	Quote number	: EB2017ENVADV0001 (EN/222)
C-O-C number	: ----	QC Level	: NEPM 2013 B3 & ALS QC Standard
Site	: ----		
Sampler	: ANDREW WINTERS		

Dates

Date Samples Received	: 28-Feb-2023 11:10	Issue Date	: 01-Mar-2023
Client Requested Due Date	: 09-Mar-2023	Scheduled Reporting Date	: 09-Mar-2023

Delivery Details

Mode of Delivery	: Client Drop Off	Security Seal	: Not Available
No. of coolers/boxes	: 1	Temperature	: 9.5°C - Ice Bricks present
Receipt Detail	: HARD ESKY	No. of samples received / analysed	: 35 / 27

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 be advised that as no sampling dates are listed on the Chain of Custody, the sampling date labelled on the received sample containers (24/02/2023) has been assigned to all samples. If you wish to discuss this, please contact client services at ALSEnviro.Brisbane@alsglobal.com**
- **Please be advised that an additional sample was received in a snap-lock bag labelled with the sample ID "TP11-B1" that was not listed on the Chain of Custody. This sample has been added to the end of the work order and placed on hold. If you wish to add analysis to this sample, please contact client services at ALSEnviro.Brisbane@alsglobal.com**
- **1/3/23: SRN has been resent to acknowledge that Asbestos has been added to TP11-B1 as requested. For any further information regarding these adjustments please contact client services at ALSEnviro.Brisbane@alsglobal.com.**
- Discounted Package Prices apply only when specific ALS Group Codes ('W', 'S', 'NT' suites) are referenced on COCs.
- **Asbestos analysis will be conducted by ALS Environmental, Melbourne, NATA accreditation No. 825, Site No. 13778.**
- Please direct any turn around / technical queries to the laboratory contact designated above.
- Sample Disposal - Aqueous (3 weeks), Solid (2 months ± 1 week) from receipt of samples.
- Analysis will be conducted by ALS Environmental, Brisbane, NATA accreditation no. 825, Site No. 818 (Micro site no. 18958).
- **Breaches in recommended extraction / analysis holding times (if any) are displayed overleaf in the Proactive Holding Time Report table.**
- 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.
- **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.**



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 - EA200 Asbestos Identification in Soils -	SOIL - P-22 EB Only NEPM Screen for Soil Classification EB Only	SOIL - S-02 & Metals (incl. Digestion)	SOIL - S-05 TRH/TEX/8 Metals	SOIL - S-12 OC/OP Pesticides
EB2306000-001	24-Feb-2023 00:00	TP1-0.1		✓			✓		✓
EB2306000-002	24-Feb-2023 00:00	TP1-0.5		✓				✓	
EB2306000-003	24-Feb-2023 00:00	TP1-1.0	✓						
EB2306000-004	24-Feb-2023 00:00	TP2-0.1		✓			✓		
EB2306000-005	24-Feb-2023 00:00	TP2-0.5		✓			✓		
EB2306000-006	24-Feb-2023 00:00	TP2-0.8	✓						
EB2306000-007	24-Feb-2023 00:00	TP2-1.0	✓						
EB2306000-008	24-Feb-2023 00:00	TP3-0.1		✓				✓	
EB2306000-009	24-Feb-2023 00:00	TP3-0.5		✓				✓	
EB2306000-010	24-Feb-2023 00:00	TP3-1.8	✓						
EB2306000-011	24-Feb-2023 00:00	TP4-0.1		✓			✓		✓
EB2306000-012	24-Feb-2023 00:00	TP4-0.5	✓						
EB2306000-013	24-Feb-2023 00:00	TP4-1.0		✓		✓			
EB2306000-014	24-Feb-2023 00:00	TP5-0.1		✓				✓	
EB2306000-015	24-Feb-2023 00:00	TP5-0.5		✓			✓		
EB2306000-016	24-Feb-2023 00:00	TP6-0.1		✓				✓	
EB2306000-017	24-Feb-2023 00:00	TP6-0.3		✓			✓		✓
EB2306000-018	24-Feb-2023 00:00	TP6-0.5	✓						
EB2306000-019	24-Feb-2023 00:00	TP7-0.1		✓	✓			✓	
EB2306000-020	24-Feb-2023 00:00	TP8-0.1		✓	✓			✓	
EB2306000-021	24-Feb-2023 00:00	TP8-0.5	✓						
EB2306000-022	24-Feb-2023 00:00	TP9-0.1		✓				✓	✓
EB2306000-023	24-Feb-2023 00:00	TP9-0.3		✓			✓		
EB2306000-024	24-Feb-2023 00:00	TP9-0.8	✓						
EB2306000-025	24-Feb-2023 00:00	TP10-0.1		✓			✓		
EB2306000-026	24-Feb-2023 00:00	TP10-0.5		✓				✓	✓
EB2306000-027	24-Feb-2023 00:00	TP10-0.7		✓				✓	
EB2306000-028	24-Feb-2023 00:00	TP11-0.1		✓			✓		
EB2306000-029	24-Feb-2023 00:00	TP11-0.5		✓			✓		
EB2306000-031	24-Feb-2023 00:00	D1		✓			✓		
EB2306000-032	24-Feb-2023 00:00	D2		✓				✓	



Matrix: **SOIL**

Laboratory sample ID	Sampling date / time	Sample ID	SOIL - S-18 (NO MOIST) TRH(C6-C9)/BTEXN with No Moisture for TBs
EB2306000-030	24-Feb-2023 00:00	051332	✓

Matrix: **SOLID**

Laboratory sample ID	Sampling date / time	Sample ID	SOLID - EA200B Asbestos Identification in Bulk Solids (Excluding
EB2306000-033	24-Feb-2023 00:00	TP10-B1	✓
EB2306000-034	24-Feb-2023 00:00	TP10-B2	✓
EB2306000-035	24-Feb-2023 00:00	TP11-B1	✓

Proactive Holding Time Report

Sample(s) have been received within the recommended holding times for the requested analysis.

Requested Deliverables

ALL INVOICES

- A4 - AU Tax Invoice (INV) Email admin@environmentaladvisors.com.au
- Chain of Custody (CoC) (COC) Email admin@environmentaladvisors.com.au

ANDREW WINTERS

- *AU Certificate of Analysis - NATA (COA) Email andrew@environmentaladvisors.com.au
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI) Email andrew@environmentaladvisors.com.au
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC) Email andrew@environmentaladvisors.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN) Email andrew@environmentaladvisors.com.au
- Attachment - Report (SUBCO) Email andrew@environmentaladvisors.com.au
- Chain of Custody (CoC) (COC) Email andrew@environmentaladvisors.com.au
- EDI Format - XTab (XTAB) Email andrew@environmentaladvisors.com.au

CERTIFICATE OF ANALYSIS

Work Order	: EB2306000	Page	: 1 of 20
Client	: ENVIRONMENTAL ADVISORS	Laboratory	: Environmental Division Brisbane
Contact	: ANDREW WINTERS	Contact	: Customer Services EB
Address	: PO BOX 505 BUDDINA QLD 4575	Address	: 2 Byth Street Stafford QLD Australia 4053
Telephone	: ----	Telephone	: +61 7 3243 7222
Project	: 125 NSC LAKE McDONALD DVE, COOROY	Date Samples Received	: 28-Feb-2023 11:10
Order number	: ----	Date Analysis Commenced	: 01-Mar-2023
C-O-C number	: ----	Issue Date	: 09-Mar-2023 13:33
Sampler	: ANDREW WINTERS		
Site	: ----		
Quote number	: EN/222		
No. of samples received	: 35		
No. of samples analysed	: 27		



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
- Descriptive 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.

<i>Signatories</i>	<i>Position</i>	<i>Accreditation Category</i>
Kim McCabe	Senior Inorganic Chemist	Brisbane Acid Sulphate Soils, Stafford, QLD
Kim McCabe	Senior Inorganic Chemist	Brisbane Inorganics, Stafford, QLD
Kirsty Watson	Senior Chemist - Organics	Brisbane Organics, Stafford, QLD
Layla Hafner	Acid Sulphate Soils - Chemist	Brisbane Acid Sulphate Soils, Stafford, QLD
MINNIE TRAN	Approved Asbestos Identifier	Melbourne Asbestos, Springvale, VIC
Morgan Lennox	Senior Organic Chemist	Brisbane Organics, Stafford, QLD
Timothy Creagh	Senior Chemist - Organics	Brisbane Organics, Stafford, QLD



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.

- ALS is not NATA accredited for the analysis of Exchangeable Aluminium and Exchange Acidity in soils when performed under ALS Method ED005.
- ALS is not NATA accredited for the analysis of Exchangeable Cations on Alkaline Soils when performed under ALS Method ED006.
- EA200: Asbestos Identification Samples were analysed by Polarised Light Microscopy including dispersion staining.
- 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.
- **EA200 Legend**
- EA200 'Am' Amosite (brown asbestos)
- EA200 'Cr' Crocidolite (blue asbestos)
- EA200 'Ch' Chrysotile (white asbestos)
- EA200: 'UMF' Unknown Mineral Fibres. "-" indicates fibres detected may or may not be asbestos fibres. Confirmation by alternative techniques is recommended.
- EA200: Analysis of asbestos from swabs and tapes is not covered under the current scope of NATA accreditation.
- ED007 (Exchangeable Cations): Unable to calculate Magnesium/Potassium Ratio result as required Exchangeable Potassium results are less than the limit of reporting.
- EG005T (Total Metals by ICP-AES): EB2305781-001 shows poor duplicate results due to sample heterogeneity. This has been confirmed by visual inspection.
- EG005T (Total Metals by ICP-AES): EB2305781-003 shows poor matrix spike recovery due to sample heterogeneity. This has been confirmed by visual inspection.
- EG005T (Total Metals by ICP-AES): EB2305781-017 shows poor duplicate results due to sample heterogeneity. This has been confirmed by visual inspection.
- EG005T (Total Metals by ICP-AES): TP6-0.1 (EB2306000-016) shows poor matrix spike recovery due to sample heterogeneity. This has been confirmed by visual inspection.
- EG005T (Total Metals by ICP-AES): TP11-0.1 (EB2306000-028) shows poor duplicate results due to sample heterogeneity. This has been confirmed by visual inspection.
- EA200 'Trace' - Asbestos fibres ("Free Fibres") detected by trace analysis per AS4964. The result can be interpreted that the sample contains detectable 'respirable' asbestos fibres
- EA200: For samples larger than 30g, the <2mm fraction may be sub-sampled prior to trace analysis as outlined in ISO23909:2008(E) Sect 6.3.2-2
- ED007 and ED008: When Exchangeable Al is reported from these methods, it should be noted that Rayment & Lyons (2011) suggests Exchange Acidity by 1M KCl - Method 15G1 (ED005) is a more suitable method for the determination of exchange acidity (H+ + Al3+).
- EA200: 'Yes' - Asbestos detected by polarised light microscopy including dispersion staining.
- EA200: 'No*' - No asbestos found, at the reporting limit of 0.1g/kg, by polarised light microscopy including dispersion staining. Asbestos material was detected and positively identified at concentrations estimated to be below 0.1g/kg.
- EA200: 'No' - No asbestos found at the reporting limit 0.1g/kg, by polarised light microscopy including dispersion staining.



- EA200: N/A - Not Applicable
-



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP1-0.1	TP1-0.5	TP2-0.1	TP2-0.5	TP3-0.1
Sampling date / time				24-Feb-2023 00:00	24-Feb-2023 00:00	24-Feb-2023 00:00	24-Feb-2023 00:00	24-Feb-2023 00:00	
Compound	CAS Number	LOR	Unit	EB2306000-001	EB2306000-002	EB2306000-004	EB2306000-005	EB2306000-008	
				Result	Result	Result	Result	Result	
EA055: Moisture Content									
Moisture Content	----	1.0	%	----	5.7	----	----	11.9	
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	1.0	%	7.4	----	9.7	11.8	----	
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	4	9	21	25	
Copper	7440-50-8	5	mg/kg	<5	<5	15	76	<5	
Lead	7439-92-1	5	mg/kg	20	15	24	69	10	
Nickel	7440-02-0	2	mg/kg	<2	<2	<2	<2	3	
Zinc	7440-66-6	5	mg/kg	33	10	37	36	23	
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.1	mg/kg	0.1	<0.1	0.4	0.8	<0.1	
EP068A: Organochlorine Pesticides (OC)									
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	----	----	----	----	
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	----	----	----	----	
beta-BHC	319-85-7	0.05	mg/kg	<0.05	----	----	----	----	
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	----	----	----	----	
delta-BHC	319-86-8	0.05	mg/kg	<0.05	----	----	----	----	
Heptachlor	76-44-8	0.05	mg/kg	<0.05	----	----	----	----	
Aldrin	309-00-2	0.05	mg/kg	<0.05	----	----	----	----	
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	----	----	----	----	
^ Total Chlordane (sum)	----	0.05	mg/kg	<0.05	----	----	----	----	
trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	----	----	----	----	
alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	----	----	----	----	
cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	----	----	----	----	
Dieldrin	60-57-1	0.05	mg/kg	<0.05	----	----	----	----	
4,4'-DDE	72-55-9	0.05	mg/kg	<0.05	----	----	----	----	
Endrin	72-20-8	0.05	mg/kg	<0.05	----	----	----	----	
beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	----	----	----	----	
^ Endosulfan (sum)	115-29-7	0.05	mg/kg	<0.05	----	----	----	----	
4,4'-DDD	72-54-8	0.05	mg/kg	<0.05	----	----	----	----	
Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	----	----	----	----	
Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	----	----	----	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP1-0.1	TP1-0.5	TP2-0.1	TP2-0.5	TP3-0.1
Sampling date / time				24-Feb-2023 00:00	24-Feb-2023 00:00	24-Feb-2023 00:00	24-Feb-2023 00:00	24-Feb-2023 00:00	
Compound	CAS Number	LOR	Unit	EB2306000-001	EB2306000-002	EB2306000-004	EB2306000-005	EB2306000-008	
				Result	Result	Result	Result	Result	
EP068A: Organochlorine Pesticides (OC) - Continued									
4,4'-DDT	50-29-3	0.2	mg/kg	<0.2	----	----	----	----	
Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	----	----	----	----	
Methoxychlor	72-43-5	0.2	mg/kg	<0.2	----	----	----	----	
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	<0.05	----	----	----	----	
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/5 0-2	0.05	mg/kg	<0.05	----	----	----	----	
EP068B: Organophosphorus Pesticides (OP)									
Dichlorvos	62-73-7	0.05	mg/kg	<0.05	----	----	----	----	
Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	----	----	----	----	
Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	----	----	----	----	
Dimethoate	60-51-5	0.05	mg/kg	<0.05	----	----	----	----	
Diazinon	333-41-5	0.05	mg/kg	<0.05	----	----	----	----	
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	----	----	----	----	
Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	----	----	----	----	
Malathion	121-75-5	0.05	mg/kg	<0.05	----	----	----	----	
Fenthion	55-38-9	0.05	mg/kg	<0.05	----	----	----	----	
Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	----	----	----	----	
Parathion	56-38-2	0.2	mg/kg	<0.2	----	----	----	----	
Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	----	----	----	----	
Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	----	----	----	----	
Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	----	----	----	----	
Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	----	----	----	----	
Prothiofos	34643-46-4	0.05	mg/kg	<0.05	----	----	----	----	
Ethion	563-12-2	0.05	mg/kg	<0.05	----	----	----	----	
Carbophenothion	786-19-6	0.05	mg/kg	<0.05	----	----	----	----	
Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	----	----	----	----	
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	10	mg/kg	----	<10	----	----	<10	
C10 - C14 Fraction	----	50	mg/kg	----	<50	----	----	<50	
C15 - C28 Fraction	----	100	mg/kg	----	<100	----	----	<100	
C29 - C36 Fraction	----	100	mg/kg	----	<100	----	----	<100	
^ C10 - C36 Fraction (sum)	----	50	mg/kg	----	<50	----	----	<50	
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg	----	<10	----	----	<10	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP1-0.1	TP1-0.5	TP2-0.1	TP2-0.5	TP3-0.1
Sampling date / time				24-Feb-2023 00:00	24-Feb-2023 00:00	24-Feb-2023 00:00	24-Feb-2023 00:00	24-Feb-2023 00:00	
Compound	CAS Number	LOR	Unit	EB2306000-001	EB2306000-002	EB2306000-004	EB2306000-005	EB2306000-008	
				Result	Result	Result	Result	Result	
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions - Continued									
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	----	<10	----	----	<10	
>C10 - C16 Fraction	----	50	mg/kg	----	<50	----	----	<50	
>C16 - C34 Fraction	----	100	mg/kg	----	<100	----	----	<100	
>C34 - C40 Fraction	----	100	mg/kg	----	<100	----	----	<100	
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	----	<50	----	----	<50	
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	----	<50	----	----	<50	
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg	----	<0.2	----	----	<0.2	
Toluene	108-88-3	0.5	mg/kg	----	<0.5	----	----	<0.5	
Ethylbenzene	100-41-4	0.5	mg/kg	----	<0.5	----	----	<0.5	
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	----	<0.5	----	----	<0.5	
ortho-Xylene	95-47-6	0.5	mg/kg	----	<0.5	----	----	<0.5	
^ Sum of BTEX	----	0.2	mg/kg	----	<0.2	----	----	<0.2	
^ Total Xylenes	----	0.5	mg/kg	----	<0.5	----	----	<0.5	
Naphthalene	91-20-3	1	mg/kg	----	<1	----	----	<1	
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.05	%	105	----	----	----	----	
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.05	%	84.8	----	----	----	----	
EP080S: TPH(V)/BTEX Surrogates									
1,2-Dichloroethane-D4	17060-07-0	0.2	%	----	89.5	----	----	86.0	
Toluene-D8	2037-26-5	0.2	%	----	84.0	----	----	84.4	
4-Bromofluorobenzene	460-00-4	0.2	%	----	97.4	----	----	94.7	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP3-0.5	TP4-0.1	TP4-1.0	TP5-0.1	TP5-0.5
Sampling date / time				24-Feb-2023 00:00	24-Feb-2023 00:00	24-Feb-2023 00:00	24-Feb-2023 00:00	24-Feb-2023 00:00	
Compound	CAS Number	LOR	Unit	EB2306000-009	EB2306000-011	EB2306000-013	EB2306000-014	EB2306000-015	
				Result	Result	Result	Result	Result	
EA001: pH in soil using 0.01M CaCl extract									
pH (CaCl2)	----	0.1	pH Unit	----	----	4.9	----	----	
EA002: pH 1:5 (Soils)									
pH Value	----	0.1	pH Unit	----	----	5.4	----	----	
EA010: Conductivity (1:5)									
Electrical Conductivity @ 25°C	----	1	µS/cm	----	----	5	----	----	
EA055: Moisture Content									
Moisture Content	----	1.0	%	10.1	----	----	14.3	----	
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	0.1	%	----	----	11.4	----	----	
Moisture Content	----	1.0	%	----	11.4	----	----	9.4	
ED005: Exchange Acidity									
∅ Exchange Acidity	----	0.1	meq/100g	----	----	<0.1	----	----	
∅ Exchangeable Aluminium	----	0.1	meq/100g	----	----	<0.1	----	----	
ED007: Exchangeable Cations									
Exchangeable Calcium	----	0.1	meq/100g	----	----	1.4	----	----	
Exchangeable Magnesium	----	0.1	meq/100g	----	----	0.2	----	----	
Exchangeable Potassium	----	0.1	meq/100g	----	----	<0.1	----	----	
Exchangeable Sodium	----	0.1	meq/100g	----	----	<0.1	----	----	
Cation Exchange Capacity	----	0.1	meq/100g	----	----	1.8	----	----	
EG005(ED093)T: Total Metals by ICP-AES									
Iron	7439-89-6	0.005	%	----	----	5.16	----	----	
Arsenic	7440-38-2	5	mg/kg	<5	<5	----	<5	<5	
Cadmium	7440-43-9	1	mg/kg	<1	<1	----	<1	<1	
Chromium	7440-47-3	2	mg/kg	32	16	----	15	21	
Copper	7440-50-8	5	mg/kg	<5	<5	----	<5	<5	
Lead	7439-92-1	5	mg/kg	6	9	----	31	6	
Nickel	7440-02-0	2	mg/kg	3	<2	----	<2	<2	
Zinc	7440-66-6	5	mg/kg	19	51	----	103	26	
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.1	mg/kg	<0.1	0.2	----	0.1	<0.1	
EP004: Organic Matter									
Organic Matter	----	0.5	%	----	----	<0.5	----	----	
Total Organic Carbon	----	0.5	%	----	----	<0.5	----	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP3-0.5	TP4-0.1	TP4-1.0	TP5-0.1	TP5-0.5
Sampling date / time				24-Feb-2023 00:00	24-Feb-2023 00:00	24-Feb-2023 00:00	24-Feb-2023 00:00	24-Feb-2023 00:00	
Compound	CAS Number	LOR	Unit	EB2306000-009	EB2306000-011	EB2306000-013	EB2306000-014	EB2306000-015	
				Result	Result	Result	Result	Result	
EP068A: Organochlorine Pesticides (OC)									
alpha-BHC	319-84-6	0.05	mg/kg	----	<0.05	----	----	----	
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	----	<0.05	----	----	----	
beta-BHC	319-85-7	0.05	mg/kg	----	<0.05	----	----	----	
gamma-BHC	58-89-9	0.05	mg/kg	----	<0.05	----	----	----	
delta-BHC	319-86-8	0.05	mg/kg	----	<0.05	----	----	----	
Heptachlor	76-44-8	0.05	mg/kg	----	<0.05	----	----	----	
Aldrin	309-00-2	0.05	mg/kg	----	<0.05	----	----	----	
Heptachlor epoxide	1024-57-3	0.05	mg/kg	----	<0.05	----	----	----	
^ Total Chlordane (sum)	----	0.05	mg/kg	----	<0.05	----	----	----	
trans-Chlordane	5103-74-2	0.05	mg/kg	----	<0.05	----	----	----	
alpha-Endosulfan	959-98-8	0.05	mg/kg	----	<0.05	----	----	----	
cis-Chlordane	5103-71-9	0.05	mg/kg	----	<0.05	----	----	----	
Dieldrin	60-57-1	0.05	mg/kg	----	<0.05	----	----	----	
4,4'-DDE	72-55-9	0.05	mg/kg	----	<0.05	----	----	----	
Endrin	72-20-8	0.05	mg/kg	----	<0.05	----	----	----	
beta-Endosulfan	33213-65-9	0.05	mg/kg	----	<0.05	----	----	----	
^ Endosulfan (sum)	115-29-7	0.05	mg/kg	----	<0.05	----	----	----	
4,4'-DDD	72-54-8	0.05	mg/kg	----	<0.05	----	----	----	
Endrin aldehyde	7421-93-4	0.05	mg/kg	----	<0.05	----	----	----	
Endosulfan sulfate	1031-07-8	0.05	mg/kg	----	<0.05	----	----	----	
4,4'-DDT	50-29-3	0.2	mg/kg	----	<0.2	----	----	----	
Endrin ketone	53494-70-5	0.05	mg/kg	----	<0.05	----	----	----	
Methoxychlor	72-43-5	0.2	mg/kg	----	<0.2	----	----	----	
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	----	<0.05	----	----	----	
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-29-3	0.05	mg/kg	----	<0.05	----	----	----	
EP068B: Organophosphorus Pesticides (OP)									
Dichlorvos	62-73-7	0.05	mg/kg	----	<0.05	----	----	----	
Demeton-S-methyl	919-86-8	0.05	mg/kg	----	<0.05	----	----	----	
Monocrotophos	6923-22-4	0.2	mg/kg	----	<0.2	----	----	----	
Dimethoate	60-51-5	0.05	mg/kg	----	<0.05	----	----	----	
Diazinon	333-41-5	0.05	mg/kg	----	<0.05	----	----	----	
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	----	<0.05	----	----	----	
Parathion-methyl	298-00-0	0.2	mg/kg	----	<0.2	----	----	----	
Malathion	121-75-5	0.05	mg/kg	----	<0.05	----	----	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP3-0.5	TP4-0.1	TP4-1.0	TP5-0.1	TP5-0.5
Sampling date / time				24-Feb-2023 00:00	24-Feb-2023 00:00	24-Feb-2023 00:00	24-Feb-2023 00:00	24-Feb-2023 00:00	
Compound	CAS Number	LOR	Unit	EB2306000-009	EB2306000-011	EB2306000-013	EB2306000-014	EB2306000-015	
				Result	Result	Result	Result	Result	
EP068B: Organophosphorus Pesticides (OP) - Continued									
Fenthion	55-38-9	0.05	mg/kg	----	<0.05	----	----	----	
Chlorpyrifos	2921-88-2	0.05	mg/kg	----	<0.05	----	----	----	
Parathion	56-38-2	0.2	mg/kg	----	<0.2	----	----	----	
Pirimphos-ethyl	23505-41-1	0.05	mg/kg	----	<0.05	----	----	----	
Chlorfenvinphos	470-90-6	0.05	mg/kg	----	<0.05	----	----	----	
Bromophos-ethyl	4824-78-6	0.05	mg/kg	----	<0.05	----	----	----	
Fenamiphos	22224-92-6	0.05	mg/kg	----	<0.05	----	----	----	
Prothiofos	34643-46-4	0.05	mg/kg	----	<0.05	----	----	----	
Ethion	563-12-2	0.05	mg/kg	----	<0.05	----	----	----	
Carbophenothion	786-19-6	0.05	mg/kg	----	<0.05	----	----	----	
Azinphos Methyl	86-50-0	0.05	mg/kg	----	<0.05	----	----	----	
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	10	mg/kg	<10	----	----	<10	----	
C10 - C14 Fraction	----	50	mg/kg	<50	----	----	<50	----	
C15 - C28 Fraction	----	100	mg/kg	<100	----	----	<100	----	
C29 - C36 Fraction	----	100	mg/kg	<100	----	----	<100	----	
^ C10 - C36 Fraction (sum)	----	50	mg/kg	<50	----	----	<50	----	
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg	<10	----	----	<10	----	
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<10	----	----	<10	----	
>C10 - C16 Fraction	----	50	mg/kg	<50	----	----	<50	----	
>C16 - C34 Fraction	----	100	mg/kg	<100	----	----	<100	----	
>C34 - C40 Fraction	----	100	mg/kg	<100	----	----	<100	----	
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	----	----	<50	----	
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	<50	----	----	<50	----	
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg	<0.2	----	----	<0.2	----	
Toluene	108-88-3	0.5	mg/kg	<0.5	----	----	<0.5	----	
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	----	----	<0.5	----	
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	----	----	<0.5	----	
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	----	----	<0.5	----	
^ Sum of BTEX	----	0.2	mg/kg	<0.2	----	----	<0.2	----	
^ Total Xylenes	----	0.5	mg/kg	<0.5	----	----	<0.5	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP3-0.5	TP4-0.1	TP4-1.0	TP5-0.1	TP5-0.5
Sampling date / time				24-Feb-2023 00:00	24-Feb-2023 00:00	24-Feb-2023 00:00	24-Feb-2023 00:00	24-Feb-2023 00:00	
Compound	CAS Number	LOR	Unit	EB2306000-009	EB2306000-011	EB2306000-013	EB2306000-014	EB2306000-015	
				Result	Result	Result	Result	Result	
EP080: BTEXN - Continued									
Naphthalene	91-20-3	1	mg/kg	<1	----	----	<1	----	
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.05	%	----	111	----	----	----	
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.05	%	----	95.4	----	----	----	
EP080S: TPH(V)/BTEX Surrogates									
1,2-Dichloroethane-D4	17060-07-0	0.2	%	89.4	----	----	73.4	----	
Toluene-D8	2037-26-5	0.2	%	88.3	----	----	64.4	----	
4-Bromofluorobenzene	460-00-4	0.2	%	97.9	----	----	76.6	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP6-0.1	TP6-0.3	TP7-0.1	TP8-0.1	TP9-0.1
Sampling date / time				24-Feb-2023 00:00	24-Feb-2023 00:00	24-Feb-2023 00:00	24-Feb-2023 00:00	24-Feb-2023 00:00	
Compound	CAS Number	LOR	Unit	EB2306000-016	EB2306000-017	EB2306000-019	EB2306000-020	EB2306000-022	
				Result	Result	Result	Result	Result	
EA055: Moisture Content									
Moisture Content	----	1.0	%	11.7	----	13.7	12.4	15.7	
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	1.0	%	----	18.2	----	----	----	
EA200: AS 4964 - 2004 Identification of Asbestos in Soils									
Asbestos Detected	1332-21-4	0.1	g/kg	----	----	No	No	----	
Asbestos (Trace)	1332-21-4	5	Fibres	----	----	No	No	----	
Asbestos Type	1332-21-4	-	--	----	----	-	-	----	
Synthetic Mineral Fibre	----	-	--	----	----	No	No	----	
Organic Fibre	----	-	--	----	----	Yes	Yes	----	
Sample weight (dry)	----	0.01	g	----	----	12.2	7.10	----	
APPROVED IDENTIFIER:	----	-	--	----	----	M. TRAN	M. TRAN	----	
EG005(ED093)T: Total Metals by ICP-AES									
Arsenic	7440-38-2	5	mg/kg	<5	<5	<5	<5	10	
Cadmium	7440-43-9	1	mg/kg	<1	<1	2	<1	1	
Chromium	7440-47-3	2	mg/kg	10	27	11	14	20	
Copper	7440-50-8	5	mg/kg	10	<5	<5	17	93	
Lead	7439-92-1	5	mg/kg	37	25	31	41	465	
Nickel	7440-02-0	2	mg/kg	2	<2	<2	<2	29	
Zinc	7440-66-6	5	mg/kg	113	<5	250	39	629	
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	0.2	
EP068A: Organochlorine Pesticides (OC)									
alpha-BHC	319-84-6	0.05	mg/kg	----	<0.05	----	----	<0.05	
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	----	<0.05	----	----	<0.05	
beta-BHC	319-85-7	0.05	mg/kg	----	<0.05	----	----	<0.05	
gamma-BHC	58-89-9	0.05	mg/kg	----	<0.05	----	----	<0.05	
delta-BHC	319-86-8	0.05	mg/kg	----	<0.05	----	----	<0.05	
Heptachlor	76-44-8	0.05	mg/kg	----	<0.05	----	----	<0.05	
Aldrin	309-00-2	0.05	mg/kg	----	<0.05	----	----	<0.05	
Heptachlor epoxide	1024-57-3	0.05	mg/kg	----	<0.05	----	----	<0.05	
^ Total Chlordane (sum)	----	0.05	mg/kg	----	<0.05	----	----	<0.05	
trans-Chlordane	5103-74-2	0.05	mg/kg	----	<0.05	----	----	<0.05	
alpha-Endosulfan	959-98-8	0.05	mg/kg	----	<0.05	----	----	<0.05	
cis-Chlordane	5103-71-9	0.05	mg/kg	----	<0.05	----	----	<0.05	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP6-0.1	TP6-0.3	TP7-0.1	TP8-0.1	TP9-0.1
Sampling date / time				24-Feb-2023 00:00	24-Feb-2023 00:00	24-Feb-2023 00:00	24-Feb-2023 00:00	24-Feb-2023 00:00	
Compound	CAS Number	LOR	Unit	EB2306000-016	EB2306000-017	EB2306000-019	EB2306000-020	EB2306000-022	
				Result	Result	Result	Result	Result	
EP068A: Organochlorine Pesticides (OC) - Continued									
Dieldrin	60-57-1	0.05	mg/kg	----	<0.05	----	----	<0.05	
4,4'-DDE	72-55-9	0.05	mg/kg	----	<0.05	----	----	<0.05	
Endrin	72-20-8	0.05	mg/kg	----	<0.05	----	----	<0.05	
beta-Endosulfan	33213-65-9	0.05	mg/kg	----	<0.05	----	----	<0.05	
^ Endosulfan (sum)	115-29-7	0.05	mg/kg	----	<0.05	----	----	<0.05	
4,4'-DDD	72-54-8	0.05	mg/kg	----	<0.05	----	----	<0.05	
Endrin aldehyde	7421-93-4	0.05	mg/kg	----	<0.05	----	----	<0.05	
Endosulfan sulfate	1031-07-8	0.05	mg/kg	----	<0.05	----	----	<0.05	
4,4'-DDT	50-29-3	0.2	mg/kg	----	<0.2	----	----	<0.2	
Endrin ketone	53494-70-5	0.05	mg/kg	----	<0.05	----	----	<0.05	
Methoxychlor	72-43-5	0.2	mg/kg	----	<0.2	----	----	<0.2	
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	----	<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	
EP068B: Organophosphorus Pesticides (OP)									
Dichlorvos	62-73-7	0.05	mg/kg	----	<0.05	----	----	<0.05	
Demeton-S-methyl	919-86-8	0.05	mg/kg	----	<0.05	----	----	<0.05	
Monocrotophos	6923-22-4	0.2	mg/kg	----	<0.2	----	----	<0.2	
Dimethoate	60-51-5	0.05	mg/kg	----	<0.05	----	----	<0.05	
Diazinon	333-41-5	0.05	mg/kg	----	<0.05	----	----	<0.05	
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	----	<0.05	----	----	<0.05	
Parathion-methyl	298-00-0	0.2	mg/kg	----	<0.2	----	----	<0.2	
Malathion	121-75-5	0.05	mg/kg	----	<0.05	----	----	<0.05	
Fenthion	55-38-9	0.05	mg/kg	----	<0.05	----	----	<0.05	
Chlorpyrifos	2921-88-2	0.05	mg/kg	----	<0.05	----	----	<0.05	
Parathion	56-38-2	0.2	mg/kg	----	<0.2	----	----	<0.2	
Pirimphos-ethyl	23505-41-1	0.05	mg/kg	----	<0.05	----	----	<0.05	
Chlorfenvinphos	470-90-6	0.05	mg/kg	----	<0.05	----	----	<0.05	
Bromophos-ethyl	4824-78-6	0.05	mg/kg	----	<0.05	----	----	<0.05	
Fenamiphos	22224-92-6	0.05	mg/kg	----	<0.05	----	----	<0.05	
Prothiofos	34643-46-4	0.05	mg/kg	----	<0.05	----	----	<0.05	
Ethion	563-12-2	0.05	mg/kg	----	<0.05	----	----	<0.05	
Carbophenothion	786-19-6	0.05	mg/kg	----	<0.05	----	----	<0.05	
Azinphos Methyl	86-50-0	0.05	mg/kg	----	<0.05	----	----	<0.05	
EP080/071: Total Petroleum Hydrocarbons									



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP6-0.1	TP6-0.3	TP7-0.1	TP8-0.1	TP9-0.1
Sampling date / time				24-Feb-2023 00:00	24-Feb-2023 00:00	24-Feb-2023 00:00	24-Feb-2023 00:00	24-Feb-2023 00:00	
Compound	CAS Number	LOR	Unit	EB2306000-016	EB2306000-017	EB2306000-019	EB2306000-020	EB2306000-022	
				Result	Result	Result	Result	Result	
EP080/071: Total Petroleum Hydrocarbons - Continued									
C6 - C9 Fraction	----	10	mg/kg	<10	----	<10	<10	<10	
C10 - C14 Fraction	----	50	mg/kg	<50	----	<50	<50	<50	
C15 - C28 Fraction	----	100	mg/kg	<100	----	<100	<100	140	
C29 - C36 Fraction	----	100	mg/kg	<100	----	<100	<100	<100	
^ C10 - C36 Fraction (sum)	----	50	mg/kg	<50	----	<50	<50	140	
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg	<10	----	<10	<10	<10	
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<10	----	<10	<10	<10	
>C10 - C16 Fraction	----	50	mg/kg	<50	----	<50	<50	<50	
>C16 - C34 Fraction	----	100	mg/kg	<100	----	<100	<100	200	
>C34 - C40 Fraction	----	100	mg/kg	<100	----	<100	<100	<100	
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	----	<50	<50	200	
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	<50	----	<50	<50	<50	
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg	<0.2	----	<0.2	<0.2	<0.2	
Toluene	108-88-3	0.5	mg/kg	<0.5	----	<0.5	<0.5	<0.5	
Ethylbenzene	100-41-4	0.5	mg/kg	<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	
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	----	<0.5	<0.5	<0.5	
^ Sum of BTEX	----	0.2	mg/kg	<0.2	----	<0.2	<0.2	<0.2	
^ Total Xylenes	----	0.5	mg/kg	<0.5	----	<0.5	<0.5	<0.5	
Naphthalene	91-20-3	1	mg/kg	<1	----	<1	<1	<1	
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.05	%	----	106	----	----	117	
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.05	%	----	89.2	----	----	100	
EP080S: TPH(V)/BTEX Surrogates									
1,2-Dichloroethane-D4	17060-07-0	0.2	%	78.1	----	82.2	82.6	77.0	
Toluene-D8	2037-26-5	0.2	%	73.4	----	77.2	75.3	69.0	
4-Bromofluorobenzene	460-00-4	0.2	%	87.6	----	86.2	89.9	81.2	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP9-0.3	TP10-0.1	TP10-0.5	TP10-0.7	TP11-0.1
Sampling date / time				24-Feb-2023 00:00	24-Feb-2023 00:00	24-Feb-2023 00:00	24-Feb-2023 00:00	24-Feb-2023 00:00	
Compound	CAS Number	LOR	Unit	EB2306000-023	EB2306000-025	EB2306000-026	EB2306000-027	EB2306000-028	
				Result	Result	Result	Result	Result	
EA055: Moisture Content									
Moisture Content	----	1.0	%	----	----	18.4	15.6	----	
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	1.0	%	13.4	13.5	----	----	17.1	
EG005(ED093)T: Total Metals by ICP-AES									
Arsenic	7440-38-2	5	mg/kg	<5	<5	35	<5	<5	
Cadmium	7440-43-9	1	mg/kg	<1	<1	12	<1	<1	
Chromium	7440-47-3	2	mg/kg	11	11	132	9	10	
Copper	7440-50-8	5	mg/kg	<5	23	1710	<5	29	
Lead	7439-92-1	5	mg/kg	15	81	1960	8	167	
Nickel	7440-02-0	2	mg/kg	<2	3	68	<2	3	
Zinc	7440-66-6	5	mg/kg	98	286	2500	83	236	
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.1	mg/kg	<0.1	0.2	216	<0.1	<0.1	
EP068A: Organochlorine Pesticides (OC)									
alpha-BHC	319-84-6	0.05	mg/kg	----	----	<0.05	----	----	
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	----	----	<0.05	----	----	
beta-BHC	319-85-7	0.05	mg/kg	----	----	<0.05	----	----	
gamma-BHC	58-89-9	0.05	mg/kg	----	----	<0.05	----	----	
delta-BHC	319-86-8	0.05	mg/kg	----	----	<0.05	----	----	
Heptachlor	76-44-8	0.05	mg/kg	----	----	<0.05	----	----	
Aldrin	309-00-2	0.05	mg/kg	----	----	<0.05	----	----	
Heptachlor epoxide	1024-57-3	0.05	mg/kg	----	----	<0.05	----	----	
^ Total Chlordane (sum)	----	0.05	mg/kg	----	----	<0.05	----	----	
trans-Chlordane	5103-74-2	0.05	mg/kg	----	----	<0.05	----	----	
alpha-Endosulfan	959-98-8	0.05	mg/kg	----	----	<0.05	----	----	
cis-Chlordane	5103-71-9	0.05	mg/kg	----	----	<0.05	----	----	
Dieldrin	60-57-1	0.05	mg/kg	----	----	<0.05	----	----	
4,4'-DDE	72-55-9	0.05	mg/kg	----	----	0.07	----	----	
Endrin	72-20-8	0.05	mg/kg	----	----	<0.05	----	----	
beta-Endosulfan	33213-65-9	0.05	mg/kg	----	----	<0.05	----	----	
^ Endosulfan (sum)	115-29-7	0.05	mg/kg	----	----	<0.05	----	----	
4,4'-DDD	72-54-8	0.05	mg/kg	----	----	<0.05	----	----	
Endrin aldehyde	7421-93-4	0.05	mg/kg	----	----	<0.05	----	----	
Endosulfan sulfate	1031-07-8	0.05	mg/kg	----	----	<0.05	----	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP9-0.3	TP10-0.1	TP10-0.5	TP10-0.7	TP11-0.1
Sampling date / time				24-Feb-2023 00:00	24-Feb-2023 00:00	24-Feb-2023 00:00	24-Feb-2023 00:00	24-Feb-2023 00:00	
Compound	CAS Number	LOR	Unit	EB2306000-023	EB2306000-025	EB2306000-026	EB2306000-027	EB2306000-028	
				Result	Result	Result	Result	Result	
EP068A: Organochlorine Pesticides (OC) - Continued									
4,4'-DDT	50-29-3	0.2	mg/kg	----	----	0.2	----	----	
Endrin ketone	53494-70-5	0.05	mg/kg	----	----	<0.05	----	----	
Methoxychlor	72-43-5	0.2	mg/kg	----	----	<0.2	----	----	
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	----	----	<0.05	----	----	
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/5 0-2	0.05	mg/kg	----	----	0.27	----	----	
EP068B: Organophosphorus Pesticides (OP)									
Dichlorvos	62-73-7	0.05	mg/kg	----	----	<0.05	----	----	
Demeton-S-methyl	919-86-8	0.05	mg/kg	----	----	<0.05	----	----	
Monocrotophos	6923-22-4	0.2	mg/kg	----	----	<0.2	----	----	
Dimethoate	60-51-5	0.05	mg/kg	----	----	<0.05	----	----	
Diazinon	333-41-5	0.05	mg/kg	----	----	<0.05	----	----	
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	----	----	<0.05	----	----	
Parathion-methyl	298-00-0	0.2	mg/kg	----	----	<0.2	----	----	
Malathion	121-75-5	0.05	mg/kg	----	----	<0.05	----	----	
Fenthion	55-38-9	0.05	mg/kg	----	----	<0.05	----	----	
Chlorpyrifos	2921-88-2	0.05	mg/kg	----	----	<0.05	----	----	
Parathion	56-38-2	0.2	mg/kg	----	----	<0.2	----	----	
Pirimphos-ethyl	23505-41-1	0.05	mg/kg	----	----	<0.05	----	----	
Chlorfenvinphos	470-90-6	0.05	mg/kg	----	----	<0.05	----	----	
Bromophos-ethyl	4824-78-6	0.05	mg/kg	----	----	<0.05	----	----	
Fenamiphos	22224-92-6	0.05	mg/kg	----	----	<0.05	----	----	
Prothiofos	34643-46-4	0.05	mg/kg	----	----	<0.05	----	----	
Ethion	563-12-2	0.05	mg/kg	----	----	<0.05	----	----	
Carbophenothion	786-19-6	0.05	mg/kg	----	----	<0.05	----	----	
Azinphos Methyl	86-50-0	0.05	mg/kg	----	----	<0.05	----	----	
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	10	mg/kg	----	----	<10	<10	----	
C10 - C14 Fraction	----	50	mg/kg	----	----	<50	<50	----	
C15 - C28 Fraction	----	100	mg/kg	----	----	170	<100	----	
C29 - C36 Fraction	----	100	mg/kg	----	----	260	<100	----	
^ C10 - C36 Fraction (sum)	----	50	mg/kg	----	----	430	<50	----	
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg	----	----	<10	<10	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP9-0.3	TP10-0.1	TP10-0.5	TP10-0.7	TP11-0.1
Sampling date / time				24-Feb-2023 00:00	24-Feb-2023 00:00	24-Feb-2023 00:00	24-Feb-2023 00:00	24-Feb-2023 00:00	
Compound	CAS Number	LOR	Unit	EB2306000-023	EB2306000-025	EB2306000-026	EB2306000-027	EB2306000-028	
				Result	Result	Result	Result	Result	
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions - Continued									
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	----	----	<10	<10	----	
>C10 - C16 Fraction	----	50	mg/kg	----	----	<50	<50	----	
>C16 - C34 Fraction	----	100	mg/kg	----	----	360	<100	----	
>C34 - C40 Fraction	----	100	mg/kg	----	----	170	<100	----	
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	----	----	530	<50	----	
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	----	----	<50	<50	----	
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg	----	----	<0.2	<0.2	----	
Toluene	108-88-3	0.5	mg/kg	----	----	<0.5	<0.5	----	
Ethylbenzene	100-41-4	0.5	mg/kg	----	----	<0.5	<0.5	----	
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	----	----	<0.5	<0.5	----	
ortho-Xylene	95-47-6	0.5	mg/kg	----	----	<0.5	<0.5	----	
^ Sum of BTEX	----	0.2	mg/kg	----	----	<0.2	<0.2	----	
^ Total Xylenes	----	0.5	mg/kg	----	----	<0.5	<0.5	----	
Naphthalene	91-20-3	1	mg/kg	----	----	<1	<1	----	
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.05	%	----	----	121	----	----	
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.05	%	----	----	100	----	----	
EP080S: TPH(V)/BTEX Surrogates									
1,2-Dichloroethane-D4	17060-07-0	0.2	%	----	----	80.6	80.6	----	
Toluene-D8	2037-26-5	0.2	%	----	----	74.5	82.1	----	
4-Bromofluorobenzene	460-00-4	0.2	%	----	----	86.8	103	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)		Sample ID		TP11-0.5	051332	D1	D2	----
		Sampling date / time		24-Feb-2023 00:00	24-Feb-2023 00:00	24-Feb-2023 00:00	24-Feb-2023 00:00	----
Compound	CAS Number	LOR	Unit	EB2306000-029	EB2306000-030	EB2306000-031	EB2306000-032	-----
				Result	Result	Result	Result	----
EA055: Moisture Content								
Moisture Content	----	1.0	%	----	----	----	14.1	----
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	18.8	----	10.1	----	----
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	11	----	15	9	----
Copper	7440-50-8	5	mg/kg	<5	----	<5	<5	----
Lead	7439-92-1	5	mg/kg	12	----	8	30	----
Nickel	7440-02-0	2	mg/kg	<2	----	<2	<2	----
Zinc	7440-66-6	5	mg/kg	23	----	49	238	----
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	----	0.2	<0.1	----
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	10	mg/kg	----	<10	----	<10	----
C10 - C14 Fraction	----	50	mg/kg	----	----	----	<50	----
C15 - C28 Fraction	----	100	mg/kg	----	----	----	100	----
C29 - C36 Fraction	----	100	mg/kg	----	----	----	<100	----
^ C10 - C36 Fraction (sum)	----	50	mg/kg	----	----	----	100	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	10	mg/kg	----	<10	----	<10	----
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	----	<10	----	<10	----
>C10 - C16 Fraction	----	50	mg/kg	----	----	----	<50	----
>C16 - C34 Fraction	----	100	mg/kg	----	----	----	130	----
>C34 - C40 Fraction	----	100	mg/kg	----	----	----	<100	----
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	----	----	----	130	----
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	----	----	----	<50	----
EP080: BTEXN								
Benzene	71-43-2	0.2	mg/kg	----	<0.2	----	<0.2	----
Toluene	108-88-3	0.5	mg/kg	----	<0.5	----	<0.5	----
Ethylbenzene	100-41-4	0.5	mg/kg	----	<0.5	----	<0.5	----
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	----	<0.5	----	<0.5	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP11-0.5	051332	D1	D2	----
Sampling date / time				24-Feb-2023 00:00	24-Feb-2023 00:00	24-Feb-2023 00:00	24-Feb-2023 00:00	----	
Compound	CAS Number	LOR	Unit	EB2306000-029	EB2306000-030	EB2306000-031	EB2306000-032	-----	
				Result	Result	Result	Result	----	
EP080: BTEXN - Continued									
ortho-Xylene	95-47-6	0.5	mg/kg	----	<0.5	----	<0.5	----	
^ Sum of BTEX	----	0.2	mg/kg	----	<0.2	----	<0.2	----	
^ Total Xylenes	----	0.5	mg/kg	----	<0.5	----	<0.5	----	
Naphthalene	91-20-3	1	mg/kg	----	<1	----	<1	----	
EP080S: TPH(V)/BTEX Surrogates									
1,2-Dichloroethane-D4	17060-07-0	0.2	%	----	83.7	----	85.6	----	
Toluene-D8	2037-26-5	0.2	%	----	80.0	----	74.8	----	
4-Bromofluorobenzene	460-00-4	0.2	%	----	101	----	91.7	----	



Analytical Results

Sub-Matrix: SOLID (Matrix: SOLID)				Sample ID	TP10-B1	TP10-B2	TP11-B1	----	----
Sampling date / time				24-Feb-2023 00:00	24-Feb-2023 00:00	24-Feb-2023 00:00	----	----	
Compound	CAS Number	LOR	Unit	EB2306000-033	EB2306000-034	EB2306000-035	-----	-----	
				Result	Result	Result	----	----	
EA200: AS 4964 - 2004 Identification of Asbestos in bulk samples									
Asbestos Detected	1332-21-4	0.1	g/kg	Yes	Yes	Yes	----	----	
Asbestos Type	1332-21-4	-	--	Ch	Ch	Ch + Am +Cr	----	----	
Asbestos (Trace)	1332-21-4	5	Fibres	N/A	N/A	N/A	----	----	
Sample weight (dry)	----	0.01	g	3.70	5.60	1.80	----	----	
Synthetic Mineral Fibre	----	-	-	No	No	No	----	----	
Organic Fibre	----	-	-	No	No	No	----	----	
APPROVED IDENTIFIER:	----	-	--	M. TRAN	M. TRAN	M. TRAN	----	----	

Analytical Results

Descriptive Results

Sub-Matrix: **SOIL**

Method: Compound	Sample ID - Sampling date / time	Analytical Results
EA200: AS 4964 - 2004 Identification of Asbestos in Soils		
EA200: Description	TP7-0.1 - 24-Feb-2023 00:00	Grey soil with organic matter.
EA200: Description	TP8-0.1 - 24-Feb-2023 00:00	Grey soil with organic matter.

Sub-Matrix: **SOLID**

Method: Compound	Sample ID - Sampling date / time	Analytical Results
EA200: AS 4964 - 2004 Identification of Asbestos in bulk samples		
EA200: Description	TP10-B1 - 24-Feb-2023 00:00	Asbestos sheeting fragment approx 30 x 20 x 5mm.
EA200: Description	TP10-B2 - 24-Feb-2023 00:00	Asbestos sheeting fragment approx 40 x 25 x 5mm.
EA200: Description	TP11-B1 - 24-Feb-2023 00:00	Asbestos sheeting fragment approx 30 x 20 x 5mm.



Surrogate Control Limits

Sub-Matrix: SOIL		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP068S: Organochlorine Pesticide Surrogate			
Dibromo-DDE	21655-73-2	10	138
EP068T: Organophosphorus Pesticide Surrogate			
DEF	78-48-8	23	134
EP080S: TPH(V)/BTEX Surrogates			
1,2-Dichloroethane-D4	17060-07-0	53	134
Toluene-D8	2037-26-5	60	131
4-Bromofluorobenzene	460-00-4	59	127

Inter-Laboratory Testing

Analysis conducted by ALS Melbourne, NATA accreditation no. 825, site no. 13778 (Chemistry).

(SOLID) EA200: AS 4964 - 2004 Identification of Asbestos in bulk samples

(SOIL) EA200: AS 4964 - 2004 Identification of Asbestos in Soils

QUALITY CONTROL REPORT

Work Order	: EB2306000	Page	: 1 of 14
Client	: ENVIRONMENTAL ADVISORS	Laboratory	: Environmental Division Brisbane
Contact	: ANDREW WINTERS	Contact	: Customer Services EB
Address	: PO BOX 505 BUDDINA QLD 4575	Address	: 2 Byth Street Stafford QLD Australia 4053
Telephone	: ----	Telephone	: +61 7 3243 7222
Project	: 125 NSC LAKE McDONALD DVE, COOROY	Date Samples Received	: 28-Feb-2023
Order number	: ----	Date Analysis Commenced	: 01-Mar-2023
C-O-C number	: ----	Issue Date	: 09-Mar-2023
Sampler	: ANDREW WINTERS		
Site	: ----		
Quote number	: EN/222		
No. of samples received	: 35		
No. of samples analysed	: 27		



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.

<i>Signatories</i>	<i>Position</i>	<i>Accreditation Category</i>
Kim McCabe	Senior Inorganic Chemist	Brisbane Acid Sulphate Soils, Stafford, QLD
Kim McCabe	Senior Inorganic Chemist	Brisbane Inorganics, Stafford, QLD
Kirsty Watson	Senior Chemist - Organics	Brisbane Organics, Stafford, QLD
Layla Hafner	Acid Sulphate Soils - Chemist	Brisbane Acid Sulphate Soils, Stafford, QLD
MINNIE TRAN	Approved Asbestos Identifier	Melbourne Asbestos, Springvale, VIC
Morgan Lennox	Senior Organic Chemist	Brisbane Organics, Stafford, QLD
Timothy Creagh	Senior Chemist - Organics	Brisbane Organics, Stafford, QLD



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

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: 4906373)									
EB2305781-001	Anonymous	EG005T: Cadmium	7440-43-9	1	mg/kg	2	3	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	10	8	16.2	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	7	3	87.4	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	25	20	20.3	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	60	58	4.0	0% - 50%
		EG005T: Zinc	7440-66-6	5	mg/kg	72	78	8.8	0% - 50%
		EG005T: Iron	7439-89-6	50	mg/kg	26900	# 6660	121	0% - 20%
EB2305781-017	Anonymous	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	6	6	0.0	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	6	7	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	18	20	10.8	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	160	# 202	23.2	0% - 20%
		EG005T: Zinc	7440-66-6	5	mg/kg	127	145	13.7	0% - 20%
		EG005T: Iron	7439-89-6	50	mg/kg	20400	22000	7.7	0% - 20%
EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 4906375)									
EB2306000-015	TP5-0.5	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	21	19	8.0	0% - 50%
		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	6	5	0.0	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	26	26	0.0	No Limit

Page : 3 of 14
 Work Order : EB2306000
 Client : ENVIRONMENTAL ADVISORS
 Project : 125 NSC LAKE McDONALD DVE, COOROY



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: 4906375) - continued									
EB2306000-015	TP5-0.5	EG005T: Iron	7439-89-6	50	mg/kg	36100	32000	12.1	0% - 20%
EB2306000-028	TP11-0.1	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	10	11	0.0	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	3	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	29	22	25.8	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	167	# 131	23.9	0% - 20%
		EG005T: Zinc	7440-66-6	5	mg/kg	236	224	5.3	0% - 20%
		EG005T: Iron	7439-89-6	50	mg/kg	9770	# 7260	29.4	0% - 20%
EA001: pH in soil using 0.01M CaCl extract (QC Lot: 4907068)									
EB2305200-002	Anonymous	EA001: pH (CaCl2)	----	0.1	pH Unit	9.0	9.3	3.5	0% - 20%
EB2306000-013	TP4-1.0	EA001: pH (CaCl2)	----	0.1	pH Unit	4.9	4.9	0.0	0% - 20%
EA002: pH 1:5 (Soils) (QC Lot: 4907281)									
EB2306000-013	TP4-1.0	EA002: pH Value	----	0.1	pH Unit	5.4	5.4	0.0	0% - 20%
EA010: Conductivity (1:5) (QC Lot: 4907282)									
EB2306000-013	TP4-1.0	EA010: Electrical Conductivity @ 25°C	----	1	µS/cm	5	5	0.0	No Limit
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 4906377)									
EB2306000-001	TP1-0.1	EA055: Moisture Content	----	0.1	%	7.4	7.9	6.8	No Limit
EB2306000-016	TP6-0.1	EA055: Moisture Content	----	0.1	%	11.7	11.0	6.6	0% - 50%
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 4906378)									
EB2306000-029	TP11-0.5	EA055: Moisture Content	----	0.1	%	18.8	18.2	3.0	0% - 50%
ED005: Exchange Acidity (QC Lot: 4908317)									
EB2305513-002	Anonymous	ED005: Exchange Acidity	----	0.1	meq/100g	0.3	0.3	0.0	No Limit
		ED005: Exchangeable Aluminium	----	0.1	meq/100g	0.2	0.2	0.0	No Limit
ED007: Exchangeable Cations (QC Lot: 4908315)									
EB2305513-002	Anonymous	ED007: Exchangeable Calcium	----	0.1	meq/100g	0.6	0.5	0.0	No Limit
		ED007: Exchangeable Magnesium	----	0.1	meq/100g	0.4	0.4	0.0	No Limit
		ED007: Exchangeable Potassium	----	0.1	meq/100g	<0.1	<0.1	0.0	No Limit
		ED007: Exchangeable Sodium	----	0.1	meq/100g	<0.1	<0.1	0.0	No Limit
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 4906372)									
EB2305781-001	Anonymous	EG035T: Mercury	7439-97-6	0.1	mg/kg	0.6	0.6	0.0	No Limit
EB2305781-017	Anonymous	EG035T: Mercury	7439-97-6	0.1	mg/kg	0.2	0.3	0.0	No Limit
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 4906376)									
EB2306000-016	TP6-0.1	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EB2306000-029	TP11-0.5	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EP004: Organic Matter (QC Lot: 4907067)									
EB2305513-003	Anonymous	EP004: Organic Matter	----	0.5	%	2.3	2.3	0.0	No Limit
		EP004: Total Organic Carbon	----	0.5	%	1.3	<0.5	90.6	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 (%)
EP004: Organic Matter (QC Lot: 4907067) - continued									
EB2306137-001	Anonymous	EP004: Organic Matter	----	0.5	%	<0.5	<0.5	0.0	No Limit
		EP004: Total Organic Carbon	----	0.5	%	<0.5	<0.5	0.0	No Limit
EP068A: Organochlorine Pesticides (OC) (QC Lot: 4907118)									
EB2306000-001	TP1-0.1	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	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	<0.05	<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
		EB2306019-001	Anonymous	EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05
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	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



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: 4907118) - continued											
EB2306019-001	Anonymous	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: 4907118)											
EB2306000-001	TP1-0.1	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	56-38-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit		
		EB2306019-001	Anonymous	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		



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: 4907118) - continued									
EB2306019-001	Anonymous	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	56-38-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4902283)									
EB2305781-001	Anonymous	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
EB2305781-017	Anonymous	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4905806)									
EB2306000-027	TP10-0.7	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
EB2306172-040	Anonymous	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4907115)									
EB2305781-001	Anonymous	EP071: C15 - C28 Fraction	----	100	mg/kg	200	120	51.2	No Limit
		EP071: C29 - C36 Fraction	----	100	mg/kg	120	<100	15.1	No Limit
		EP071: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
EB2305781-017	Anonymous	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 Petroleum Hydrocarbons (QC Lot: 4907119)									
EB2306000-020	TP8-0.1	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
EB2306127-006	Anonymous	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: 4902283)									
EB2305781-001	Anonymous	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.0	No Limit
EB2305781-017	Anonymous	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: 4905806)									
EB2306000-027	TP10-0.7	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	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 (%)	
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4905806) - continued										
EB2306172-040	Anonymous	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: 4907115)										
EB2305781-001	Anonymous	EP071: >C16 - C34 Fraction	----	100	mg/kg	290	170	55.0	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	
EB2305781-017	Anonymous	EP071: >C16 - C34 Fraction	----	100	mg/kg	150	170	13.6	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	
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4907119)										
EB2306000-020	TP8-0.1	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	
EB2306127-006	Anonymous	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: 4902283)										
EB2305781-001	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	0.5	mg/kg	<0.5	<0.5	0.0	No Limit	
			106-42-3							
		EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit	
EB2305781-017	Anonymous	EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit	
		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	0.5	mg/kg	<0.5	<0.5	0.0	No Limit	
			106-42-3							
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: 4905806)										
EB2306000-027	TP10-0.7	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	0.5	mg/kg	<0.5	<0.5	0.0	No Limit	
			106-42-3							
		EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit	
EB2306172-040	Anonymous	EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit	
		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	

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 Work Order : EB2306000
 Client : ENVIRONMENTAL ADVISORS
 Project : 125 NSC LAKE McDONALD DVE, COOROY



Sub-Matrix: **SOIL**

				<i>Laboratory Duplicate (DUP) Report</i>					
<i>Laboratory sample ID</i>	<i>Sample ID</i>	<i>Method: Compound</i>	<i>CAS Number</i>	<i>LOR</i>	<i>Unit</i>	<i>Original Result</i>	<i>Duplicate Result</i>	<i>RPD (%)</i>	<i>Acceptable RPD (%)</i>
EP080: BTEXN (QC Lot: 4905806) - continued									
EB2306172-040	Anonymous	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



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: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
				Result	Spike Concentration	Spike Recovery (%) LCS	Acceptable Limits (%) Low High	
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4906373)								
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	67.5924 mg/kg	96.2	84.0	123
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	----	----	----	----
EG005T: Chromium	7440-47-3	2	mg/kg	<2	15 mg/kg	107	83.0	125
EG005T: Copper	7440-50-8	5	mg/kg	<5	39.8567 mg/kg	105	86.0	122
EG005T: Iron	7439-89-6	50	mg/kg	<50	30690 mg/kg	110	70.0	120
EG005T: Lead	7439-92-1	5	mg/kg	<5	46.2564 mg/kg	117	84.0	119
EG005T: Nickel	7440-02-0	2	mg/kg	<2	13 mg/kg	100	81.5	118
EG005T: Zinc	7440-66-6	5	mg/kg	<5	167.7014 mg/kg	97.6	80.0	120
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4906375)								
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	67.5924 mg/kg	95.5	84.0	123
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	----	----	----	----
EG005T: Chromium	7440-47-3	2	mg/kg	<2	15 mg/kg	108	83.0	125
EG005T: Copper	7440-50-8	5	mg/kg	<5	39.8567 mg/kg	104	86.0	122
EG005T: Iron	7439-89-6	50	mg/kg	<50	30690 mg/kg	110	70.0	120
EG005T: Lead	7439-92-1	5	mg/kg	<5	46.2564 mg/kg	114	84.0	119
EG005T: Nickel	7440-02-0	2	mg/kg	<2	13 mg/kg	104	81.5	118
EG005T: Zinc	7440-66-6	5	mg/kg	<5	167.7014 mg/kg	97.2	80.0	120
EA001: pH in soil using 0.01M CaCl extract (QCLot: 4907068)								
EA001: pH (CaCl2)	----	----	pH Unit	----	4 pH Unit	100	99.0	101
					7 pH Unit	100	99.0	101
EA002: pH 1:5 (Soils) (QCLot: 4907281)								
EA002: pH Value	----	----	pH Unit	----	4 pH Unit	100	98.0	102
					7 pH Unit	99.6	98.0	102
EA010: Conductivity (1:5) (QCLot: 4907282)								
EA010: Electrical Conductivity @ 25°C	----	1	µS/cm	<1	1412 µS/cm	101	97.0	103
ED005: Exchange Acidity (QCLot: 4908317)								
ED005: Exchange Acidity	----	0.1	meq/100g	<0.1	----	----	----	----
ED005: Exchangeable Aluminium	----	0.1	meq/100g	<0.1	----	----	----	----
ED007: Exchangeable Cations (QCLot: 4908315)								
ED007: Exchangeable Calcium	----	0.1	meq/100g	<0.1	8.9 meq/100g	97.8	79.0	113
ED007: Exchangeable Magnesium	----	0.1	meq/100g	<0.1	9.52 meq/100g	96.9	85.0	115
ED007: Exchangeable Potassium	----	0.1	meq/100g	<0.1	1.49 meq/100g	96.2	70.0	122
ED007: Exchangeable Sodium	----	0.1	meq/100g	<0.1	1.3726 meq/100g	99.3	76.0	112
ED007: Cation Exchange Capacity	----	0.1	meq/100g	<0.1	21.283 meq/100g	97.4	82.0	112



Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report				
				Result	Spike	Spike Recovery (%)		Acceptable Limits (%)	
					Concentration	LCS	Low	High	
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4906372)									
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.09313 mg/kg	102	70.0	125	
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4906376)									
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.09313 mg/kg	102	70.0	125	
EP004: Organic Matter (QCLot: 4907067)									
EP004: Organic Matter	----	0.5	%	<0.5	80 %	105	83.0	115	
EP004: Total Organic Carbon	----	0.5	%	<0.5	46.4 %	105	85.0	115	
EP068A: Organochlorine Pesticides (OC) (QCLot: 4907118)									
EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	0.5 mg/kg	97.0	72.8	127	
EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	0.5 mg/kg	102	71.0	127	
EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	0.5 mg/kg	91.5	67.5	126	
EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	0.5 mg/kg	97.2	72.7	127	
EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	0.5 mg/kg	95.6	70.6	122	
EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	0.5 mg/kg	97.0	64.8	127	
EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	0.5 mg/kg	100	72.4	122	
EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	0.5 mg/kg	99.8	67.4	125	
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	98.2	65.6	124	
EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	0.5 mg/kg	102	70.4	122	
EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	0.5 mg/kg	98.7	65.6	125	
EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	0.5 mg/kg	99.2	69.1	124	
EP068: 4,4'-DDE	72-55-9	0.05	mg/kg	<0.05	0.5 mg/kg	99.4	72.4	125	
EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	0.5 mg/kg	95.3	63.2	127	
EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	0.5 mg/kg	97.4	69.7	120	
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	95.9	61.2	124	
EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	0.5 mg/kg	95.1	55.5	125	
EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	0.5 mg/kg	92.6	57.1	117	
EP068: 4,4'-DDT	50-29-3	0.2	mg/kg	<0.2	0.5 mg/kg	90.8	51.9	125	
EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	0.5 mg/kg	86.1	46.5	122	
EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	0.5 mg/kg	66.4	34.0	130	
EP068: Sum of DDD + DDE + DDT	72-54-8/72-5-9/50-2	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: 4907118)									
EP068: Dichlorvos	62-73-7	0.05	mg/kg	<0.05	0.5 mg/kg	92.2	55.8	126	
EP068: Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	0.5 mg/kg	85.2	45.9	136	
EP068: Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	0.5 mg/kg	43.2	20.0	147	



Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report				
				Result	Spike	Spike Recovery (%)		Acceptable Limits (%)	
					Concentration	LCS	Low	High	
EP068B: Organophosphorus Pesticides (OP) (QCLot: 4907118) - continued									
EP068: Dimethoate	60-51-5	0.05	mg/kg	<0.05	0.5 mg/kg	86.0	44.1	125	
EP068: Diazinon	333-41-5	0.05	mg/kg	<0.05	0.5 mg/kg	92.0	70.3	125	
EP068: Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	0.5 mg/kg	97.4	63.2	124	
EP068: Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	0.5 mg/kg	80.4	44.2	129	
EP068: Malathion	121-75-5	0.05	mg/kg	<0.05	0.5 mg/kg	89.4	52.3	133	
EP068: Fenthion	55-38-9	0.05	mg/kg	<0.05	0.5 mg/kg	100	62.9	126	
EP068: Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	0.5 mg/kg	88.1	69.2	123	
EP068: Parathion	56-38-2	0.2	mg/kg	<0.2	0.5 mg/kg	69.2	37.6	138	
EP068: Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	0.5 mg/kg	97.8	59.6	131	
EP068: Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	0.5 mg/kg	80.9	46.4	144	
EP068: Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	0.5 mg/kg	93.6	56.8	128	
EP068: Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	0.5 mg/kg	45.9	24.4	135	
EP068: Prothiofos	34643-46-4	0.05	mg/kg	<0.05	0.5 mg/kg	92.8	55.9	123	
EP068: Ethion	563-12-2	0.05	mg/kg	<0.05	0.5 mg/kg	85.3	45.0	138	
EP068: Carbophenothion	786-19-6	0.05	mg/kg	<0.05	0.5 mg/kg	85.7	41.6	141	
EP068: Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	0.5 mg/kg	46.7	20.0	145	
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4902283)									
EP080: C6 - C9 Fraction	----	10	mg/kg	<10	18 mg/kg	108	64.0	120	
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4905806)									
EP080: C6 - C9 Fraction	----	10	mg/kg	<10	18 mg/kg	102	64.0	120	
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4907115)									
EP071: C10 - C14 Fraction	----	50	mg/kg	<50	378 mg/kg	96.5	79.4	125	
EP071: C15 - C28 Fraction	----	100	mg/kg	<100	407 mg/kg	93.4	78.8	122	
EP071: C29 - C36 Fraction	----	100	mg/kg	<100	----	----	----	----	
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4907119)									
EP071: C10 - C14 Fraction	----	50	mg/kg	<50	378 mg/kg	101	79.4	125	
EP071: C15 - C28 Fraction	----	100	mg/kg	<100	407 mg/kg	98.6	78.8	122	
EP071: C29 - C36 Fraction	----	100	mg/kg	<100	----	----	----	----	
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4902283)									
EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	22.5 mg/kg	109	58.1	124	
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4905806)									
EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	22.5 mg/kg	105	58.1	124	
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4907115)									
EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	502 mg/kg	93.5	81.0	132	
EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	268 mg/kg	104	67.2	130	
EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	----	----	----	----	
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4907119)									



Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report Result	Laboratory Control Spike (LCS) Report			
					Spike Concentration	Spike Recovery (%)	Acceptable Limits (%)	
						LCS	Low	High
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4907119) - continued								
EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	502 mg/kg	100	81.0	132
EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	268 mg/kg	102	67.2	130
EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	----	----	----	----
EP080: BTEXN (QCLot: 4902283)								
EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	1 mg/kg	86.1	68.0	107
EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	1 mg/kg	87.6	69.0	108
EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	1 mg/kg	81.4	68.0	109
EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	2 mg/kg	93.5	70.0	114
EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	1 mg/kg	96.1	74.0	116
EP080: Naphthalene	91-20-3	1	mg/kg	<1	1 mg/kg	95.2	74.0	109
EP080: BTEXN (QCLot: 4905806)								
EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	1 mg/kg	76.4	68.0	107
EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	1 mg/kg	82.9	69.0	108
EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	1 mg/kg	84.9	68.0	109
EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	2 mg/kg	89.7	70.0	114
EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	1 mg/kg	97.5	74.0	116
EP080: Naphthalene	91-20-3	1	mg/kg	<1	1 mg/kg	86.2	74.0	109

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	Spike Recovery(%)	Acceptable Limits (%)	
					MS	Low	High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4906373)							
EB2305781-003	Anonymous	EG005T: Arsenic	7440-38-2	100 mg/kg	88.8	70.0	130
		EG005T: Cadmium	7440-43-9	25 mg/kg	91.3	70.0	130
		EG005T: Chromium	7440-47-3	100 mg/kg	91.8	70.0	130
		EG005T: Copper	7440-50-8	100 mg/kg	104	70.0	130
		EG005T: Lead	7439-92-1	100 mg/kg	# 155	70.0	130
		EG005T: Nickel	7440-02-0	100 mg/kg	92.5	70.0	130
		EG005T: Zinc	7440-66-6	100 mg/kg	106	70.0	130
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4906375)							
EB2306000-016	TP6-0.1	EG005T: Arsenic	7440-38-2	100 mg/kg	74.1	70.0	130
		EG005T: Cadmium	7440-43-9	25 mg/kg	89.8	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
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4906375) - continued							
EB2306000-016	TP6-0.1	EG005T: Chromium	7440-47-3	100 mg/kg	110	70.0	130
		EG005T: Copper	7440-50-8	100 mg/kg	82.0	70.0	130
		EG005T: Lead	7439-92-1	100 mg/kg	72.2	70.0	130
		EG005T: Nickel	7440-02-0	100 mg/kg	89.1	70.0	130
		EG005T: Zinc	7440-66-6	100 mg/kg	# Not Determined	70.0	130
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4906372)							
EB2305781-003	Anonymous	EG035T: Mercury	7439-97-6	0.5 mg/kg	91.3	70.0	130
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4906376)							
EB2306000-017	TP6-0.3	EG035T: Mercury	7439-97-6	0.5 mg/kg	96.9	70.0	130
EP004: Organic Matter (QCLot: 4907067)							
EB2305513-004	Anonymous	EP004: Organic Matter	----	1.6 %	91.2	70.0	130
		EP004: Total Organic Carbon	----	0.928 %	91.4	70.0	130
EP068A: Organochlorine Pesticides (OC) (QCLot: 4907118)							
EB2306000-011	TP4-0.1	EP068: gamma-BHC	58-89-9	0.5 mg/kg	98.5	70.0	136
		EP068: Heptachlor	76-44-8	0.5 mg/kg	98.4	65.0	130
		EP068: Aldrin	309-00-2	0.5 mg/kg	101	70.0	130
		EP068: Dieldrin	60-57-1	0.5 mg/kg	100	67.0	129
		EP068: Endrin	72-20-8	0.5 mg/kg	99.6	60.0	137
		EP068: 4,4'-DDT	50-29-3	0.5 mg/kg	92.5	70.0	130
EP068B: Organophosphorus Pesticides (OP) (QCLot: 4907118)							
EB2306000-011	TP4-0.1	EP068: Diazinon	333-41-5	0.5 mg/kg	92.0	70.0	131
		EP068: Chlorpyrifos-methyl	5598-13-0	0.5 mg/kg	98.7	70.0	130
		EP068: Pirimphos-ethyl	23505-41-1	0.5 mg/kg	98.7	70.0	130
		EP068: Bromophos-ethyl	4824-78-6	0.5 mg/kg	96.4	70.0	130
		EP068: Prothiofos	34643-46-4	0.5 mg/kg	95.8	70.0	134
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4902283)							
EB2305781-003	Anonymous	EP080: C6 - C9 Fraction	----	8 mg/kg	74.9	70.0	130
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4905806)							
EB2306000-032	D2	EP080: C6 - C9 Fraction	----	8 mg/kg	92.6	70.0	130
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4907115)							
EB2305781-003	Anonymous	EP071: C10 - C14 Fraction	----	379 mg/kg	101	70.0	130
		EP071: C15 - C28 Fraction	----	407 mg/kg	96.3	70.0	130
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4907119)							
EB2306000-022	TP9-0.1	EP071: C10 - C14 Fraction	----	379 mg/kg	100	70.0	130
		EP071: C15 - C28 Fraction	----	407 mg/kg	99.9	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
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4902283)							
EB2305781-003	Anonymous	EP080: C6 - C10 Fraction	C6_C10	8 mg/kg	71.3	70.0	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4905806)							
EB2306000-032	D2	EP080: C6 - C10 Fraction	C6_C10	8 mg/kg	105	70.0	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4907115)							
EB2305781-003	Anonymous	EP071: >C10 - C16 Fraction	----	502 mg/kg	97.6	70.0	130
		EP071: >C16 - C34 Fraction	----	268 mg/kg	106	70.0	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4907119)							
EB2306000-022	TP9-0.1	EP071: >C10 - C16 Fraction	----	502 mg/kg	99.6	70.0	130
		EP071: >C16 - C34 Fraction	----	268 mg/kg	103	70.0	130
EP080: BTEXN (QCLot: 4902283)							
EB2305781-003	Anonymous	EP080: Benzene	71-43-2	2 mg/kg	75.2	70.0	130
		EP080: Toluene	108-88-3	2 mg/kg	71.7	70.0	130
EP080: BTEXN (QCLot: 4905806)							
EB2306000-032	D2	EP080: Benzene	71-43-2	2 mg/kg	75.2	70.0	130
		EP080: Toluene	108-88-3	2 mg/kg	79.6	70.0	130

QA/QC Compliance Assessment to assist with Quality Review

Work Order	: EB2306000	Page	: 1 of 10
Client	: ENVIRONMENTAL ADVISORS	Laboratory	: Environmental Division Brisbane
Contact	: ANDREW WINTERS	Telephone	: +61 7 3243 7222
Project	: 125 NSC LAKE McDONALD DVE, COOROY	Date Samples Received	: 28-Feb-2023
Site	: ----	Issue Date	: 09-Mar-2023
Sampler	: ANDREW WINTERS	No. of samples received	: 35
Order number	: ----	No. of samples analysed	: 27

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 Laboratory Control outliers occur.**
- Duplicate outliers exist - please see following pages for full details.
- Matrix Spike outliers exist - please see following pages for full details.
- For all regular sample matrices, **NO** surrogate recovery outliers occur.

Outliers : Analysis Holding Time Compliance

- Analysis Holding Time Outliers exist - please see following pages for full details.

Outliers : Frequency of Quality Control Samples

- **NO Quality Control Sample Frequency Outliers exist.**



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
Duplicate (DUP) RPDs							
EG005(ED093)T: Total Metals by ICP-AES	EB2305781--001	Anonymous	Iron	7439-89-6	121 %	0% - 20%	RPD exceeds LOR based limits
EG005(ED093)T: Total Metals by ICP-AES	EB2306000--028	TP11-0.1	Iron	7439-89-6	29.4 %	0% - 20%	RPD exceeds LOR based limits
EG005(ED093)T: Total Metals by ICP-AES	EB2306000--028	TP11-0.1	Lead	7439-92-1	23.9 %	0% - 20%	RPD exceeds LOR based limits
EG005(ED093)T: Total Metals by ICP-AES	EB2305781--017	Anonymous	Lead	7439-92-1	23.2 %	0% - 20%	RPD exceeds LOR based limits
Matrix Spike (MS) Recoveries							
EG005(ED093)T: Total Metals by ICP-AES	EB2305781--003	Anonymous	Lead	7439-92-1	155 %	70.0-130%	Recovery greater than upper data quality objective

Outliers : Analysis Holding Time Compliance

Matrix: **SOIL**

Method Container / Client Sample ID(s)	Extraction / Preparation			Analysis		
	Date extracted	Due for extraction	Days overdue	Date analysed	Due for analysis	Days overdue
EA001: pH in soil using 0.01M CaCl extract						
Soil Glass Jar - Unpreserved TP4-1.0	06-Mar-2023	03-Mar-2023	3	----	----	----

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
EA001: pH in soil using 0.01M CaCl extract							
Soil Glass Jar - Unpreserved (EA001) TP4-1.0	24-Feb-2023	06-Mar-2023	03-Mar-2023	✖	06-Mar-2023	06-Mar-2023	✔
EA002: pH 1:5 (Soils)							
Soil Glass Jar - Unpreserved (EA002) TP4-1.0	24-Feb-2023	03-Mar-2023	03-Mar-2023	✔	03-Mar-2023	03-Mar-2023	✔
EA010: Conductivity (1:5)							
Soil Glass Jar - Unpreserved (EA010) TP4-1.0	24-Feb-2023	03-Mar-2023	03-Mar-2023	✔	03-Mar-2023	31-Mar-2023	✔



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								
Soil Glass Jar - Unpreserved (EA055) TP1-0.5, TP3-0.5, TP6-0.1, TP8-0.1, TP10-0.5, D2	TP3-0.1, TP5-0.1, TP7-0.1, TP9-0.1, TP10-0.7, D2	24-Feb-2023	----	----	----	02-Mar-2023	10-Mar-2023	✓
EA055: Moisture Content (Dried @ 105-110°C)								
Soil Glass Jar - Unpreserved (EA055) TP1-0.1, TP2-0.5, TP4-1.0, TP6-0.3, TP10-0.1, TP11-0.5,	TP2-0.1, TP4-0.1, TP5-0.5, TP9-0.3, TP11-0.1, D1	24-Feb-2023	----	----	----	02-Mar-2023	10-Mar-2023	✓
EA200: AS 4964 - 2004 Identification of Asbestos in Soils								
Snap Lock Bag - ACM/Asbestos Grab Bag (EA200) TP7-0.1,	TP8-0.1	24-Feb-2023	----	----	----	02-Mar-2023	23-Aug-2023	✓
ED005: Exchange Acidity								
Soil Glass Jar - Unpreserved (ED005) TP4-1.0		24-Feb-2023	04-Mar-2023	24-Mar-2023	✓	06-Mar-2023	24-Mar-2023	✓
ED006: Exchangeable Cations on Alkaline Soils								
Soil Glass Jar - Unpreserved (ED006) TP4-1.0		24-Feb-2023	03-Mar-2023	24-Mar-2023	✓	03-Mar-2023	24-Mar-2023	✓
ED007: Exchangeable Cations								
Soil Glass Jar - Unpreserved (ED007) TP4-1.0		24-Feb-2023	04-Mar-2023	24-Mar-2023	✓	06-Mar-2023	24-Mar-2023	✓
ED008: Exchangeable Cations								
Soil Glass Jar - Unpreserved (ED008) TP4-1.0		24-Feb-2023	04-Mar-2023	24-Mar-2023	✓	06-Mar-2023	24-Mar-2023	✓



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)								
TP1-0.1, TP2-0.1, TP3-0.1, TP4-0.1, TP5-0.1, TP6-0.1, TP7-0.1, TP9-0.1, TP10-0.1, TP10-0.7, TP11-0.5, D2	TP1-0.5, TP2-0.5, TP3-0.5, TP4-1.0, TP5-0.5, TP6-0.3, TP8-0.1, TP9-0.3, TP10-0.5, TP11-0.1, D1,	24-Feb-2023	04-Mar-2023	23-Aug-2023	✓	08-Mar-2023	23-Aug-2023	✓
EG035T: Total Recoverable Mercury by FIMS								
Soil Glass Jar - Unpreserved (EG035T)								
TP1-0.1, TP2-0.1, TP3-0.1, TP4-0.1, TP5-0.5, TP6-0.3, TP8-0.1, TP9-0.3, TP10-0.5, TP11-0.1, D1,	TP1-0.5, TP2-0.5, TP3-0.5, TP5-0.1, TP6-0.1, TP7-0.1, TP9-0.1, TP10-0.1, TP10-0.7, TP11-0.5, D2	24-Feb-2023	04-Mar-2023	24-Mar-2023	✓	08-Mar-2023	24-Mar-2023	✓
EP004: Organic Matter								
Soil Glass Jar - Unpreserved (EP004)								
TP4-1.0		24-Feb-2023	07-Mar-2023	24-Mar-2023	✓	07-Mar-2023	24-Mar-2023	✓
EP068A: Organochlorine Pesticides (OC)								
Soil Glass Jar - Unpreserved (EP068)								
TP1-0.1, TP6-0.3, TP10-0.5	TP4-0.1, TP9-0.1,	24-Feb-2023	07-Mar-2023	10-Mar-2023	✓	07-Mar-2023	16-Apr-2023	✓
EP068B: Organophosphorus Pesticides (OP)								
Soil Glass Jar - Unpreserved (EP068)								
TP1-0.1, TP6-0.3, TP10-0.5	TP4-0.1, TP9-0.1,	24-Feb-2023	07-Mar-2023	10-Mar-2023	✓	07-Mar-2023	16-Apr-2023	✓



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) TP1-0.5, TP3-0.5, TP6-0.1, TP8-0.1, TP10-0.5	TP3-0.1, TP5-0.1, TP7-0.1, TP9-0.1	24-Feb-2023	01-Mar-2023	10-Mar-2023	✓	07-Mar-2023	10-Mar-2023	✓
Soil Glass Jar - Unpreserved (EP080) TP10-0.7, D2	051332,	24-Feb-2023	03-Mar-2023	10-Mar-2023	✓	06-Mar-2023	10-Mar-2023	✓
Soil Glass Jar - Unpreserved (EP071) TP1-0.5, TP3-0.5, TP6-0.1,	TP3-0.1, TP5-0.1, TP7-0.1	24-Feb-2023	04-Mar-2023	10-Mar-2023	✓	08-Mar-2023	13-Apr-2023	✓
Soil Glass Jar - Unpreserved (EP071) TP8-0.1, TP10-0.5, D2	TP9-0.1, TP10-0.7,	24-Feb-2023	07-Mar-2023	10-Mar-2023	✓	07-Mar-2023	16-Apr-2023	✓
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
Soil Glass Jar - Unpreserved (EP080) TP1-0.5, TP3-0.5, TP6-0.1, TP8-0.1, TP10-0.5	TP3-0.1, TP5-0.1, TP7-0.1, TP9-0.1	24-Feb-2023	01-Mar-2023	10-Mar-2023	✓	07-Mar-2023	10-Mar-2023	✓
Soil Glass Jar - Unpreserved (EP080) TP10-0.7, D2	051332,	24-Feb-2023	03-Mar-2023	10-Mar-2023	✓	06-Mar-2023	10-Mar-2023	✓
Soil Glass Jar - Unpreserved (EP071) TP1-0.5, TP3-0.5, TP6-0.1,	TP3-0.1, TP5-0.1, TP7-0.1	24-Feb-2023	04-Mar-2023	10-Mar-2023	✓	08-Mar-2023	13-Apr-2023	✓
Soil Glass Jar - Unpreserved (EP071) TP8-0.1, TP10-0.5, D2	TP9-0.1, TP10-0.7,	24-Feb-2023	07-Mar-2023	10-Mar-2023	✓	07-Mar-2023	16-Apr-2023	✓



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: BTEXN								
Soil Glass Jar - Unpreserved (EP080)								
TP1-0.5, TP3-0.5, TP6-0.1, TP8-0.1, TP10-0.5	TP3-0.1, TP5-0.1, TP7-0.1, TP9-0.1	24-Feb-2023	01-Mar-2023	10-Mar-2023	✓	07-Mar-2023	10-Mar-2023	✓
Soil Glass Jar - Unpreserved (EP080)								
TP10-0.7, D2	051332,	24-Feb-2023	03-Mar-2023	10-Mar-2023	✓	06-Mar-2023	10-Mar-2023	✓

Matrix: **SOLID**

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	
EA200: AS 4964 - 2004 Identification of Asbestos in bulk samples								
Snap Lock Bag - ACM/Asbestos Grab Bag (EA200)								
TP10-B1, TP11-B1	TP10-B2,	24-Feb-2023	----	----	----	02-Mar-2023	23-Aug-2023	✓



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	Method	Count		Rate (%)			Quality Control Specification
		QC	Reaular	Actual	Expected	Evaluation	
Analytical Methods							
Laboratory Duplicates (DUP)							
Electrical Conductivity (1:5)	EA010	1	2	50.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Exchange Acidity by 1M Potassium Chloride	ED005	1	4	25.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Exchangeable Cations	ED007	1	4	25.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Moisture Content	EA055	3	28	10.71	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Organic Matter	EP004	2	17	11.76	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	2	11	18.18	10.00	✓	NEPM 2013 B3 & ALS QC Standard
pH (1:5)	EA002	1	2	50.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
pH in soil using a 0.01M CaCl2 extract	EA001	2	11	18.18	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	4	33	12.12	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	4	39	10.26	10.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	4	31	12.90	10.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	4	36	11.11	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Electrical Conductivity (1:5)	EA010	1	2	50.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Exchangeable Cations	ED007	1	4	25.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Organic Matter	EP004	1	17	5.88	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	1	11	9.09	5.00	✓	NEPM 2013 B3 & ALS QC Standard
pH (1:5)	EA002	2	2	100.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
pH in soil using a 0.01M CaCl2 extract	EA001	2	11	18.18	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	2	33	6.06	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	2	39	5.13	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	2	31	6.45	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	2	36	5.56	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Electrical Conductivity (1:5)	EA010	1	2	50.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Exchange Acidity by 1M Potassium Chloride	ED005	1	4	25.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Exchangeable Cations	ED007	1	4	25.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Organic Matter	EP004	1	17	5.88	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	1	11	9.09	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	2	33	6.06	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	2	39	5.13	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	2	31	6.45	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	2	36	5.56	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Organic Matter	EP004	1	17	5.88	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	1	11	9.09	5.00	✓	NEPM 2013 B3 & ALS QC Standard

Page : 8 of 10
 Work Order : EB2306000
 Client : ENVIRONMENTAL ADVISORS
 Project : 125 NSC LAKE McDONALD DVE, COOROY



Matrix: **SOIL** Evaluation: * = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type	Method	Count		Rate (%)			Quality Control Specification
		QC	Regular	Actual	Expected	Evaluation	
<i>Analytical Methods</i>							
Matrix Spikes (MS) - Continued							
Total Mercury by FIMS	EG035T	2	33	6.06	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	2	39	5.13	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	2	31	6.45	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	2	36	5.56	5.00	✓	NEPM 2013 B3 & ALS QC Standard



Brief Method Summaries

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

Analytical Methods	Method	Matrix	Method Descriptions
pH in soil using a 0.01M CaCl ₂ extract	EA001	SOIL	In house: Referenced to Rayment and Lyons 4B3 (mod.) or 4B4 (mod.) 10 g of soil is mixed with 50 mL of 0.01M CaCl ₂ and tumbled end over end for 1 hour. pH is measured from the continuous suspension. This method is compliant with NEPM Schedule B(3).
pH (1:5)	EA002	SOIL	In house: Referenced to Rayment and Lyons 4A1 and APHA 4500H+. pH is determined on soil samples after a 1:5 soil/water leach. This method is compliant with NEPM Schedule B(3).
Electrical Conductivity (1:5)	EA010	SOIL	In house: Referenced to Rayment and Lyons 3A1 and APHA 2510. Conductivity is determined on soil samples using a 1:5 soil/water leach. This method is compliant with NEPM Schedule B(3).
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).
Asbestos Identification in Soils	EA200	SOIL	AS 4964 Method for the qualitative identification of asbestos in bulk samples Analysis by Polarised Light Microscopy including dispersion staining
Exchange Acidity by 1M Potassium Chloride	* ED005	SOIL	In house: referenced to Rayment and Lyons, method 15G1. This method is unsuitable for near neutral and alkaline soils. NATA accreditation does not cover performance of this service.
Exchangeable Cations on Alkaline Soils	* ED006	SOIL	In house: Referenced to Soil Survey Test Method C5. Soluble salts are removed from the sample prior to analysis. Cations are exchanged from the sample by contact with alcoholic ammonium chloride at pH 8.5. They are then quantitated in the final solution by ICPAES and reported as meq/100g of original soil.
Exchangeable Cations	ED007	SOIL	In house: Referenced to Rayment & Lyons Method 15A1. Cations are exchanged from the sample by contact with Ammonium Chloride. They are then quantitated in the final solution by ICPAES and reported as meq/100g of original soil. This method is compliant with NEPM Schedule B(3).
Exchangeable Cations with pre-treatment	ED008	SOIL	In house: Referenced to Rayment & Lyons Method 15A2. Soluble salts are removed from the sample prior to analysis. Cations are exchanged from the sample by contact with Ammonium Chloride. They are then quantitated in the final solution by ICPAES and reported as meq/100g of original soil. 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 (SnCl ₂) (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 SnCl ₂ 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)
Organic Matter	EP004	SOIL	In house: Referenced to AS1289.4.1.1. Dichromate oxidation method after Walkley and Black. 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).



Analytical Methods	Method	Matrix	Method Descriptions
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).
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.
Asbestos Identification in Bulk Solids	EA200	SOLID	In house: Referenced to AS 4964 Method for the qualitative identification of asbestos in bulk samples Analysis by Polarised Light Microscopy including dispersion staining
Preparation Methods	Method	Matrix	Method Descriptions
pH in soil using a 0.01M CaCl ₂ extract	EA001-PR	SOIL	In house: Referenced to Rayment and Lyons 4B1, 10 g of soil is mixed with 50 mL of 0.01M CaCl ₂ and tumbled end over end for 1 hour. pH is measured from the continuous suspension. This method is compliant with NEPM Schedule B(3).
Exchangeable Cations Preparation Method (Alkaline Soils)	ED006PR	SOIL	In house: Referenced to Rayment and Lyons method 15C1.
Exchangeable Cations Preparation Method	ED007PR	SOIL	In house: Referenced to Rayment & Lyons method 15A1. A 1M NH ₄ Cl extraction by end over end tumbling at a ratio of 1:20. There is no pretreatment for soluble salts. Extracts can be run by ICP for cations.
1:5 solid / water leach for soluble analytes	EN34	SOIL	10 g of soil is mixed with 50 mL of reagent grade water and tumbled end over end for 1 hour. Water soluble salts are leached from the soil by the continuous suspension. Samples are settled and the water filtered off for analysis.
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).
Organic Matter	EP004-PR	SOIL	In house: Referenced to AS1289.4.1.1. Dichromate oxidation method after Walkley and Black. 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, Na ₂ SO ₄ 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.





right solutions.
right partner.

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Sample Receipt Co-ordinator, Environmental
Queensland

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Stafford QLD 4053
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From: Andrew Winters <Andrew@environmentaladvisors.com.au>
Sent: Wednesday, 15 March 2023 8:33 AM
To: Samples Brisbane <Samples.Brisbane@alsglobal.com>
Subject: [EXTERNAL] - Additional analysis request - EB2306000

CAUTION: This email originated from outside of ALS. Do not click links or open attachments unless you recognize the sender and are sure content is relevant to you.

ALS

Further to recent results for EB2306000, could you please undertake the following additional analyses:

Sample TP9-0.1 (EB2306000022) – leachates - TCLP and ASLP (neutral DI water) for lead and zinc #1, 2 ASLP
Sample TP10-0.5 (EB2306000026) - Chromium speciation, and leachates - TCLP and ASLP for all 8 heavy metals (As, Cd, Cu, Cr, Ni, Zn, Pb, Hg) # 3, 4 ASLP

Regards

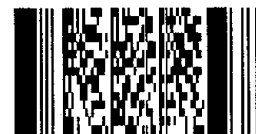


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Advisors

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Environmental Division
Brisbane
Work Order Reference
EB2307800



Telephone : + 61-7-3243 7222

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SAMPLE RECEIPT NOTIFICATION (SRN)

Work Order : EB2307800

Client	: ENVIRONMENTAL ADVISORS	Laboratory	: Environmental Division Brisbane
Contact	: ANDREW WINTERS	Contact	: Customer Services EB
Address	: PO BOX 505 BUDDINA QLD 4575	Address	: 2 Byth Street Stafford QLD Australia 4053
E-mail	: andrew@environmentaladvisors.com.au	E-mail	: ALSEnviro.Brisbane@alsglobal.com
Telephone	: ----	Telephone	: +61 7 3243 7222
Facsimile	: ----	Facsimile	: +61-7-3243 7218
Project	: 125 NSC LAKE McDONALD DVE, COOROY	Page	: 1 of 2
Order number	: ----	Quote number	: EB2017ENVADV0001 (EN/222)
C-O-C number	: ----	QC Level	: NEPM 2013 B3 & ALS QC Standard
Site	: ----		
Sampler	: ANDREW WINTERS		

Dates

Date Samples Received	: 15-Mar-2023 08:33	Issue Date	: 16-Mar-2023
Client Requested Due Date	: 23-Mar-2023	Scheduled Reporting Date	: 23-Mar-2023

Delivery Details

Mode of Delivery	: Samples On Hand	Security Seal	: Not Available
No. of coolers/boxes	: ----	Temperature	: CHILL
Receipt Detail	: REBATCH	No. of samples received / analysed	: 4 / 4

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
- **For your reference: samples (ALS)#1 & 2 are the same sample. The ASLP leach is sample (ALS)#2. samples (ALS)#3 & 4 are the same sample. The ASLP leach is sample (ALS)#4.**
- Discounted Package Prices apply only when specific ALS Group Codes ('W', 'S', 'NT' suites) are referenced on COCs.
- This is a rebatch of EB2306000
- Please direct any turn around / technical queries to the laboratory contact designated above.
- Sample Disposal - Aqueous (3 weeks), Solid (2 months ± 1 week) from receipt of samples.
- Analysis will be conducted by ALS Environmental, Brisbane, NATA accreditation no. 825, Site No. 818 (Micro site no. 18958).
- **Breaches in recommended extraction / analysis holding times (if any) are displayed overleaf in the Proactive Holding Time Report table.**
- 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.
- **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.**



Sample Container(s)/Preservation Non-Compliances

All comparisons are made against pretreatment/preservation AS, APHA, USEPA standards.

- **No sample container / preservation non-compliance exists.**

Any sample identifications that cannot be displayed entirely in the analysis summary table will be listed below.

EB2307800-002 : [24-Feb-2023] : TP9-0.1 - ASLP Leachate
EB2307800-004 : [24-Feb-2023] : TP10-0.5 - ASLP Leachate

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	SOIL - EA055-103 Moisture Content	SOIL - EG005C Leachable Metals by ICPAES	SOIL - EG035C Leachable Mercury	SOIL - EG048G Total Hexavalent Chromium (Alkaline digestion)	SOIL - EG049G-Alk Trivalent Chromium by Discrete Analyser	SOIL - EN60a-G ASLP Leachate Procedure - Glass Leaching	SOIL - TCLP TCLP Leach
EB2307800-001	24-Feb-2023 00:00	TP9-0.1		✓					✓
EB2307800-002	24-Feb-2023 00:00	TP9-0.1 ASLP Leacha...		✓				✓	
EB2307800-003	24-Feb-2023 00:00	TP10-0.5	✓	✓	✓	✓	✓		✓
EB2307800-004	24-Feb-2023 00:00	TP10-0.5 ASLP Leach...		✓	✓			✓	

Proactive Holding Time Report

The following table summarises breaches of recommended holding times that have occurred prior to samples/instructions being received at the laboratory.

Matrix: **SOIL**

Evaluation: ✘ = Holding time breach ; ✔ = Within holding time.

Method	Client Sample ID(s)	Container	Due for extraction	Due for analysis	Samples Received		Instructions Received	
					Date	Evaluation	Date	Evaluation
EA055: Moisture Content								
	TP10-0.5	Soil Glass Jar - Unpreserved	----	10-Mar-2023	15-Mar-2023	✘	----	----

Requested Deliverables

ALL INVOICES

- A4 - AU Tax Invoice (INV) Email admin@environmentaladvisors.com.au
- Chain of Custody (CoC) (COC) Email admin@environmentaladvisors.com.au

ANDREW WINTERS

- *AU Certificate of Analysis - NATA (COA) Email andrew@environmentaladvisors.com.au
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI) Email andrew@environmentaladvisors.com.au
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC) Email andrew@environmentaladvisors.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN) Email andrew@environmentaladvisors.com.au
- A4 - AU Tax Invoice (INV) Email andrew@environmentaladvisors.com.au
- Chain of Custody (CoC) (COC) Email andrew@environmentaladvisors.com.au
- EDI Format - XTab (XTAB) Email andrew@environmentaladvisors.com.au

CERTIFICATE OF ANALYSIS

Work Order	: EB2307800	Page	: 1 of 5
Client	: ENVIRONMENTAL ADVISORS	Laboratory	: Environmental Division Brisbane
Contact	: ANDREW WINTERS	Contact	: Customer Services EB
Address	: PO BOX 505 BUDDINA QLD 4575	Address	: 2 Byth Street Stafford QLD Australia 4053
Telephone	: ----	Telephone	: +61 7 3243 7222
Project	: 125 NSC LAKE McDONALD DVE, COOROY	Date Samples Received	: 15-Mar-2023 08:33
Order number	: ----	Date Analysis Commenced	: 16-Mar-2023
C-O-C number	: ----	Issue Date	: 23-Mar-2023 10:37
Sampler	: ANDREW WINTERS		
Site	: ----		
Quote number	: EN/222		
No. of samples received	: 4		
No. of samples analysed	: 4		



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

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.

<i>Signatories</i>	<i>Position</i>	<i>Accreditation Category</i>
Kim McCabe	Senior Inorganic Chemist	Brisbane Inorganics, Stafford, QLD
Vincent Muller		Brisbane Inorganics, Stafford, QLD



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.

- EG048G (Hexavalent Chromium by Alkaline Digestion): Sample EB2307800_003 (TP10-0.5) was diluted due to matrix interference. LOR adjusted accordingly.
- EG048G (Hexavalent Chromium by Alkaline Digestion): Sample EB2307718_001 shows poor matrix spike recovery due to matrix interferences.



Analytical Results

Sub-Matrix: **ASLP LEACHATE**
 (Matrix: **WATER**)

Sample ID

				TP9-0.1	TP10-0.5	----	----	----
				ASLP Leachate	ASLP Leachate			
				24-Feb-2023 00:00	24-Feb-2023 00:00	----	----	----
Sampling date / time								
Compound	CAS Number	LOR	Unit	EB2307800-002	EB2307800-004	-----	-----	-----
				Result	Result	---	---	---
EG005(ED093)C: Leachable Metals by ICPAES								
Arsenic	7440-38-2	0.1	mg/L	----	<0.1	----	----	----
Cadmium	7440-43-9	0.05	mg/L	----	<0.05	----	----	----
Chromium	7440-47-3	0.1	mg/L	----	<0.1	----	----	----
Copper	7440-50-8	0.1	mg/L	----	0.2	----	----	----
Lead	7439-92-1	0.1	mg/L	<0.1	0.2	----	----	----
Nickel	7440-02-0	0.1	mg/L	----	<0.1	----	----	----
Zinc	7440-66-6	0.1	mg/L	0.4	0.8	----	----	----
EG035C: Leachable Mercury by FIMS								
Mercury	7439-97-6	0.0010	mg/L	----	0.0096	----	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP9-0.1	TP9-0.1 ASLP Leachate	TP10-0.5	TP10-0.5 ASLP Leachate	----
Sampling date / time				24-Feb-2023 00:00	24-Feb-2023 00:00	24-Feb-2023 00:00	24-Feb-2023 00:00	----	
Compound	CAS Number	LOR	Unit	EB2307800-001	EB2307800-002	EB2307800-003	EB2307800-004	-----	
				Result	Result	Result	Result	----	
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	0.1	%	----	----	14.8	----	----	
EG005(ED093)T: Total Metals by ICP-AES									
Chromium	7440-47-3	2	mg/kg	----	----	40	----	----	
EG048: Hexavalent Chromium (Alkaline Digest)									
Hexavalent Chromium	18540-29-9	0.5	mg/kg	----	----	<2.0	----	----	
EG049: Trivalent Chromium									
Trivalent Chromium	16065-83-1	2	mg/kg	----	----	40	----	----	
EN33: TCLP Leach - Inorganics/Non-Volatile Organics (Glass Vessel)									
Initial pH	----	0.1	pH Unit	5.3	----	6.2	----	----	
After HCl pH	----	0.1	pH Unit	1.4	----	1.3	----	----	
Extraction Fluid Number	----	1	-	1	----	1	----	----	
Final pH	----	0.1	pH Unit	4.9	----	5.0	----	----	
EN60: ASLP Leaching Procedure - Inorganics/Non-Volatile Organics (Glass Vessel)									
Final pH	----	0.1	pH Unit	----	5.9	----	6.3	----	



Analytical Results

Sub-Matrix: **TCLP LEACHATE**
 (Matrix: **WATER**)

				Sample ID	TP9-0.1	TP10-0.5	----	----	----
				Sampling date / time	24-Feb-2023 00:00	24-Feb-2023 00:00	----	----	----
Compound	CAS Number	LOR	Unit	EB2307800-001	EB2307800-003	-----	-----	-----	
				Result	Result	----	----	----	
EG005(ED093)C: Leachable Metals by ICPAES									
Arsenic	7440-38-2	0.1	mg/L	----	<0.1	----	----	----	
Cadmium	7440-43-9	0.05	mg/L	----	0.12	----	----	----	
Chromium	7440-47-3	0.1	mg/L	----	<0.1	----	----	----	
Copper	7440-50-8	0.1	mg/L	----	22.9	----	----	----	
Lead	7439-92-1	0.1	mg/L	0.6	10.4	----	----	----	
Nickel	7440-02-0	0.1	mg/L	----	0.2	----	----	----	
Zinc	7440-66-6	0.1	mg/L	4.4	33.6	----	----	----	
EG035C: Leachable Mercury by FIMS									
Mercury	7439-97-6	0.0010	mg/L	----	<0.0010	----	----	----	

QUALITY CONTROL REPORT

Work Order	: EB2307800	Page	: 1 of 4
Client	: ENVIRONMENTAL ADVISORS	Laboratory	: Environmental Division Brisbane
Contact	: ANDREW WINTERS	Contact	: Customer Services EB
Address	: PO BOX 505 BUDDINA QLD 4575	Address	: 2 Byth Street Stafford QLD Australia 4053
Telephone	: ----	Telephone	: +61 7 3243 7222
Project	: 125 NSC LAKE McDONALD DVE, COOROY	Date Samples Received	: 15-Mar-2023
Order number	: ----	Date Analysis Commenced	: 16-Mar-2023
C-O-C number	: ----	Issue Date	: 23-Mar-2023
Sampler	: ANDREW WINTERS		
Site	: ----		
Quote number	: EN/222		
No. of samples received	: 4		
No. of samples analysed	: 4		



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.

<i>Signatories</i>	<i>Position</i>	<i>Accreditation Category</i>
Kim McCabe	Senior Inorganic Chemist	Brisbane Inorganics, Stafford, QLD
Vincent Muller		Brisbane Inorganics, Stafford, QLD



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

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: 4934343)									
EB2307649-001	Anonymous	EG005T: Chromium	7440-47-3	2	mg/kg	19	9	68.4	No Limit
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 4934346)									
EB2307649-001	Anonymous	EA055: Moisture Content	----	0.1	%	8.4	8.6	2.6	0% - 20%
EG048: Hexavalent Chromium (Alkaline Digest) (QC Lot: 4934344)									
EB2307718-001	Anonymous	EG048G: Hexavalent Chromium	18540-29-9	0.5	mg/kg	<39.1	<39.7	1.6	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 (%)
EG005(ED093)C: Leachable Metals by ICPAES (QC Lot: 4943154)									
EB2307800-001	TP9-0.1	EG005C: Cadmium	7440-43-9	0.05	mg/L	<0.05	<0.05	0.0	No Limit
		EG005C: Arsenic	7440-38-2	0.1	mg/L	<0.1	<0.1	0.0	No Limit
		EG005C: Chromium	7440-47-3	0.1	mg/L	<0.1	<0.1	0.0	No Limit
		EG005C: Copper	7440-50-8	0.1	mg/L	<0.1	<0.1	0.0	No Limit
		EG005C: Lead	7439-92-1	0.1	mg/L	0.6	0.6	0.0	No Limit
		EG005C: Nickel	7440-02-0	0.1	mg/L	<0.1	<0.1	0.0	No Limit
		EG005C: Zinc	7440-66-6	0.1	mg/L	4.4	4.4	0.0	0% - 20%
EG035C: Leachable Mercury by FIMS (QC Lot: 4941920)									
EB2307421-001	Anonymous	EG035C: Mercury	7439-97-6	0.0001	mg/L	<0.0010	<0.0010	0.0	No Limit
EB2308080-002	Anonymous	EG035C: Mercury	7439-97-6	0.0001	mg/L	0.0036	0.0037	3.3	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			
					Result	Spike Concentration	Spike Recovery (%) LCS	Acceptable Limits (%)
Method: Compound	CAS Number	LOR	Unit	Low				High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4934343)								
EG005T: Chromium	7440-47-3	2	mg/kg	<2	15 mg/kg	107	83.0	125
EN33: TCLP Leach - Inorganics/Non-Volatile Organics (Glass Vessel) (QCLot: 4932852)								
EN33a-G: Final pH	----	0.1	pH Unit	5.0	----	----	----	----
EG048: Hexavalent Chromium (Alkaline Digest) (QCLot: 4934344)								
EG048G: Hexavalent Chromium	18540-29-9	0.5	mg/kg	<0.5 <0.5	20 mg/kg 13.93 mg/kg	109 123	80.0 70.0	120 130

Sub-Matrix: **WATER**

				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Result	Spike Concentration	Spike Recovery (%) LCS	Acceptable Limits (%)
Method: Compound	CAS Number	LOR	Unit	Low				High
EG005(ED093)C: Leachable Metals by ICPAES (QCLot: 4943154)								
EG005C: Arsenic	7440-38-2	0.1	mg/L	<0.1	0.1 mg/L	115	89.0	123
EG005C: Cadmium	7440-43-9	0.05	mg/L	<0.05	0.1 mg/L	100.0	88.0	120
EG005C: Chromium	7440-47-3	0.1	mg/L	<0.1	0.1 mg/L	102	86.0	115
EG005C: Copper	7440-50-8	0.1	mg/L	<0.1	0.1 mg/L	102	87.0	117
EG005C: Lead	7439-92-1	0.1	mg/L	<0.1	0.1 mg/L	85.7	85.0	117
EG005C: Nickel	7440-02-0	0.1	mg/L	<0.1	0.1 mg/L	103	90.0	116
EG005C: Zinc	7440-66-6	0.1	mg/L	<0.1	0.1 mg/L	98.6	87.0	122
EG035C: Leachable Mercury by FIMS (QCLot: 4941920)								
EG035C: Mercury	7439-97-6	0.0001	mg/L	<0.0001	0.01 mg/L	89.9	84.0	117

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**

				Matrix Spike (MS) Report			
				Spike Concentration	Spike Recovery (%) MS	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number			Low	High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4934343)							
EB2307649-002	Anonymous	EG005T: Chromium	7440-47-3	100 mg/kg	89.9	70.0	130
EG048: Hexavalent Chromium (Alkaline Digest) (QCLot: 4934344)							
EB2307718-001	Anonymous	EG048G: Hexavalent Chromium	18540-29-9	200 mg/kg	# 24.6	70.0	130
EB2307718-001	Anonymous	EG048G: Hexavalent Chromium	18540-29-9	139.3 mg/kg	# 2.9	70.0	130

Sub-Matrix: **WATER**

Matrix Spike (MS) Report



Sub-Matrix: WATER

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EG005(ED093)C: Leachable Metals by ICPAES (QCLot: 4943154)							
EB2307800-002	TP9-0.1 ASLP Leachate	EG005C: Arsenic	7440-38-2	1 mg/L	104	70.0	130
		EG005C: Cadmium	7440-43-9	0.25 mg/L	104	70.0	130
		EG005C: Chromium	7440-47-3	1 mg/L	104	70.0	130
		EG005C: Copper	7440-50-8	1 mg/L	102	70.0	130
		EG005C: Lead	7439-92-1	1 mg/L	107	70.0	130
		EG005C: Nickel	7440-02-0	1 mg/L	105	70.0	130
		EG005C: Zinc	7440-66-6	1 mg/L	104	70.0	130
EG035C: Leachable Mercury by FIMS (QCLot: 4941920)							
EB2307421-002	Anonymous	EG035C: Mercury	7439-97-6	0.01 mg/L	101	70.0	130

QA/QC Compliance Assessment to assist with Quality Review

Work Order	: EB2307800	Page	: 1 of 6
Client	: ENVIRONMENTAL ADVISORS	Laboratory	: Environmental Division Brisbane
Contact	: ANDREW WINTERS	Telephone	: +61 7 3243 7222
Project	: 125 NSC LAKE McDONALD DVE, COOROY	Date Samples Received	: 15-Mar-2023
Site	: ----	Issue Date	: 23-Mar-2023
Sampler	: ANDREW WINTERS	No. of samples received	: 4
Order number	: ----	No. of samples analysed	: 4

This report is automatically generated by the ALS LIMS through interpretation of the ALS Quality Control Report and several Quality Assurance parameters measured by ALS. This automated reporting highlights any non-conformances, facilitates faster and more accurate data validation and is designed to assist internal expert and external Auditor review. Many components of this report contribute to the overall DQO assessment and reporting for guideline compliance.

Brief method summaries and references are also provided to assist in traceability.

Summary of Outliers

Outliers : Quality Control Samples

This report highlights outliers flagged in the Quality Control (QC) Report.

- **NO Method Blank value outliers occur.**
- **NO Duplicate outliers occur.**
- **NO Laboratory Control outliers occur.**
- **Matrix Spike outliers exist - please see following pages for full details.**
- **For all regular sample matrices, NO surrogate recovery outliers occur.**

Outliers : Analysis Holding Time Compliance

- **Analysis Holding Time Outliers exist - please see following pages for full details.**

Outliers : Frequency of Quality Control Samples

- **NO Quality Control Sample Frequency Outliers exist.**



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
Matrix Spike (MS) Recoveries							
EG048: Hexavalent Chromium (Alkaline Digest)	EB2307718--001	Anonymous	Hexavalent Chromium	18540-29-9	24.6 %	70.0-130%	Recovery less than lower data quality objective
EG048: Hexavalent Chromium (Alkaline Digest)	EB2307718--001	Anonymous	Hexavalent Chromium	18540-29-9	2.9 %	70.0-130%	Recovery less than lower data quality objective

Outliers : Analysis Holding Time Compliance

Matrix: **SOIL**

Method Container / Client Sample ID(s)	Extraction / Preparation			Analysis		
	Date extracted	Due for extraction	Days overdue	Date analysed	Due for analysis	Days overdue
EA055: Moisture Content (Dried @ 105-110°C)						
Soil Glass Jar - Unpreserved TP10-0.5	----	----	----	16-Mar-2023	10-Mar-2023	6

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) TP10-0.5	24-Feb-2023	----	----	----	16-Mar-2023	10-Mar-2023	*
EG005(ED093)T: Total Metals by ICP-AES							
Soil Glass Jar - Unpreserved (EG005T) TP10-0.5	24-Feb-2023	17-Mar-2023	23-Aug-2023	✓	22-Mar-2023	23-Aug-2023	✓
EG048: Hexavalent Chromium (Alkaline Digest)							
Soil Glass Jar - Unpreserved (EG048G) TP10-0.5	24-Feb-2023	17-Mar-2023	24-Mar-2023	✓	22-Mar-2023	24-Mar-2023	✓
EN33: TCLP Leach - Inorganics/Non-Volatile Organics (Glass Vessel)							
Non-Volatile Leach: 180 day HT (e.g. PFAS, metals ex.Hg) (EN33a-G) TP9-0.1	24-Feb-2023	16-Mar-2023	23-Aug-2023	✓	----	----	----
Non-Volatile Leach: 28 day HT(e.g. Hg, CrVI) (EN33a-G) TP10-0.5	24-Feb-2023	16-Mar-2023	24-Mar-2023	✓	----	----	----



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
EN60: ASLP Leaching Procedure - Inorganics/Non-Volatile Organics (Glass Vessel)							
Non-Volatile Leach: 180 day HT (e.g. PFAS, metals ex.Hg) (EN60a-G) TP9-0.1 - ASLP Leachate	24-Feb-2023	16-Mar-2023	23-Aug-2023	✓	----	----	----
Non-Volatile Leach: 28 day HT(e.g. Hg, CrVI) (EN60a-G) TP10-0.5 - ASLP Leachate	24-Feb-2023	16-Mar-2023	24-Mar-2023	✓	----	----	----

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
EG005(ED093)C: Leachable Metals by ICPAES							
Clear Plastic Bottle - Nitric Acid; Unfiltered (EG005C) TP9-0.1, TP10-0.5, TP9-0.1 - ASLP Leachate, TP10-0.5 - ASLP Leachate	16-Mar-2023	22-Mar-2023	12-Sep-2023	✓	22-Mar-2023	12-Sep-2023	✓
EG035C: Leachable Mercury by FIMS							
Clear Plastic Bottle - Nitric Acid; Unfiltered (EG035C) TP10-0.5, TP10-0.5 - ASLP Leachate	16-Mar-2023	----	----	----	21-Mar-2023	13-Apr-2023	✓



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	Method	Count		Rate (%)			Quality Control Specification
		QC	Regular	Actual	Expected	Evaluation	
Analytical Methods							
Laboratory Duplicates (DUP)							
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	1	4	25.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Moisture Content	EA055	1	5	20.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	4	25.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	2	4	50.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	4	25.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	1	4	25.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TCLP for Non & Semivolatile Analytes - Glass Leaching Vessel	EN33a-G	1	2	50.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	4	25.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	2	4	50.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	4	25.00	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	Method	Count		Rate (%)			Quality Control Specification
		QC	Regular	Actual	Expected	Evaluation	
Analytical Methods							
Laboratory Duplicates (DUP)							
Leachable Mercury by FIMS	EG035C	2	10	20.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Leachable Metals by ICPAES	EG005C	1	8	12.50	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Leachable Mercury by FIMS	EG035C	1	10	10.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Leachable Metals by ICPAES	EG005C	1	8	12.50	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Leachable Mercury by FIMS	EG035C	1	10	10.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Leachable Metals by ICPAES	EG005C	1	8	12.50	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Leachable Mercury by FIMS	EG035C	1	10	10.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Leachable Metals by ICPAES	EG005C	1	8	12.50	5.00	✓	NEPM 2013 B3 & ALS QC Standard



Brief Method Summaries

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

Analytical Methods	Method	Matrix	Method Descriptions
Moisture Content	EA055	SOIL	In house: A gravimetric procedure based on weight loss over a 12 hour drying period at 105-110 degrees C. This method is compliant with NEPM Schedule B(3).
Leachable Metals by ICPAES	EG005C	SOIL	In house: referenced to APHA 3120; USEPA SW 846 - 6010: The ICPAES technique ionises leachate sample atoms emitting a characteristic spectrum. This spectrum is then compared against matrix matched standards for quantification. 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)
Leachable Mercury by FIMS	EG035C	SOIL	In house: Referenced to APHA 3112 Hg - B (Flow-injection (SnCl ₂)(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 TCLP solution. The ionic mercury is reduced online to atomic mercury vapour by SnCl ₂ 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).
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	SOIL	In house: Referenced to USEPA SW846, Method 3060. Hexavalent chromium is extracted by alkaline digestion. The digest is determined by photometrically by automatic discrete analyser, following pH adjustment. The instrument uses colour development using dephenylcarbazide. Each run of samples is measured against a five-point calibration curve. This method is compliant with NEPM Schedule B(3)
Trivalent Chromium by Alkaline Digestion and DA Finish	EG049G-AIk	SOIL	In house: Referenced to APHA 3500 Cr-A&B & 3120 and USEPA USEPA SW846, Method 3060. The difference between Total and Hexavalent Chromium. The total Chromium is determined by ICPAES and the Hexavalent chromium is extracted by alkaline digestion and the digest is determined by photometrically by automatic discrete analyser. The instrument uses colour development using dephenylcarbazide. This method is compliant with NEPM Schedule B(3)

Preparation Methods	Method	Matrix	Method Descriptions
Alkaline digestion for Hexavalent Chromium	EG048PR	SOIL	In house: Referenced to USEPA SW846, Method 3060A.
Digestion for Total Recoverable Metals in TCLP Leachate	EN25C	SOIL	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)
TCLP for Non & Semivolatile Analytes - Glass Leaching Vessel	EN33a-G	SOIL	In house QWI-EN/33 referenced to USEPA SW846-1311: The TCLP procedure is designed to determine the mobility of both organic and inorganic analytes present in wastes. The standard TCLP leach is for non-volatile and Semivolatile test parameters.
ASLP for Non & Semivolatile Analytes - Glass Leaching Vessel	EN60a-G	SOIL	In house QWI-EN/60 referenced to AS4439.3 Preparation of Leachates

Page : 6 of 6
Work Order : EB2307800
Client : ENVIRONMENTAL ADVISORS
Project : 125 NSC LAKE McDONALD DVE, COOROY



<i>Preparation Methods</i>	<i>Method</i>	<i>Matrix</i>	<i>Method Descriptions</i>
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).





CHAIN OF CUSTODY

ALS Laboratory, please tick →

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Ph 02 8546 2000 Fax 02 8546 2001
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Ph 03 9589 2000 Fax 03 9589 2001
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Ph 09 309 9000 Fax 09 309 9001

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Ph 06 376 7222 Fax 06 376 7223
Christchurch 141-150 Beckett St NZ 8013
Ph 03 378 7000 Fax 03 378 7001
Dunedin 100 Princes St NZ 9100
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Port of Spain 100 Victoria St TRIN 1500
Ph 06 559 2000 Fax 06 559 2001
London 27 Villiers St LON WC0E 7BP
Ph 020 7316 2100 Fax 020 7316 2101

FOR LABORATORY USE ONLY (Circle)
Custody Seal Intact? Yes No N/A
Freeze / frozen for later present upon receipt? Yes No N/A
Random Sample Temperature on Receipt? Yes No N/A
Other Comment: C

SPLIT BATCH
Test: **EB 2406372**
Assoc. Batch No. **2406372**

CLIENT: Environmental Advisors Pty Ltd
OFFICE: Sunshine Coast
PROJECT: 125 NSC LAKE McDONALD DYE COORROY
ORDER NUMBER:
PROJECT MANAGER: Andrew Winters
SAMPLER: Andrew Winters
COC emailed to ALS? Yes
EMAIL Reports to (will default to PM if no other addresses are listed): andrew@environmentaladvisors.com.au
Email Invoice to (will default to PM if no other addresses are listed): admin@environmentaladvisors.com.au

TURNAROUND REQUIREMENTS: Standard TAT (List due date): 4 March 24
 Non Standard or urgent TAT (List due date):
 e.g. Ultra Trace Organics

ALS QUOTE NO.: EB23ENVADV0001 V2
CONTACT PH: 0409 662 747
SAMPLER MOBILE: 0409 662 747
EDD FORMAT: Default
RELINQUISHED BY: Andrew Winters
DATE/TIME: 24/2/24

RECEIVED BY: *[Signature]*
DATE/TIME:

RELINQUISHED BY:
DATE/TIME:

RECEIVED BY:
DATE/TIME:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

LAB ID	SAMPLE ID	DATE / TIME	MATRIX	CONTAINER INFORMATION	ANALYSIS REQUIRED INCLUDING SUITES (NB: Suite Codes must be listed to attract suite price) <small>Where Metals are required, specify 'Total' (unfrozen bottle required) or 'Dissolved' (acid filtered bottle required)</small>	Additional Information							
1	TP12-0.1	19/02/2024	Soil	Jar + PFAS + asbestos bag	S-02 (8 Metals)								
1	TP12-0.5	19/02/2024	Soil	Jar	S-16 (TRH/BTEXN/PAH OC/OP/PCB/8 metals)								
1	TP12-1.0	19/02/2024	Soil	Jar	EA200G Asbestos (presence/absence in soil/bulk sample)								
1	TP12-2.0	19/02/2024	Soil	Jar	S-05 (TRH/BTEXN/8 metals)								
1	TP13-0.1	19/02/2024	Soil	Jar	EP231 (PFAS Short Suite)								
1	TP13-0.5	19/02/2024	Soil	Jar	EP075 (SVOC)								
1	TP13-1.0	19/02/2024	Soil	Jar	S-18 TRH(c6-c10)/BTEXN								
1	TP14-0.1	19/02/2024	Soil	Jar + PFAS + asbestos bag									
1	TP14-0.5	19/02/2024	Soil	Jar									
1	TP14-1.0	19/02/2024	Soil	Jar									
1	TP14-2.0	19/02/2024	Soil	Jar + PFAS									
1	TP14-3.3	19/02/2024	Soil	Jar									
1	TP15-0.1	19/02/2024	Soil	Jar + PFAS + asbestos bag									
TOTAL					20	3	4	3	5	4	2	0	0

Material Container Codes: F = Unpreserved Plastic; N = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide Preserved Plastic; AG = Amber Glass Unpreserved; AP = Air-tight Unpreserved Plastic; V = VOA Vol HCl Preserved; VB = VOA Vol Sodium Bisulfate Preserved; AV = Air-tight Unpreserved Vial; SG = Sulfuric Preserved Amber Glass; H = HCl Preserved Plastic; HS = HCl Preserved Speciation Bottle; SP = Sulfuric Preserved Plastic; F = Formaldehyde Preserved Glass; Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottle; ST = Sterile Bottle; ASS = Plastic Bag for Acid Soluble Solids; B = Unpreserved Bag.

Environmental Division
 Brisbane
 Work Order Reference
EB2406372
 Telephone : + 61-7-3243 7222





CHAIN OF CUSTODY

ALS Laboratory please tick →

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Ph: 02 9638 6000 Fax: 02 9638 6001

Environmental Advisors Pty Ltd

Office: Sunshine Coast

Project: 125 NSC LAKE McDONALD DVE, COORROY

Order Number:

Project Manager: Andrew Winters

Sampler: Andrew Winters

COC emailed to ALS? Yes

Email Reports to (will default to PM if no other addresses are listed): andrew@environmentaladvisors.com.au

Email Invoice to (will default to PM if no other addresses are listed): admin@environmentaladvisors.com.au

Comments/Special Handling/Storage or Disposal:

TURNOVER REQUIREMENTS: Standard TAT (last due date): 4 March 24
 Non Standard or urgent TAT (last due date):

ALS QUOTE NO.: EB33ENVADV001 V2

Contact PH: 0409 662 747

Sampler Mobile: 0409 662 747

EDD Format: Default

Relinquished By: Andrew Winters

Relinquished Date/Time: 24/2/24

Received By: [Signature]

Received Date/Time:

Relinquished By:

Relinquished Date/Time:

Received By:

Received Date/Time:

Received By:

Received Date/Time:

Received By:

Received Date/Time:

Received By:

Received Date/Time:

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Received Date/Time:

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Received Date/Time:

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Received Date/Time:

Received By:

Received Date/Time:

Received By:

Received Date/Time:

Received By:

Received Date/Time:

FOR LABORATORY USE ONLY (Circle)

Custody, Seal Intact? Yes No N/A

Freeze / frozen less than 1 year? Yes No N/A

Random Sample Temperature at Receipt? C

Other comment:

Relinquished By:

Relinquished Date/Time:

Received By:

Received Date/Time:

Received By:

Received Date/Time:

Received By:

Received Date/Time:

Received By:

Received Date/Time:

Received By:

Received Date/Time:

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Received Date/Time:

SAMPLE DETAILS

CONTAINER INFORMATION

ANALYSIS REQUIRED INCLUDING SUITES (NB: Suite Codes must be listed to attract suite price)

Additional Information

LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL CONTAINERS	S-02 (8 Metals)	S-16 (TRH/BTEXN/PAH OC/OP/PCB/8 metals)	EA200G Asbestos (presence/absence in soil/bulk sample)	S-05 (TRH/BTEXN/8 metals)	EP231 (PFAS Short Suite)	EP075 (SVOC)	S-18 TRH(c6-c10)/BTEXN	Comments on likely contaminant levels, dilutions, or samples requiring specific OC analysis etc.
14	TP15-0.5	19/02/2024	Soil	Jar + PIRAS = asbestos bag	3			X	X	X	X		
15	TP15-1.0	19/02/2024	Soil	Jar	1	X							
16	TP15-2.0	19/02/2024	Soil	Jar	1				X				
17	TP16-0.1	19/02/2024	Soil	Jar + PIRAS	2	X				X			
18	TP16-0.5	19/02/2024	Soil	Jar	1	X							
19	TP16-1.0	19/02/2024	Soil	Jar	1	X							
20	TP17-0.1	19/02/2024	Soil	Jar	1	X							
21	TP17-0.5	19/02/2024	Soil	Jar	1				X				
22	TP17-1.5	19/02/2024	Soil	Jar	1								
23	TP18-0.1	19/02/2024	Soil	Jar	1	X							
24	TP18-0.5	19/02/2024	Soil	Jar + PIRAS	2					X	X		
25	TP18-1.0	19/02/2024	Soil	Jar	1	X							
26	TP19-0.1	19/02/2024	Soil	Jar	1	X							
					TOTAL	17	8	0	1	3	3	2	0

Winter Containment Codes: P = Unpreserved Plastic, N = Nitric Preserved Plastic, ORC = Nitric Preserved ORC, SH = Sodium Hydroxide/Cd Preserved, S = Sodium Hydroxide Preserved Plastic, AG = Amber Glass Unpreserved, AP = Airtight Unpreserved Plastic, V = VOA Vial HCl Preserved, VB = VOA Vial Sodium Bisulfate Preserved, VS = VOA Vial Sulfuric Preserved, AV = Airtight Unpreserved Vial SG = Sulfuric Preserved Amber Glass, H = HCl Preserved Plastic, HS = HCl Preserved Specimen bottle, SP = Sulfuric Preserved Plastic, F = Formaldehyde Preserved Glass, E = Zinc Acetate Preserved Bottle, EE = EDTA Preserved Bottles, ST = Sterile Bottle, ASS = Plastic Bag for Acid Sulfidate Soils, B = Unpreserved Bag



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© London 27 Vauxhall, London UK E8 3JH
Ph: 44 20 8500 0100 Fax: 44 20 8500 0100

CLIENT: Environmental Advisors Pty Ltd

OFFICE: Sunshine Coast

PROJECT: 125 NSC LAKE McDONALD DYE COOROY

ORDER NUMBER: PROJECT MANAGER: Andrew Winters

SAMPLER: Andrew Winters

COC emailed to ALS? Yes

Email Reports to (will default to PM if no other addresses are listed): admin@environmentaladvisors.com.au

Email Invoice to (will default to PM if no other addresses are listed): admin@environmentaladvisors.com.au

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

TURNOVER REQUIREMENTS: Standard TAT (List due date): 4 March 24

(Standard TAT may be longer for some tests)

ALS QUOTE NO.: EB23ENVADV001 V2

CONTRACT PH: 0409 662 747

SAMPLER MOBILE: 0409 662 747

EDD FORMAT: Default

RELINQUISHED BY: Andrew Winters

DATE/TIME: 24/2/24

RECEIVED BY:

DATE/TIME:

COC SEQUENCE NUMBER

3 of 15

RECEIVED BY:

DATE/TIME:

FOR LABORATORY USE ONLY (Circle)

Question/Seal Intact? Yes No N/A

Freezer/Refrigerator? Yes No N/A

Random Sample Temperature or Receipt? Yes No N/A

Other comment: C

LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL CONTAINERS	S-02 (8 Metals)	S-16 (TRH/BTEXN/PAH OC/OP/PCB/8 metals)	EA200G Asbestos (presence/ absence in soil/bulk sample)	S-05 (TRH/BTEXN/8 metals)	EP231 (PFAS Short Suite)	EP075 (SVOC)	S-18 TRH(c6-c10)/BTEXN	Additional Information
27	TP19-0.5	19/02/2024	Soil	Jar + PFAS	2								
28	TP19-1.0	19/02/2024	Soil	Jar	1	X					X		
29	TP19-1.5	19/02/2024	Soil	Jar + PFAS	2								
30	TP19-2.2	19/02/2024	Soil	Jar	1	X							
31	TP20-0.1	19/02/2024	Soil	Jar	1					X			
32	TP20-0.5	19/02/2024	Soil	Jar	1	X							
33	TP20-1.0	19/02/2024	Soil	Jar	1						X		
34	TP20-2.8	19/02/2024	Soil	Jar	1				X				
35	TP21-0.1	19/02/2024	Soil	Jar	1			X					
36	TP21-0.5	19/02/2024	Soil	Jar	1				X				
37	TP21-1.0	19/02/2024	Soil	Jar	1								
38	TP22-0.1	19/02/2024	Soil	Jar	1	X							
39	TP22-0.5	19/02/2024	Soil	Jar	1	X							

Matrix Codes: P = Unpreserved Plastic, N = Nitric Preserved Plastic, DRG = Nitric Preserved DRG, SH = Sodium Hydroxide Preserved, S = Sodium Hydroxide Preserved, AG = Amber Glass Unpreserved, AR = Airfreight Unpreserved Plastic, F = Formaldehyde Preserved Glass, V = VOA Vial HCl Preserved, VA = VOA Vial Sodium Sulphate Preserved, VS = VOA Vial Sulfuric Preserved, AV = Airfreight Unpreserved Vial SG = Sulfuric Preserved Amber Glass, H = HCl preserved Plastic, HS = HCl preserved Specimen bottle, SP = Sulfuric Preserved Plastic, F = Formaldehyde Preserved Glass, E = Zinc Acetate Preserved Bottle, EDVA = Preserved Bottle, ST = Sterile Bottle, ASS = Plastic Bag For Acid Sulphate Soils, B = Unpreserved Bag



CHAIN OF CUSTODY

ALS Laboratory - please tick →

1. Sydney 217 Wattle Grove Rd, Shellharbour NSW 2526
 Ph: 02 7244 8255 Fax: 02 7244 8256
 2. Newcastle 100-102 Newcastle St, Newcastle NSW 2300
 Ph: 02 4929 9200 Fax: 02 4929 9201
 3. Brisbane 17 Shand St, Brisbane QLD 4000
 Ph: 07 3234 7797 Fax: 07 3234 7798
 4. Melbourne 2-4 Yarra St, Melbourne VIC 3001
 Ph: 03 8399 6700 Fax: 03 8399 6701
 5. Perth 10 Peel Street, Perth WA 6000
 Ph: 08 9489 6656 Fax: 08 9489 6657
 6. Adelaide 25 Rymon Rd, Adelaide SA 5006
 Ph: 08 8359 0590 Fax: 08 8359 0591
 7. Gold Coast 277 Varsity Ln, Gold Coast QLD 4214
 Ph: 07 5533 7797 Fax: 07 5533 7798
 8. Darwin 14-15 Ross St, Darwin NT 0801
 Ph: 08 8959 0590 Fax: 08 8959 0591

CLIENT: Environmental Advisors Pty Ltd
OFFICE: Sunshine Coast
PROJECT: 125 NSC LAKE McDONALD DYE COORRY
ORDER NUMBER:
PROJECT MANAGER: Andrew Winters
SAMPLELER: Andrew Winters
COC emailed to ALS? Yes
Email Reports to (will default to PM if no other addresses are listed): andrew@environmentaladvisors.com.au
Email Invoice to (will default to PM if no other addresses are listed): admin@environmentaladvisors.com.au

TURNOURD REQUIREMENTS: Standard TAT (List due date): 4 March 24
 Non Standard or urgent TAT (List due date):
ALS QUOTE NO.: EB23ENVADV0001 V2
COC SEQUENCE NUMBER: 4 of 15

CONTACT PH: 0409 662 747
SAMPLER MOBILE: 0409 662 747
RELINQUISHED BY: Andrew Winters
DATE/TIME: 24/2/24
RECEIVED BY:
DATE/TIME:
RELINQUISHED BY:
DATE/TIME:
RECEIVED BY:
DATE/TIME:

FOR LABORATORY USE ONLY (Circle)
 Custody Seal Intact? Yes No N/A
 Freezer / frozen for bris present upon receipt? Yes No N/A
 Rapidly Sample Temperature on Receipt? Yes No N/A
 Other comment:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

LAB ID	SAMPLE ID	DATE / TIME	MATRIX	CONTAINER INFORMATION	ANALYSIS REQUIRED INCLUDING SUITES (NB: Suite Codes must be listed to attract suite price)	Additional Information							
U0	TP22-1.0	19/02/2024	Soil	Jar	S-02 (8 Metals)								
G1	TP23-0.1	19/02/2024	Soil	Jar	S-16 (TRH/BTEXN/PAH OC/OP/PCB/8 metals)								
G2	TP23-0.5	19/02/2024	Soil	Jar	EA200G Asbestos (presence/absence in soil/bulk sample)								
G3	TP23-1.0	19/02/2024	Soil	Jar	S-05 (TRH/BTEXN/8 metals)								
G4	TP23-2.5	19/02/2024	Soil	Jar	EP231 (PFAS Short Suite)								
G5	TP24-0.1	19/02/2024	Soil	Jar + PFAS	EP075 (SVOC)								
G6	TP24-0.5	19/02/2024	Soil	Jar + PFAS	S-18 TRH(c6-c10)/BTEXN								
G7	TP24-0.7	19/02/2024	Soil	Jar + PFAS									
G8	TP24-1.0	19/02/2024	Soil	Jar									
G9	TP25-0.1	19/02/2024	Soil	Jar									
G0	TP25-0.5	19/02/2024	Soil	Jar									
G1	TP25-1.0	19/02/2024	Soil	Jar									
G2	TP26-0.1	19/02/2024	Soil	Jar + PFAS + asbestos bag									
TOTAL					17	7	1	1	1	2	3	0	0

Water Container Codes: P = Unpreserved Plastic; N = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide/Cl Preserved; S = Sodium Hydroxide Preserved Plastic; AG = Amber Glass Unpreserved; AP = Airfreight Unpreserved Plastic; V = VOA Vial HD Preserved; VB = VOA Vial Sodium Bisulfate Preserved; VS = VOA Vial Sulfuric Preserved; AV = Airfreight Unpreserved Vial; SG = Sulfuric Preserved Amber Glass; H = HCl preserved Plastic; HS = HCl preserved Speciation bottle; SP = Sulfuric Preserved Plastic; F = Formaldehyde Preserved Class; Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottle; ST = Sterile Bottle; ASS = Plastic Bag for Acid Substrate Soils; B = Unpreserved Bag.



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 5. Adelaide 21 Sturt St, Adelaide, SA 5000
 6. Darwin 27 Malpas St, Darwin, NT 1100
 7. Cairns 27 Malpas St, Cairns, QLD 4870
 8. Brisbane 100 St George St, Brisbane, QLD 4000
 9. Sydney 27 Wentworth St, Sydney, NSW 2000
 10. Perth 100 Stirling Way, Perth, WA 6000
 11. Adelaide 21 Sturt St, Adelaide, SA 5000
 12. Darwin 27 Malpas St, Darwin, NT 1100
 13. Cairns 27 Malpas St, Cairns, QLD 4870
 14. Brisbane 100 St George St, Brisbane, QLD 4000
 15. Sydney 27 Wentworth St, Sydney, NSW 2000

CLIENT: Environmental Advisors Pty Ltd
OFFICE: Sunshine Coast
PROJECT: 125 NSC LAKE McDONALD DVE, COOROY
ORDER NUMBER:
PROJECT MANAGER: Andrew Whithers
SAMPLER: Andrew Whithers
COC emailed to ALST? Yes
Email Reports to (will default to PM if no other addresses are listed): andrew@environmentaladvisors.com.au
Email invoice to (will default to PM if no other addresses are listed): admin@environmentaladvisors.com.au
COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

TURNAROUND REQUIREMENTS: Standard TAT (List due date): 4 March 24
 Non Standard or urgent TAT (List due date):
ALS QUOTE NO.: EB23ENVADV0001 V2
COC SEQUENCE NUMBER: 5 of 15
FOR LABORATORY USE ONLY (Circle)
 Custody Seal intact? Yes No N/A
 Freeze / frozen ice bricks present upon receipt? Yes No N/A
 Random Sample Temperature on Receipt: °C
 Other comment:

CONTACT PH: 0409 662 747
SAMPLER MOBILE: 0409 662 747
EDD FORMAT: Default
RELINQUISHED BY: Andrew Whithers
DATE/TIME: 24/2/24
RECEIVED BY:
DATE/TIME:
RELINQUISHED BY:
DATE/TIME:
RECEIVED BY:
DATE/TIME:

LAB ID	SAMPLE ID	DATE / TIME	MATRIX	CONTAINER INFORMATION	TOTAL CONTAINERS	ANALYSIS REQUIRED INCLUDING SUITES (NB: Suite Codes must be listed to attract suite price)							Additional Information		
						S-02 (8 Metals)	S-16 (TRH/BTEXN/PAH OC/OP/PCB/8 metals)	EA200G Asbestos (presence/absence in soil/bulk sample)	S-05 (TRH/BTEXN/8 metals)	EP231 (PFAS Short Suite)	EP075 (SVOC)	S-18 TRH(c6-c10)/BTEXN			
53		19/02/2024	Soil	Jar	1	x									
59		19/02/2024	Soil	Jar	1	x									
55		20/02/2024	Soil	Jar + PFAS - asbestos bag	3	x		x		x					
57		20/02/2024	Soil	Jar	1				x						
58		20/02/2024	Soil	Jar	1	x									
59		20/02/2024	Soil	Jar	1	x									
60		20/02/2024	Soil	Jar	1										
61		20/02/2024	Soil	Jar	1	x									
62		20/02/2024	Soil	Jar	1	x									
63		20/02/2024	Soil	Jar	1	x									
64		20/02/2024	Soil	Jar	1	x									
65		20/02/2024	Soil	Jar	1	x									
TOTAL					15	10	0	1	2	1	1	0	0		

Major Container Codes: P = Unpreserved Plastic, N = Nitric Preserved Plastic, ORC = Nitric Preserved ORC, SH = Sodium Hydroxide/Cl Preserved, S = Sodium Hydroxide Preserved Plastic, AG = Amber Glass Unpreserved, AP = Air-tight Unpreserved Plastic
 V = VOA Val (H) Preserved, VA = VOA Via Sodium Bisulfate Preserved, VS = VOA Val Sulfuric Preserved, AV = Air-tight Unpreserved Val, SG = Sulfuric Preserved Amber Glass, H = HCl preserved Plastic, HS = HCl preserved Speciation bottle, SP = Sulfuric Preserved Glass
 Z = Zinc Acetate Preserved Bottle, E = EDTA Preserved Bottle, ST = Stottle Bottle, ASS = Plastic Bag for Acid Soluble Solids, B = Unpreserved Bag



CHAIN OF CUSTODY

ALS Laboratory please tick →

17 Sydney Street, East Melbourne VIC 3002
Ph: 78 88 8888 Fax: 94 39 39 39
1 Riverside Drive, North Melbourne VIC 3048
Ph: 78 88 8888 Fax: 94 39 39 39
171 Victoria Street, East Melbourne VIC 3002
Ph: 78 88 8888 Fax: 94 39 39 39

17 Melbourne Road, North Melbourne VIC 3048
Ph: 78 88 8888 Fax: 94 39 39 39
171 Victoria Street, East Melbourne VIC 3002
Ph: 78 88 8888 Fax: 94 39 39 39

17 Melbourne Road, North Melbourne VIC 3048
Ph: 78 88 8888 Fax: 94 39 39 39
171 Victoria Street, East Melbourne VIC 3002
Ph: 78 88 8888 Fax: 94 39 39 39

17 Melbourne Road, North Melbourne VIC 3048
Ph: 78 88 8888 Fax: 94 39 39 39
171 Victoria Street, East Melbourne VIC 3002
Ph: 78 88 8888 Fax: 94 39 39 39

17 Melbourne Road, North Melbourne VIC 3048
Ph: 78 88 8888 Fax: 94 39 39 39
171 Victoria Street, East Melbourne VIC 3002
Ph: 78 88 8888 Fax: 94 39 39 39

CLIENT: Environmental Advisors Pty Ltd

OFFICE: Sunshine Coast

PROJECT: 125 NSC LAKE McDONALD DVE, COOROY

ORDER NUMBER: PROJECT MANAGER: Andrew Winters

SAMPLER: Andrew Winters

COC emailed to ALS? Yes

Email Reports to (will default to PM if no other addresses are listed): andrew@environmentaladvisors.com.au

Email Invoice to (will default to PM if no other addresses are listed): admin@environmentaladvisors.com.au

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

TURNAROUND REQUIREMENTS: Standard IAT (last due date): 4 March 24
 Non Standard or urgent IAT (last due date):

COC SEQUENCE NUMBER: 6 of 15

FOR LABORATORY USE ONLY (Circle)
Custody Seal Intact? Yes No N/A
Frozen / frozen ice bricks present upon receipt? Yes No N/A
Random Sample Temperature on Receipt: °C
Other comment:

CONTACT PH: 0409 662 747
SAMPLER MOBILE: 0409 662 747
EDD FORMAT: Default
REINQUISHED BY: Andrew Winters
DATE/TIME: 24/2/24

ALS USE ONLY: SAMPLE DETAILS MATRIX CONTAINER INFORMATION ANALYSIS REQUIRED (including SUIES (NB: Suite Codes must be listed to attract suite price))

LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL CONTAINERS	S-02 (8 Metals)	S-16 (TRH/BTEXN/PAH OC/OP/PCB/8 metals)	EA200G Asbestos (presence/absence in soil/bulk sample)	S-05 (TRH/BTEXN/8 metals)	EP231 (PFAS Short Suite)	EP075 (SVOC)	S-18 TRH(c6-c10)/BTEXN	Additional Information
66	TP30-0.5	20/02/2024	Soil	Jar	1	x							
67	TP30-1.0	20/02/2024	Soil	Jar	1								
68	TP31-0.1	20/02/2024	Soil	Jar	1	x							
69	TP31-0.5	20/02/2024	Soil	Jar	1	x							
70	TP31-1.0	20/02/2024	Soil	Jar	1								
71	TP32-0.1	20/02/2024	Soil	Jar	1	x							
72	TP32-0.5	20/02/2024	Soil	Jar	1	x							
73	TP32-1.0	20/02/2024	Soil	Jar	1								
74	TP33-0.1	20/02/2024	Soil	Jar + PFAS + asbestos bag	3			x					
75	TP33-0.5	20/02/2024	Soil	Jar	1				x				
76	TP33-1.0	20/02/2024	Soil	Jar	1	x							
77	TP33-2.3	20/02/2024	Soil	Jar + PFAS + asbestos bag	3			x					
78	TP34-0.1	20/02/2024	Soil	Jar	1								
TOTAL					17	7	1	2	2	1	0	0	0

Water Container Codes: P = Unpreserved Plastic, N = Nitric Preserved Plastic, CUC = Nitric Preserved CUC, SH = Sodium Hydroxide/CU Preserved, S = Sodium Hydroxide Preserved Plastic, AG = Amber Glass Unpreserved, AP = Air-tight Unpreserved Plastic
Y = VOA Vol (H) Preserved, VB = VOA Vol Sodium Bisphosphate Preserved, VS = VOA Vol Sulphur Preserved, VA = Air-tight Unpreserved Vol, SG = Sulphur Preserved Amber Glass, H = HC Preserved Plastic, HS = HC Preserved Speciation Bottle, SP = Sulphur Preserved Plastic, F = Formaldehyde Preserved Glass
Z = ZINC Asbestos Preserved Bottle, E = EDTA Preserved Bottles, ST = Sterile Bottle, ASS = Plastic Bag for Acid Sulphate Soils, B = Unpreserved Bag



CHAIN OF CUSTODY

ALS Laboratory, please tick ->

125 NCS Lake McDonald Drive, Cooroy
QLD 4209
Ph: 07 5541 2200
Fax: 07 5541 2201
Email: als@als.com.au

1700 St. Johns St, St. Johns QLD 4003
Ph: 07 5541 2200
Fax: 07 5541 2201
Email: als@als.com.au

24 Victoria Rd, Springwood QLD 4127
Ph: 07 5541 2200
Fax: 07 5541 2201
Email: als@als.com.au

11 Perth St, Redbank, Brisbane QLD 4010
Ph: 07 5541 2200
Fax: 07 5541 2201
Email: als@als.com.au

CLIENT: Environmental Advisors Pty Ltd
OFFICE: Sunshine Coast
PROJECT: 125 NCS LAKE McDONALD DYE COOROY
ORDER NUMBER:
PROJECT MANAGER: Andrew Winters
SAMPLER: Andrew Winters
COC emailed to ALS? Yes

TURNAROUND REQUIREMENTS: Standard TAT (List due date): 4 March 24
 Non Standard or urgent TAT (List due date):
ALS QUOTE NO.: EB23ENVADV0001 V2
COC SEQUENCE NUMBER: 7 of 15

CONTACT PH: 0409 662 747
SAMPLER MOBILE: 0409 662 747
RELINQUISHED BY: Andrew Winters
DATE/TIME: 24/2/24

RECEIVED BY: [Signature]
DATE/TIME: [Signature]

RELINQUISHED BY: [Signature]
DATE/TIME: [Signature]

RECEIVED BY: [Signature]
DATE/TIME: [Signature]

FOR LABORATORY USE ONLY (Circle)
Custody Seal Intact? Yes No N/A
Freeze / frozen for trace present upon receipt? Yes No N/A
Random Sample Temperature on Receipt? Yes No N/A
Other comment:

LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	CONTAINER INFORMATION	TOTAL CONTAINERS	ANALYSIS REQUIRED including SUITES (NB: Suite Codes must be listed to attract suite price) <small>Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (filtered bottle required).</small>	Additional Information <small>Comments on likely contaminants, levels, dilutions, or samples requiring specific GC analysis etc.</small>						
279	TP24-0.5	20/02/2024	Soil	Jar	Jar	1	S-02 (8 Metals)							
820	TP24-1.0	20/02/2024	Soil	Jar	Jar	1	S-16 (TRH/BTEXN/PAH OC/OP/PCB/8 metals)							
821	TP25-0.1	20/02/2024	Soil	Jar + BFAS + absorbent bag	Jar	3	EA200G Asbestos (presence/absence in soil/bulk sample)							
822	TP25-0.5	20/02/2024	Soil	Jar	Jar	1	S-05 (TRH/BTEXN/8 metals)							
823	TP25-1.0	20/02/2024	Soil	Jar	Jar	1	EP231 (PFAS Short Suite)							
824	TP26-0.1	21/02/2024	Soil	Jar	Jar	1	EP075 (SVOC)							
825	TP26-0.5	21/02/2024	Soil	Jar	Jar	1	S-18 TRH(c6-c10)/BTEXN							
826	TP26-1.0	21/02/2024	Soil	Jar	Jar	1								
827	TP26-2.3	21/02/2024	Soil	Jar	Jar	1								
828	TP27-0.1	21/02/2024	Soil	Jar	Jar	1								
829	TP27-0.5	21/02/2024	Soil	Jar	Jar	1								
830	TP27-1.0	21/02/2024	Soil	Jar	Jar	1								
831	TP28-0.1	21/02/2024	Soil	Jar + BFAS + absorbent bag	Jar	3								
TOTAL						17	7	0	2	1	2	0	0	0

Water Container Codes: P = Unpreserved Plastic, N = Nitric Preserved Plastic, CRC = Nitric Preserved CRC, SH = Sodium Hydroxide/Cr Preserved, S = Sodium Hydroxide Preserved Plastic, AG = Amber Glass Unpreserved, AP = Airfreight Unpreserved Plastic
 V = VOA Vial HQ Preserved, VB = VOA Vial Sodium Bisulfate Preserved, VS = VOA Vial Sulfuric Preserved, VA = Airfreight Preserved Vial, SG = Sulfuric Preserved Amber Glass, H = HQ Preserved Plastic, HS = HQ Preserved Speciation bottle, SP = Sulfuric Preserved Plastic, F = Formaldehyde Preserved Glass
 B = Zinc Acetate Preserved Bottle, E = EDTA Preserved Bottles, ST = Sterile Bottle, ASS = Plastic Bag for Acid Sulphate Soils, B = Unpreserved Bag



CHAIN OF CUSTODY

ALS Laboratory, please tick →

17 Sydney 2777 Westmore Rd, Goodfield NSW 2170
Ph: 02 9346 5666 Fax: 02 9346 5667 Email: als@als.com.au
E: Newcastle 55 Robinson Rd, Newcastle NSW 2300
Ph: 02 4926 4127 Fax: 02 4926 4128 Email: als@als.com.au

Sheffield 175 Standish Rd, Standish VIC 3083
Ph: 03 9346 5666 Fax: 03 9346 5667 Email: als@als.com.au
E: Brisbane 2777 Kangaroo Rd, Brisbane QLD 4101
Ph: 07 3200 4127 Fax: 07 3200 4128 Email: als@als.com.au

Melbourne 24 Vasey Rd, Geelong VIC 3217
Ph: 03 5249 4127 Fax: 03 5249 4128 Email: als@als.com.au
E: Adelaide 23 Barrow Rd, Mawson SA 5070
Ph: 08 8369 4127 Fax: 08 8369 4128 Email: als@als.com.au

Perth 10 Hilda Ave, Manning WA 8056
Ph: 08 9337 4127 Fax: 08 9337 4128 Email: als@als.com.au
E: Launceston 27 Tuckey St, Launceston TAS 7250
Ph: 03 6331 4127 Fax: 03 6331 4128 Email: als@als.com.au

CLIENT: Environmental Advisors Pty Ltd

OFFICE: Sunshine Coast

PROJECT: 125 NSC LAKE McDONALD DYE COOROY

ORDER NUMBER:

PROJECT MANAGER: Andrew Winters

SAMPLER: Andrew Winters

COC emailed to ALS? Yes

Email Reports to (will default to PM if no other addresses are listed): andrew@environmentaladvisors.com.au

Email Invoice to (will default to PM if no other addresses are listed): admin@environmentaladvisors.com.au

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

TURNAROUND REQUIREMENTS: Standard TAT (List due date): 4 March 24
 Non Standard or urgent TAT (List due date):

ALS QUOTE NO.: EB28ENVADV0001 V2

CONTACT PH: 0409 662 747

SAMPLER MOBILE: 0409 662 747

EDD FORMAT: Default

RELINQUISHED BY: Andrew Winters

DATE/TIME: 24/2/24

COC SEQUENCE NUMBER: 8 of 15

RECEIVED BY:

DATE/TIME:

RELINQUISHED BY:

DATE/TIME:

FOR LABORATORY USE ONLY (circle)

Custody Seal Intact? Yes No N/A

Freeze / Freeze Ice Bricks present Upon receipt? Yes No N/A

Random Sample Temperature on Receipt: °C

Other comment:

RECEIVED BY:

DATE/TIME:

SAMPLE DETAILS
MATRIX: Solid(S) Water(W)

CONTAINER INFORMATION

ANALYSIS REQUIRED INCLUDING SUITES (NB: Suite Codes must be listed to attract sure price)
Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (filtered bottle required).

Additional Information
Comments on likely contaminant levels, dilutions, or samples requiring specific QC analysis etc.

LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL CONTAINERS	S-02 (8 Metals)	S-16 (TRH/BTEXN/PAH OC/OP/PCB/8 metals)	EA200G Asbestos (presence/absence in soil/bulk sample)	S-05 (TRH/BTEXN/8 metals)	EP231 (PFAS Short Suite)	EP075 (SVOC)	S-18 TRH(c6-c10)/BTEXN
98	TP39-0.5	21/02/2024	Soil	Jar + PFAS + asbestos bag	3	x		x				
98	TP38-1.0	21/02/2024	Soil	Jar	1							
98	TP39-0.1	21/02/2024	Soil	Jar	1	x						
98	TP39-0.5	21/02/2024	Soil	Jar	1							
98	TP39-1.0	21/02/2024	Soil	Jar	1							
98	TP40-0.1	21/02/2024	Soil	Jar	1							
98	TP40-0.5	21/02/2024	Soil	Jar	1							
98	TP40-1.0	21/02/2024	Soil	Jar	1							
98	TP41-0.2	21/02/2024	Soil	Jar	1		x					
98	TP41-0.5	21/02/2024	Soil	Jar	1							
98	TP41-1.0	21/02/2024	Soil	Jar	1							
98	TP42-0.2	21/02/2024	Soil	Jar + PFAS	2	x						
98	TP42-0.5	21/02/2024	Soil	Jar	1							
TOTAL					16	4	2	1	3	1	1	0

Water Container Codes: P = Unpreserved Plastic, N = Nitric Preserved Plastic, ORC = Nitric Preserved QRC, ST = Sodium Hydroxide/Cd Preserved, S = Sodium Hydroxide Preserved Plastic, AG = Amber Glass Unpreserved, AP = Air-tight Unpreserved Plastic
V = VOA Vol HCl Preserved, VB = VOA Vol Sodium Disulphate Preserved, VS = VOA Vol Sulfuric Preserved, AV = Air-tight Unpreserved Vol, SG = Sulfuric Preserved Amber Glass, H = HCl Preserved Plastic, HS = HCl Preserved Speciation bottle, SP = Sulfuric Preserved Plastic, F = Formaldehyde Preserved Glass,
Z = Zinc Acetate Preserved Bottle, E = EDTA Preserved Bottles, ST = Sterile Bottle, ASS = Plastic Bag for Acid Sulphate Solids, B = Unpreserved Bag



SAMPLE RECEIPT NOTIFICATION (SRN)

Work Order : **EB2406372**

Client	: ENVIRONMENTAL ADVISORS	Laboratory	: Environmental Division Brisbane
Contact	: ANDREW WINTERS	Contact	: Customer Services EB
Address	: PO BOX 505 BUDDINA QLD 4575	Address	: 2 Byth Street Stafford QLD Australia 4053
E-mail	: andrew@environmentaladvisors.com.au	E-mail	: ALSEnviro.Brisbane@alsglobal.com
Telephone	: ----	Telephone	: +61 7 3243 7222
Facsimile	: ----	Facsimile	: +61-7-3243 7218
Project	: 125 NSC LAKE McDONALD DVE, COOROY	Page	: 1 of 6
Order number	: ----	Quote number	: EB2023ENVADV0001 (EB23ENVADV0001 V2)
C-O-C number	: ----	QC Level	: NEPM 2013 B3 & ALS QC Standard
Site	: ----		
Sampler	: ANDREW WINTERS		

Dates

Date Samples Received	: 24-Feb-2024 13:00	Issue Date	: 27-Feb-2024
Client Requested Due Date	: 06-Mar-2024	Scheduled Reporting Date	: 06-Mar-2024

Delivery Details

Mode of Delivery	: Client Drop Off	Security Seal	: Not Available
No. of coolers/boxes	: 5	Temperature	: 16°, 16, 16°C - Ice present
Receipt Detail	: MEDIUM ESKY	No. of samples received / analysed	: 102 / 83

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
- **Asbestos Identification will be conducted by ALS Melbourne, NATA accreditation no. 825, site no 13778**
- **SPLIT WORK ORDER: It should be noted that ALS has split this work order with the following work order EB2406402 due to the size of the sample numbers. For any further information regarding this processing of samples please contact ALS client services division on ALSEnviro.Brisbane@alsglobal.com**
- **PLEASE NOTE: Asbestos Identification was not assigned to ALS sample #77 'TP33-2.3, as a 50g Asbestos ACM/Grab Bag was not received. If you wish to discuss this further please contact ALS Brisbane Client Services Department at ALSEnviro.Brisbane@alsglobal.com.**
- **PLEASE NOTE: Additional 200g PFAS soil containers were received for ALS samples #12, 27, 52, 77 & 92 were received and added to the workorder, these samples have been placed on hold until otherwise notified to proceed with analysis. If you wish to discuss this further please contact ALS Brisbane Client Services Department at ALSEnviro.Brisbane@alsglobal.com.**
- **PLEASE NOTE: ALS #87, Chain Of Custody ID 'TP36-2.3', sample received ID 'TP35-2.3'. Sample labelled as per Chain Of Custody. If you wish to discuss this further please contact ALS Brisbane Client Services Department at ALSEnviro.Brisbane@alsglobal.com.**
- Discounted Package Prices apply only when specific ALS Group Codes ('W', 'S', 'NT' suites) are referenced on COCs.
- Please direct any turn around / technical queries to the laboratory contact designated above.
- Sample Disposal - Aqueous (3 weeks), Solid (2 months ± 1 week) from receipt of samples.
- Analysis will be conducted by ALS Environmental, Brisbane, NATA accreditation no. 825, Site No. 818 (Micro site no. 18958).
- **Breaches in recommended extraction / analysis holding times (if any) are displayed overleaf in the Proactive Holding Time Report table.**
- 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.

- 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.



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	SOIL - EA055-103 Moisture Content	SOIL - EA200G Asbestos Identification in Soils -	SOIL - EP075 (solids) Semivolatile Organic Compounds	SOIL - EP231 (solids) PFAS - Short Suite (12 analytes)	SOIL - S-02 8 Metals (incl. Digestion)	SOIL - S-05 TRH/BTEXN/8 Metals	SOIL - S-16 TRH/BTEXN/PAH/OC/OP/PCB/8Metals
EB2406372-001	19-Feb-2024 00:00	TP12-0.1	✓	✓		✓			✓
EB2406372-002	19-Feb-2024 00:00	TP12-0.5	✓					✓	
EB2406372-003	19-Feb-2024 00:00	TP12-1.0	✓				✓		
EB2406372-004	19-Feb-2024 00:00	TP12-2.0	✓						✓
EB2406372-005	19-Feb-2024 00:00	TP13-0.1	✓					✓	
EB2406372-006	19-Feb-2024 00:00	TP13-0.5	✓				✓		
EB2406372-007	19-Feb-2024 00:00	TP13-1.0	✓		✓		✓		
EB2406372-008	19-Feb-2024 00:00	TP14-0.1	✓	✓		✓		✓	
EB2406372-009	19-Feb-2024 00:00	TP14-0.5	✓						✓
EB2406372-010	19-Feb-2024 00:00	TP14-1.0	✓					✓	
EB2406372-011	19-Feb-2024 00:00	TP14-2.0	✓			✓			✓
EB2406372-012	19-Feb-2024 00:00	TP14-3.3	✓					✓	
EB2406372-013	19-Feb-2024 00:00	TP15-0.1	✓	✓	✓	✓			
EB2406372-014	19-Feb-2024 00:00	TP15-0.5	✓	✓	✓	✓		✓	
EB2406372-015	19-Feb-2024 00:00	TP15-1.0	✓				✓		
EB2406372-016	19-Feb-2024 00:00	TP15-2.0	✓					✓	
EB2406372-017	19-Feb-2024 00:00	TP16-0.1	✓			✓	✓		
EB2406372-018	19-Feb-2024 00:00	TP16-0.5	✓				✓		
EB2406372-019	19-Feb-2024 00:00	TP16-1.0	✓				✓		
EB2406372-020	19-Feb-2024 00:00	TP17-0.1	✓				✓		
EB2406372-021	19-Feb-2024 00:00	TP17-0.5	✓					✓	
EB2406372-023	19-Feb-2024 00:00	TP18-0.1	✓				✓		
EB2406372-024	19-Feb-2024 00:00	TP18-0.5	✓		✓	✓			
EB2406372-025	19-Feb-2024 00:00	TP18-1.0	✓				✓		
EB2406372-026	19-Feb-2024 00:00	TP19-0.1	✓				✓		
EB2406372-028	19-Feb-2024 00:00	TP19-1.0	✓		✓		✓		
EB2406372-030	19-Feb-2024 00:00	TP19-2.2	✓				✓		
EB2406372-031	19-Feb-2024 00:00	TP20-0.1	✓					✓	
EB2406372-032	19-Feb-2024 00:00	TP20-0.5	✓				✓		
EB2406372-033	19-Feb-2024 00:00	TP20-1.0	✓		✓				
EB2406372-034	19-Feb-2024 00:00	TP20-2.8	✓					✓	
EB2406372-035	19-Feb-2024 00:00	TP21-0.1	✓					✓	
EB2406372-036	19-Feb-2024 00:00	TP21-0.5	✓		✓				✓
EB2406372-037	19-Feb-2024 00:00	TP21-1.0	✓					✓	
EB2406372-038	19-Feb-2024 00:00	TP22-0.1	✓				✓		



			SOIL - EA055-103 Moisture Content	SOIL - EA200G Asbestos Identification in Soils -	SOIL - EP075 (solids) Semivolatile Organic Compounds	SOIL - EP231 (solids) PFAS - Short Suite (12 analytes)	SOIL - S-02 8 Metals (incl. Digestion)	SOIL - S-05 TRH/BTEXN/8 Metals	SOIL - S-16 TRH/BTEXN/PAH/OC/OP/PCB/8Metals
EB2406372-039	19-Feb-2024 00:00	TP22-0.5	✓				✓		
EB2406372-040	19-Feb-2024 00:00	TP22-1.0	✓				✓		
EB2406372-042	19-Feb-2024 00:00	TP23-0.5	✓				✓		
EB2406372-043	19-Feb-2024 00:00	TP23-1.0	✓					✓	
EB2406372-044	19-Feb-2024 00:00	TP23-2.5	✓		✓		✓		
EB2406372-046	19-Feb-2024 00:00	TP24-0.5	✓			✓			✓
EB2406372-047	19-Feb-2024 00:00	TP24-0.7	✓			✓	✓		
EB2406372-048	19-Feb-2024 00:00	TP24-1.0	✓				✓		
EB2406372-050	19-Feb-2024 00:00	TP25-0.5	✓		✓		✓		
EB2406372-051	19-Feb-2024 00:00	TP25-1.0	✓		✓		✓		
EB2406372-052	19-Feb-2024 00:00	TP26-0.1		✓					
EB2406372-053	19-Feb-2024 00:00	TP26-0.5	✓				✓		
EB2406372-054	19-Feb-2024 00:00	TP26-1.0	✓				✓		
EB2406372-055	20-Feb-2024 00:00	TP27-0.1	✓	✓		✓	✓		
EB2406372-056	20-Feb-2024 00:00	TP27-0.5	✓					✓	
EB2406372-057	20-Feb-2024 00:00	TP27-1.0	✓					✓	
EB2406372-058	20-Feb-2024 00:00	TP28-0.1	✓				✓		
EB2406372-059	20-Feb-2024 00:00	TP28-0.5	✓				✓		
EB2406372-061	20-Feb-2024 00:00	TP29-0.1	✓				✓		
EB2406372-062	20-Feb-2024 00:00	TP29-0.5	✓		✓		✓		
EB2406372-063	20-Feb-2024 00:00	TP29-1.0	✓				✓		
EB2406372-064	20-Feb-2024 00:00	TP29-2.4	✓				✓		
EB2406372-065	20-Feb-2024 00:00	TP30-0.1	✓				✓		
EB2406372-066	20-Feb-2024 00:00	TP30-0.5	✓				✓		
EB2406372-068	20-Feb-2024 00:00	TP31-0.1	✓				✓		
EB2406372-069	20-Feb-2024 00:00	TP31-0.5	✓				✓		
EB2406372-071	20-Feb-2024 00:00	TP32-0.1	✓				✓		
EB2406372-072	20-Feb-2024 00:00	TP32-0.5	✓				✓		
EB2406372-074	20-Feb-2024 00:00	TP33-0.1	✓	✓		✓		✓	
EB2406372-075	20-Feb-2024 00:00	TP33-0.5	✓					✓	
EB2406372-076	20-Feb-2024 00:00	TP33-1.0	✓				✓		
EB2406372-077	20-Feb-2024 00:00	TP33-2.3	✓				✓		
EB2406372-078	20-Feb-2024 00:00	TP34-0.1	✓						✓
EB2406372-079	20-Feb-2024 00:00	TP34-0.5	✓				✓	✓	
EB2406372-081	20-Feb-2024 00:00	TP35-0.1	✓	✓		✓	✓		
EB2406372-084	21-Feb-2024 00:00	TP36-0.1	✓				✓		
EB2406372-085	21-Feb-2024 00:00	TP36-0.5	✓				✓		
EB2406372-088	21-Feb-2024 00:00	TP37-0.1	✓				✓		
EB2406372-089	21-Feb-2024 00:00	TP37-0.5	✓				✓		
EB2406372-091	21-Feb-2024 00:00	TP38-0.1	✓	✓		✓	✓		
EB2406372-092	21-Feb-2024 00:00	TP38-0.5	✓	✓			✓		



			SOIL - EA055-103 Moisture Content	SOIL - EA200G Asbestos Identification in Soils -	SOIL - EP075 (solids) Semivolatile Organic Compounds	SOIL - EP231 (solids) PFAS - Short Suite (12 analytes)	SOIL - S-02 8 Metals (incl. Digestion)	SOIL - S-05 TRH/BTEXN/8 Metals	SOIL - S-16 TRH/BTEXN/PAH/OC/OP/PCB/8Metals
EB2406372-094	21-Feb-2024 00:00	TP39-0.1	✓				✓		
EB2406372-095	21-Feb-2024 00:00	TP39-0.5	✓				✓		
EB2406372-097	21-Feb-2024 00:00	TP40-0.1	✓						✓
EB2406372-098	21-Feb-2024 00:00	TP40-0.5	✓					✓	
EB2406372-099	21-Feb-2024 00:00	TP40-1.0	✓					✓	
EB2406372-100	21-Feb-2024 00:00	TP41-0.2	✓					✓	
EB2406372-101	21-Feb-2024 00:00	TP41-0.5	✓						✓

Matrix: SOIL

Laboratory sample ID Sampling date / time Sample ID

Laboratory sample ID	Sampling date / time	Sample ID	(On Hold) SOIL No analysis requested
EB2406372-022	19-Feb-2024 00:00	TP17-1.5	✓
EB2406372-027	19-Feb-2024 00:00	TP19-0.5	✓
EB2406372-029	19-Feb-2024 00:00	TP19-1.5	✓
EB2406372-041	19-Feb-2024 00:00	TP23-0.1	✓
EB2406372-045	19-Feb-2024 00:00	TP24-0.1	✓
EB2406372-049	19-Feb-2024 00:00	TP25-0.1	✓
EB2406372-060	20-Feb-2024 00:00	TP28-1.0	✓
EB2406372-067	20-Feb-2024 00:00	TP30-1.0	✓
EB2406372-070	20-Feb-2024 00:00	TP31-1.0	✓
EB2406372-073	20-Feb-2024 00:00	TP32-1.0	✓
EB2406372-080	20-Feb-2024 00:00	TP34-1.0	✓
EB2406372-082	20-Feb-2024 00:00	TP35-0.5	✓
EB2406372-083	20-Feb-2024 00:00	TP35-1.0	✓
EB2406372-086	21-Feb-2024 00:00	TP36-1.0	✓
EB2406372-087	21-Feb-2024 00:00	TP36-2.3	✓
EB2406372-090	21-Feb-2024 00:00	TP37-1.0	✓
EB2406372-093	21-Feb-2024 00:00	TP38-1.0	✓
EB2406372-096	21-Feb-2024 00:00	TP39-1.0	✓
EB2406372-102	21-Feb-2024 00:00	TP41-1.0	✓

Proactive Holding Time Report

Sample(s) have been received within the recommended holding times for the requested analysis.



Requested Deliverables

ALL INVOICES

- A4 - AU Tax Invoice (INV)	Email	admin@environmentaladvisors.com.au
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ANDREW WINTERS

- *AU Certificate of Analysis - NATA (COA)	Email	andrew@environmentaladvisors.com.au
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	andrew@environmentaladvisors.com.au
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	andrew@environmentaladvisors.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	andrew@environmentaladvisors.com.au
- Chain of Custody (CoC) (COC)	Email	andrew@environmentaladvisors.com.au
- EDI Format - XTab (XTAB)	Email	andrew@environmentaladvisors.com.au

Inter-Laboratory Testing

Analysis conducted by ALS Melbourne, NATA accreditation no. 825, site no. 13778 (Chemistry).
(SOIL) EA200: AS 4964 - 2004 Identification of Asbestos in Soils



CERTIFICATE OF ANALYSIS

Work Order : **EB2406372**
Client : **ENVIRONMENTAL ADVISORS**
Contact : ANDREW WINTERS
Address : PO BOX 505
BUDDINA QLD 4575
Telephone : ----
Project : 125 NSC LAKE McDONALD DVE, COOROY
Order number : ----
C-O-C number : ----
Sampler : ANDREW WINTERS
Site : ----
Quote number : EB23ENVADV0001 V2
No. of samples received : 102
No. of samples analysed : 83

Page : 1 of 113
Laboratory : Environmental Division Brisbane
Contact : Customer Services EB
Address : 2 Byth Street Stafford QLD Australia 4053
Telephone : +61 7 3243 7222
Date Samples Received : 24-Feb-2024 13:00
Date Analysis Commenced : 27-Feb-2024
Issue Date : 07-Mar-2024 18:05



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
- Descriptive 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
Beatriz Llarinas	Senior Chemist - Inorganics	Brisbane Inorganics, Stafford, QLD
Beatriz Llarinas	Senior Chemist - Inorganics	Brisbane Soil Preparation, Stafford, QLD
MINNIE TRAN	Approved Asbestos Identifier	Melbourne Asbestos, Springvale, VIC
Timothy Creagh	Senior Chemist - Organics	Brisbane Organics, Stafford, QLD



General Comments

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

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

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

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contract for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting
ø = ALS is not NATA accredited for these tests.
~ = Indicates an estimated value.

- Benzo(a)pyrene Toxicity Equivalent Quotient (TEQ) per the NEPM (2013) is the sum total of the concentration of the eight carcinogenic PAHs multiplied by their Toxicity Equivalence Factor (TEF) relative to Benzo(a)pyrene. TEF values are provided in brackets as follows: Benz(a)anthracene (0.1), Chrysene (0.01), Benzo(b+j) & Benzo(k)fluoranthene (0.1), Benzo(a)pyrene (1.0), Indeno(1.2.3.cd)pyrene (0.1), Dibenz(a,h)anthracene (1.0), Benzo(g,h,i)perylene (0.01). Less than LOR results for 'TEQ Zero' are treated as zero, for 'TEQ 1/2LOR' are treated as half the reported LOR, and for 'TEQ LOR' are treated as being equal to the reported LOR. Note: TEQ 1/2LOR and TEQ LOR will calculate as 0.6mg/Kg and 1.2mg/Kg respectively for samples with non-detects for all of the eight TEQ PAHs.
- EP080: Where reported, Total Xylenes is the sum of the reported concentrations of m&p-Xylene and o-Xylene at or above the LOR.
- EP068: Where reported, Total Chlordane (sum) is the sum of the reported concentrations of cis-Chlordane and trans-Chlordane at or above the LOR.
- EP068: Where reported, Total OCP is the sum of the reported concentrations of all Organochlorine Pesticides at or above LOR.
- EP075(SIM): Where reported, Total Cresol is the sum of the reported concentrations of 2-Methylphenol and 3- & 4-Methylphenol at or above the LOR.
- **Asbestos Identification will be conducted by ALS Melbourne, NATA accreditation no. 825, site no 13778**
- **SPLIT WORK ORDER: it should be noted that ALS has split this work order with the following work order EB2406402 due to the size of the sample numbers. For any further information regarding this processing of samples please contact ALS client services division on ALSEnviro.Brisbane@alsglobal.com**
- EG035T (Total Mercury) Sample TP21-0.1 (EB2406372-035) shows poor matrix spike recovery due to sample heterogeneity. Confirmed by visual inspection.
- EP066 Polychlorinated Biphenyls (PCB): High surrogate recovery for sample's "TP21-0.5" (EB2406372_036) and "TP34-0.1" (EB2406372_078) deemed acceptable as associated results are less than LOR.
- EP080 - TRH Volatiles/BTEX: High LCS recovery deemed acceptable as all associated analyte results are less than LOR
- EG005T (Total Metals by ICP-AES): TP21-0.1 (EB2406372-035) shows poor matrix spike recovery due to sample heterogeneity. This has been confirmed by visual inspection.
- EP071 - TRH Semivolatile Fraction: Sample 'TP21-0.1' (EB2406372-035) shows high matrix spike recovery due to sample heterogeneity. Confirmed by visual inspection.
- EG005T (Total Metals by ICP-AES): Some samples shows poor matrix spike recovery due to sample heterogeneity. This has been confirmed by visual inspection.
- EG005T (Total Metals by ICP-AES): TP18-0.1 (EB2406372-023) shows poor duplicate results due to sample heterogeneity. This has been confirmed by visual inspection.
- EP075: Where reported, 'Sum of PAH' is the sum of the USEPA 16 priority PAHs
- EA200 'Am' Amosite (brown asbestos)
- EA200 'Cr' Crocidolite (blue asbestos)
- EA200 'Trace' - Asbestos fibres ("Free Fibres") detected by trace analysis per AS4964. The result can be interpreted that the sample contains detectable 'respirable' asbestos fibres
- EA200: Asbestos Identification Samples were analysed by Polarised Light Microscopy including dispersion staining.
- EA200 Legend
- EA200 'Ch' Chrysotile (white asbestos)
- EA200: 'UMF' Unknown Mineral Fibres. "-" indicates fibres detected may or may not be asbestos fibres. Confirmation by alternative techniques is recommended.



- 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.
- EA200: For samples larger than 30g, the <2mm fraction may be sub-sampled prior to trace analysis as outlined in ISO23909:2008(E) Sect 6.3.2-2
- EA200: 'Yes' - Asbestos detected by polarised light microscopy including dispersion staining.
- EA200: 'No*' - No asbestos found, at the reporting limit of 0.1g/kg, by polarised light microscopy including dispersion staining. Asbestos material was detected and positively identified at concentrations estimated to be below 0.1g/kg.
- EA200: 'No' - No asbestos found at the reporting limit 0.1g/kg, by polarised light microscopy including dispersion staining.
- EP231: Stable isotope enriched internal standards are added to samples prior to extraction. Target compounds have a direct analogous internal standard with the exception of PFPeS, PFHpA, PFDS, PFTrDA and 10:2 FTS. These compounds use an internal standard that is chemically related and has a retention time close to that of the target compound. The DQO for internal standard response is 50-150% of that established at initial calibration. PFOS is quantified using a certified, traceable standard consisting of linear and branched PFOS isomers. These practices are in line with recommendations in the National Environmental Management Plan for PFAS (Australian HEPA) and also conform to QSM 5.3 (US DoD) requirements.



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP12-0.1	TP12-0.5	TP12-1.0	TP12-2.0	TP13-0.1
Sampling date / time				19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2406372-001	EB2406372-002	EB2406372-003	EB2406372-004	EB2406372-005	
				Result	Result	Result	Result	Result	
EA055: Moisture Content									
Moisture Content	----	1.0	%	----	16.6	----	----	15.2	
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	1.0	%	15.7	----	14.9	10.3	----	
EA200: AS 4964 - 2004 Identification of Asbestos in Soils									
Asbestos Detected	1332-21-4	0.1	g/kg	No	----	----	----	----	
Asbestos (Trace)	1332-21-4	-	-	No	----	----	----	----	
Asbestos Type	1332-21-4	-	--	-	----	----	----	----	
Sample weight (dry)	----	0.01	g	6.50	----	----	----	----	
APPROVED IDENTIFIER:	----	-	--	M. TRAN	----	----	----	----	
Synthetic Mineral Fibre	----	-	--	No	----	----	----	----	
Organic Fibre	----	-	--	Yes	----	----	----	----	
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	38	41	64	7	25	
Copper	7440-50-8	5	mg/kg	<5	<5	<5	<5	<5	
Lead	7439-92-1	5	mg/kg	6	6	5	<5	8	
Nickel	7440-02-0	2	mg/kg	3	3	<2	<2	2	
Zinc	7440-66-6	5	mg/kg	<5	<5	<5	<5	145	
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	
EP066: Polychlorinated Biphenyls (PCB)									
Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	----	----	<0.1	----	
EP068A: Organochlorine Pesticides (OC)									
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	----	----	<0.05	----	
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	----	----	<0.05	----	
beta-BHC	319-85-7	0.05	mg/kg	<0.05	----	----	<0.05	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP12-0.1	TP12-0.5	TP12-1.0	TP12-2.0	TP13-0.1
Sampling date / time				19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2406372-001	EB2406372-002	EB2406372-003	EB2406372-004	EB2406372-005	
				Result	Result	Result	Result	Result	
EP068A: Organochlorine Pesticides (OC) - Continued									
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	----	----	<0.05	----	
delta-BHC	319-86-8	0.05	mg/kg	<0.05	----	----	<0.05	----	
Heptachlor	76-44-8	0.05	mg/kg	<0.05	----	----	<0.05	----	
Aldrin	309-00-2	0.05	mg/kg	<0.05	----	----	<0.05	----	
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	----	----	<0.05	----	
[^] Total Chlordane (sum)	----	0.05	mg/kg	<0.05	----	----	<0.05	----	
trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	----	----	<0.05	----	
alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	----	----	<0.05	----	
cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	----	----	<0.05	----	
Dieldrin	60-57-1	0.05	mg/kg	<0.05	----	----	<0.05	----	
4,4'-DDE	72-55-9	0.05	mg/kg	<0.05	----	----	<0.05	----	
Endrin	72-20-8	0.05	mg/kg	<0.05	----	----	<0.05	----	
beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	----	----	<0.05	----	
[^] Endosulfan (sum)	115-29-7	0.05	mg/kg	<0.05	----	----	<0.05	----	
4,4'-DDD	72-54-8	0.05	mg/kg	<0.05	----	----	<0.05	----	
Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	----	----	<0.05	----	
Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	----	----	<0.05	----	
4,4'-DDT	50-29-3	0.2	mg/kg	<0.2	----	----	<0.2	----	
Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	----	----	<0.05	----	
Methoxychlor	72-43-5	0.2	mg/kg	<0.2	----	----	<0.2	----	
[^] Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	<0.05	----	----	<0.05	----	
[^] Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-29-3	0.05	mg/kg	<0.05	----	----	<0.05	----	
EP068B: Organophosphorus Pesticides (OP)									
Dichlorvos	62-73-7	0.05	mg/kg	<0.05	----	----	<0.05	----	
Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	----	----	<0.05	----	
Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	----	----	<0.2	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP12-0.1	TP12-0.5	TP12-1.0	TP12-2.0	TP13-0.1
Sampling date / time				19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2406372-001	EB2406372-002	EB2406372-003	EB2406372-004	EB2406372-005	
				Result	Result	Result	Result	Result	
EP068B: Organophosphorus Pesticides (OP) - Continued									
Dimethoate	60-51-5	0.05	mg/kg	<0.05	----	----	<0.05	----	
Diazinon	333-41-5	0.05	mg/kg	<0.05	----	----	<0.05	----	
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	----	----	<0.05	----	
Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	----	----	<0.2	----	
Malathion	121-75-5	0.05	mg/kg	<0.05	----	----	<0.05	----	
Fenthion	55-38-9	0.05	mg/kg	<0.05	----	----	<0.05	----	
Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	----	----	<0.05	----	
Parathion	56-38-2	0.2	mg/kg	<0.2	----	----	<0.2	----	
Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	----	----	<0.05	----	
Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	----	----	<0.05	----	
Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	----	----	<0.05	----	
Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	----	----	<0.05	----	
Prothiofos	34643-46-4	0.05	mg/kg	<0.05	----	----	<0.05	----	
Ethion	563-12-2	0.05	mg/kg	<0.05	----	----	<0.05	----	
Carbophenothion	786-19-6	0.05	mg/kg	<0.05	----	----	<0.05	----	
Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	----	----	<0.05	----	
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	0.5	mg/kg	<0.5	----	----	<0.5	----	
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	----	----	<0.5	----	
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	----	----	<0.5	----	
Fluorene	86-73-7	0.5	mg/kg	<0.5	----	----	<0.5	----	
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	----	----	<0.5	----	
Anthracene	120-12-7	0.5	mg/kg	<0.5	----	----	<0.5	----	
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	----	----	<0.5	----	
Pyrene	129-00-0	0.5	mg/kg	<0.5	----	----	<0.5	----	
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	----	----	<0.5	----	
Chrysene	218-01-9	0.5	mg/kg	<0.5	----	----	<0.5	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP12-0.1	TP12-0.5	TP12-1.0	TP12-2.0	TP13-0.1
Sampling date / time					19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00
Compound	CAS Number	LOR	Unit	EB2406372-001	EB2406372-002	EB2406372-003	EB2406372-004	EB2406372-005	
				Result	Result	Result	Result	Result	
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued									
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	----	----	<0.5	----	
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	----	----	<0.5	----	
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	----	----	<0.5	----	
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	----	----	<0.5	----	
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	----	----	<0.5	----	
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	----	----	<0.5	----	
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	----	----	<0.5	----	
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	----	----	<0.5	----	
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	0.6	----	----	0.6	----	
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	1.2	----	----	1.2	----	
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	10	mg/kg	<10	<10	----	<10	<10	
C10 - C14 Fraction	----	50	mg/kg	<50	<50	----	<50	<50	
C15 - C28 Fraction	----	100	mg/kg	<100	<100	----	<100	<100	
C29 - C36 Fraction	----	100	mg/kg	<100	<100	----	<100	<100	
^ C10 - C36 Fraction (sum)	----	50	mg/kg	<50	<50	----	<50	<50	
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	----	<10	<10	
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<10	<10	----	<10	<10	
>C10 - C16 Fraction	----	50	mg/kg	<50	<50	----	<50	<50	
>C16 - C34 Fraction	----	100	mg/kg	<100	<100	----	<100	<100	
>C34 - C40 Fraction	----	100	mg/kg	<100	<100	----	<100	<100	
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	<50	----	<50	<50	
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	<50	<50	----	<50	<50	
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	----	<0.2	<0.2	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP12-0.1	TP12-0.5	TP12-1.0	TP12-2.0	TP13-0.1
Sampling date / time					19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406372-001	EB2406372-002	EB2406372-003	EB2406372-004	EB2406372-005
					Result	Result	Result	Result	Result
EP080: BTEXN - Continued									
Toluene	108-88-3	0.5	mg/kg		<0.5	<0.5	----	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg		<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
ortho-Xylene	95-47-6	0.5	mg/kg		<0.5	<0.5	----	<0.5	<0.5
^ Sum of BTEX	----	0.2	mg/kg		<0.2	<0.2	----	<0.2	<0.2
^ Total Xylenes	----	0.5	mg/kg		<0.5	<0.5	----	<0.5	<0.5
Naphthalene	91-20-3	1	mg/kg		<1	<1	----	<1	<1
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg		<0.0002	----	----	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg		<0.0002	----	----	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg		<0.0002	----	----	----	----
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg		<0.001	----	----	----	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg		<0.0002	----	----	----	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg		<0.0002	----	----	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg		<0.0002	----	----	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg		<0.0002	----	----	----	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg		<0.0005	----	----	----	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg		<0.0005	----	----	----	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg		<0.0005	----	----	----	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg		<0.0005	----	----	----	----
EP231P: PFAS Sums									



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP12-0.1	TP12-0.5	TP12-1.0	TP12-2.0	TP13-0.1
Sampling date / time				19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2406372-001	EB2406372-002	EB2406372-003	EB2406372-004	EB2406372-005	
				Result	Result	Result	Result	Result	
EP231P: PFAS Sums - Continued									
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg	<0.0002	----	----	----	----	
Sum of PFAS (WA DER List)	----	0.0002	mg/kg	<0.0002	----	----	----	----	
EP066S: PCB Surrogate									
Decachlorobiphenyl	2051-24-3	0.1	%	127	----	----	122	----	
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.05	%	93.6	----	----	96.4	----	
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.05	%	43.1	----	----	60.7	----	
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	0.5	%	96.6	----	----	95.5	----	
2-Chlorophenol-D4	93951-73-6	0.5	%	93.5	----	----	87.7	----	
2,4,6-Tribromophenol	118-79-6	0.5	%	76.4	----	----	71.1	----	
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	0.5	%	93.4	----	----	92.1	----	
Anthracene-d10	1719-06-8	0.5	%	104	----	----	102	----	
4-Terphenyl-d14	1718-51-0	0.5	%	107	----	----	109	----	
EP080S: TPH(V)/BTEX Surrogates									
1,2-Dichloroethane-D4	17060-07-0	0.2	%	91.9	98.6	----	101	91.5	
Toluene-D8	2037-26-5	0.2	%	83.0	87.6	----	89.9	85.3	
4-Bromofluorobenzene	460-00-4	0.2	%	96.7	96.2	----	103	101	
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.0002	%	106	----	----	----	----	
13C8-PFOA	----	0.0002	%	113	----	----	----	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP13-0.5	TP13-1.0	TP14-0.1	TP14-0.5	TP14-1.0
Sampling date / time				19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2406372-006	EB2406372-007	EB2406372-008	EB2406372-009	EB2406372-010	
				Result	Result	Result	Result	Result	
EA055: Moisture Content									
Moisture Content	----	1.0	%	----	----	14.5	----	19.0	
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	1.0	%	17.1	20.8	----	17.0	----	
EA200: AS 4964 - 2004 Identification of Asbestos in Soils									
Asbestos Detected	1332-21-4	0.1	g/kg	----	----	No	----	----	
Asbestos (Trace)	1332-21-4	-	-	----	----	No	----	----	
Asbestos Type	1332-21-4	-	--	----	----	-	----	----	
Sample weight (dry)	----	0.01	g	----	----	3.80	----	----	
APPROVED IDENTIFIER:	----	-	--	----	----	M. TRAN	----	----	
Synthetic Mineral Fibre	----	-	--	----	----	No	----	----	
Organic Fibre	----	-	--	----	----	Yes	----	----	
EG005(ED093)T: Total Metals by ICP-AES									
Arsenic	7440-38-2	5	mg/kg	<5	<5	<5	<5	6	
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1	
Chromium	7440-47-3	2	mg/kg	34	39	26	32	45	
Copper	7440-50-8	5	mg/kg	<5	<5	<5	8	9	
Lead	7439-92-1	5	mg/kg	6	6	6	12	8	
Nickel	7440-02-0	2	mg/kg	2	3	3	3	4	
Zinc	7440-66-6	5	mg/kg	<5	<5	24	22	140	
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.1	mg/kg	0.1	0.1	<0.1	0.4	0.3	
EP066: Polychlorinated Biphenyls (PCB)									
Total Polychlorinated biphenyls	----	0.1	mg/kg	----	----	----	<0.1	----	
EP068A: Organochlorine Pesticides (OC)									
alpha-BHC	319-84-6	0.05	mg/kg	----	----	----	<0.05	----	
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	----	----	----	<0.05	----	
beta-BHC	319-85-7	0.05	mg/kg	----	----	----	<0.05	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP13-0.5	TP13-1.0	TP14-0.1	TP14-0.5	TP14-1.0
Sampling date / time					19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406372-006	EB2406372-007	EB2406372-008	EB2406372-009	EB2406372-010
					Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued									
gamma-BHC	58-89-9	0.05	mg/kg		----	----	----	<0.05	----
delta-BHC	319-86-8	0.05	mg/kg		----	----	----	<0.05	----
Heptachlor	76-44-8	0.05	mg/kg		----	----	----	<0.05	----
Aldrin	309-00-2	0.05	mg/kg		----	----	----	<0.05	----
Heptachlor epoxide	1024-57-3	0.05	mg/kg		----	----	----	<0.05	----
[^] Total Chlordane (sum)	----	0.05	mg/kg		----	----	----	<0.05	----
trans-Chlordane	5103-74-2	0.05	mg/kg		----	----	----	<0.05	----
alpha-Endosulfan	959-98-8	0.05	mg/kg		----	----	----	<0.05	----
cis-Chlordane	5103-71-9	0.05	mg/kg		----	----	----	<0.05	----
Dieldrin	60-57-1	0.05	mg/kg		----	----	----	<0.05	----
4,4'-DDE	72-55-9	0.05	mg/kg		----	----	----	<0.05	----
Endrin	72-20-8	0.05	mg/kg		----	----	----	<0.05	----
beta-Endosulfan	33213-65-9	0.05	mg/kg		----	----	----	<0.05	----
[^] Endosulfan (sum)	115-29-7	0.05	mg/kg		----	----	----	<0.05	----
4,4'-DDD	72-54-8	0.05	mg/kg		----	----	----	<0.05	----
Endrin aldehyde	7421-93-4	0.05	mg/kg		----	----	----	<0.05	----
Endosulfan sulfate	1031-07-8	0.05	mg/kg		----	----	----	<0.05	----
4,4'-DDT	50-29-3	0.2	mg/kg		----	----	----	<0.2	----
Endrin ketone	53494-70-5	0.05	mg/kg		----	----	----	<0.05	----
Methoxychlor	72-43-5	0.2	mg/kg		----	----	----	<0.2	----
[^] Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg		----	----	----	<0.05	----
[^] Sum of DDD + DDE + DDT	72-54-8/72-55-9/5 0-2	0.05	mg/kg		----	----	----	<0.05	----
EP068B: Organophosphorus Pesticides (OP)									
Dichlorvos	62-73-7	0.05	mg/kg		----	----	----	<0.05	----
Demeton-S-methyl	919-86-8	0.05	mg/kg		----	----	----	<0.05	----
Monocrotophos	6923-22-4	0.2	mg/kg		----	----	----	<0.2	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP13-0.5	TP13-1.0	TP14-0.1	TP14-0.5	TP14-1.0
Sampling date / time				19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2406372-006	EB2406372-007	EB2406372-008	EB2406372-009	EB2406372-010	
				Result	Result	Result	Result	Result	
EP068B: Organophosphorus Pesticides (OP) - Continued									
Dimethoate	60-51-5	0.05	mg/kg	----	----	----	<0.05	----	
Diazinon	333-41-5	0.05	mg/kg	----	----	----	<0.05	----	
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	----	----	----	<0.05	----	
Parathion-methyl	298-00-0	0.2	mg/kg	----	----	----	<0.2	----	
Malathion	121-75-5	0.05	mg/kg	----	----	----	<0.05	----	
Fenthion	55-38-9	0.05	mg/kg	----	----	----	<0.05	----	
Chlorpyrifos	2921-88-2	0.05	mg/kg	----	----	----	<0.05	----	
Parathion	56-38-2	0.2	mg/kg	----	----	----	<0.2	----	
Pirimphos-ethyl	23505-41-1	0.05	mg/kg	----	----	----	<0.05	----	
Chlorfenvinphos	470-90-6	0.05	mg/kg	----	----	----	<0.05	----	
Bromophos-ethyl	4824-78-6	0.05	mg/kg	----	----	----	<0.05	----	
Fenamiphos	22224-92-6	0.05	mg/kg	----	----	----	<0.05	----	
Prothiofos	34643-46-4	0.05	mg/kg	----	----	----	<0.05	----	
Ethion	563-12-2	0.05	mg/kg	----	----	----	<0.05	----	
Carbophenothion	786-19-6	0.05	mg/kg	----	----	----	<0.05	----	
Azinphos Methyl	86-50-0	0.05	mg/kg	----	----	----	<0.05	----	
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	0.5	mg/kg	----	----	----	<0.5	----	
Acenaphthylene	208-96-8	0.5	mg/kg	----	----	----	<0.5	----	
Acenaphthene	83-32-9	0.5	mg/kg	----	----	----	<0.5	----	
Fluorene	86-73-7	0.5	mg/kg	----	----	----	<0.5	----	
Phenanthrene	85-01-8	0.5	mg/kg	----	----	----	<0.5	----	
Anthracene	120-12-7	0.5	mg/kg	----	----	----	<0.5	----	
Fluoranthene	206-44-0	0.5	mg/kg	----	----	----	<0.5	----	
Pyrene	129-00-0	0.5	mg/kg	----	----	----	0.5	----	
Benz(a)anthracene	56-55-3	0.5	mg/kg	----	----	----	<0.5	----	
Chrysene	218-01-9	0.5	mg/kg	----	----	----	<0.5	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP13-0.5	TP13-1.0	TP14-0.1	TP14-0.5	TP14-1.0
Sampling date / time					19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406372-006	EB2406372-007	EB2406372-008	EB2406372-009	EB2406372-010
					Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued									
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg		----	----	----	<0.5	----
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg		----	----	----	<0.5	----
Benzo(a)pyrene	50-32-8	0.5	mg/kg		----	----	----	<0.5	----
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg		----	----	----	<0.5	----
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg		----	----	----	<0.5	----
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg		----	----	----	<0.5	----
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg		----	----	----	0.5	----
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg		----	----	----	<0.5	----
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg		----	----	----	0.6	----
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg		----	----	----	1.2	----
EP075A: Phenolic Compounds									
Phenol	108-95-2	0.5	mg/kg		----	<0.5	----	----	----
2-Chlorophenol	95-57-8	0.5	mg/kg		----	<0.5	----	----	----
2-Methylphenol	95-48-7	0.5	mg/kg		----	<0.5	----	----	----
3- & 4-Methylphenol	1319-77-3	0.5	mg/kg		----	<0.5	----	----	----
2-Nitrophenol	88-75-5	0.5	mg/kg		----	<0.5	----	----	----
2.4-Dimethylphenol	105-67-9	0.5	mg/kg		----	<0.5	----	----	----
2.4-Dichlorophenol	120-83-2	0.5	mg/kg		----	<0.5	----	----	----
2.6-Dichlorophenol	87-65-0	0.5	mg/kg		----	<0.5	----	----	----
4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg		----	<0.5	----	----	----
2.4.6-Trichlorophenol	88-06-2	0.5	mg/kg		----	<0.5	----	----	----
2.4.5-Trichlorophenol	95-95-4	0.5	mg/kg		----	<0.5	----	----	----
Pentachlorophenol	87-86-5	1	mg/kg		----	<1	----	----	----
EP075B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	0.5	mg/kg		----	<0.5	----	----	----
2-Methylnaphthalene	91-57-6	0.5	mg/kg		----	<0.5	----	----	----
2-Chloronaphthalene	91-58-7	0.5	mg/kg		----	<0.5	----	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP13-0.5	TP13-1.0	TP14-0.1	TP14-0.5	TP14-1.0
Sampling date / time					19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00
Compound	CAS Number	LOR	Unit	EB2406372-006	EB2406372-007	EB2406372-008	EB2406372-009	EB2406372-010	
				Result	Result	Result	Result	Result	
EP075B: Polynuclear Aromatic Hydrocarbons - Continued									
Acenaphthylene	208-96-8	0.5	mg/kg	----	<0.5	----	----	----	
Acenaphthene	83-32-9	0.5	mg/kg	----	<0.5	----	----	----	
Fluorene	86-73-7	0.5	mg/kg	----	<0.5	----	----	----	
Phenanthrene	85-01-8	0.5	mg/kg	----	<0.5	----	----	----	
Anthracene	120-12-7	0.5	mg/kg	----	<0.5	----	----	----	
Fluoranthene	206-44-0	0.5	mg/kg	----	<0.5	----	----	----	
Pyrene	129-00-0	0.5	mg/kg	----	<0.5	----	----	----	
N-2-Fluorenyl Acetamide	53-96-3	0.5	mg/kg	----	<0.5	----	----	----	
Benz(a)anthracene	56-55-3	0.5	mg/kg	----	<0.5	----	----	----	
Chrysene	218-01-9	0.5	mg/kg	----	<0.5	----	----	----	
Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1	mg/kg	----	<1	----	----	----	
7.12-Dimethylbenz(a)anthracene	57-97-6	0.5	mg/kg	----	<0.5	----	----	----	
Benzo(a)pyrene	50-32-8	0.5	mg/kg	----	<0.5	----	----	----	
3-Methylcholanthrene	56-49-5	0.5	mg/kg	----	<0.5	----	----	----	
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	----	<0.5	----	----	----	
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	----	<0.5	----	----	----	
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	----	<0.5	----	----	----	
^ Sum of PAHs	----	0.5	mg/kg	----	<0.5	----	----	----	
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	----	<0.5	----	----	----	
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	----	0.6	----	----	----	
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	----	1.2	----	----	----	
EP075C: Phthalate Esters									
Dimethyl phthalate	131-11-3	0.5	mg/kg	----	<0.5	----	----	----	
Diethyl phthalate	84-66-2	0.5	mg/kg	----	<0.5	----	----	----	
Di-n-butyl phthalate	84-74-2	0.5	mg/kg	----	<0.5	----	----	----	
Butyl benzyl phthalate	85-68-7	0.5	mg/kg	----	<0.5	----	----	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP13-0.5	TP13-1.0	TP14-0.1	TP14-0.5	TP14-1.0
Sampling date / time					19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406372-006	EB2406372-007	EB2406372-008	EB2406372-009	EB2406372-010
					Result	Result	Result	Result	Result
EP075C: Phthalate Esters - Continued									
bis(2-ethylhexyl) phthalate	117-81-7	5.0	mg/kg		----	<5.0	----	----	----
Di-n-octylphthalate	117-84-0	0.5	mg/kg		----	<0.5	----	----	----
EP075D: Nitrosamines									
N-Nitrosomethylethylamine	10595-95-6	0.5	mg/kg		----	<0.5	----	----	----
N-Nitrosodiethylamine	55-18-5	0.5	mg/kg		----	<0.5	----	----	----
N-Nitrosopyrrolidine	930-55-2	1.0	mg/kg		----	<1.0	----	----	----
N-Nitrosomorpholine	59-89-2	0.5	mg/kg		----	<0.5	----	----	----
N-Nitrosodi-n-propylamine	621-64-7	0.5	mg/kg		----	<0.5	----	----	----
N-Nitrosopiperidine	100-75-4	0.5	mg/kg		----	<0.5	----	----	----
N-Nitrosodibutylamine	924-16-3	0.5	mg/kg		----	<0.5	----	----	----
N-Nitrosodiphenyl & Diphenylamine	86-30-6 122-39-4	1.0	mg/kg		----	<1.0	----	----	----
Methapyrilene	91-80-5	0.5	mg/kg		----	<0.5	----	----	----
EP075E: Nitroaromatics and Ketones									
2-Picoline	109-06-8	0.5	mg/kg		----	<0.5	----	----	----
Acetophenone	98-86-2	0.5	mg/kg		----	<0.5	----	----	----
Nitrobenzene	98-95-3	0.5	mg/kg		----	<0.5	----	----	----
Isophorone	78-59-1	0.5	mg/kg		----	<0.5	----	----	----
2,6-Dinitrotoluene	606-20-2	1.0	mg/kg		----	<1.0	----	----	----
2,4-Dinitrotoluene	121-14-2	1.0	mg/kg		----	<1.0	----	----	----
1-Naphthylamine	134-32-7	0.5	mg/kg		----	<0.5	----	----	----
4-Nitroquinoline-N-oxide	56-57-5	0.5	mg/kg		----	<0.5	----	----	----
5-Nitro-o-toluidine	99-55-8	0.5	mg/kg		----	<0.5	----	----	----
Azobenzene	103-33-3	1	mg/kg		----	<1	----	----	----
1,3,5-Trinitrobenzene	99-35-4	0.5	mg/kg		----	<0.5	----	----	----
Phenacetin	62-44-2	0.5	mg/kg		----	<0.5	----	----	----
4-Aminobiphenyl	92-67-1	0.5	mg/kg		----	<0.5	----	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP13-0.5	TP13-1.0	TP14-0.1	TP14-0.5	TP14-1.0
Sampling date / time					19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406372-006	EB2406372-007	EB2406372-008	EB2406372-009	EB2406372-010
					Result	Result	Result	Result	Result
EP075E: Nitroaromatics and Ketones - Continued									
Pentachloronitrobenzene	82-68-8	0.5	mg/kg	----	<0.5	----	----	----	----
Pronamide	23950-58-5	0.5	mg/kg	----	<0.5	----	----	----	----
Dimethylaminoazobenzene	60-11-7	0.5	mg/kg	----	<0.5	----	----	----	----
Chlorobenzilate	510-15-6	0.5	mg/kg	----	<0.5	----	----	----	----
EP075F: Haloethers									
Bis(2-chloroethyl) ether	111-44-4	0.5	mg/kg	----	<0.5	----	----	----	----
Bis(2-chloroethoxy) methane	111-91-1	0.5	mg/kg	----	<0.5	----	----	----	----
4-Chlorophenyl phenyl ether	7005-72-3	0.5	mg/kg	----	<0.5	----	----	----	----
4-Bromophenyl phenyl ether	101-55-3	0.5	mg/kg	----	<0.5	----	----	----	----
EP075G: Chlorinated Hydrocarbons									
1,3-Dichlorobenzene	541-73-1	0.5	mg/kg	----	<0.5	----	----	----	----
1,4-Dichlorobenzene	106-46-7	0.5	mg/kg	----	<0.5	----	----	----	----
1,2-Dichlorobenzene	95-50-1	0.5	mg/kg	----	<0.5	----	----	----	----
Hexachloroethane	67-72-1	0.5	mg/kg	----	<0.5	----	----	----	----
1,2,4-Trichlorobenzene	120-82-1	0.5	mg/kg	----	<0.5	----	----	----	----
Hexachloropropylene	1888-71-7	0.5	mg/kg	----	<0.5	----	----	----	----
Hexachlorobutadiene	87-68-3	0.5	mg/kg	----	<0.5	----	----	----	----
Hexachlorocyclopentadiene	77-47-4	2.5	mg/kg	----	<2.5	----	----	----	----
Pentachlorobenzene	608-93-5	0.5	mg/kg	----	<0.5	----	----	----	----
Hexachlorobenzene (HCB)	118-74-1	1.0	mg/kg	----	<1.0	----	----	----	----
EP075H: Anilines and Benzidines									
Aniline	62-53-3	0.5	mg/kg	----	<0.5	----	----	----	----
4-Chloroaniline	106-47-8	0.5	mg/kg	----	<0.5	----	----	----	----
2-Nitroaniline	88-74-4	1.0	mg/kg	----	<1.0	----	----	----	----
3-Nitroaniline	99-09-2	1.0	mg/kg	----	<1.0	----	----	----	----
Dibenzofuran	132-64-9	0.5	mg/kg	----	<0.5	----	----	----	----
4-Nitroaniline	100-01-6	0.5	mg/kg	----	<0.5	----	----	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP13-0.5	TP13-1.0	TP14-0.1	TP14-0.5	TP14-1.0
Sampling date / time					19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406372-006	EB2406372-007	EB2406372-008	EB2406372-009	EB2406372-010
					Result	Result	Result	Result	Result
EP075H: Anilines and Benzidines - Continued									
Carbazole	86-74-8	0.5	mg/kg		----	<0.5	----	----	----
3,3'-Dichlorobenzidine	91-94-1	0.5	mg/kg		----	<0.5	----	----	----
EP075I: Organochlorine Pesticides									
alpha-BHC	319-84-6	0.5	mg/kg		----	<0.5	----	----	----
beta-BHC	319-85-7	0.5	mg/kg		----	<0.5	----	----	----
gamma-BHC	58-89-9	0.5	mg/kg		----	<0.5	----	----	----
delta-BHC	319-86-8	0.5	mg/kg		----	<0.5	----	----	----
Heptachlor	76-44-8	0.5	mg/kg		----	<0.5	----	----	----
Aldrin	309-00-2	0.5	mg/kg		----	<0.5	----	----	----
Heptachlor epoxide	1024-57-3	0.5	mg/kg		----	<0.5	----	----	----
alpha-Endosulfan	959-98-8	0.5	mg/kg		----	<0.5	----	----	----
4,4'-DDE	72-55-9	0.5	mg/kg		----	<0.5	----	----	----
Dieldrin	60-57-1	0.5	mg/kg		----	<0.5	----	----	----
Endrin	72-20-8	0.5	mg/kg		----	<0.5	----	----	----
beta-Endosulfan	33213-65-9	0.5	mg/kg		----	<0.5	----	----	----
4,4'-DDD	72-54-8	0.5	mg/kg		----	<0.5	----	----	----
Endosulfan sulfate	1031-07-8	0.5	mg/kg		----	<0.5	----	----	----
4,4'-DDT	50-29-3	1.0	mg/kg		----	<1.0	----	----	----
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.5	mg/kg		----	<0.5	----	----	----
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.5	mg/kg		----	<0.5	----	----	----
EP075J: Organophosphorus Pesticides									
Dichlorvos	62-73-7	0.5	mg/kg		----	<0.5	----	----	----
Dimethoate	60-51-5	0.5	mg/kg		----	<0.5	----	----	----
Diazinon	333-41-5	0.5	mg/kg		----	<0.5	----	----	----
Chlorpyrifos-methyl	5598-13-0	0.5	mg/kg		----	<0.5	----	----	----
Malathion	121-75-5	0.5	mg/kg		----	<0.5	----	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP13-0.5	TP13-1.0	TP14-0.1	TP14-0.5	TP14-1.0
Sampling date / time					19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406372-006	EB2406372-007	EB2406372-008	EB2406372-009	EB2406372-010
					Result	Result	Result	Result	Result
EP075J: Organophosphorus Pesticides - Continued									
Fenthion	55-38-9	0.5	mg/kg		----	<0.5	----	----	----
Chlorpyrifos	2921-88-2	0.5	mg/kg		----	<0.5	----	----	----
Pirimphos-ethyl	23505-41-1	0.5	mg/kg		----	<0.5	----	----	----
Chlorfenvinphos	470-90-6	0.5	mg/kg		----	<0.5	----	----	----
Prothiofos	34643-46-4	0.5	mg/kg		----	<0.5	----	----	----
Ethion	563-12-2	0.5	mg/kg		----	<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
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg		----	----	<10	<10	<10
[^] C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg		----	----	<10	<10	<10
>C10 - C16 Fraction	----	50	mg/kg		----	----	<50	<50	<50
>C16 - C34 Fraction	----	100	mg/kg		----	----	<100	<100	<100
>C34 - C40 Fraction	----	100	mg/kg		----	----	<100	<100	<100
[^] >C10 - C40 Fraction (sum)	----	50	mg/kg		----	----	<50	<50	<50
[^] >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg		----	----	<50	<50	<50
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg		----	----	<0.2	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg		----	----	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg		----	----	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		----	----	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg		----	----	<0.5	<0.5	<0.5



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP13-0.5	TP13-1.0	TP14-0.1	TP14-0.5	TP14-1.0
Sampling date / time				19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2406372-006	EB2406372-007	EB2406372-008	EB2406372-009	EB2406372-010	
				Result	Result	Result	Result	Result	
EP080: BTEXN - Continued									
^ Sum of BTEX	----	0.2	mg/kg	----	----	<0.2	<0.2	<0.2	
^ Total Xylenes	----	0.5	mg/kg	----	----	<0.5	<0.5	<0.5	
Naphthalene	91-20-3	1	mg/kg	----	----	<1	<1	<1	
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	----	----	<0.0002	----	----	
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	----	----	<0.0002	----	----	
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	----	----	<0.0002	----	----	
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	----	----	<0.001	----	----	
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	----	----	<0.0002	----	----	
Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	----	----	<0.0002	----	----	
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	----	----	<0.0002	----	----	
Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	----	----	<0.0002	----	----	
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	----	----	<0.0005	----	----	
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	----	----	<0.0005	----	----	
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	----	----	<0.0005	----	----	
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	----	----	<0.0005	----	----	
EP231P: PFAS Sums									
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg	----	----	<0.0002	----	----	
Sum of PFAS (WA DER List)	----	0.0002	mg/kg	----	----	<0.0002	----	----	
EP066S: PCB Surrogate									
Decachlorobiphenyl	2051-24-3	0.1	%	----	----	----	124	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP13-0.5	TP13-1.0	TP14-0.1	TP14-0.5	TP14-1.0
Sampling date / time				19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2406372-006	EB2406372-007	EB2406372-008	EB2406372-009	EB2406372-010	
				Result	Result	Result	Result	Result	
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.05	%	----	----	----	106	----	
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.05	%	----	----	----	73.1	----	
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	0.5	%	----	----	----	95.9	----	
2-Chlorophenol-D4	93951-73-6	0.5	%	----	----	----	90.6	----	
2,4,6-Tribromophenol	118-79-6	0.5	%	----	----	----	89.2	----	
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	0.5	%	----	----	----	91.3	----	
Anthracene-d10	1719-06-8	0.5	%	----	----	----	94.0	----	
4-Terphenyl-d14	1718-51-0	0.5	%	----	----	----	111	----	
EP075S: Acid Extractable Surrogates									
2-Fluorophenol	367-12-4	0.5	%	----	104	----	----	----	
Phenol-d6	13127-88-3	0.5	%	----	83.6	----	----	----	
2-Chlorophenol-D4	93951-73-6	0.5	%	----	88.5	----	----	----	
2,4,6-Tribromophenol	118-79-6	0.5	%	----	88.3	----	----	----	
EP075T: Base/Neutral Extractable Surrogates									
Nitrobenzene-D5	4165-60-0	0.5	%	----	98.3	----	----	----	
1,2-Dichlorobenzene-D4	2199-69-1	0.5	%	----	69.5	----	----	----	
2-Fluorobiphenyl	321-60-8	0.5	%	----	98.9	----	----	----	
Anthracene-d10	1719-06-8	0.5	%	----	92.3	----	----	----	
4-Terphenyl-d14	1718-51-0	0.5	%	----	96.8	----	----	----	
EP080S: TPH(V)/BTEX Surrogates									
1,2-Dichloroethane-D4	17060-07-0	0.2	%	----	----	103	107	99.2	
Toluene-D8	2037-26-5	0.2	%	----	----	93.9	91.6	89.6	
4-Bromofluorobenzene	460-00-4	0.2	%	----	----	99.6	101	98.1	
EP231S: PFAS Surrogate									



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP13-0.5	TP13-1.0	TP14-0.1	TP14-0.5	TP14-1.0
Sampling date / time				19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00
Compound	CAS Number	LOR	Unit	EB2406372-006	EB2406372-007	EB2406372-008	EB2406372-009	EB2406372-010	EB2406372-010
				Result	Result	Result	Result	Result	Result
EP231S: PFAS Surrogate - Continued									
13C4-PFOS	----	0.0002	%	----	----	105	----	----	----
13C8-PFOA	----	0.0002	%	----	----	95.0	----	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP14-2.0	TP14-3.3	TP15-0.1	TP15-0.5	TP15-1.0
Sampling date / time				19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2406372-011	EB2406372-012	EB2406372-013	EB2406372-014	EB2406372-015	
				Result	Result	Result	Result	Result	
EA055: Moisture Content									
Moisture Content	----	1.0	%	----	18.9	----	15.4	----	
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	0.1	%	----	----	14.0	----	----	
Moisture Content	----	1.0	%	17.4	----	----	----	18.4	
EA200: AS 4964 - 2004 Identification of Asbestos in Soils									
Asbestos Detected	1332-21-4	0.1	g/kg	----	----	No	No	----	
Asbestos (Trace)	1332-21-4	-	-	----	----	No	No	----	
Asbestos Type	1332-21-4	-	--	----	----	-	-	----	
Sample weight (dry)	----	0.01	g	----	----	5.80	3.40	----	
APPROVED IDENTIFIER:	----	-	--	----	----	M. TRAN	M. TRAN	----	
Synthetic Mineral Fibre	----	-	--	----	----	No	No	----	
Organic Fibre	----	-	--	----	----	Yes	Yes	----	
EG005(ED093)T: Total Metals by ICP-AES									
Arsenic	7440-38-2	5	mg/kg	<5	5	----	<5	<5	
Cadmium	7440-43-9	1	mg/kg	<1	<1	----	<1	<1	
Chromium	7440-47-3	2	mg/kg	51	54	----	26	38	
Copper	7440-50-8	5	mg/kg	<5	<5	----	<5	<5	
Lead	7439-92-1	5	mg/kg	7	7	----	5	6	
Nickel	7440-02-0	2	mg/kg	2	<2	----	2	3	
Zinc	7440-66-6	5	mg/kg	8	<5	----	<5	<5	
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.1	mg/kg	0.1	<0.1	----	<0.1	<0.1	
EP066: Polychlorinated Biphenyls (PCB)									
Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	----	----	----	----	
EP068A: Organochlorine Pesticides (OC)									
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	----	----	----	----	
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	----	----	----	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP14-2.0	TP14-3.3	TP15-0.1	TP15-0.5	TP15-1.0
Sampling date / time					19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406372-011	EB2406372-012	EB2406372-013	EB2406372-014	EB2406372-015
					Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued									
beta-BHC	319-85-7	0.05	mg/kg		<0.05	----	----	----	----
gamma-BHC	58-89-9	0.05	mg/kg		<0.05	----	----	----	----
delta-BHC	319-86-8	0.05	mg/kg		<0.05	----	----	----	----
Heptachlor	76-44-8	0.05	mg/kg		<0.05	----	----	----	----
Aldrin	309-00-2	0.05	mg/kg		<0.05	----	----	----	----
Heptachlor epoxide	1024-57-3	0.05	mg/kg		<0.05	----	----	----	----
^ Total Chlordane (sum)	----	0.05	mg/kg		<0.05	----	----	----	----
trans-Chlordane	5103-74-2	0.05	mg/kg		<0.05	----	----	----	----
alpha-Endosulfan	959-98-8	0.05	mg/kg		<0.05	----	----	----	----
cis-Chlordane	5103-71-9	0.05	mg/kg		<0.05	----	----	----	----
Dieldrin	60-57-1	0.05	mg/kg		<0.05	----	----	----	----
4.4'-DDE	72-55-9	0.05	mg/kg		<0.05	----	----	----	----
Endrin	72-20-8	0.05	mg/kg		<0.05	----	----	----	----
beta-Endosulfan	33213-65-9	0.05	mg/kg		<0.05	----	----	----	----
^ Endosulfan (sum)	115-29-7	0.05	mg/kg		<0.05	----	----	----	----
4.4'-DDD	72-54-8	0.05	mg/kg		<0.05	----	----	----	----
Endrin aldehyde	7421-93-4	0.05	mg/kg		<0.05	----	----	----	----
Endosulfan sulfate	1031-07-8	0.05	mg/kg		<0.05	----	----	----	----
4.4'-DDT	50-29-3	0.2	mg/kg		<0.2	----	----	----	----
Endrin ketone	53494-70-5	0.05	mg/kg		<0.05	----	----	----	----
Methoxychlor	72-43-5	0.2	mg/kg		<0.2	----	----	----	----
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg		<0.05	----	----	----	----
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-29-3	0.05	mg/kg		<0.05	----	----	----	----
EP068B: Organophosphorus Pesticides (OP)									
Dichlorvos	62-73-7	0.05	mg/kg		<0.05	----	----	----	----
Demeton-S-methyl	919-86-8	0.05	mg/kg		<0.05	----	----	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP14-2.0	TP14-3.3	TP15-0.1	TP15-0.5	TP15-1.0
Sampling date / time					19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406372-011	EB2406372-012	EB2406372-013	EB2406372-014	EB2406372-015
					Result	Result	Result	Result	Result
EP068B: Organophosphorus Pesticides (OP) - Continued									
Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	----	----	----	----	----
Dimethoate	60-51-5	0.05	mg/kg	<0.05	----	----	----	----	----
Diazinon	333-41-5	0.05	mg/kg	<0.05	----	----	----	----	----
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	----	----	----	----	----
Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	----	----	----	----	----
Malathion	121-75-5	0.05	mg/kg	<0.05	----	----	----	----	----
Fenthion	55-38-9	0.05	mg/kg	<0.05	----	----	----	----	----
Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	----	----	----	----	----
Parathion	56-38-2	0.2	mg/kg	<0.2	----	----	----	----	----
Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	----	----	----	----	----
Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	----	----	----	----	----
Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	----	----	----	----	----
Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	----	----	----	----	----
Prothiofos	34643-46-4	0.05	mg/kg	<0.05	----	----	----	----	----
Ethion	563-12-2	0.05	mg/kg	<0.05	----	----	----	----	----
Carbophenothion	786-19-6	0.05	mg/kg	<0.05	----	----	----	----	----
Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	----	----	----	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	0.5	mg/kg	<0.5	----	----	----	----	----
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	----	----	----	----	----
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	----	----	----	----	----
Fluorene	86-73-7	0.5	mg/kg	<0.5	----	----	----	----	----
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	----	----	----	----	----
Anthracene	120-12-7	0.5	mg/kg	<0.5	----	----	----	----	----
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	----	----	----	----	----
Pyrene	129-00-0	0.5	mg/kg	<0.5	----	----	----	----	----
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	----	----	----	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP14-2.0	TP14-3.3	TP15-0.1	TP15-0.5	TP15-1.0
Sampling date / time					19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406372-011	EB2406372-012	EB2406372-013	EB2406372-014	EB2406372-015
					Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued									
Chrysene	218-01-9	0.5	mg/kg		<0.5	----	----	----	----
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg		<0.5	----	----	----	----
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg		<0.5	----	----	----	----
Benzo(a)pyrene	50-32-8	0.5	mg/kg		<0.5	----	----	----	----
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg		<0.5	----	----	----	----
Dibenz(a,h)anthracene	53-70-3	0.5	mg/kg		<0.5	----	----	----	----
Benzo(g,h,i)perylene	191-24-2	0.5	mg/kg		<0.5	----	----	----	----
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg		<0.5	----	----	----	----
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg		<0.5	----	----	----	----
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg		0.6	----	----	----	----
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg		1.2	----	----	----	----
EP075A: Phenolic Compounds									
Phenol	108-95-2	0.5	mg/kg		----	----	<0.5	<0.5	----
2-Chlorophenol	95-57-8	0.5	mg/kg		----	----	<0.5	<0.5	----
2-Methylphenol	95-48-7	0.5	mg/kg		----	----	<0.5	<0.5	----
3- & 4-Methylphenol	1319-77-3	0.5	mg/kg		----	----	<0.5	<0.5	----
2-Nitrophenol	88-75-5	0.5	mg/kg		----	----	<0.5	<0.5	----
2,4-Dimethylphenol	105-67-9	0.5	mg/kg		----	----	<0.5	<0.5	----
2,4-Dichlorophenol	120-83-2	0.5	mg/kg		----	----	<0.5	<0.5	----
2,6-Dichlorophenol	87-65-0	0.5	mg/kg		----	----	<0.5	<0.5	----
4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg		----	----	<0.5	<0.5	----
2,4,6-Trichlorophenol	88-06-2	0.5	mg/kg		----	----	<0.5	<0.5	----
2,4,5-Trichlorophenol	95-95-4	0.5	mg/kg		----	----	<0.5	<0.5	----
Pentachlorophenol	87-86-5	1	mg/kg		----	----	<1	<1	----
EP075B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	0.5	mg/kg		----	----	<0.5	<0.5	----
2-Methylnaphthalene	91-57-6	0.5	mg/kg		----	----	<0.5	<0.5	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP14-2.0	TP14-3.3	TP15-0.1	TP15-0.5	TP15-1.0
Sampling date / time					19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00
Compound	CAS Number	LOR	Unit	EB2406372-011	EB2406372-012	EB2406372-013	EB2406372-014	EB2406372-015	
				Result	Result	Result	Result	Result	
EP075B: Polynuclear Aromatic Hydrocarbons - Continued									
2-Chloronaphthalene	91-58-7	0.5	mg/kg	----	----	<0.5	<0.5	----	
Acenaphthylene	208-96-8	0.5	mg/kg	----	----	<0.5	<0.5	----	
Acenaphthene	83-32-9	0.5	mg/kg	----	----	<0.5	<0.5	----	
Fluorene	86-73-7	0.5	mg/kg	----	----	<0.5	<0.5	----	
Phenanthrene	85-01-8	0.5	mg/kg	----	----	<0.5	<0.5	----	
Anthracene	120-12-7	0.5	mg/kg	----	----	<0.5	<0.5	----	
Fluoranthene	206-44-0	0.5	mg/kg	----	----	<0.5	<0.5	----	
Pyrene	129-00-0	0.5	mg/kg	----	----	<0.5	<0.5	----	
N-2-Fluorenyl Acetamide	53-96-3	0.5	mg/kg	----	----	<0.5	<0.5	----	
Benzo(a)anthracene	56-55-3	0.5	mg/kg	----	----	<0.5	<0.5	----	
Chrysene	218-01-9	0.5	mg/kg	----	----	<0.5	<0.5	----	
Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1	mg/kg	----	----	<1	<1	----	
7.12-Dimethylbenz(a)anthracene	57-97-6	0.5	mg/kg	----	----	<0.5	<0.5	----	
Benzo(a)pyrene	50-32-8	0.5	mg/kg	----	----	<0.5	<0.5	----	
3-Methylcholanthrene	56-49-5	0.5	mg/kg	----	----	<0.5	<0.5	----	
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	----	----	<0.5	<0.5	----	
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	----	----	<0.5	<0.5	----	
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	----	----	<0.5	<0.5	----	
^ Sum of PAHs	----	0.5	mg/kg	----	----	<0.5	<0.5	----	
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	----	----	<0.5	<0.5	----	
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	----	----	0.6	0.6	----	
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	----	----	1.2	1.2	----	
EP075C: Phthalate Esters									
Dimethyl phthalate	131-11-3	0.5	mg/kg	----	----	<0.5	<0.5	----	
Diethyl phthalate	84-66-2	0.5	mg/kg	----	----	<0.5	<0.5	----	
Di-n-butyl phthalate	84-74-2	0.5	mg/kg	----	----	<0.5	<0.5	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP14-2.0	TP14-3.3	TP15-0.1	TP15-0.5	TP15-1.0
Sampling date / time					19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406372-011	EB2406372-012	EB2406372-013	EB2406372-014	EB2406372-015
					Result	Result	Result	Result	Result
EP075C: Phthalate Esters - Continued									
Butyl benzyl phthalate	85-68-7	0.5	mg/kg		----	----	<0.5	<0.5	----
bis(2-ethylhexyl) phthalate	117-81-7	5.0	mg/kg		----	----	<5.0	<5.0	----
Di-n-octylphthalate	117-84-0	0.5	mg/kg		----	----	<0.5	<0.5	----
EP075D: Nitrosamines									
N-Nitrosomethylethylamine	10595-95-6	0.5	mg/kg		----	----	<0.5	<0.5	----
N-Nitrosodiethylamine	55-18-5	0.5	mg/kg		----	----	<0.5	<0.5	----
N-Nitrosopyrrolidine	930-55-2	1.0	mg/kg		----	----	<1.0	<1.0	----
N-Nitrosomorpholine	59-89-2	0.5	mg/kg		----	----	<0.5	<0.5	----
N-Nitrosodi-n-propylamine	621-64-7	0.5	mg/kg		----	----	<0.5	<0.5	----
N-Nitrosopiperidine	100-75-4	0.5	mg/kg		----	----	<0.5	<0.5	----
N-Nitrosodibutylamine	924-16-3	0.5	mg/kg		----	----	<0.5	<0.5	----
N-Nitrosodiphenyl & Diphenylamine	86-30-6 122-39-4	1.0	mg/kg		----	----	<1.0	<1.0	----
Methapyrilene	91-80-5	0.5	mg/kg		----	----	<0.5	<0.5	----
EP075E: Nitroaromatics and Ketones									
2-Picoline	109-06-8	0.5	mg/kg		----	----	<0.5	<0.5	----
Acetophenone	98-86-2	0.5	mg/kg		----	----	<0.5	<0.5	----
Nitrobenzene	98-95-3	0.5	mg/kg		----	----	<0.5	<0.5	----
Isophorone	78-59-1	0.5	mg/kg		----	----	<0.5	<0.5	----
2,6-Dinitrotoluene	606-20-2	1.0	mg/kg		----	----	<1.0	<1.0	----
2,4-Dinitrotoluene	121-14-2	1.0	mg/kg		----	----	<1.0	<1.0	----
1-Naphthylamine	134-32-7	0.5	mg/kg		----	----	<0.5	<0.5	----
4-Nitroquinoline-N-oxide	56-57-5	0.5	mg/kg		----	----	<0.5	<0.5	----
5-Nitro-o-toluidine	99-55-8	0.5	mg/kg		----	----	<0.5	<0.5	----
Azobenzene	103-33-3	1	mg/kg		----	----	<1	<1	----
1,3,5-Trinitrobenzene	99-35-4	0.5	mg/kg		----	----	<0.5	<0.5	----
Phenacetin	62-44-2	0.5	mg/kg		----	----	<0.5	<0.5	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP14-2.0	TP14-3.3	TP15-0.1	TP15-0.5	TP15-1.0
Sampling date / time					19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00
Compound	CAS Number	LOR	Unit	EB2406372-011	EB2406372-012	EB2406372-013	EB2406372-014	EB2406372-015	
				Result	Result	Result	Result	Result	
EP075E: Nitroaromatics and Ketones - Continued									
4-Aminobiphenyl	92-67-1	0.5	mg/kg	----	----	<0.5	<0.5	----	
Pentachloronitrobenzene	82-68-8	0.5	mg/kg	----	----	<0.5	<0.5	----	
Pronamide	23950-58-5	0.5	mg/kg	----	----	<0.5	<0.5	----	
Dimethylaminoazobenzene	60-11-7	0.5	mg/kg	----	----	<0.5	<0.5	----	
Chlorobenzilate	510-15-6	0.5	mg/kg	----	----	<0.5	<0.5	----	
EP075F: Haloethers									
Bis(2-chloroethyl) ether	111-44-4	0.5	mg/kg	----	----	<0.5	<0.5	----	
Bis(2-chloroethoxy) methane	111-91-1	0.5	mg/kg	----	----	<0.5	<0.5	----	
4-Chlorophenyl phenyl ether	7005-72-3	0.5	mg/kg	----	----	<0.5	<0.5	----	
4-Bromophenyl phenyl ether	101-55-3	0.5	mg/kg	----	----	<0.5	<0.5	----	
EP075G: Chlorinated Hydrocarbons									
1,3-Dichlorobenzene	541-73-1	0.5	mg/kg	----	----	<0.5	<0.5	----	
1,4-Dichlorobenzene	106-46-7	0.5	mg/kg	----	----	<0.5	<0.5	----	
1,2-Dichlorobenzene	95-50-1	0.5	mg/kg	----	----	<0.5	<0.5	----	
Hexachloroethane	67-72-1	0.5	mg/kg	----	----	<0.5	<0.5	----	
1,2,4-Trichlorobenzene	120-82-1	0.5	mg/kg	----	----	<0.5	<0.5	----	
Hexachloropropylene	1888-71-7	0.5	mg/kg	----	----	<0.5	<0.5	----	
Hexachlorobutadiene	87-68-3	0.5	mg/kg	----	----	<0.5	<0.5	----	
Hexachlorocyclopentadiene	77-47-4	2.5	mg/kg	----	----	<2.5	<2.5	----	
Pentachlorobenzene	608-93-5	0.5	mg/kg	----	----	<0.5	<0.5	----	
Hexachlorobenzene (HCB)	118-74-1	1.0	mg/kg	----	----	<1.0	<1.0	----	
EP075H: Anilines and Benzidines									
Aniline	62-53-3	0.5	mg/kg	----	----	<0.5	<0.5	----	
4-Chloroaniline	106-47-8	0.5	mg/kg	----	----	<0.5	<0.5	----	
2-Nitroaniline	88-74-4	1.0	mg/kg	----	----	<1.0	<1.0	----	
3-Nitroaniline	99-09-2	1.0	mg/kg	----	----	<1.0	<1.0	----	
Dibenzofuran	132-64-9	0.5	mg/kg	----	----	<0.5	<0.5	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP14-2.0	TP14-3.3	TP15-0.1	TP15-0.5	TP15-1.0
Sampling date / time				19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2406372-011	EB2406372-012	EB2406372-013	EB2406372-014	EB2406372-015	
				Result	Result	Result	Result	Result	
EP075H: Anilines and Benzidines - Continued									
4-Nitroaniline	100-01-6	0.5	mg/kg	----	----	<0.5	<0.5	----	
Carbazole	86-74-8	0.5	mg/kg	----	----	<0.5	<0.5	----	
3,3'-Dichlorobenzidine	91-94-1	0.5	mg/kg	----	----	<0.5	<0.5	----	
EP075I: Organochlorine Pesticides									
alpha-BHC	319-84-6	0.5	mg/kg	----	----	<0.5	<0.5	----	
beta-BHC	319-85-7	0.5	mg/kg	----	----	<0.5	<0.5	----	
gamma-BHC	58-89-9	0.5	mg/kg	----	----	<0.5	<0.5	----	
delta-BHC	319-86-8	0.5	mg/kg	----	----	<0.5	<0.5	----	
Heptachlor	76-44-8	0.5	mg/kg	----	----	<0.5	<0.5	----	
Aldrin	309-00-2	0.5	mg/kg	----	----	<0.5	<0.5	----	
Heptachlor epoxide	1024-57-3	0.5	mg/kg	----	----	<0.5	<0.5	----	
alpha-Endosulfan	959-98-8	0.5	mg/kg	----	----	<0.5	<0.5	----	
4,4'-DDE	72-55-9	0.5	mg/kg	----	----	<0.5	<0.5	----	
Dieldrin	60-57-1	0.5	mg/kg	----	----	<0.5	<0.5	----	
Endrin	72-20-8	0.5	mg/kg	----	----	<0.5	<0.5	----	
beta-Endosulfan	33213-65-9	0.5	mg/kg	----	----	<0.5	<0.5	----	
4,4'-DDD	72-54-8	0.5	mg/kg	----	----	<0.5	<0.5	----	
Endosulfan sulfate	1031-07-8	0.5	mg/kg	----	----	<0.5	<0.5	----	
4,4'-DDT	50-29-3	1.0	mg/kg	----	----	<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	----	
[^] Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.5	mg/kg	----	----	<0.5	<0.5	----	
EP075J: Organophosphorus Pesticides									
Dichlorvos	62-73-7	0.5	mg/kg	----	----	<0.5	<0.5	----	
Dimethoate	60-51-5	0.5	mg/kg	----	----	<0.5	<0.5	----	
Diazinon	333-41-5	0.5	mg/kg	----	----	<0.5	<0.5	----	
Chlorpyrifos-methyl	5598-13-0	0.5	mg/kg	----	----	<0.5	<0.5	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP14-2.0	TP14-3.3	TP15-0.1	TP15-0.5	TP15-1.0
Sampling date / time					19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406372-011	EB2406372-012	EB2406372-013	EB2406372-014	EB2406372-015
					Result	Result	Result	Result	Result
EP075J: Organophosphorus Pesticides - Continued									
Malathion	121-75-5	0.5	mg/kg		----	----	<0.5	<0.5	----
Fenthion	55-38-9	0.5	mg/kg		----	----	<0.5	<0.5	----
Chlorpyrifos	2921-88-2	0.5	mg/kg		----	----	<0.5	<0.5	----
Pirimphos-ethyl	23505-41-1	0.5	mg/kg		----	----	<0.5	<0.5	----
Chlorfenvinphos	470-90-6	0.5	mg/kg		----	----	<0.5	<0.5	----
Prothiofos	34643-46-4	0.5	mg/kg		----	----	<0.5	<0.5	----
Ethion	563-12-2	0.5	mg/kg		----	----	<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	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg		<10	<10	----	<10	----
[^] C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg		<10	<10	----	<10	----
>C10 - C16 Fraction	----	50	mg/kg		<50	<50	----	<50	----
>C16 - C34 Fraction	----	100	mg/kg		<100	<100	----	<100	----
>C34 - C40 Fraction	----	100	mg/kg		<100	<100	----	<100	----
[^] >C10 - C40 Fraction (sum)	----	50	mg/kg		<50	<50	----	<50	----
[^] >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg		<50	<50	----	<50	----
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg		<0.2	<0.2	----	<0.2	----
Toluene	108-88-3	0.5	mg/kg		<0.5	<0.5	----	<0.5	----
Ethylbenzene	100-41-4	0.5	mg/kg		<0.5	<0.5	----	<0.5	----
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		<0.5	<0.5	----	<0.5	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP14-2.0	TP14-3.3	TP15-0.1	TP15-0.5	TP15-1.0
Sampling date / time					19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406372-011	EB2406372-012	EB2406372-013	EB2406372-014	EB2406372-015
					Result	Result	Result	Result	Result
EP080: BTEXN - Continued									
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	----
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg		<0.0002	----	<0.0002	<0.0002	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg		<0.0002	----	<0.0002	<0.0002	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg		<0.0002	----	<0.0002	<0.0002	----
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg		<0.001	----	<0.001	<0.001	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg		<0.0002	----	<0.0002	<0.0002	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg		<0.0002	----	<0.0002	<0.0002	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg		<0.0002	----	<0.0002	<0.0002	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg		<0.0002	----	<0.0002	<0.0002	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg		<0.0005	----	<0.0005	<0.0005	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg		<0.0005	----	<0.0005	<0.0005	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg		<0.0005	----	<0.0005	<0.0005	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg		<0.0005	----	<0.0005	<0.0005	----
EP231P: PFAS Sums									
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg		<0.0002	----	<0.0002	<0.0002	----
Sum of PFAS (WA DER List)	----	0.0002	mg/kg		<0.0002	----	<0.0002	<0.0002	----
EP066S: PCB Surrogate									



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP14-2.0	TP14-3.3	TP15-0.1	TP15-0.5	TP15-1.0
Sampling date / time					19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406372-011	EB2406372-012	EB2406372-013	EB2406372-014	EB2406372-015
					Result	Result	Result	Result	Result
EP066S: PCB Surrogate - Continued									
Decachlorobiphenyl	2051-24-3	0.1	%		120	----	----	----	----
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.05	%		103	----	----	----	----
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.05	%		67.5	----	----	----	----
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	0.5	%		98.4	----	----	----	----
2-Chlorophenol-D4	93951-73-6	0.5	%		95.3	----	----	----	----
2.4.6-Tribromophenol	118-79-6	0.5	%		69.8	----	----	----	----
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	0.5	%		99.0	----	----	----	----
Anthracene-d10	1719-06-8	0.5	%		87.4	----	----	----	----
4-Terphenyl-d14	1718-51-0	0.5	%		112	----	----	----	----
EP075S: Acid Extractable Surrogates									
2-Fluorophenol	367-12-4	0.5	%		----	----	100	104	----
Phenol-d6	13127-88-3	0.5	%		----	----	84.2	87.2	----
2-Chlorophenol-D4	93951-73-6	0.5	%		----	----	86.8	88.2	----
2.4.6-Tribromophenol	118-79-6	0.5	%		----	----	88.2	90.6	----
EP075T: Base/Neutral Extractable Surrogates									
Nitrobenzene-D5	4165-60-0	0.5	%		----	----	98.4	98.4	----
1.2-Dichlorobenzene-D4	2199-69-1	0.5	%		----	----	75.8	67.6	----
2-Fluorobiphenyl	321-60-8	0.5	%		----	----	99.6	100	----
Anthracene-d10	1719-06-8	0.5	%		----	----	90.8	90.4	----
4-Terphenyl-d14	1718-51-0	0.5	%		----	----	103	102	----
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	0.2	%		89.7	93.7	----	98.6	----
Toluene-D8	2037-26-5	0.2	%		85.8	80.3	----	90.8	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP14-2.0	TP14-3.3	TP15-0.1	TP15-0.5	TP15-1.0
Sampling date / time				19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00
Compound	CAS Number	LOR	Unit	EB2406372-011	EB2406372-012	EB2406372-013	EB2406372-014	EB2406372-015	
				Result	Result	Result	Result	Result	
EP080S: TPH(V)/BTEX Surrogates - Continued									
4-Bromofluorobenzene	460-00-4	0.2	%	92.9	88.5	----	102	----	
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.0002	%	102	----	106	103	----	
13C8-PFOA	----	0.0002	%	99.0	----	112	102	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP15-2.0	TP16-0.1	TP16-0.5	TP16-1.0	TP17-0.1
Sampling date / time				19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2406372-016	EB2406372-017	EB2406372-018	EB2406372-019	EB2406372-020	
				Result	Result	Result	Result	Result	
EA055: Moisture Content									
Moisture Content	----	1.0	%	17.0	----	----	----	----	----
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	1.0	%	----	17.1	15.0	16.7	14.4	
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	33	29	48	41	19	
Copper	7440-50-8	5	mg/kg	<5	<5	<5	<5	<5	
Lead	7439-92-1	5	mg/kg	6	7	7	6	15	
Nickel	7440-02-0	2	mg/kg	<2	3	3	3	2	
Zinc	7440-66-6	5	mg/kg	<5	8	<5	<5	44	
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	10	mg/kg	<10	----	----	----	----	
C10 - C14 Fraction	----	50	mg/kg	<50	----	----	----	----	
C15 - C28 Fraction	----	100	mg/kg	<100	----	----	----	----	
C29 - C36 Fraction	----	100	mg/kg	<100	----	----	----	----	
^ C10 - C36 Fraction (sum)	----	50	mg/kg	<50	----	----	----	----	
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg	<10	----	----	----	----	
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<10	----	----	----	----	
>C10 - C16 Fraction	----	50	mg/kg	<50	----	----	----	----	
>C16 - C34 Fraction	----	100	mg/kg	<100	----	----	----	----	
>C34 - C40 Fraction	----	100	mg/kg	<100	----	----	----	----	
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	----	----	----	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP15-2.0	TP16-0.1	TP16-0.5	TP16-1.0	TP17-0.1
Sampling date / time					19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406372-016	EB2406372-017	EB2406372-018	EB2406372-019	EB2406372-020
					Result	Result	Result	Result	Result
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions - Continued									
[^] >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg		<50	----	----	----	----
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg		<0.2	----	----	----	----
Toluene	108-88-3	0.5	mg/kg		<0.5	----	----	----	----
Ethylbenzene	100-41-4	0.5	mg/kg		<0.5	----	----	----	----
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		<0.5	----	----	----	----
ortho-Xylene	95-47-6	0.5	mg/kg		<0.5	----	----	----	----
[^] Sum of BTEX	----	0.2	mg/kg		<0.2	----	----	----	----
[^] Total Xylenes	----	0.5	mg/kg		<0.5	----	----	----	----
Naphthalene	91-20-3	1	mg/kg		<1	----	----	----	----
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg		----	<0.0002	----	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg		----	<0.0002	----	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg		----	<0.0002	----	----	----
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg		----	<0.001	----	----	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg		----	<0.0002	----	----	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg		----	<0.0002	----	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg		----	<0.0002	----	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg		----	<0.0002	----	----	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg		----	<0.0005	----	----	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg		----	<0.0005	----	----	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg		----	<0.0005	----	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP15-2.0	TP16-0.1	TP16-0.5	TP16-1.0	TP17-0.1
Sampling date / time				19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2406372-016	EB2406372-017	EB2406372-018	EB2406372-019	EB2406372-020	
				Result	Result	Result	Result	Result	
EP231D: (n:2) Fluorotelomer Sulfonic Acids - Continued									
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	----	<0.0005	----	----	----	
EP231P: PFAS Sums									
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg	----	<0.0002	----	----	----	
Sum of PFAS (WA DER List)	----	0.0002	mg/kg	----	<0.0002	----	----	----	
EP080S: TPH(V)/BTEX Surrogates									
1,2-Dichloroethane-D4	17060-07-0	0.2	%	95.5	----	----	----	----	
Toluene-D8	2037-26-5	0.2	%	86.2	----	----	----	----	
4-Bromofluorobenzene	460-00-4	0.2	%	90.5	----	----	----	----	
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.0002	%	----	98.5	----	----	----	
13C8-PFOA	----	0.0002	%	----	98.0	----	----	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP17-0.5	TP18-0.1	TP18-0.5	TP18-1.0	TP19-0.1
Sampling date / time				19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2406372-021	EB2406372-023	EB2406372-024	EB2406372-025	EB2406372-026	
				Result	Result	Result	Result	Result	
EA055: Moisture Content									
Moisture Content	----	1.0	%	14.3	----	----	----	----	----
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	0.1	%	----	----	13.9	----	----	----
Moisture Content	----	1.0	%	----	15.4	----	16.7	17.6	----
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	20	9	----	36	8	----
Copper	7440-50-8	5	mg/kg	<5	5	----	<5	<5	<5
Lead	7439-92-1	5	mg/kg	7	9	----	6	9	----
Nickel	7440-02-0	2	mg/kg	<2	2	----	2	<2	<2
Zinc	7440-66-6	5	mg/kg	<5	77	----	<5	17	<5
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.1	mg/kg	<0.1	0.1	----	<0.1	<0.1	<0.1
EP075A: Phenolic Compounds									
Phenol	108-95-2	0.5	mg/kg	----	----	<0.5	----	----	----
2-Chlorophenol	95-57-8	0.5	mg/kg	----	----	<0.5	----	----	----
2-Methylphenol	95-48-7	0.5	mg/kg	----	----	<0.5	----	----	----
3- & 4-Methylphenol	1319-77-3	0.5	mg/kg	----	----	<0.5	----	----	----
2-Nitrophenol	88-75-5	0.5	mg/kg	----	----	<0.5	----	----	----
2,4-Dimethylphenol	105-67-9	0.5	mg/kg	----	----	<0.5	----	----	----
2,4-Dichlorophenol	120-83-2	0.5	mg/kg	----	----	<0.5	----	----	----
2,6-Dichlorophenol	87-65-0	0.5	mg/kg	----	----	<0.5	----	----	----
4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg	----	----	<0.5	----	----	----
2,4,6-Trichlorophenol	88-06-2	0.5	mg/kg	----	----	<0.5	----	----	----
2,4,5-Trichlorophenol	95-95-4	0.5	mg/kg	----	----	<0.5	----	----	----
Pentachlorophenol	87-86-5	1	mg/kg	----	----	<1	----	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP17-0.5	TP18-0.1	TP18-0.5	TP18-1.0	TP19-0.1
Sampling date / time				19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2406372-021	EB2406372-023	EB2406372-024	EB2406372-025	EB2406372-026	
				Result	Result	Result	Result	Result	
EP075B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	0.5	mg/kg	----	----	<0.5	----	----	
2-Methylnaphthalene	91-57-6	0.5	mg/kg	----	----	<0.5	----	----	
2-Chloronaphthalene	91-58-7	0.5	mg/kg	----	----	<0.5	----	----	
Acenaphthylene	208-96-8	0.5	mg/kg	----	----	<0.5	----	----	
Acenaphthene	83-32-9	0.5	mg/kg	----	----	<0.5	----	----	
Fluorene	86-73-7	0.5	mg/kg	----	----	<0.5	----	----	
Phenanthrene	85-01-8	0.5	mg/kg	----	----	<0.5	----	----	
Anthracene	120-12-7	0.5	mg/kg	----	----	<0.5	----	----	
Fluoranthene	206-44-0	0.5	mg/kg	----	----	<0.5	----	----	
Pyrene	129-00-0	0.5	mg/kg	----	----	<0.5	----	----	
N-2-Fluorenyl Acetamide	53-96-3	0.5	mg/kg	----	----	<0.5	----	----	
Benz(a)anthracene	56-55-3	0.5	mg/kg	----	----	<0.5	----	----	
Chrysene	218-01-9	0.5	mg/kg	----	----	<0.5	----	----	
Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1	mg/kg	----	----	<1	----	----	
7.12-Dimethylbenz(a)anthracene	57-97-6	0.5	mg/kg	----	----	<0.5	----	----	
Benzo(a)pyrene	50-32-8	0.5	mg/kg	----	----	<0.5	----	----	
3-Methylcholanthrene	56-49-5	0.5	mg/kg	----	----	<0.5	----	----	
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	----	----	<0.5	----	----	
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	----	----	<0.5	----	----	
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	----	----	<0.5	----	----	
^ Sum of PAHs	----	0.5	mg/kg	----	----	<0.5	----	----	
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	----	----	<0.5	----	----	
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	----	----	0.6	----	----	
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	----	----	1.2	----	----	
EP075C: Phthalate Esters									
Dimethyl phthalate	131-11-3	0.5	mg/kg	----	----	<0.5	----	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP17-0.5	TP18-0.1	TP18-0.5	TP18-1.0	TP19-0.1
Sampling date / time				19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2406372-021	EB2406372-023	EB2406372-024	EB2406372-025	EB2406372-026	
				Result	Result	Result	Result	Result	
EP075C: Phthalate Esters - Continued									
Diethyl phthalate	84-66-2	0.5	mg/kg	----	----	<0.5	----	----	
Di-n-butyl phthalate	84-74-2	0.5	mg/kg	----	----	<0.5	----	----	
Butyl benzyl phthalate	85-68-7	0.5	mg/kg	----	----	<0.5	----	----	
bis(2-ethylhexyl) phthalate	117-81-7	5.0	mg/kg	----	----	<5.0	----	----	
Di-n-octylphthalate	117-84-0	0.5	mg/kg	----	----	<0.5	----	----	
EP075D: Nitrosamines									
N-Nitrosomethylethylamine	10595-95-6	0.5	mg/kg	----	----	<0.5	----	----	
N-Nitrosodiethylamine	55-18-5	0.5	mg/kg	----	----	<0.5	----	----	
N-Nitrosopyrrolidine	930-55-2	1.0	mg/kg	----	----	<1.0	----	----	
N-Nitrosomorpholine	59-89-2	0.5	mg/kg	----	----	<0.5	----	----	
N-Nitrosodi-n-propylamine	621-64-7	0.5	mg/kg	----	----	<0.5	----	----	
N-Nitrosopiperidine	100-75-4	0.5	mg/kg	----	----	<0.5	----	----	
N-Nitrosodibutylamine	924-16-3	0.5	mg/kg	----	----	<0.5	----	----	
N-Nitrosodiphenyl & Diphenylamine	86-30-6 122-39-4	1.0	mg/kg	----	----	<1.0	----	----	
Methapyrilene	91-80-5	0.5	mg/kg	----	----	<0.5	----	----	
EP075E: Nitroaromatics and Ketones									
2-Picoline	109-06-8	0.5	mg/kg	----	----	<0.5	----	----	
Acetophenone	98-86-2	0.5	mg/kg	----	----	<0.5	----	----	
Nitrobenzene	98-95-3	0.5	mg/kg	----	----	<0.5	----	----	
Isophorone	78-59-1	0.5	mg/kg	----	----	<0.5	----	----	
2,6-Dinitrotoluene	606-20-2	1.0	mg/kg	----	----	<1.0	----	----	
2,4-Dinitrotoluene	121-14-2	1.0	mg/kg	----	----	<1.0	----	----	
1-Naphthylamine	134-32-7	0.5	mg/kg	----	----	<0.5	----	----	
4-Nitroquinoline-N-oxide	56-57-5	0.5	mg/kg	----	----	<0.5	----	----	
5-Nitro-o-toluidine	99-55-8	0.5	mg/kg	----	----	<0.5	----	----	
Azobenzene	103-33-3	1	mg/kg	----	----	<1	----	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP17-0.5	TP18-0.1	TP18-0.5	TP18-1.0	TP19-0.1
Sampling date / time				19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2406372-021	EB2406372-023	EB2406372-024	EB2406372-025	EB2406372-026	
				Result	Result	Result	Result	Result	
EP075E: Nitroaromatics and Ketones - Continued									
1.3.5-Trinitrobenzene	99-35-4	0.5	mg/kg	----	----	<0.5	----	----	
Phenacetin	62-44-2	0.5	mg/kg	----	----	<0.5	----	----	
4-Aminobiphenyl	92-67-1	0.5	mg/kg	----	----	<0.5	----	----	
Pentachloronitrobenzene	82-68-8	0.5	mg/kg	----	----	<0.5	----	----	
Pronamide	23950-58-5	0.5	mg/kg	----	----	<0.5	----	----	
Dimethylaminoazobenzene	60-11-7	0.5	mg/kg	----	----	<0.5	----	----	
Chlorobenzilate	510-15-6	0.5	mg/kg	----	----	<0.5	----	----	
EP075F: Haloethers									
Bis(2-chloroethyl) ether	111-44-4	0.5	mg/kg	----	----	<0.5	----	----	
Bis(2-chloroethoxy) methane	111-91-1	0.5	mg/kg	----	----	<0.5	----	----	
4-Chlorophenyl phenyl ether	7005-72-3	0.5	mg/kg	----	----	<0.5	----	----	
4-Bromophenyl phenyl ether	101-55-3	0.5	mg/kg	----	----	<0.5	----	----	
EP075G: Chlorinated Hydrocarbons									
1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	----	----	<0.5	----	----	
1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	----	----	<0.5	----	----	
1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	----	----	<0.5	----	----	
Hexachloroethane	67-72-1	0.5	mg/kg	----	----	<0.5	----	----	
1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	----	----	<0.5	----	----	
Hexachloropropylene	1888-71-7	0.5	mg/kg	----	----	<0.5	----	----	
Hexachlorobutadiene	87-68-3	0.5	mg/kg	----	----	<0.5	----	----	
Hexachlorocyclopentadiene	77-47-4	2.5	mg/kg	----	----	<2.5	----	----	
Pentachlorobenzene	608-93-5	0.5	mg/kg	----	----	<0.5	----	----	
Hexachlorobenzene (HCB)	118-74-1	1.0	mg/kg	----	----	<1.0	----	----	
EP075H: Anilines and Benzidines									
Aniline	62-53-3	0.5	mg/kg	----	----	<0.5	----	----	
4-Chloroaniline	106-47-8	0.5	mg/kg	----	----	<0.5	----	----	
2-Nitroaniline	88-74-4	1.0	mg/kg	----	----	<1.0	----	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP17-0.5	TP18-0.1	TP18-0.5	TP18-1.0	TP19-0.1
Sampling date / time				19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2406372-021	EB2406372-023	EB2406372-024	EB2406372-025	EB2406372-026	
				Result	Result	Result	Result	Result	
EP075H: Anilines and Benzidines - Continued									
3-Nitroaniline	99-09-2	1.0	mg/kg	----	----	<1.0	----	----	
Dibenzofuran	132-64-9	0.5	mg/kg	----	----	<0.5	----	----	
4-Nitroaniline	100-01-6	0.5	mg/kg	----	----	<0.5	----	----	
Carbazole	86-74-8	0.5	mg/kg	----	----	<0.5	----	----	
3,3'-Dichlorobenzidine	91-94-1	0.5	mg/kg	----	----	<0.5	----	----	
EP075I: Organochlorine Pesticides									
alpha-BHC	319-84-6	0.5	mg/kg	----	----	<0.5	----	----	
beta-BHC	319-85-7	0.5	mg/kg	----	----	<0.5	----	----	
gamma-BHC	58-89-9	0.5	mg/kg	----	----	<0.5	----	----	
delta-BHC	319-86-8	0.5	mg/kg	----	----	<0.5	----	----	
Heptachlor	76-44-8	0.5	mg/kg	----	----	<0.5	----	----	
Aldrin	309-00-2	0.5	mg/kg	----	----	<0.5	----	----	
Heptachlor epoxide	1024-57-3	0.5	mg/kg	----	----	<0.5	----	----	
alpha-Endosulfan	959-98-8	0.5	mg/kg	----	----	<0.5	----	----	
4,4'-DDE	72-55-9	0.5	mg/kg	----	----	<0.5	----	----	
Dieldrin	60-57-1	0.5	mg/kg	----	----	<0.5	----	----	
Endrin	72-20-8	0.5	mg/kg	----	----	<0.5	----	----	
beta-Endosulfan	33213-65-9	0.5	mg/kg	----	----	<0.5	----	----	
4,4'-DDD	72-54-8	0.5	mg/kg	----	----	<0.5	----	----	
Endosulfan sulfate	1031-07-8	0.5	mg/kg	----	----	<0.5	----	----	
4,4'-DDT	50-29-3	1.0	mg/kg	----	----	<1.0	----	----	
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.5	mg/kg	----	----	<0.5	----	----	
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.5	mg/kg	----	----	<0.5	----	----	
EP075J: Organophosphorus Pesticides									
Dichlorvos	62-73-7	0.5	mg/kg	----	----	<0.5	----	----	
Dimethoate	60-51-5	0.5	mg/kg	----	----	<0.5	----	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP17-0.5	TP18-0.1	TP18-0.5	TP18-1.0	TP19-0.1
Sampling date / time					19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406372-021	EB2406372-023	EB2406372-024	EB2406372-025	EB2406372-026
					Result	Result	Result	Result	Result
EP075J: Organophosphorus Pesticides - Continued									
Diazinon	333-41-5	0.5	mg/kg		----	----	<0.5	----	----
Chlorpyrifos-methyl	5598-13-0	0.5	mg/kg		----	----	<0.5	----	----
Malathion	121-75-5	0.5	mg/kg		----	----	<0.5	----	----
Fenthion	55-38-9	0.5	mg/kg		----	----	<0.5	----	----
Chlorpyrifos	2921-88-2	0.5	mg/kg		----	----	<0.5	----	----
Pirimphos-ethyl	23505-41-1	0.5	mg/kg		----	----	<0.5	----	----
Chlorfenvinphos	470-90-6	0.5	mg/kg		----	----	<0.5	----	----
Prothiofos	34643-46-4	0.5	mg/kg		----	----	<0.5	----	----
Ethion	563-12-2	0.5	mg/kg		----	----	<0.5	----	----
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	10	mg/kg		<10	----	----	----	----
C10 - C14 Fraction	----	50	mg/kg		<50	----	----	----	----
C15 - C28 Fraction	----	100	mg/kg		<100	----	----	----	----
C29 - C36 Fraction	----	100	mg/kg		<100	----	----	----	----
^ C10 - C36 Fraction (sum)	----	50	mg/kg		<50	----	----	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg		<10	----	----	----	----
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg		<10	----	----	----	----
>C10 - C16 Fraction	----	50	mg/kg		<50	----	----	----	----
>C16 - C34 Fraction	----	100	mg/kg		<100	----	----	----	----
>C34 - C40 Fraction	----	100	mg/kg		<100	----	----	----	----
^ >C10 - C40 Fraction (sum)	----	50	mg/kg		<50	----	----	----	----
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg		<50	----	----	----	----
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg		<0.2	----	----	----	----
Toluene	108-88-3	0.5	mg/kg		<0.5	----	----	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP17-0.5	TP18-0.1	TP18-0.5	TP18-1.0	TP19-0.1
Sampling date / time					19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406372-021	EB2406372-023	EB2406372-024	EB2406372-025	EB2406372-026
					Result	Result	Result	Result	Result
EP080: BTEXN - Continued									
Ethylbenzene	100-41-4	0.5	mg/kg		<0.5	----	----	----	----
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		<0.5	----	----	----	----
ortho-Xylene	95-47-6	0.5	mg/kg		<0.5	----	----	----	----
^ Sum of BTEX	----	0.2	mg/kg		<0.2	----	----	----	----
^ Total Xylenes	----	0.5	mg/kg		<0.5	----	----	----	----
Naphthalene	91-20-3	1	mg/kg		<1	----	----	----	----
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg		----	----	<0.0002	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg		----	----	<0.0002	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg		----	----	<0.0002	----	----
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg		----	----	<0.001	----	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg		----	----	<0.0002	----	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg		----	----	<0.0002	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg		----	----	<0.0002	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg		----	----	<0.0002	----	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg		----	----	<0.0005	----	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg		----	----	<0.0005	----	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg		----	----	<0.0005	----	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg		----	----	<0.0005	----	----
EP231P: PFAS Sums									
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg		----	----	<0.0002	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP17-0.5	TP18-0.1	TP18-0.5	TP18-1.0	TP19-0.1
Sampling date / time				19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2406372-021	EB2406372-023	EB2406372-024	EB2406372-025	EB2406372-026	
				Result	Result	Result	Result	Result	
EP231P: PFAS Sums - Continued									
Sum of PFAS (WA DER List)	----	0.0002	mg/kg	----	----	<0.0002	----	----	
EP075S: Acid Extractable Surrogates									
2-Fluorophenol	367-12-4	0.5	%	----	----	110	----	----	
Phenol-d6	13127-88-3	0.5	%	----	----	92.4	----	----	
2-Chlorophenol-D4	93951-73-6	0.5	%	----	----	93.5	----	----	
2,4,6-Tribromophenol	118-79-6	0.5	%	----	----	91.6	----	----	
EP075T: Base/Neutral Extractable Surrogates									
Nitrobenzene-D5	4165-60-0	0.5	%	----	----	105	----	----	
1,2-Dichlorobenzene-D4	2199-69-1	0.5	%	----	----	75.1	----	----	
2-Fluorobiphenyl	321-60-8	0.5	%	----	----	107	----	----	
Anthracene-d10	1719-06-8	0.5	%	----	----	102	----	----	
4-Terphenyl-d14	1718-51-0	0.5	%	----	----	107	----	----	
EP080S: TPH(V)/BTEX Surrogates									
1,2-Dichloroethane-D4	17060-07-0	0.2	%	101	----	----	----	----	
Toluene-D8	2037-26-5	0.2	%	96.5	----	----	----	----	
4-Bromofluorobenzene	460-00-4	0.2	%	107	----	----	----	----	
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.0002	%	----	----	103	----	----	
13C8-PFOA	----	0.0002	%	----	----	102	----	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP19-1.0	TP19-2.2	TP20-0.1	TP20-0.5	TP20-1.0
Sampling date / time				19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2406372-028	EB2406372-030	EB2406372-031	EB2406372-032	EB2406372-033	
				Result	Result	Result	Result	Result	
EA055: Moisture Content									
Moisture Content	----	1.0	%	----	----	21.0	----	----	
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	0.1	%	----	----	----	----	18.7	
Moisture Content	----	1.0	%	41.9	10.3	----	15.2	----	
EG005(ED093)T: Total Metals by ICP-AES									
Arsenic	7440-38-2	5	mg/kg	<5	<5	<5	<5	----	
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	----	
Chromium	7440-47-3	2	mg/kg	16	<2	7	13	----	
Copper	7440-50-8	5	mg/kg	14	<5	<5	<5	----	
Lead	7439-92-1	5	mg/kg	37	<5	22	5	----	
Nickel	7440-02-0	2	mg/kg	<2	<2	<2	<2	----	
Zinc	7440-66-6	5	mg/kg	17	<5	97	25	----	
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.1	mg/kg	2.0	<0.1	<0.1	<0.1	----	
EP075A: Phenolic Compounds									
Phenol	108-95-2	0.5	mg/kg	<0.5	----	----	----	<0.5	
2-Chlorophenol	95-57-8	0.5	mg/kg	<0.5	----	----	----	<0.5	
2-Methylphenol	95-48-7	0.5	mg/kg	<0.5	----	----	----	<0.5	
3- & 4-Methylphenol	1319-77-3	0.5	mg/kg	<0.5	----	----	----	<0.5	
2-Nitrophenol	88-75-5	0.5	mg/kg	<0.5	----	----	----	<0.5	
2.4-Dimethylphenol	105-67-9	0.5	mg/kg	<0.5	----	----	----	<0.5	
2.4-Dichlorophenol	120-83-2	0.5	mg/kg	<0.5	----	----	----	<0.5	
2.6-Dichlorophenol	87-65-0	0.5	mg/kg	<0.5	----	----	----	<0.5	
4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg	<0.5	----	----	----	<0.5	
2.4.6-Trichlorophenol	88-06-2	0.5	mg/kg	<0.5	----	----	----	<0.5	
2.4.5-Trichlorophenol	95-95-4	0.5	mg/kg	<0.5	----	----	----	<0.5	
Pentachlorophenol	87-86-5	1	mg/kg	<1	----	----	----	<1	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP19-1.0	TP19-2.2	TP20-0.1	TP20-0.5	TP20-1.0
Sampling date / time					19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00
Compound	CAS Number	LOR	Unit	EB2406372-028	EB2406372-030	EB2406372-031	EB2406372-032	EB2406372-033	
				Result	Result	Result	Result	Result	
EP075B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	0.5	mg/kg	<0.5	----	----	----	----	<0.5
2-Methylnaphthalene	91-57-6	0.5	mg/kg	<0.5	----	----	----	----	<0.5
2-Chloronaphthalene	91-58-7	0.5	mg/kg	<0.5	----	----	----	----	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	----	----	----	----	<0.5
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	----	----	----	----	<0.5
Fluorene	86-73-7	0.5	mg/kg	<0.5	----	----	----	----	<0.5
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	----	----	----	----	<0.5
Anthracene	120-12-7	0.5	mg/kg	<0.5	----	----	----	----	<0.5
Fluoranthene	206-44-0	0.5	mg/kg	0.5	----	----	----	----	<0.5
Pyrene	129-00-0	0.5	mg/kg	0.6	----	----	----	----	<0.5
N-2-Fluorenyl Acetamide	53-96-3	0.5	mg/kg	<0.5	----	----	----	----	<0.5
Benzo(a)anthracene	56-55-3	0.5	mg/kg	<0.5	----	----	----	----	<0.5
Chrysene	218-01-9	0.5	mg/kg	<0.5	----	----	----	----	<0.5
Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1	mg/kg	<1	----	----	----	----	<1
7.12-Dimethylbenz(a)anthracene	57-97-6	0.5	mg/kg	<0.5	----	----	----	----	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	----	----	----	----	<0.5
3-Methylcholanthrene	56-49-5	0.5	mg/kg	<0.5	----	----	----	----	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	----	----	----	----	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	----	----	----	----	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	----	----	----	----	<0.5
^ Sum of PAHs	----	0.5	mg/kg	1.1	----	----	----	----	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	----	----	----	----	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	0.6	----	----	----	----	0.6
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	1.2	----	----	----	----	1.2
EP075C: Phthalate Esters									
Dimethyl phthalate	131-11-3	0.5	mg/kg	<0.5	----	----	----	----	<0.5



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP19-1.0	TP19-2.2	TP20-0.1	TP20-0.5	TP20-1.0
Sampling date / time					19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00
Compound	CAS Number	LOR	Unit	EB2406372-028	EB2406372-030	EB2406372-031	EB2406372-032	EB2406372-033	
				Result	Result	Result	Result	Result	
EP075C: Phthalate Esters - Continued									
Diethyl phthalate	84-66-2	0.5	mg/kg	<0.5	----	----	----	----	<0.5
Di-n-butyl phthalate	84-74-2	0.5	mg/kg	<0.5	----	----	----	----	<0.5
Butyl benzyl phthalate	85-68-7	0.5	mg/kg	<0.5	----	----	----	----	<0.5
bis(2-ethylhexyl) phthalate	117-81-7	5.0	mg/kg	<5.0	----	----	----	----	<5.0
Di-n-octylphthalate	117-84-0	0.5	mg/kg	<0.5	----	----	----	----	<0.5
EP075D: Nitrosamines									
N-Nitrosomethylethylamine	10595-95-6	0.5	mg/kg	<0.5	----	----	----	----	<0.5
N-Nitrosodiethylamine	55-18-5	0.5	mg/kg	<0.5	----	----	----	----	<0.5
N-Nitrosopyrrolidine	930-55-2	1.0	mg/kg	<1.0	----	----	----	----	<1.0
N-Nitrosomorpholine	59-89-2	0.5	mg/kg	<0.5	----	----	----	----	<0.5
N-Nitrosodi-n-propylamine	621-64-7	0.5	mg/kg	<0.5	----	----	----	----	<0.5
N-Nitrosopiperidine	100-75-4	0.5	mg/kg	<0.5	----	----	----	----	<0.5
N-Nitrosodibutylamine	924-16-3	0.5	mg/kg	<0.5	----	----	----	----	<0.5
N-Nitrosodiphenyl & Diphenylamine	86-30-6 122-39-4	1.0	mg/kg	<1.0	----	----	----	----	<1.0
Methapyrilene	91-80-5	0.5	mg/kg	<0.5	----	----	----	----	<0.5
EP075E: Nitroaromatics and Ketones									
2-Picoline	109-06-8	0.5	mg/kg	<0.5	----	----	----	----	<0.5
Acetophenone	98-86-2	0.5	mg/kg	<0.5	----	----	----	----	<0.5
Nitrobenzene	98-95-3	0.5	mg/kg	<0.5	----	----	----	----	<0.5
Isophorone	78-59-1	0.5	mg/kg	<0.5	----	----	----	----	<0.5
2,6-Dinitrotoluene	606-20-2	1.0	mg/kg	<1.0	----	----	----	----	<1.0
2,4-Dinitrotoluene	121-14-2	1.0	mg/kg	<1.0	----	----	----	----	<1.0
1-Naphthylamine	134-32-7	0.5	mg/kg	<0.5	----	----	----	----	<0.5
4-Nitroquinoline-N-oxide	56-57-5	0.5	mg/kg	<0.5	----	----	----	----	<0.5
5-Nitro-o-toluidine	99-55-8	0.5	mg/kg	<0.5	----	----	----	----	<0.5
Azobenzene	103-33-3	1	mg/kg	<1	----	----	----	----	<1



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP19-1.0	TP19-2.2	TP20-0.1	TP20-0.5	TP20-1.0
Sampling date / time					19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406372-028	EB2406372-030	EB2406372-031	EB2406372-032	EB2406372-033
					Result	Result	Result	Result	Result
EP075E: Nitroaromatics and Ketones - Continued									
1.3.5-Trinitrobenzene	99-35-4	0.5	mg/kg		<0.5	----	----	----	<0.5
Phenacetin	62-44-2	0.5	mg/kg		<0.5	----	----	----	<0.5
4-Aminobiphenyl	92-67-1	0.5	mg/kg		<0.5	----	----	----	<0.5
Pentachloronitrobenzene	82-68-8	0.5	mg/kg		<0.5	----	----	----	<0.5
Pronamide	23950-58-5	0.5	mg/kg		<0.5	----	----	----	<0.5
Dimethylaminoazobenzene	60-11-7	0.5	mg/kg		<0.5	----	----	----	<0.5
Chlorobenzilate	510-15-6	0.5	mg/kg		<0.5	----	----	----	<0.5
EP075F: Haloethers									
Bis(2-chloroethyl) ether	111-44-4	0.5	mg/kg		<0.5	----	----	----	<0.5
Bis(2-chloroethoxy) methane	111-91-1	0.5	mg/kg		<0.5	----	----	----	<0.5
4-Chlorophenyl phenyl ether	7005-72-3	0.5	mg/kg		<0.5	----	----	----	<0.5
4-Bromophenyl phenyl ether	101-55-3	0.5	mg/kg		<0.5	----	----	----	<0.5
EP075G: Chlorinated Hydrocarbons									
1.3-Dichlorobenzene	541-73-1	0.5	mg/kg		<0.5	----	----	----	<0.5
1.4-Dichlorobenzene	106-46-7	0.5	mg/kg		<0.5	----	----	----	<0.5
1.2-Dichlorobenzene	95-50-1	0.5	mg/kg		<0.5	----	----	----	<0.5
Hexachloroethane	67-72-1	0.5	mg/kg		<0.5	----	----	----	<0.5
1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg		<0.5	----	----	----	<0.5
Hexachloropropylene	1888-71-7	0.5	mg/kg		<0.5	----	----	----	<0.5
Hexachlorobutadiene	87-68-3	0.5	mg/kg		<0.5	----	----	----	<0.5
Hexachlorocyclopentadiene	77-47-4	2.5	mg/kg		<2.5	----	----	----	<2.5
Pentachlorobenzene	608-93-5	0.5	mg/kg		<0.5	----	----	----	<0.5
Hexachlorobenzene (HCB)	118-74-1	1.0	mg/kg		<1.0	----	----	----	<1.0
EP075H: Anilines and Benzidines									
Aniline	62-53-3	0.5	mg/kg		<0.5	----	----	----	<0.5
4-Chloroaniline	106-47-8	0.5	mg/kg		<0.5	----	----	----	<0.5
2-Nitroaniline	88-74-4	1.0	mg/kg		<1.0	----	----	----	<1.0



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP19-1.0	TP19-2.2	TP20-0.1	TP20-0.5	TP20-1.0
Sampling date / time				19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2406372-028	EB2406372-030	EB2406372-031	EB2406372-032	EB2406372-033	
				Result	Result	Result	Result	Result	
EP075H: Anilines and Benzidines - Continued									
3-Nitroaniline	99-09-2	1.0	mg/kg	<1.0	----	----	----	----	<1.0
Dibenzofuran	132-64-9	0.5	mg/kg	<0.5	----	----	----	----	<0.5
4-Nitroaniline	100-01-6	0.5	mg/kg	<0.5	----	----	----	----	<0.5
Carbazole	86-74-8	0.5	mg/kg	<0.5	----	----	----	----	<0.5
3,3'-Dichlorobenzidine	91-94-1	0.5	mg/kg	<0.5	----	----	----	----	<0.5
EP075I: Organochlorine Pesticides									
alpha-BHC	319-84-6	0.5	mg/kg	<0.5	----	----	----	----	<0.5
beta-BHC	319-85-7	0.5	mg/kg	<0.5	----	----	----	----	<0.5
gamma-BHC	58-89-9	0.5	mg/kg	<0.5	----	----	----	----	<0.5
delta-BHC	319-86-8	0.5	mg/kg	<0.5	----	----	----	----	<0.5
Heptachlor	76-44-8	0.5	mg/kg	<0.5	----	----	----	----	<0.5
Aldrin	309-00-2	0.5	mg/kg	<0.5	----	----	----	----	<0.5
Heptachlor epoxide	1024-57-3	0.5	mg/kg	<0.5	----	----	----	----	<0.5
alpha-Endosulfan	959-98-8	0.5	mg/kg	<0.5	----	----	----	----	<0.5
4,4'-DDE	72-55-9	0.5	mg/kg	<0.5	----	----	----	----	<0.5
Dieldrin	60-57-1	0.5	mg/kg	<0.5	----	----	----	----	<0.5
Endrin	72-20-8	0.5	mg/kg	<0.5	----	----	----	----	<0.5
beta-Endosulfan	33213-65-9	0.5	mg/kg	<0.5	----	----	----	----	<0.5
4,4'-DDD	72-54-8	0.5	mg/kg	<0.5	----	----	----	----	<0.5
Endosulfan sulfate	1031-07-8	0.5	mg/kg	<0.5	----	----	----	----	<0.5
4,4'-DDT	50-29-3	1.0	mg/kg	<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
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.5	mg/kg	<0.5	----	----	----	----	<0.5
EP075J: Organophosphorus Pesticides									
Dichlorvos	62-73-7	0.5	mg/kg	<0.5	----	----	----	----	<0.5
Dimethoate	60-51-5	0.5	mg/kg	<0.5	----	----	----	----	<0.5



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP19-1.0	TP19-2.2	TP20-0.1	TP20-0.5	TP20-1.0
Sampling date / time				19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2406372-028	EB2406372-030	EB2406372-031	EB2406372-032	EB2406372-033	
				Result	Result	Result	Result	Result	
EP075J: Organophosphorus Pesticides - Continued									
Diazinon	333-41-5	0.5	mg/kg	<0.5	----	----	----	<0.5	
Chlorpyrifos-methyl	5598-13-0	0.5	mg/kg	<0.5	----	----	----	<0.5	
Malathion	121-75-5	0.5	mg/kg	<0.5	----	----	----	<0.5	
Fenthion	55-38-9	0.5	mg/kg	<0.5	----	----	----	<0.5	
Chlorpyrifos	2921-88-2	0.5	mg/kg	<0.5	----	----	----	<0.5	
Pirimphos-ethyl	23505-41-1	0.5	mg/kg	<0.5	----	----	----	<0.5	
Chlorfenvinphos	470-90-6	0.5	mg/kg	<0.5	----	----	----	<0.5	
Prothiofos	34643-46-4	0.5	mg/kg	<0.5	----	----	----	<0.5	
Ethion	563-12-2	0.5	mg/kg	<0.5	----	----	----	<0.5	
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	10	mg/kg	----	----	<10	----	----	
C10 - C14 Fraction	----	50	mg/kg	----	----	<50	----	----	
C15 - C28 Fraction	----	100	mg/kg	----	----	150	----	----	
C29 - C36 Fraction	----	100	mg/kg	----	----	<100	----	----	
^ C10 - C36 Fraction (sum)	----	50	mg/kg	----	----	150	----	----	
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg	----	----	<10	----	----	
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	----	----	<10	----	----	
>C10 - C16 Fraction	----	50	mg/kg	----	----	<50	----	----	
>C16 - C34 Fraction	----	100	mg/kg	----	----	180	----	----	
>C34 - C40 Fraction	----	100	mg/kg	----	----	<100	----	----	
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	----	----	180	----	----	
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	----	----	<50	----	----	
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg	----	----	<0.2	----	----	
Toluene	108-88-3	0.5	mg/kg	----	----	<0.5	----	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP19-1.0	TP19-2.2	TP20-0.1	TP20-0.5	TP20-1.0
Sampling date / time					19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406372-028	EB2406372-030	EB2406372-031	EB2406372-032	EB2406372-033
					Result	Result	Result	Result	Result
EP080: BTEXN - Continued									
Ethylbenzene	100-41-4	0.5	mg/kg		----	----	<0.5	----	----
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		----	----	<0.5	----	----
ortho-Xylene	95-47-6	0.5	mg/kg		----	----	<0.5	----	----
^ Sum of BTEX	----	0.2	mg/kg		----	----	<0.2	----	----
^ Total Xylenes	----	0.5	mg/kg		----	----	<0.5	----	----
Naphthalene	91-20-3	1	mg/kg		----	----	<1	----	----
EP075S: Acid Extractable Surrogates									
2-Fluorophenol	367-12-4	0.5	%		103	----	----	----	102
Phenol-d6	13127-88-3	0.5	%		86.0	----	----	----	89.7
2-Chlorophenol-D4	93951-73-6	0.5	%		87.9	----	----	----	92.0
2.4.6-Tribromophenol	118-79-6	0.5	%		88.6	----	----	----	86.6
EP075T: Base/Neutral Extractable Surrogates									
Nitrobenzene-D5	4165-60-0	0.5	%		96.3	----	----	----	99.3
1.2-Dichlorobenzene-D4	2199-69-1	0.5	%		54.4	----	----	----	73.1
2-Fluorobiphenyl	321-60-8	0.5	%		96.0	----	----	----	90.9
Anthracene-d10	1719-06-8	0.5	%		92.2	----	----	----	102
4-Terphenyl-d14	1718-51-0	0.5	%		95.6	----	----	----	108
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	0.2	%		----	----	90.3	----	----
Toluene-D8	2037-26-5	0.2	%		----	----	88.9	----	----
4-Bromofluorobenzene	460-00-4	0.2	%		----	----	93.6	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP20-2.8	TP21-0.1	TP21-0.5	TP21-1.0	TP22-0.1
Sampling date / time				19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2406372-034	EB2406372-035	EB2406372-036	EB2406372-037	EB2406372-038	
				Result	Result	Result	Result	Result	
EA055: Moisture Content									
Moisture Content	----	1.0	%	15.7	13.7	----	17.9	----	
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	1.0	%	----	----	14.4	----	14.2	
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	17	10	15	24	29	
Copper	7440-50-8	5	mg/kg	<5	11	<5	<5	<5	
Lead	7439-92-1	5	mg/kg	<5	104	6	<5	9	
Nickel	7440-02-0	2	mg/kg	<2	4	<2	<2	2	
Zinc	7440-66-6	5	mg/kg	13	310	60	<5	12	
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.1	mg/kg	<0.1	0.1	<0.1	<0.1	<0.1	
EP066: Polychlorinated Biphenyls (PCB)									
Total Polychlorinated biphenyls	----	0.1	mg/kg	----	----	<0.1	----	----	
EP068A: Organochlorine Pesticides (OC)									
alpha-BHC	319-84-6	0.05	mg/kg	----	----	<0.05	----	----	
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	----	----	<0.05	----	----	
beta-BHC	319-85-7	0.05	mg/kg	----	----	<0.05	----	----	
gamma-BHC	58-89-9	0.05	mg/kg	----	----	<0.05	----	----	
delta-BHC	319-86-8	0.05	mg/kg	----	----	<0.05	----	----	
Heptachlor	76-44-8	0.05	mg/kg	----	----	<0.05	----	----	
Aldrin	309-00-2	0.05	mg/kg	----	----	<0.05	----	----	
Heptachlor epoxide	1024-57-3	0.05	mg/kg	----	----	<0.05	----	----	
[^] Total Chlordane (sum)	----	0.05	mg/kg	----	----	<0.05	----	----	
trans-Chlordane	5103-74-2	0.05	mg/kg	----	----	<0.05	----	----	
alpha-Endosulfan	959-98-8	0.05	mg/kg	----	----	<0.05	----	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP20-2.8	TP21-0.1	TP21-0.5	TP21-1.0	TP22-0.1
Sampling date / time					19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406372-034	EB2406372-035	EB2406372-036	EB2406372-037	EB2406372-038
					Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued									
cis-Chlordane	5103-71-9	0.05	mg/kg		----	----	<0.05	----	----
Dieldrin	60-57-1	0.05	mg/kg		----	----	<0.05	----	----
4,4'-DDE	72-55-9	0.05	mg/kg		----	----	<0.05	----	----
Endrin	72-20-8	0.05	mg/kg		----	----	<0.05	----	----
beta-Endosulfan	33213-65-9	0.05	mg/kg		----	----	<0.05	----	----
[^] Endosulfan (sum)	115-29-7	0.05	mg/kg		----	----	<0.05	----	----
4,4'-DDD	72-54-8	0.05	mg/kg		----	----	<0.05	----	----
Endrin aldehyde	7421-93-4	0.05	mg/kg		----	----	<0.05	----	----
Endosulfan sulfate	1031-07-8	0.05	mg/kg		----	----	<0.05	----	----
4,4'-DDT	50-29-3	0.2	mg/kg		----	----	<0.2	----	----
Endrin ketone	53494-70-5	0.05	mg/kg		----	----	<0.05	----	----
Methoxychlor	72-43-5	0.2	mg/kg		----	----	<0.2	----	----
[^] Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg		----	----	<0.05	----	----
[^] Sum of DDD + DDE + DDT	72-54-8/72-55-9/5-0-2	0.05	mg/kg		----	----	<0.05	----	----
EP068B: Organophosphorus Pesticides (OP)									
Dichlorvos	62-73-7	0.05	mg/kg		----	----	<0.05	----	----
Demeton-S-methyl	919-86-8	0.05	mg/kg		----	----	<0.05	----	----
Monocrotophos	6923-22-4	0.2	mg/kg		----	----	<0.2	----	----
Dimethoate	60-51-5	0.05	mg/kg		----	----	<0.05	----	----
Diazinon	333-41-5	0.05	mg/kg		----	----	<0.05	----	----
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg		----	----	<0.05	----	----
Parathion-methyl	298-00-0	0.2	mg/kg		----	----	<0.2	----	----
Malathion	121-75-5	0.05	mg/kg		----	----	<0.05	----	----
Fenthion	55-38-9	0.05	mg/kg		----	----	<0.05	----	----
Chlorpyrifos	2921-88-2	0.05	mg/kg		----	----	<0.05	----	----
Parathion	56-38-2	0.2	mg/kg		----	----	<0.2	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP20-2.8	TP21-0.1	TP21-0.5	TP21-1.0	TP22-0.1
Sampling date / time					19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406372-034	EB2406372-035	EB2406372-036	EB2406372-037	EB2406372-038
					Result	Result	Result	Result	Result
EP068B: Organophosphorus Pesticides (OP) - Continued									
Pirimphos-ethyl	23505-41-1	0.05	mg/kg		----	----	<0.05	----	----
Chlorfenvinphos	470-90-6	0.05	mg/kg		----	----	<0.05	----	----
Bromophos-ethyl	4824-78-6	0.05	mg/kg		----	----	<0.05	----	----
Fenamiphos	22224-92-6	0.05	mg/kg		----	----	<0.05	----	----
Prothiofos	34643-46-4	0.05	mg/kg		----	----	<0.05	----	----
Ethion	563-12-2	0.05	mg/kg		----	----	<0.05	----	----
Carbophenothion	786-19-6	0.05	mg/kg		----	----	<0.05	----	----
Azinphos Methyl	86-50-0	0.05	mg/kg		----	----	<0.05	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	0.5	mg/kg		----	----	<0.5	----	----
Acenaphthylene	208-96-8	0.5	mg/kg		----	----	<0.5	----	----
Acenaphthene	83-32-9	0.5	mg/kg		----	----	<0.5	----	----
Fluorene	86-73-7	0.5	mg/kg		----	----	<0.5	----	----
Phenanthrene	85-01-8	0.5	mg/kg		----	----	<0.5	----	----
Anthracene	120-12-7	0.5	mg/kg		----	----	<0.5	----	----
Fluoranthene	206-44-0	0.5	mg/kg		----	----	<0.5	----	----
Pyrene	129-00-0	0.5	mg/kg		----	----	<0.5	----	----
Benz(a)anthracene	56-55-3	0.5	mg/kg		----	----	<0.5	----	----
Chrysene	218-01-9	0.5	mg/kg		----	----	<0.5	----	----
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg		----	----	<0.5	----	----
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg		----	----	<0.5	----	----
Benzo(a)pyrene	50-32-8	0.5	mg/kg		----	----	<0.5	----	----
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg		----	----	<0.5	----	----
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg		----	----	<0.5	----	----
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg		----	----	<0.5	----	----
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg		----	----	<0.5	----	----
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg		----	----	<0.5	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP20-2.8	TP21-0.1	TP21-0.5	TP21-1.0	TP22-0.1
Sampling date / time					19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00
Compound	CAS Number	LOR	Unit	EB2406372-034	EB2406372-035	EB2406372-036	EB2406372-037	EB2406372-038	
				Result	Result	Result	Result	Result	
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued									
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	----	----	0.6	----	----	
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	----	----	1.2	----	----	
EP075A: Phenolic Compounds									
Phenol	108-95-2	0.5	mg/kg	----	----	<0.5	----	----	
2-Chlorophenol	95-57-8	0.5	mg/kg	----	----	<0.5	----	----	
2-Methylphenol	95-48-7	0.5	mg/kg	----	----	<0.5	----	----	
3- & 4-Methylphenol	1319-77-3	0.5	mg/kg	----	----	<0.5	----	----	
2-Nitrophenol	88-75-5	0.5	mg/kg	----	----	<0.5	----	----	
2,4-Dimethylphenol	105-67-9	0.5	mg/kg	----	----	<0.5	----	----	
2,4-Dichlorophenol	120-83-2	0.5	mg/kg	----	----	<0.5	----	----	
2,6-Dichlorophenol	87-65-0	0.5	mg/kg	----	----	<0.5	----	----	
4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg	----	----	<0.5	----	----	
2,4,6-Trichlorophenol	88-06-2	0.5	mg/kg	----	----	<0.5	----	----	
2,4,5-Trichlorophenol	95-95-4	0.5	mg/kg	----	----	<0.5	----	----	
Pentachlorophenol	87-86-5	1	mg/kg	----	----	<1	----	----	
EP075B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	0.5	mg/kg	----	----	<0.5	----	----	
2-Methylnaphthalene	91-57-6	0.5	mg/kg	----	----	<0.5	----	----	
2-Chloronaphthalene	91-58-7	0.5	mg/kg	----	----	<0.5	----	----	
Acenaphthylene	208-96-8	0.5	mg/kg	----	----	<0.5	----	----	
Acenaphthene	83-32-9	0.5	mg/kg	----	----	<0.5	----	----	
Fluorene	86-73-7	0.5	mg/kg	----	----	<0.5	----	----	
Phenanthrene	85-01-8	0.5	mg/kg	----	----	<0.5	----	----	
Anthracene	120-12-7	0.5	mg/kg	----	----	<0.5	----	----	
Fluoranthene	206-44-0	0.5	mg/kg	----	----	<0.5	----	----	
Pyrene	129-00-0	0.5	mg/kg	----	----	<0.5	----	----	
N-2-Fluorenyl Acetamide	53-96-3	0.5	mg/kg	----	----	<0.5	----	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP20-2.8	TP21-0.1	TP21-0.5	TP21-1.0	TP22-0.1
Sampling date / time					19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406372-034	EB2406372-035	EB2406372-036	EB2406372-037	EB2406372-038
					Result	Result	Result	Result	Result
EP075B: Polynuclear Aromatic Hydrocarbons - Continued									
Benz(a)anthracene	56-55-3	0.5	mg/kg		----	----	<0.5	----	----
Chrysene	218-01-9	0.5	mg/kg		----	----	<0.5	----	----
Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1	mg/kg		----	----	<1	----	----
7.12-Dimethylbenz(a)anthracene	57-97-6	0.5	mg/kg		----	----	<0.5	----	----
Benzo(a)pyrene	50-32-8	0.5	mg/kg		----	----	<0.5	----	----
3-Methylcholanthrene	56-49-5	0.5	mg/kg		----	----	<0.5	----	----
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg		----	----	<0.5	----	----
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg		----	----	<0.5	----	----
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg		----	----	<0.5	----	----
^ Sum of PAHs	----	0.5	mg/kg		----	----	<0.5	----	----
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg		----	----	<0.5	----	----
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg		----	----	0.6	----	----
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg		----	----	1.2	----	----
EP075C: Phthalate Esters									
Dimethyl phthalate	131-11-3	0.5	mg/kg		----	----	<0.5	----	----
Diethyl phthalate	84-66-2	0.5	mg/kg		----	----	<0.5	----	----
Di-n-butyl phthalate	84-74-2	0.5	mg/kg		----	----	<0.5	----	----
Butyl benzyl phthalate	85-68-7	0.5	mg/kg		----	----	<0.5	----	----
bis(2-ethylhexyl) phthalate	117-81-7	5.0	mg/kg		----	----	<5.0	----	----
Di-n-octylphthalate	117-84-0	0.5	mg/kg		----	----	<0.5	----	----
EP075D: Nitrosamines									
N-Nitrosomethylethylamine	10595-95-6	0.5	mg/kg		----	----	<0.5	----	----
N-Nitrosodiethylamine	55-18-5	0.5	mg/kg		----	----	<0.5	----	----
N-Nitrosopyrrolidine	930-55-2	1.0	mg/kg		----	----	<1.0	----	----
N-Nitrosomorpholine	59-89-2	0.5	mg/kg		----	----	<0.5	----	----
N-Nitrosodi-n-propylamine	621-64-7	0.5	mg/kg		----	----	<0.5	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP20-2.8	TP21-0.1	TP21-0.5	TP21-1.0	TP22-0.1
Sampling date / time					19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406372-034	EB2406372-035	EB2406372-036	EB2406372-037	EB2406372-038
					Result	Result	Result	Result	Result
EP075D: Nitrosamines - Continued									
N-Nitrosopiperidine	100-75-4	0.5	mg/kg		----	----	<0.5	----	----
N-Nitrosodibutylamine	924-16-3	0.5	mg/kg		----	----	<0.5	----	----
N-Nitrosodiphenyl & Diphenylamine	86-30-6 122-39-4	1.0	mg/kg		----	----	<1.0	----	----
Methapyrilene	91-80-5	0.5	mg/kg		----	----	<0.5	----	----
EP075E: Nitroaromatics and Ketones									
2-Picoline	109-06-8	0.5	mg/kg		----	----	<0.5	----	----
Acetophenone	98-86-2	0.5	mg/kg		----	----	<0.5	----	----
Nitrobenzene	98-95-3	0.5	mg/kg		----	----	<0.5	----	----
Isophorone	78-59-1	0.5	mg/kg		----	----	<0.5	----	----
2,6-Dinitrotoluene	606-20-2	1.0	mg/kg		----	----	<1.0	----	----
2,4-Dinitrotoluene	121-14-2	1.0	mg/kg		----	----	<1.0	----	----
1-Naphthylamine	134-32-7	0.5	mg/kg		----	----	<0.5	----	----
4-Nitroquinoline-N-oxide	56-57-5	0.5	mg/kg		----	----	<0.5	----	----
5-Nitro-o-toluidine	99-55-8	0.5	mg/kg		----	----	<0.5	----	----
Azobenzene	103-33-3	1	mg/kg		----	----	<1	----	----
1,3,5-Trinitrobenzene	99-35-4	0.5	mg/kg		----	----	<0.5	----	----
Phenacetin	62-44-2	0.5	mg/kg		----	----	<0.5	----	----
4-Aminobiphenyl	92-67-1	0.5	mg/kg		----	----	<0.5	----	----
Pentachloronitrobenzene	82-68-8	0.5	mg/kg		----	----	<0.5	----	----
Pronamide	23950-58-5	0.5	mg/kg		----	----	<0.5	----	----
Dimethylaminoazobenzene	60-11-7	0.5	mg/kg		----	----	<0.5	----	----
Chlorobenzilate	510-15-6	0.5	mg/kg		----	----	<0.5	----	----
EP075F: Haloethers									
Bis(2-chloroethyl) ether	111-44-4	0.5	mg/kg		----	----	<0.5	----	----
Bis(2-chloroethoxy) methane	111-91-1	0.5	mg/kg		----	----	<0.5	----	----
4-Chlorophenyl phenyl ether	7005-72-3	0.5	mg/kg		----	----	<0.5	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP20-2.8	TP21-0.1	TP21-0.5	TP21-1.0	TP22-0.1
Sampling date / time					19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00
Compound	CAS Number	LOR	Unit	EB2406372-034	EB2406372-035	EB2406372-036	EB2406372-037	EB2406372-038	
				Result	Result	Result	Result	Result	
EP075F: Haloethers - Continued									
4-Bromophenyl phenyl ether	101-55-3	0.5	mg/kg	----	----	<0.5	----	----	
EP075G: Chlorinated Hydrocarbons									
1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	----	----	<0.5	----	----	
1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	----	----	<0.5	----	----	
1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	----	----	<0.5	----	----	
Hexachloroethane	67-72-1	0.5	mg/kg	----	----	<0.5	----	----	
1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	----	----	<0.5	----	----	
Hexachloropropylene	1888-71-7	0.5	mg/kg	----	----	<0.5	----	----	
Hexachlorobutadiene	87-68-3	0.5	mg/kg	----	----	<0.5	----	----	
Hexachlorocyclopentadiene	77-47-4	2.5	mg/kg	----	----	<2.5	----	----	
Pentachlorobenzene	608-93-5	0.5	mg/kg	----	----	<0.5	----	----	
Hexachlorobenzene (HCB)	118-74-1	1.0	mg/kg	----	----	<1.0	----	----	
EP075H: Anilines and Benzidines									
Aniline	62-53-3	0.5	mg/kg	----	----	<0.5	----	----	
4-Chloroaniline	106-47-8	0.5	mg/kg	----	----	<0.5	----	----	
2-Nitroaniline	88-74-4	1.0	mg/kg	----	----	<1.0	----	----	
3-Nitroaniline	99-09-2	1.0	mg/kg	----	----	<1.0	----	----	
Dibenzofuran	132-64-9	0.5	mg/kg	----	----	<0.5	----	----	
4-Nitroaniline	100-01-6	0.5	mg/kg	----	----	<0.5	----	----	
Carbazole	86-74-8	0.5	mg/kg	----	----	<0.5	----	----	
3,3'-Dichlorobenzidine	91-94-1	0.5	mg/kg	----	----	<0.5	----	----	
EP075I: Organochlorine Pesticides									
alpha-BHC	319-84-6	0.5	mg/kg	----	----	<0.5	----	----	
beta-BHC	319-85-7	0.5	mg/kg	----	----	<0.5	----	----	
gamma-BHC	58-89-9	0.5	mg/kg	----	----	<0.5	----	----	
delta-BHC	319-86-8	0.5	mg/kg	----	----	<0.5	----	----	
Heptachlor	76-44-8	0.5	mg/kg	----	----	<0.5	----	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP20-2.8	TP21-0.1	TP21-0.5	TP21-1.0	TP22-0.1
Sampling date / time					19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406372-034	EB2406372-035	EB2406372-036	EB2406372-037	EB2406372-038
					Result	Result	Result	Result	Result
EP075I: Organochlorine Pesticides - Continued									
Aldrin	309-00-2	0.5	mg/kg		----	----	<0.5	----	----
Heptachlor epoxide	1024-57-3	0.5	mg/kg		----	----	<0.5	----	----
alpha-Endosulfan	959-98-8	0.5	mg/kg		----	----	<0.5	----	----
4.4'-DDE	72-55-9	0.5	mg/kg		----	----	<0.5	----	----
Dieldrin	60-57-1	0.5	mg/kg		----	----	<0.5	----	----
Endrin	72-20-8	0.5	mg/kg		----	----	<0.5	----	----
beta-Endosulfan	33213-65-9	0.5	mg/kg		----	----	<0.5	----	----
4.4'-DDD	72-54-8	0.5	mg/kg		----	----	<0.5	----	----
Endosulfan sulfate	1031-07-8	0.5	mg/kg		----	----	<0.5	----	----
4.4'-DDT	50-29-3	1.0	mg/kg		----	----	<1.0	----	----
[^] Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.5	mg/kg		----	----	<0.5	----	----
[^] Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.5	mg/kg		----	----	<0.5	----	----
EP075J: Organophosphorus Pesticides									
Dichlorvos	62-73-7	0.5	mg/kg		----	----	<0.5	----	----
Dimethoate	60-51-5	0.5	mg/kg		----	----	<0.5	----	----
Diazinon	333-41-5	0.5	mg/kg		----	----	<0.5	----	----
Chlorpyrifos-methyl	5598-13-0	0.5	mg/kg		----	----	<0.5	----	----
Malathion	121-75-5	0.5	mg/kg		----	----	<0.5	----	----
Fenthion	55-38-9	0.5	mg/kg		----	----	<0.5	----	----
Chlorpyrifos	2921-88-2	0.5	mg/kg		----	----	<0.5	----	----
Pirimphos-ethyl	23505-41-1	0.5	mg/kg		----	----	<0.5	----	----
Chlorfenvinphos	470-90-6	0.5	mg/kg		----	----	<0.5	----	----
Prothiofos	34643-46-4	0.5	mg/kg		----	----	<0.5	----	----
Ethion	563-12-2	0.5	mg/kg		----	----	<0.5	----	----
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	10	mg/kg		<10	<10	<10	<10	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP20-2.8	TP21-0.1	TP21-0.5	TP21-1.0	TP22-0.1
Sampling date / time					19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406372-034	EB2406372-035	EB2406372-036	EB2406372-037	EB2406372-038
				Result	Result	Result	Result	Result	Result
EP080/071: Total Petroleum Hydrocarbons - Continued									
C10 - C14 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50	----
C15 - C28 Fraction	----	100	mg/kg	<100	720	<100	110	<100	----
C29 - C36 Fraction	----	100	mg/kg	<100	490	<100	<100	<100	----
[^] C10 - C36 Fraction (sum)	----	50	mg/kg	<50	1210	<50	110	<100	----
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	1080	<100	180	<100	----
>C34 - C40 Fraction	----	100	mg/kg	<100	250	<100	<100	<100	----
[^] >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	1330	<50	180	<100	----
[^] >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	----
EP066S: PCB Surrogate									
Decachlorobiphenyl	2051-24-3	0.1	%	----	----	143	----	----	----
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.05	%	----	----	125	----	----	----
EP068T: Organophosphorus Pesticide Surrogate									



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP20-2.8	TP21-0.1	TP21-0.5	TP21-1.0	TP22-0.1
Sampling date / time					19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406372-034	EB2406372-035	EB2406372-036	EB2406372-037	EB2406372-038
					Result	Result	Result	Result	Result
EP068T: Organophosphorus Pesticide Surrogate - Continued									
DEF	78-48-8	0.05	%		----	----	105	----	----
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	0.5	%		----	----	98.8	----	----
2-Chlorophenol-D4	93951-73-6	0.5	%		----	----	96.9	----	----
2.4.6-Tribromophenol	118-79-6	0.5	%		----	----	78.6	----	----
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	0.5	%		----	----	96.9	----	----
Anthracene-d10	1719-06-8	0.5	%		----	----	102	----	----
4-Terphenyl-d14	1718-51-0	0.5	%		----	----	141	----	----
EP075S: Acid Extractable Surrogates									
2-Fluorophenol	367-12-4	0.5	%		----	----	105	----	----
Phenol-d6	13127-88-3	0.5	%		----	----	93.3	----	----
2-Chlorophenol-D4	93951-73-6	0.5	%		----	----	95.1	----	----
2.4.6-Tribromophenol	118-79-6	0.5	%		----	----	89.7	----	----
EP075T: Base/Neutral Extractable Surrogates									
Nitrobenzene-D5	4165-60-0	0.5	%		----	----	104	----	----
1.2-Dichlorobenzene-D4	2199-69-1	0.5	%		----	----	74.1	----	----
2-Fluorobiphenyl	321-60-8	0.5	%		----	----	95.9	----	----
Anthracene-d10	1719-06-8	0.5	%		----	----	101	----	----
4-Terphenyl-d14	1718-51-0	0.5	%		----	----	110	----	----
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	0.2	%		93.0	96.5	99.1	103	----
Toluene-D8	2037-26-5	0.2	%		85.3	88.1	89.3	89.7	----
4-Bromofluorobenzene	460-00-4	0.2	%		91.7	95.1	97.0	96.3	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP22-0.5	TP22-1.0	TP23-0.5	TP23-1.0	TP23-2.5
Sampling date / time				19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2406372-039	EB2406372-040	EB2406372-042	EB2406372-043	EB2406372-044	
				Result	Result	Result	Result	Result	
EA055: Moisture Content									
Moisture Content	----	1.0	%	----	----	----	17.9	----	
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	1.0	%	15.8	18.4	13.7	----	14.7	
EG005(ED093)T: Total Metals by ICP-AES									
Arsenic	7440-38-2	5	mg/kg	<5	<5	<5	<5	<5	
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1	
Chromium	7440-47-3	2	mg/kg	32	37	22	27	17	
Copper	7440-50-8	5	mg/kg	<5	<5	<5	<5	<5	
Lead	7439-92-1	5	mg/kg	6	7	7	6	<5	
Nickel	7440-02-0	2	mg/kg	2	<2	<2	<2	<2	
Zinc	7440-66-6	5	mg/kg	<5	<5	<5	<5	<5	
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.1	<0.1	<0.1	
EP075A: Phenolic Compounds									
Phenol	108-95-2	0.5	mg/kg	----	----	----	----	<0.5	
2-Chlorophenol	95-57-8	0.5	mg/kg	----	----	----	----	<0.5	
2-Methylphenol	95-48-7	0.5	mg/kg	----	----	----	----	<0.5	
3- & 4-Methylphenol	1319-77-3	0.5	mg/kg	----	----	----	----	<0.5	
2-Nitrophenol	88-75-5	0.5	mg/kg	----	----	----	----	<0.5	
2,4-Dimethylphenol	105-67-9	0.5	mg/kg	----	----	----	----	<0.5	
2,4-Dichlorophenol	120-83-2	0.5	mg/kg	----	----	----	----	<0.5	
2,6-Dichlorophenol	87-65-0	0.5	mg/kg	----	----	----	----	<0.5	
4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg	----	----	----	----	<0.5	
2,4,6-Trichlorophenol	88-06-2	0.5	mg/kg	----	----	----	----	<0.5	
2,4,5-Trichlorophenol	95-95-4	0.5	mg/kg	----	----	----	----	<0.5	
Pentachlorophenol	87-86-5	1	mg/kg	----	----	----	----	<1	
EP075B: Polynuclear Aromatic Hydrocarbons									



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP22-0.5	TP22-1.0	TP23-0.5	TP23-1.0	TP23-2.5
Sampling date / time					19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406372-039	EB2406372-040	EB2406372-042	EB2406372-043	EB2406372-044
					Result	Result	Result	Result	Result
EP075B: Polynuclear Aromatic Hydrocarbons - Continued									
Naphthalene	91-20-3	0.5	mg/kg		----	----	----	----	<0.5
2-Methylnaphthalene	91-57-6	0.5	mg/kg		----	----	----	----	<0.5
2-Chloronaphthalene	91-58-7	0.5	mg/kg		----	----	----	----	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg		----	----	----	----	<0.5
Acenaphthene	83-32-9	0.5	mg/kg		----	----	----	----	<0.5
Fluorene	86-73-7	0.5	mg/kg		----	----	----	----	<0.5
Phenanthrene	85-01-8	0.5	mg/kg		----	----	----	----	<0.5
Anthracene	120-12-7	0.5	mg/kg		----	----	----	----	<0.5
Fluoranthene	206-44-0	0.5	mg/kg		----	----	----	----	<0.5
Pyrene	129-00-0	0.5	mg/kg		----	----	----	----	<0.5
N-2-Fluorenyl Acetamide	53-96-3	0.5	mg/kg		----	----	----	----	<0.5
Benzo(a)anthracene	56-55-3	0.5	mg/kg		----	----	----	----	<0.5
Chrysene	218-01-9	0.5	mg/kg		----	----	----	----	<0.5
Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1	mg/kg		----	----	----	----	<1
7.12-Dimethylbenz(a)anthracene	57-97-6	0.5	mg/kg		----	----	----	----	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg		----	----	----	----	<0.5
3-Methylcholanthrene	56-49-5	0.5	mg/kg		----	----	----	----	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg		----	----	----	----	<0.5
Dibenz(a,h)anthracene	53-70-3	0.5	mg/kg		----	----	----	----	<0.5
Benzo(g,h,i)perylene	191-24-2	0.5	mg/kg		----	----	----	----	<0.5
^ Sum of PAHs	----	0.5	mg/kg		----	----	----	----	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg		----	----	----	----	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg		----	----	----	----	0.6
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg		----	----	----	----	1.2
EP075C: Phthalate Esters									
Dimethyl phthalate	131-11-3	0.5	mg/kg		----	----	----	----	<0.5



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP22-0.5	TP22-1.0	TP23-0.5	TP23-1.0	TP23-2.5
Sampling date / time				19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2406372-039	EB2406372-040	EB2406372-042	EB2406372-043	EB2406372-044	
				Result	Result	Result	Result	Result	
EP075C: Phthalate Esters - Continued									
Diethyl phthalate	84-66-2	0.5	mg/kg	----	----	----	----	<0.5	
Di-n-butyl phthalate	84-74-2	0.5	mg/kg	----	----	----	----	<0.5	
Butyl benzyl phthalate	85-68-7	0.5	mg/kg	----	----	----	----	<0.5	
bis(2-ethylhexyl) phthalate	117-81-7	5.0	mg/kg	----	----	----	----	<5.0	
Di-n-octylphthalate	117-84-0	0.5	mg/kg	----	----	----	----	<0.5	
EP075D: Nitrosamines									
N-Nitrosomethylethylamine	10595-95-6	0.5	mg/kg	----	----	----	----	<0.5	
N-Nitrosodiethylamine	55-18-5	0.5	mg/kg	----	----	----	----	<0.5	
N-Nitrosopyrrolidine	930-55-2	1.0	mg/kg	----	----	----	----	<1.0	
N-Nitrosomorpholine	59-89-2	0.5	mg/kg	----	----	----	----	<0.5	
N-Nitrosodi-n-propylamine	621-64-7	0.5	mg/kg	----	----	----	----	<0.5	
N-Nitrosopiperidine	100-75-4	0.5	mg/kg	----	----	----	----	<0.5	
N-Nitrosodibutylamine	924-16-3	0.5	mg/kg	----	----	----	----	<0.5	
N-Nitrosodiphenyl & Diphenylamine	86-30-6 122-39-4	1.0	mg/kg	----	----	----	----	<1.0	
Methapyrilene	91-80-5	0.5	mg/kg	----	----	----	----	<0.5	
EP075E: Nitroaromatics and Ketones									
2-Picoline	109-06-8	0.5	mg/kg	----	----	----	----	<0.5	
Acetophenone	98-86-2	0.5	mg/kg	----	----	----	----	<0.5	
Nitrobenzene	98-95-3	0.5	mg/kg	----	----	----	----	<0.5	
Isophorone	78-59-1	0.5	mg/kg	----	----	----	----	<0.5	
2,6-Dinitrotoluene	606-20-2	1.0	mg/kg	----	----	----	----	<1.0	
2,4-Dinitrotoluene	121-14-2	1.0	mg/kg	----	----	----	----	<1.0	
1-Naphthylamine	134-32-7	0.5	mg/kg	----	----	----	----	<0.5	
4-Nitroquinoline-N-oxide	56-57-5	0.5	mg/kg	----	----	----	----	<0.5	
5-Nitro-o-toluidine	99-55-8	0.5	mg/kg	----	----	----	----	<0.5	
Azobenzene	103-33-3	1	mg/kg	----	----	----	----	<1	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP22-0.5	TP22-1.0	TP23-0.5	TP23-1.0	TP23-2.5
Sampling date / time					19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00
Compound	CAS Number	LOR	Unit	EB2406372-039	EB2406372-040	EB2406372-042	EB2406372-043	EB2406372-044	
				Result	Result	Result	Result	Result	
EP075E: Nitroaromatics and Ketones - Continued									
1,3,5-Trinitrobenzene	99-35-4	0.5	mg/kg	----	----	----	----	<0.5	
Phenacetin	62-44-2	0.5	mg/kg	----	----	----	----	<0.5	
4-Aminobiphenyl	92-67-1	0.5	mg/kg	----	----	----	----	<0.5	
Pentachloronitrobenzene	82-68-8	0.5	mg/kg	----	----	----	----	<0.5	
Pronamide	23950-58-5	0.5	mg/kg	----	----	----	----	<0.5	
Dimethylaminoazobenzene	60-11-7	0.5	mg/kg	----	----	----	----	<0.5	
Chlorobenzilate	510-15-6	0.5	mg/kg	----	----	----	----	<0.5	
EP075F: Haloethers									
Bis(2-chloroethyl) ether	111-44-4	0.5	mg/kg	----	----	----	----	<0.5	
Bis(2-chloroethoxy) methane	111-91-1	0.5	mg/kg	----	----	----	----	<0.5	
4-Chlorophenyl phenyl ether	7005-72-3	0.5	mg/kg	----	----	----	----	<0.5	
4-Bromophenyl phenyl ether	101-55-3	0.5	mg/kg	----	----	----	----	<0.5	
EP075G: Chlorinated Hydrocarbons									
1,3-Dichlorobenzene	541-73-1	0.5	mg/kg	----	----	----	----	<0.5	
1,4-Dichlorobenzene	106-46-7	0.5	mg/kg	----	----	----	----	<0.5	
1,2-Dichlorobenzene	95-50-1	0.5	mg/kg	----	----	----	----	<0.5	
Hexachloroethane	67-72-1	0.5	mg/kg	----	----	----	----	<0.5	
1,2,4-Trichlorobenzene	120-82-1	0.5	mg/kg	----	----	----	----	<0.5	
Hexachloropropylene	1888-71-7	0.5	mg/kg	----	----	----	----	<0.5	
Hexachlorobutadiene	87-68-3	0.5	mg/kg	----	----	----	----	<0.5	
Hexachlorocyclopentadiene	77-47-4	2.5	mg/kg	----	----	----	----	<2.5	
Pentachlorobenzene	608-93-5	0.5	mg/kg	----	----	----	----	<0.5	
Hexachlorobenzene (HCB)	118-74-1	1.0	mg/kg	----	----	----	----	<1.0	
EP075H: Anilines and Benzidines									
Aniline	62-53-3	0.5	mg/kg	----	----	----	----	<0.5	
4-Chloroaniline	106-47-8	0.5	mg/kg	----	----	----	----	<0.5	
2-Nitroaniline	88-74-4	1.0	mg/kg	----	----	----	----	<1.0	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP22-0.5	TP22-1.0	TP23-0.5	TP23-1.0	TP23-2.5
Sampling date / time					19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00
Compound	CAS Number	LOR	Unit	EB2406372-039	EB2406372-040	EB2406372-042	EB2406372-043	EB2406372-044	
				Result	Result	Result	Result	Result	
EP075H: Anilines and Benzidines - Continued									
3-Nitroaniline	99-09-2	1.0	mg/kg	----	----	----	----	<1.0	
Dibenzofuran	132-64-9	0.5	mg/kg	----	----	----	----	<0.5	
4-Nitroaniline	100-01-6	0.5	mg/kg	----	----	----	----	<0.5	
Carbazole	86-74-8	0.5	mg/kg	----	----	----	----	<0.5	
3,3'-Dichlorobenzidine	91-94-1	0.5	mg/kg	----	----	----	----	<0.5	
EP075I: Organochlorine Pesticides									
alpha-BHC	319-84-6	0.5	mg/kg	----	----	----	----	<0.5	
beta-BHC	319-85-7	0.5	mg/kg	----	----	----	----	<0.5	
gamma-BHC	58-89-9	0.5	mg/kg	----	----	----	----	<0.5	
delta-BHC	319-86-8	0.5	mg/kg	----	----	----	----	<0.5	
Heptachlor	76-44-8	0.5	mg/kg	----	----	----	----	<0.5	
Aldrin	309-00-2	0.5	mg/kg	----	----	----	----	<0.5	
Heptachlor epoxide	1024-57-3	0.5	mg/kg	----	----	----	----	<0.5	
alpha-Endosulfan	959-98-8	0.5	mg/kg	----	----	----	----	<0.5	
4,4'-DDE	72-55-9	0.5	mg/kg	----	----	----	----	<0.5	
Dieldrin	60-57-1	0.5	mg/kg	----	----	----	----	<0.5	
Endrin	72-20-8	0.5	mg/kg	----	----	----	----	<0.5	
beta-Endosulfan	33213-65-9	0.5	mg/kg	----	----	----	----	<0.5	
4,4'-DDD	72-54-8	0.5	mg/kg	----	----	----	----	<0.5	
Endosulfan sulfate	1031-07-8	0.5	mg/kg	----	----	----	----	<0.5	
4,4'-DDT	50-29-3	1.0	mg/kg	----	----	----	----	<1.0	
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.5	mg/kg	----	----	----	----	<0.5	
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.5	mg/kg	----	----	----	----	<0.5	
EP075J: Organophosphorus Pesticides									
Dichlorvos	62-73-7	0.5	mg/kg	----	----	----	----	<0.5	
Dimethoate	60-51-5	0.5	mg/kg	----	----	----	----	<0.5	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP22-0.5	TP22-1.0	TP23-0.5	TP23-1.0	TP23-2.5
Sampling date / time					19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406372-039	EB2406372-040	EB2406372-042	EB2406372-043	EB2406372-044
					Result	Result	Result	Result	Result
EP075J: Organophosphorus Pesticides - Continued									
Diazinon	333-41-5	0.5	mg/kg		----	----	----	----	<0.5
Chlorpyrifos-methyl	5598-13-0	0.5	mg/kg		----	----	----	----	<0.5
Malathion	121-75-5	0.5	mg/kg		----	----	----	----	<0.5
Fenthion	55-38-9	0.5	mg/kg		----	----	----	----	<0.5
Chlorpyrifos	2921-88-2	0.5	mg/kg		----	----	----	----	<0.5
Pirimphos-ethyl	23505-41-1	0.5	mg/kg		----	----	----	----	<0.5
Chlorfenvinphos	470-90-6	0.5	mg/kg		----	----	----	----	<0.5
Prothiofos	34643-46-4	0.5	mg/kg		----	----	----	----	<0.5
Ethion	563-12-2	0.5	mg/kg		----	----	----	----	<0.5
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	10	mg/kg		----	----	----	<10	----
C10 - C14 Fraction	----	50	mg/kg		----	----	----	<50	----
C15 - C28 Fraction	----	100	mg/kg		----	----	----	<100	----
C29 - C36 Fraction	----	100	mg/kg		----	----	----	<100	----
^ C10 - C36 Fraction (sum)	----	50	mg/kg		----	----	----	<50	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg		----	----	----	<10	----
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg		----	----	----	<10	----
>C10 - C16 Fraction	----	50	mg/kg		----	----	----	<50	----
>C16 - C34 Fraction	----	100	mg/kg		----	----	----	<100	----
>C34 - C40 Fraction	----	100	mg/kg		----	----	----	<100	----
^ >C10 - C40 Fraction (sum)	----	50	mg/kg		----	----	----	<50	----
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg		----	----	----	<50	----
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg		----	----	----	<0.2	----
Toluene	108-88-3	0.5	mg/kg		----	----	----	<0.5	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP22-0.5	TP22-1.0	TP23-0.5	TP23-1.0	TP23-2.5
Sampling date / time				19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2406372-039	EB2406372-040	EB2406372-042	EB2406372-043	EB2406372-044	
				Result	Result	Result	Result	Result	
EP080: BTEXN - Continued									
Ethylbenzene	100-41-4	0.5	mg/kg	----	----	----	<0.5	----	
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	----	----	----	<0.5	----	
ortho-Xylene	95-47-6	0.5	mg/kg	----	----	----	<0.5	----	
^ Sum of BTEX	----	0.2	mg/kg	----	----	----	<0.2	----	
^ Total Xylenes	----	0.5	mg/kg	----	----	----	<0.5	----	
Naphthalene	91-20-3	1	mg/kg	----	----	----	<1	----	
EP075S: Acid Extractable Surrogates									
2-Fluorophenol	367-12-4	0.5	%	----	----	----	----	120	
Phenol-d6	13127-88-3	0.5	%	----	----	----	----	104	
2-Chlorophenol-D4	93951-73-6	0.5	%	----	----	----	----	102	
2.4.6-Tribromophenol	118-79-6	0.5	%	----	----	----	----	99.2	
EP075T: Base/Neutral Extractable Surrogates									
Nitrobenzene-D5	4165-60-0	0.5	%	----	----	----	----	116	
1.2-Dichlorobenzene-D4	2199-69-1	0.5	%	----	----	----	----	76.0	
2-Fluorobiphenyl	321-60-8	0.5	%	----	----	----	----	113	
Anthracene-d10	1719-06-8	0.5	%	----	----	----	----	103	
4-Terphenyl-d14	1718-51-0	0.5	%	----	----	----	----	112	
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	0.2	%	----	----	----	99.1	----	
Toluene-D8	2037-26-5	0.2	%	----	----	----	85.8	----	
4-Bromofluorobenzene	460-00-4	0.2	%	----	----	----	94.8	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP24-0.5	TP24-0.7	TP24-1.0	TP25-0.5	TP25-1.0
Sampling date / time				19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2406372-046	EB2406372-047	EB2406372-048	EB2406372-050	EB2406372-051	
				Result	Result	Result	Result	Result	
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	1.0	%	12.2	15.4	19.2	14.8	16.9	
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	9	22	32	8	21	
Copper	7440-50-8	5	mg/kg	<5	<5	<5	16	<5	
Lead	7439-92-1	5	mg/kg	6	6	8	21	7	
Nickel	7440-02-0	2	mg/kg	<2	<2	2	<2	<2	
Zinc	7440-66-6	5	mg/kg	7	14	28	22	56	
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.1	mg/kg	0.6	0.3	0.1	1.3	0.2	
EP066: Polychlorinated Biphenyls (PCB)									
Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	----	----	----	----	
EP068A: Organochlorine Pesticides (OC)									
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	----	----	----	----	
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	----	----	----	----	
beta-BHC	319-85-7	0.05	mg/kg	<0.05	----	----	----	----	
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	----	----	----	----	
delta-BHC	319-86-8	0.05	mg/kg	<0.05	----	----	----	----	
Heptachlor	76-44-8	0.05	mg/kg	<0.05	----	----	----	----	
Aldrin	309-00-2	0.05	mg/kg	<0.05	----	----	----	----	
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	----	----	----	----	
^ Total Chlordane (sum)	----	0.05	mg/kg	<0.05	----	----	----	----	
trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	----	----	----	----	
alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	----	----	----	----	
cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	----	----	----	----	
Dieldrin	60-57-1	0.05	mg/kg	<0.05	----	----	----	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP24-0.5	TP24-0.7	TP24-1.0	TP25-0.5	TP25-1.0
Sampling date / time					19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406372-046	EB2406372-047	EB2406372-048	EB2406372-050	EB2406372-051
					Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued									
4.4'-DDE	72-55-9	0.05	mg/kg		<0.05	----	----	----	----
Endrin	72-20-8	0.05	mg/kg		<0.05	----	----	----	----
beta-Endosulfan	33213-65-9	0.05	mg/kg		<0.05	----	----	----	----
[^] Endosulfan (sum)	115-29-7	0.05	mg/kg		<0.05	----	----	----	----
4.4'-DDD	72-54-8	0.05	mg/kg		<0.05	----	----	----	----
Endrin aldehyde	7421-93-4	0.05	mg/kg		<0.05	----	----	----	----
Endosulfan sulfate	1031-07-8	0.05	mg/kg		<0.05	----	----	----	----
4.4'-DDT	50-29-3	0.2	mg/kg		<0.2	----	----	----	----
Endrin ketone	53494-70-5	0.05	mg/kg		<0.05	----	----	----	----
Methoxychlor	72-43-5	0.2	mg/kg		<0.2	----	----	----	----
[^] Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg		<0.05	----	----	----	----
[^] Sum of DDD + DDE + DDT	72-54-8/72-55-9/5-0-2	0.05	mg/kg		<0.05	----	----	----	----
EP068B: Organophosphorus Pesticides (OP)									
Dichlorvos	62-73-7	0.05	mg/kg		<0.05	----	----	----	----
Demeton-S-methyl	919-86-8	0.05	mg/kg		<0.05	----	----	----	----
Monocrotophos	6923-22-4	0.2	mg/kg		<0.2	----	----	----	----
Dimethoate	60-51-5	0.05	mg/kg		<0.05	----	----	----	----
Diazinon	333-41-5	0.05	mg/kg		<0.05	----	----	----	----
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg		<0.05	----	----	----	----
Parathion-methyl	298-00-0	0.2	mg/kg		<0.2	----	----	----	----
Malathion	121-75-5	0.05	mg/kg		<0.05	----	----	----	----
Fenthion	55-38-9	0.05	mg/kg		<0.05	----	----	----	----
Chlorpyrifos	2921-88-2	0.05	mg/kg		<0.05	----	----	----	----
Parathion	56-38-2	0.2	mg/kg		<0.2	----	----	----	----
Pirimphos-ethyl	23505-41-1	0.05	mg/kg		<0.05	----	----	----	----
Chlorfenvinphos	470-90-6	0.05	mg/kg		<0.05	----	----	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP24-0.5	TP24-0.7	TP24-1.0	TP25-0.5	TP25-1.0
Sampling date / time					19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406372-046	EB2406372-047	EB2406372-048	EB2406372-050	EB2406372-051
					Result	Result	Result	Result	Result
EP068B: Organophosphorus Pesticides (OP) - Continued									
Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	----	----	----	----	----
Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	----	----	----	----	----
Prothiofos	34643-46-4	0.05	mg/kg	<0.05	----	----	----	----	----
Ethion	563-12-2	0.05	mg/kg	<0.05	----	----	----	----	----
Carbophenothion	786-19-6	0.05	mg/kg	<0.05	----	----	----	----	----
Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	----	----	----	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	0.5	mg/kg	<0.5	----	----	----	----	----
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	----	----	----	----	----
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	----	----	----	----	----
Fluorene	86-73-7	0.5	mg/kg	<0.5	----	----	----	----	----
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	----	----	----	----	----
Anthracene	120-12-7	0.5	mg/kg	<0.5	----	----	----	----	----
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	----	----	----	----	----
Pyrene	129-00-0	0.5	mg/kg	<0.5	----	----	----	----	----
Benzo(a)anthracene	56-55-3	0.5	mg/kg	<0.5	----	----	----	----	----
Chrysene	218-01-9	0.5	mg/kg	<0.5	----	----	----	----	----
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	----	----	----	----	----
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	----	----	----	----	----
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	----	----	----	----	----
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	----	----	----	----	----
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	----	----	----	----	----
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	----	----	----	----	----
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	----	----	----	----	----
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	----	----	----	----	----
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	0.6	----	----	----	----	----
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	1.2	----	----	----	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP24-0.5	TP24-0.7	TP24-1.0	TP25-0.5	TP25-1.0
Sampling date / time					19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406372-046	EB2406372-047	EB2406372-048	EB2406372-050	EB2406372-051
					Result	Result	Result	Result	Result
EP075A: Phenolic Compounds									
Phenol	108-95-2	0.5	mg/kg		----	----	----	<0.5	<0.5
2-Chlorophenol	95-57-8	0.5	mg/kg		----	----	----	<0.5	<0.5
2-Methylphenol	95-48-7	0.5	mg/kg		----	----	----	<0.5	<0.5
3- & 4-Methylphenol	1319-77-3	0.5	mg/kg		----	----	----	<0.5	<0.5
2-Nitrophenol	88-75-5	0.5	mg/kg		----	----	----	<0.5	<0.5
2,4-Dimethylphenol	105-67-9	0.5	mg/kg		----	----	----	<0.5	<0.5
2,4-Dichlorophenol	120-83-2	0.5	mg/kg		----	----	----	<0.5	<0.5
2,6-Dichlorophenol	87-65-0	0.5	mg/kg		----	----	----	<0.5	<0.5
4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg		----	----	----	<0.5	<0.5
2,4,6-Trichlorophenol	88-06-2	0.5	mg/kg		----	----	----	<0.5	<0.5
2,4,5-Trichlorophenol	95-95-4	0.5	mg/kg		----	----	----	<0.5	<0.5
Pentachlorophenol	87-86-5	1	mg/kg		----	----	----	<1	<1
EP075B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	0.5	mg/kg		----	----	----	<0.5	<0.5
2-Methylnaphthalene	91-57-6	0.5	mg/kg		----	----	----	<0.5	<0.5
2-Chloronaphthalene	91-58-7	0.5	mg/kg		----	----	----	<0.5	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg		----	----	----	<0.5	<0.5
Acenaphthene	83-32-9	0.5	mg/kg		----	----	----	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg		----	----	----	<0.5	<0.5
Phenanthrene	85-01-8	0.5	mg/kg		----	----	----	<0.5	<0.5
Anthracene	120-12-7	0.5	mg/kg		----	----	----	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg		----	----	----	<0.5	<0.5
Pyrene	129-00-0	0.5	mg/kg		----	----	----	<0.5	<0.5
N-2-Fluorenyl Acetamide	53-96-3	0.5	mg/kg		----	----	----	<0.5	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg		----	----	----	<0.5	<0.5
Chrysene	218-01-9	0.5	mg/kg		----	----	----	<0.5	<0.5



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP24-0.5	TP24-0.7	TP24-1.0	TP25-0.5	TP25-1.0
Sampling date / time				19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2406372-046	EB2406372-047	EB2406372-048	EB2406372-050	EB2406372-051	
				Result	Result	Result	Result	Result	
EP075B: Polynuclear Aromatic Hydrocarbons - Continued									
Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1	mg/kg	----	----	----	<1	<1	
7.12-Dimethylbenz(a)anthracene	57-97-6	0.5	mg/kg	----	----	----	<0.5	<0.5	
Benzo(a)pyrene	50-32-8	0.5	mg/kg	----	----	----	<0.5	<0.5	
3-Methylcholanthrene	56-49-5	0.5	mg/kg	----	----	----	<0.5	<0.5	
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	----	----	----	<0.5	<0.5	
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	----	----	----	<0.5	<0.5	
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	----	----	----	<0.5	<0.5	
^ Sum of PAHs	----	0.5	mg/kg	----	----	----	<0.5	<0.5	
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	----	----	----	<0.5	<0.5	
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	----	----	----	0.6	0.6	
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	----	----	----	1.2	1.2	
EP075C: Phthalate Esters									
Dimethyl phthalate	131-11-3	0.5	mg/kg	----	----	----	<0.5	<0.5	
Diethyl phthalate	84-66-2	0.5	mg/kg	----	----	----	<0.5	<0.5	
Di-n-butyl phthalate	84-74-2	0.5	mg/kg	----	----	----	<0.5	<0.5	
Butyl benzyl phthalate	85-68-7	0.5	mg/kg	----	----	----	<0.5	<0.5	
bis(2-ethylhexyl) phthalate	117-81-7	5.0	mg/kg	----	----	----	<5.0	<5.0	
Di-n-octylphthalate	117-84-0	0.5	mg/kg	----	----	----	<0.5	<0.5	
EP075D: Nitrosamines									
N-Nitrosomethylethylamine	10595-95-6	0.5	mg/kg	----	----	----	<0.5	<0.5	
N-Nitrosodiethylamine	55-18-5	0.5	mg/kg	----	----	----	<0.5	<0.5	
N-Nitrosopyrrolidine	930-55-2	1.0	mg/kg	----	----	----	<1.0	<1.0	
N-Nitrosomorpholine	59-89-2	0.5	mg/kg	----	----	----	<0.5	<0.5	
N-Nitrosodi-n-propylamine	621-64-7	0.5	mg/kg	----	----	----	<0.5	<0.5	
N-Nitrosopiperidine	100-75-4	0.5	mg/kg	----	----	----	<0.5	<0.5	
N-Nitrosodibutylamine	924-16-3	0.5	mg/kg	----	----	----	<0.5	<0.5	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)					Sample ID	TP24-0.5	TP24-0.7	TP24-1.0	TP25-0.5	TP25-1.0
Sampling date / time					19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406372-046	EB2406372-047	EB2406372-048	EB2406372-050	EB2406372-051	
					Result	Result	Result	Result	Result	
EP075D: Nitrosamines - Continued										
N-Nitrosodiphenyl & Diphenylamine	86-30-6 122-39-4	1.0	mg/kg		----	----	----	<1.0	<1.0	
Methapyrilene	91-80-5	0.5	mg/kg		----	----	----	<0.5	<0.5	
EP075E: Nitroaromatics and Ketones										
2-Picoline	109-06-8	0.5	mg/kg		----	----	----	<0.5	<0.5	
Acetophenone	98-86-2	0.5	mg/kg		----	----	----	<0.5	<0.5	
Nitrobenzene	98-95-3	0.5	mg/kg		----	----	----	<0.5	<0.5	
Isophorone	78-59-1	0.5	mg/kg		----	----	----	<0.5	<0.5	
2,6-Dinitrotoluene	606-20-2	1.0	mg/kg		----	----	----	<1.0	<1.0	
2,4-Dinitrotoluene	121-14-2	1.0	mg/kg		----	----	----	<1.0	<1.0	
1-Naphthylamine	134-32-7	0.5	mg/kg		----	----	----	<0.5	<0.5	
4-Nitroquinoline-N-oxide	56-57-5	0.5	mg/kg		----	----	----	<0.5	<0.5	
5-Nitro-o-toluidine	99-55-8	0.5	mg/kg		----	----	----	<0.5	<0.5	
Azobenzene	103-33-3	1	mg/kg		----	----	----	<1	<1	
1,3,5-Trinitrobenzene	99-35-4	0.5	mg/kg		----	----	----	<0.5	<0.5	
Phenacetin	62-44-2	0.5	mg/kg		----	----	----	<0.5	<0.5	
4-Aminobiphenyl	92-67-1	0.5	mg/kg		----	----	----	<0.5	<0.5	
Pentachloronitrobenzene	82-68-8	0.5	mg/kg		----	----	----	<0.5	<0.5	
Pronamide	23950-58-5	0.5	mg/kg		----	----	----	<0.5	<0.5	
Dimethylaminoazobenzene	60-11-7	0.5	mg/kg		----	----	----	<0.5	<0.5	
Chlorobenzilate	510-15-6	0.5	mg/kg		----	----	----	<0.5	<0.5	
EP075F: Haloethers										
Bis(2-chloroethyl) ether	111-44-4	0.5	mg/kg		----	----	----	<0.5	<0.5	
Bis(2-chloroethoxy) methane	111-91-1	0.5	mg/kg		----	----	----	<0.5	<0.5	
4-Chlorophenyl phenyl ether	7005-72-3	0.5	mg/kg		----	----	----	<0.5	<0.5	
4-Bromophenyl phenyl ether	101-55-3	0.5	mg/kg		----	----	----	<0.5	<0.5	
EP075G: Chlorinated Hydrocarbons										



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP24-0.5	TP24-0.7	TP24-1.0	TP25-0.5	TP25-1.0
Sampling date / time					19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406372-046	EB2406372-047	EB2406372-048	EB2406372-050	EB2406372-051
					Result	Result	Result	Result	Result
EP075G: Chlorinated Hydrocarbons - Continued									
1.3-Dichlorobenzene	541-73-1	0.5	mg/kg		----	----	----	<0.5	<0.5
1.4-Dichlorobenzene	106-46-7	0.5	mg/kg		----	----	----	<0.5	<0.5
1.2-Dichlorobenzene	95-50-1	0.5	mg/kg		----	----	----	<0.5	<0.5
Hexachloroethane	67-72-1	0.5	mg/kg		----	----	----	<0.5	<0.5
1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg		----	----	----	<0.5	<0.5
Hexachloropropylene	1888-71-7	0.5	mg/kg		----	----	----	<0.5	<0.5
Hexachlorobutadiene	87-68-3	0.5	mg/kg		----	----	----	<0.5	<0.5
Hexachlorocyclopentadiene	77-47-4	2.5	mg/kg		----	----	----	<2.5	<2.5
Pentachlorobenzene	608-93-5	0.5	mg/kg		----	----	----	<0.5	<0.5
Hexachlorobenzene (HCB)	118-74-1	1.0	mg/kg		----	----	----	<1.0	<1.0
EP075H: Anilines and Benzidines									
Aniline	62-53-3	0.5	mg/kg		----	----	----	<0.5	<0.5
4-Chloroaniline	106-47-8	0.5	mg/kg		----	----	----	<0.5	<0.5
2-Nitroaniline	88-74-4	1.0	mg/kg		----	----	----	<1.0	<1.0
3-Nitroaniline	99-09-2	1.0	mg/kg		----	----	----	<1.0	<1.0
Dibenzofuran	132-64-9	0.5	mg/kg		----	----	----	<0.5	<0.5
4-Nitroaniline	100-01-6	0.5	mg/kg		----	----	----	<0.5	<0.5
Carbazole	86-74-8	0.5	mg/kg		----	----	----	<0.5	<0.5
3,3'-Dichlorobenzidine	91-94-1	0.5	mg/kg		----	----	----	<0.5	<0.5
EP075I: Organochlorine Pesticides									
alpha-BHC	319-84-6	0.5	mg/kg		----	----	----	<0.5	<0.5
beta-BHC	319-85-7	0.5	mg/kg		----	----	----	<0.5	<0.5
gamma-BHC	58-89-9	0.5	mg/kg		----	----	----	<0.5	<0.5
delta-BHC	319-86-8	0.5	mg/kg		----	----	----	<0.5	<0.5
Heptachlor	76-44-8	0.5	mg/kg		----	----	----	<0.5	<0.5
Aldrin	309-00-2	0.5	mg/kg		----	----	----	<0.5	<0.5
Heptachlor epoxide	1024-57-3	0.5	mg/kg		----	----	----	<0.5	<0.5



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP24-0.5	TP24-0.7	TP24-1.0	TP25-0.5	TP25-1.0
Sampling date / time				19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2406372-046	EB2406372-047	EB2406372-048	EB2406372-050	EB2406372-051	
				Result	Result	Result	Result	Result	
EP075I: Organochlorine Pesticides - Continued									
alpha-Endosulfan	959-98-8	0.5	mg/kg	----	----	----	<0.5	<0.5	
4.4'-DDE	72-55-9	0.5	mg/kg	----	----	----	<0.5	<0.5	
Dieldrin	60-57-1	0.5	mg/kg	----	----	----	<0.5	<0.5	
Endrin	72-20-8	0.5	mg/kg	----	----	----	<0.5	<0.5	
beta-Endosulfan	33213-65-9	0.5	mg/kg	----	----	----	<0.5	<0.5	
4.4'-DDD	72-54-8	0.5	mg/kg	----	----	----	<0.5	<0.5	
Endosulfan sulfate	1031-07-8	0.5	mg/kg	----	----	----	<0.5	<0.5	
4.4'-DDT	50-29-3	1.0	mg/kg	----	----	----	<1.0	<1.0	
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-29-3	0.5	mg/kg	----	----	----	<0.5	<0.5	
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.5	mg/kg	----	----	----	<0.5	<0.5	
EP075J: Organophosphorus Pesticides									
Dichlorvos	62-73-7	0.5	mg/kg	----	----	----	<0.5	<0.5	
Dimethoate	60-51-5	0.5	mg/kg	----	----	----	<0.5	<0.5	
Diazinon	333-41-5	0.5	mg/kg	----	----	----	<0.5	<0.5	
Chlorpyrifos-methyl	5598-13-0	0.5	mg/kg	----	----	----	<0.5	<0.5	
Malathion	121-75-5	0.5	mg/kg	----	----	----	<0.5	<0.5	
Fenthion	55-38-9	0.5	mg/kg	----	----	----	<0.5	<0.5	
Chlorpyrifos	2921-88-2	0.5	mg/kg	----	----	----	<0.5	<0.5	
Pirimphos-ethyl	23505-41-1	0.5	mg/kg	----	----	----	<0.5	<0.5	
Chlorfenvinphos	470-90-6	0.5	mg/kg	----	----	----	<0.5	<0.5	
Prothiofos	34643-46-4	0.5	mg/kg	----	----	----	<0.5	<0.5	
Ethion	563-12-2	0.5	mg/kg	----	----	----	<0.5	<0.5	
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	10	mg/kg	<10	----	----	----	----	
C10 - C14 Fraction	----	50	mg/kg	<50	----	----	----	----	
C15 - C28 Fraction	----	100	mg/kg	<100	----	----	----	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP24-0.5	TP24-0.7	TP24-1.0	TP25-0.5	TP25-1.0
Sampling date / time					19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406372-046	EB2406372-047	EB2406372-048	EB2406372-050	EB2406372-051
					Result	Result	Result	Result	Result
EP080/071: Total Petroleum Hydrocarbons - Continued									
C29 - C36 Fraction	----	100	mg/kg		<100	----	----	----	----
[^] C10 - C36 Fraction (sum)	----	50	mg/kg		<50	----	----	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg		<10	----	----	----	----
[^] C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg		<10	----	----	----	----
>C10 - C16 Fraction	----	50	mg/kg		<50	----	----	----	----
>C16 - C34 Fraction	----	100	mg/kg		<100	----	----	----	----
>C34 - C40 Fraction	----	100	mg/kg		<100	----	----	----	----
[^] >C10 - C40 Fraction (sum)	----	50	mg/kg		<50	----	----	----	----
[^] >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg		<50	----	----	----	----
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg		<0.2	----	----	----	----
Toluene	108-88-3	0.5	mg/kg		<0.5	----	----	----	----
Ethylbenzene	100-41-4	0.5	mg/kg		<0.5	----	----	----	----
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		<0.5	----	----	----	----
ortho-Xylene	95-47-6	0.5	mg/kg		<0.5	----	----	----	----
[^] Sum of BTEX	----	0.2	mg/kg		<0.2	----	----	----	----
[^] Total Xylenes	----	0.5	mg/kg		<0.5	----	----	----	----
Naphthalene	91-20-3	1	mg/kg		<1	----	----	----	----
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg		<0.0002	<0.0002	----	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg		<0.0002	<0.0002	----	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg		<0.0002	<0.0002	----	----	----
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg		<0.001	<0.001	----	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP24-0.5	TP24-0.7	TP24-1.0	TP25-0.5	TP25-1.0
Sampling date / time					19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406372-046	EB2406372-047	EB2406372-048	EB2406372-050	EB2406372-051
					Result	Result	Result	Result	Result
EP231B: Perfluoroalkyl Carboxylic Acids - Continued									
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg		<0.0002	<0.0002	----	----	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg		<0.0002	<0.0002	----	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg		<0.0002	<0.0002	----	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg		<0.0002	<0.0002	----	----	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg		<0.0005	<0.0005	----	----	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg		<0.0005	<0.0005	----	----	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg		<0.0005	<0.0005	----	----	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg		<0.0005	<0.0005	----	----	----
EP231P: PFAS Sums									
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg		<0.0002	<0.0002	----	----	----
Sum of PFAS (WA DER List)	----	0.0002	mg/kg		<0.0002	<0.0002	----	----	----
EP066S: PCB Surrogate									
Decachlorobiphenyl	2051-24-3	0.1	%		126	----	----	----	----
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.05	%		120	----	----	----	----
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.05	%		101	----	----	----	----
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	0.5	%		88.9	----	----	----	----
2-Chlorophenol-D4	93951-73-6	0.5	%		87.9	----	----	----	----
2,4,6-Tribromophenol	118-79-6	0.5	%		71.1	----	----	----	----
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	0.5	%		89.1	----	----	----	----
Anthracene-d10	1719-06-8	0.5	%		93.8	----	----	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP24-0.5	TP24-0.7	TP24-1.0	TP25-0.5	TP25-1.0
Sampling date / time				19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2406372-046	EB2406372-047	EB2406372-048	EB2406372-050	EB2406372-051	
				Result	Result	Result	Result	Result	
EP075(SIM)T: PAH Surrogates - Continued									
4-Terphenyl-d14	1718-51-0	0.5	%	130	----	----	----	----	
EP075S: Acid Extractable Surrogates									
2-Fluorophenol	367-12-4	0.5	%	----	----	----	112	100	
Phenol-d6	13127-88-3	0.5	%	----	----	----	95.7	84.4	
2-Chlorophenol-D4	93951-73-6	0.5	%	----	----	----	96.9	86.8	
2,4,6-Tribromophenol	118-79-6	0.5	%	----	----	----	96.4	81.6	
EP075T: Base/Neutral Extractable Surrogates									
Nitrobenzene-D5	4165-60-0	0.5	%	----	----	----	102	90.1	
1,2-Dichlorobenzene-D4	2199-69-1	0.5	%	----	----	----	64.1	50.8	
2-Fluorobiphenyl	321-60-8	0.5	%	----	----	----	107	99.5	
Anthracene-d10	1719-06-8	0.5	%	----	----	----	103	93.0	
4-Terphenyl-d14	1718-51-0	0.5	%	----	----	----	111	97.8	
EP080S: TPH(V)/BTEX Surrogates									
1,2-Dichloroethane-D4	17060-07-0	0.2	%	102	----	----	----	----	
Toluene-D8	2037-26-5	0.2	%	93.6	----	----	----	----	
4-Bromofluorobenzene	460-00-4	0.2	%	99.4	----	----	----	----	
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.0002	%	105	106	----	----	----	
13C8-PFOA	----	0.0002	%	99.5	98.5	----	----	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP26-0.1	TP26-0.5	TP26-1.0	TP27-0.1	TP27-0.5
Sampling date / time				19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	20-Feb-2024 00:00	20-Feb-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2406372-052	EB2406372-053	EB2406372-054	EB2406372-055	EB2406372-056	
				Result	Result	Result	Result	Result	
EA055: Moisture Content									
Moisture Content	----	1.0	%	----	----	----	----	----	11.9
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	1.0	%	----	10.6	15.5	10.9	----	----
EA200: AS 4964 - 2004 Identification of Asbestos in Soils									
Asbestos Detected	1332-21-4	0.1	g/kg	No	----	----	No	----	
Asbestos (Trace)	1332-21-4	-	-	No	----	----	No	----	
Asbestos Type	1332-21-4	-	--	-	----	----	-	----	
Sample weight (dry)	----	0.01	g	5.50	----	----	3.80	----	
APPROVED IDENTIFIER:	----	-	--	M. TRAN	----	----	M. TRAN	----	
Synthetic Mineral Fibre	----	-	--	No	----	----	No	----	
Organic Fibre	----	-	--	Yes	----	----	Yes	----	
EG005(ED093)T: Total Metals by ICP-AES									
Arsenic	7440-38-2	5	mg/kg	----	<5	<5	<5	<5	
Cadmium	7440-43-9	1	mg/kg	----	<1	<1	<1	<1	
Chromium	7440-47-3	2	mg/kg	----	14	20	6	6	
Copper	7440-50-8	5	mg/kg	----	<5	<5	6	<5	
Lead	7439-92-1	5	mg/kg	----	8	<5	18	<5	
Nickel	7440-02-0	2	mg/kg	----	<2	<2	<2	<2	
Zinc	7440-66-6	5	mg/kg	----	20	26	86	37	
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.1	mg/kg	----	0.1	<0.1	0.5	0.2	
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	10	mg/kg	----	----	----	----	<10	
C10 - C14 Fraction	----	50	mg/kg	----	----	----	----	<50	
C15 - C28 Fraction	----	100	mg/kg	----	----	----	----	<100	
C29 - C36 Fraction	----	100	mg/kg	----	----	----	----	<100	
^ C10 - C36 Fraction (sum)	----	50	mg/kg	----	----	----	----	<50	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP26-0.1	TP26-0.5	TP26-1.0	TP27-0.1	TP27-0.5
Sampling date / time					19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	20-Feb-2024 00:00	20-Feb-2024 00:00
Compound	CAS Number	LOR	Unit	EB2406372-052	EB2406372-053	EB2406372-054	EB2406372-055	EB2406372-056	
				Result	Result	Result	Result	Result	
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg	----	----	----	----	----	<10
[^] C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	----	----	----	----	----	<10
>C10 - C16 Fraction	----	50	mg/kg	----	----	----	----	----	<50
>C16 - C34 Fraction	----	100	mg/kg	----	----	----	----	----	<100
>C34 - C40 Fraction	----	100	mg/kg	----	----	----	----	----	<100
[^] >C10 - C40 Fraction (sum)	----	50	mg/kg	----	----	----	----	----	<50
[^] >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	----	----	----	----	----	<50
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg	----	----	----	----	----	<0.2
Toluene	108-88-3	0.5	mg/kg	----	----	----	----	----	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg	----	----	----	----	----	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	----	----	----	----	----	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg	----	----	----	----	----	<0.5
[^] Sum of BTEX	----	0.2	mg/kg	----	----	----	----	----	<0.2
[^] Total Xylenes	----	0.5	mg/kg	----	----	----	----	----	<0.5
Naphthalene	91-20-3	1	mg/kg	----	----	----	----	----	<1
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	----	----	----	<0.0002	----	
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	----	----	----	<0.0002	----	
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	----	----	----	<0.0002	----	
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	----	----	----	<0.001	----	
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	----	----	----	<0.0002	----	
Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	----	----	----	<0.0002	----	
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	----	----	----	<0.0002	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP26-0.1	TP26-0.5	TP26-1.0	TP27-0.1	TP27-0.5
Sampling date / time				19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	20-Feb-2024 00:00	20-Feb-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2406372-052	EB2406372-053	EB2406372-054	EB2406372-055	EB2406372-056	
				Result	Result	Result	Result	Result	
EP231B: Perfluoroalkyl Carboxylic Acids - Continued									
Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	----	----	----	<0.0002	----	
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	----	----	----	<0.0005	----	
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	----	----	----	<0.0005	----	
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	----	----	----	<0.0005	----	
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	----	----	----	<0.0005	----	
EP231P: PFAS Sums									
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg	----	----	----	<0.0002	----	
Sum of PFAS (WA DER List)	----	0.0002	mg/kg	----	----	----	<0.0002	----	
EP080S: TPH(V)/BTEX Surrogates									
1,2-Dichloroethane-D4	17060-07-0	0.2	%	----	----	----	----	101	
Toluene-D8	2037-26-5	0.2	%	----	----	----	----	89.8	
4-Bromofluorobenzene	460-00-4	0.2	%	----	----	----	----	85.0	
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.0002	%	----	----	----	94.5	----	
13C8-PFOA	----	0.0002	%	----	----	----	97.5	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP27-1.0	TP28-0.1	TP28-0.5	TP29-0.1	TP29-0.5
Sampling date / time				20-Feb-2024 00:00	20-Feb-2024 00:00	20-Feb-2024 00:00	20-Feb-2024 00:00	20-Feb-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2406372-057	EB2406372-058	EB2406372-059	EB2406372-061	EB2406372-062	
				Result	Result	Result	Result	Result	
EA055: Moisture Content									
Moisture Content	----	1.0	%	12.5	----	----	----	----	
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	1.0	%	----	10.3	13.2	14.8	16.2	
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	7	4	7	<2	8	
Copper	7440-50-8	5	mg/kg	5	<5	6	<5	<5	
Lead	7439-92-1	5	mg/kg	5	8	9	<5	<5	
Nickel	7440-02-0	2	mg/kg	<2	<2	<2	<2	<2	
Zinc	7440-66-6	5	mg/kg	113	15	14	<5	<5	
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.1	mg/kg	0.2	0.2	0.4	<0.1	<0.1	
EP075A: Phenolic Compounds									
Phenol	108-95-2	0.5	mg/kg	----	----	----	----	<0.5	
2-Chlorophenol	95-57-8	0.5	mg/kg	----	----	----	----	<0.5	
2-Methylphenol	95-48-7	0.5	mg/kg	----	----	----	----	<0.5	
3- & 4-Methylphenol	1319-77-3	0.5	mg/kg	----	----	----	----	<0.5	
2-Nitrophenol	88-75-5	0.5	mg/kg	----	----	----	----	<0.5	
2,4-Dimethylphenol	105-67-9	0.5	mg/kg	----	----	----	----	<0.5	
2,4-Dichlorophenol	120-83-2	0.5	mg/kg	----	----	----	----	<0.5	
2,6-Dichlorophenol	87-65-0	0.5	mg/kg	----	----	----	----	<0.5	
4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg	----	----	----	----	<0.5	
2,4,6-Trichlorophenol	88-06-2	0.5	mg/kg	----	----	----	----	<0.5	
2,4,5-Trichlorophenol	95-95-4	0.5	mg/kg	----	----	----	----	<0.5	
Pentachlorophenol	87-86-5	1	mg/kg	----	----	----	----	<1	
EP075B: Polynuclear Aromatic Hydrocarbons									



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP27-1.0	TP28-0.1	TP28-0.5	TP29-0.1	TP29-0.5
Sampling date / time				20-Feb-2024 00:00	20-Feb-2024 00:00	20-Feb-2024 00:00	20-Feb-2024 00:00	20-Feb-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2406372-057	EB2406372-058	EB2406372-059	EB2406372-061	EB2406372-062	
				Result	Result	Result	Result	Result	
EP075B: Polynuclear Aromatic Hydrocarbons - Continued									
Naphthalene	91-20-3	0.5	mg/kg	----	----	----	----	<0.5	
2-Methylnaphthalene	91-57-6	0.5	mg/kg	----	----	----	----	<0.5	
2-Chloronaphthalene	91-58-7	0.5	mg/kg	----	----	----	----	<0.5	
Acenaphthylene	208-96-8	0.5	mg/kg	----	----	----	----	<0.5	
Acenaphthene	83-32-9	0.5	mg/kg	----	----	----	----	<0.5	
Fluorene	86-73-7	0.5	mg/kg	----	----	----	----	<0.5	
Phenanthrene	85-01-8	0.5	mg/kg	----	----	----	----	<0.5	
Anthracene	120-12-7	0.5	mg/kg	----	----	----	----	<0.5	
Fluoranthene	206-44-0	0.5	mg/kg	----	----	----	----	<0.5	
Pyrene	129-00-0	0.5	mg/kg	----	----	----	----	<0.5	
N-2-Fluorenyl Acetamide	53-96-3	0.5	mg/kg	----	----	----	----	<0.5	
Benz(a)anthracene	56-55-3	0.5	mg/kg	----	----	----	----	<0.5	
Chrysene	218-01-9	0.5	mg/kg	----	----	----	----	<0.5	
Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1	mg/kg	----	----	----	----	<1	
7.12-Dimethylbenz(a)anthracene	57-97-6	0.5	mg/kg	----	----	----	----	<0.5	
Benzo(a)pyrene	50-32-8	0.5	mg/kg	----	----	----	----	<0.5	
3-Methylcholanthrene	56-49-5	0.5	mg/kg	----	----	----	----	<0.5	
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	----	----	----	----	<0.5	
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	----	----	----	----	<0.5	
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	----	----	----	----	<0.5	
^ Sum of PAHs	----	0.5	mg/kg	----	----	----	----	<0.5	
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	----	----	----	----	<0.5	
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	----	----	----	----	0.6	
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	----	----	----	----	1.2	
EP075C: Phthalate Esters									
Dimethyl phthalate	131-11-3	0.5	mg/kg	----	----	----	----	<0.5	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP27-1.0	TP28-0.1	TP28-0.5	TP29-0.1	TP29-0.5
Sampling date / time					20-Feb-2024 00:00	20-Feb-2024 00:00	20-Feb-2024 00:00	20-Feb-2024 00:00	20-Feb-2024 00:00
Compound	CAS Number	LOR	Unit	EB2406372-057	EB2406372-058	EB2406372-059	EB2406372-061	EB2406372-062	
				Result	Result	Result	Result	Result	
EP075E: Nitroaromatics and Ketones - Continued									
1.3.5-Trinitrobenzene	99-35-4	0.5	mg/kg	----	----	----	----	<0.5	
Phenacetin	62-44-2	0.5	mg/kg	----	----	----	----	<0.5	
4-Aminobiphenyl	92-67-1	0.5	mg/kg	----	----	----	----	<0.5	
Pentachloronitrobenzene	82-68-8	0.5	mg/kg	----	----	----	----	<0.5	
Pronamide	23950-58-5	0.5	mg/kg	----	----	----	----	<0.5	
Dimethylaminoazobenzene	60-11-7	0.5	mg/kg	----	----	----	----	<0.5	
Chlorobenzilate	510-15-6	0.5	mg/kg	----	----	----	----	<0.5	
EP075F: Haloethers									
Bis(2-chloroethyl) ether	111-44-4	0.5	mg/kg	----	----	----	----	<0.5	
Bis(2-chloroethoxy) methane	111-91-1	0.5	mg/kg	----	----	----	----	<0.5	
4-Chlorophenyl phenyl ether	7005-72-3	0.5	mg/kg	----	----	----	----	<0.5	
4-Bromophenyl phenyl ether	101-55-3	0.5	mg/kg	----	----	----	----	<0.5	
EP075G: Chlorinated Hydrocarbons									
1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	----	----	----	----	<0.5	
1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	----	----	----	----	<0.5	
1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	----	----	----	----	<0.5	
Hexachloroethane	67-72-1	0.5	mg/kg	----	----	----	----	<0.5	
1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	----	----	----	----	<0.5	
Hexachloropropylene	1888-71-7	0.5	mg/kg	----	----	----	----	<0.5	
Hexachlorobutadiene	87-68-3	0.5	mg/kg	----	----	----	----	<0.5	
Hexachlorocyclopentadiene	77-47-4	2.5	mg/kg	----	----	----	----	<2.5	
Pentachlorobenzene	608-93-5	0.5	mg/kg	----	----	----	----	<0.5	
Hexachlorobenzene (HCB)	118-74-1	1.0	mg/kg	----	----	----	----	<1.0	
EP075H: Anilines and Benzidines									
Aniline	62-53-3	0.5	mg/kg	----	----	----	----	<0.5	
4-Chloroaniline	106-47-8	0.5	mg/kg	----	----	----	----	<0.5	
2-Nitroaniline	88-74-4	1.0	mg/kg	----	----	----	----	<1.0	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP27-1.0	TP28-0.1	TP28-0.5	TP29-0.1	TP29-0.5
Sampling date / time					20-Feb-2024 00:00	20-Feb-2024 00:00	20-Feb-2024 00:00	20-Feb-2024 00:00	20-Feb-2024 00:00
Compound	CAS Number	LOR	Unit	EB2406372-057	EB2406372-058	EB2406372-059	EB2406372-061	EB2406372-062	
				Result	Result	Result	Result	Result	
EP075J: Organophosphorus Pesticides - Continued									
Diazinon	333-41-5	0.5	mg/kg	----	----	----	----	----	<0.5
Chlorpyrifos-methyl	5598-13-0	0.5	mg/kg	----	----	----	----	----	<0.5
Malathion	121-75-5	0.5	mg/kg	----	----	----	----	----	<0.5
Fenthion	55-38-9	0.5	mg/kg	----	----	----	----	----	<0.5
Chlorpyrifos	2921-88-2	0.5	mg/kg	----	----	----	----	----	<0.5
Pirimphos-ethyl	23505-41-1	0.5	mg/kg	----	----	----	----	----	<0.5
Chlorfenvinphos	470-90-6	0.5	mg/kg	----	----	----	----	----	<0.5
Prothiofos	34643-46-4	0.5	mg/kg	----	----	----	----	----	<0.5
Ethion	563-12-2	0.5	mg/kg	----	----	----	----	----	<0.5
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	10	mg/kg	<10	----	----	----	----	----
C10 - C14 Fraction	----	50	mg/kg	<50	----	----	----	----	----
C15 - C28 Fraction	----	100	mg/kg	<100	----	----	----	----	----
C29 - C36 Fraction	----	100	mg/kg	<100	----	----	----	----	----
^ C10 - C36 Fraction (sum)	----	50	mg/kg	<50	----	----	----	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg	<10	----	----	----	----	----
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<10	----	----	----	----	----
>C10 - C16 Fraction	----	50	mg/kg	<50	----	----	----	----	----
>C16 - C34 Fraction	----	100	mg/kg	<100	----	----	----	----	----
>C34 - C40 Fraction	----	100	mg/kg	<100	----	----	----	----	----
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	----	----	----	----	----
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	<50	----	----	----	----	----
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg	<0.2	----	----	----	----	----
Toluene	108-88-3	0.5	mg/kg	<0.5	----	----	----	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP27-1.0	TP28-0.1	TP28-0.5	TP29-0.1	TP29-0.5
Sampling date / time					20-Feb-2024 00:00	20-Feb-2024 00:00	20-Feb-2024 00:00	20-Feb-2024 00:00	20-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406372-057	EB2406372-058	EB2406372-059	EB2406372-061	EB2406372-062
					Result	Result	Result	Result	Result
EP080: BTEXN - Continued									
Ethylbenzene	100-41-4	0.5	mg/kg		<0.5	----	----	----	----
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		<0.5	----	----	----	----
ortho-Xylene	95-47-6	0.5	mg/kg		<0.5	----	----	----	----
^ Sum of BTEX	----	0.2	mg/kg		<0.2	----	----	----	----
^ Total Xylenes	----	0.5	mg/kg		<0.5	----	----	----	----
Naphthalene	91-20-3	1	mg/kg		<1	----	----	----	----
EP075S: Acid Extractable Surrogates									
2-Fluorophenol	367-12-4	0.5	%		----	----	----	----	110
Phenol-d6	13127-88-3	0.5	%		----	----	----	----	92.7
2-Chlorophenol-D4	93951-73-6	0.5	%		----	----	----	----	97.5
2.4.6-Tribromophenol	118-79-6	0.5	%		----	----	----	----	90.6
EP075T: Base/Neutral Extractable Surrogates									
Nitrobenzene-D5	4165-60-0	0.5	%		----	----	----	----	98.6
1.2-Dichlorobenzene-D4	2199-69-1	0.5	%		----	----	----	----	58.6
2-Fluorobiphenyl	321-60-8	0.5	%		----	----	----	----	110
Anthracene-d10	1719-06-8	0.5	%		----	----	----	----	99.3
4-Terphenyl-d14	1718-51-0	0.5	%		----	----	----	----	107
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	0.2	%		101	----	----	----	----
Toluene-D8	2037-26-5	0.2	%		86.6	----	----	----	----
4-Bromofluorobenzene	460-00-4	0.2	%		91.5	----	----	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP29-1.0	TP29-2.4	TP30-0.1	TP30-0.5	TP31-0.1
Sampling date / time				20-Feb-2024 00:00	20-Feb-2024 00:00	20-Feb-2024 00:00	20-Feb-2024 00:00	20-Feb-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2406372-063	EB2406372-064	EB2406372-065	EB2406372-066	EB2406372-068	
				Result	Result	Result	Result	Result	
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	1.0	%	21.2	15.7	11.9	13.5	13.7	
EG005(ED093)T: Total Metals by ICP-AES									
Arsenic	7440-38-2	5	mg/kg	<5	<5	<5	<5	<5	
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1	
Chromium	7440-47-3	2	mg/kg	15	<2	<2	3	2	
Copper	7440-50-8	5	mg/kg	<5	<5	<5	<5	<5	
Lead	7439-92-1	5	mg/kg	7	<5	6	<5	<5	
Nickel	7440-02-0	2	mg/kg	<2	<2	<2	<2	<2	
Zinc	7440-66-6	5	mg/kg	<5	<5	30	<5	11	
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.2	<0.1	<0.1	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP31-0.5	TP32-0.1	TP32-0.5	TP33-0.1	TP33-0.5
Sampling date / time				20-Feb-2024 00:00	20-Feb-2024 00:00	20-Feb-2024 00:00	20-Feb-2024 00:00	20-Feb-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2406372-069	EB2406372-071	EB2406372-072	EB2406372-074	EB2406372-075	
				Result	Result	Result	Result	Result	
EA055: Moisture Content									
Moisture Content	----	1.0	%	----	----	----	12.1	16.3	
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	1.0	%	11.6	9.0	8.0	----	----	
EA200: AS 4964 - 2004 Identification of Asbestos in Soils									
Asbestos Detected	1332-21-4	0.1	g/kg	----	----	----	No	----	
Asbestos (Trace)	1332-21-4	-	-	----	----	----	No	----	
Asbestos Type	1332-21-4	-	--	----	----	----	-	----	
Sample weight (dry)	----	0.01	g	----	----	----	3.70	----	
APPROVED IDENTIFIER:	----	-	--	----	----	----	M. TRAN	----	
Synthetic Mineral Fibre	----	-	--	----	----	----	No	----	
Organic Fibre	----	-	--	----	----	----	No	----	
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	3	2	7	
Copper	7440-50-8	5	mg/kg	<5	<5	<5	<5	<5	
Lead	7439-92-1	5	mg/kg	<5	<5	<5	<5	<5	
Nickel	7440-02-0	2	mg/kg	<2	<2	<2	<2	<2	
Zinc	7440-66-6	5	mg/kg	6	<5	<5	<5	<5	
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	10	mg/kg	----	----	----	<10	<10	
C10 - C14 Fraction	----	50	mg/kg	----	----	----	<50	<50	
C15 - C28 Fraction	----	100	mg/kg	----	----	----	<100	<100	
C29 - C36 Fraction	----	100	mg/kg	----	----	----	<100	<100	
^ C10 - C36 Fraction (sum)	----	50	mg/kg	----	----	----	<50	<50	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP31-0.5	TP32-0.1	TP32-0.5	TP33-0.1	TP33-0.5
Sampling date / time				20-Feb-2024 00:00	20-Feb-2024 00:00	20-Feb-2024 00:00	20-Feb-2024 00:00	20-Feb-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2406372-069	EB2406372-071	EB2406372-072	EB2406372-074	EB2406372-075	
				Result	Result	Result	Result	Result	
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg	----	----	----	<10	<10	
[^] C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	----	----	----	<10	<10	
>C10 - C16 Fraction	----	50	mg/kg	----	----	----	<50	<50	
>C16 - C34 Fraction	----	100	mg/kg	----	----	----	<100	<100	
>C34 - C40 Fraction	----	100	mg/kg	----	----	----	<100	<100	
[^] >C10 - C40 Fraction (sum)	----	50	mg/kg	----	----	----	<50	<50	
[^] >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	----	----	----	<50	<50	
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg	----	----	----	<0.2	<0.2	
Toluene	108-88-3	0.5	mg/kg	----	----	----	<0.5	<0.5	
Ethylbenzene	100-41-4	0.5	mg/kg	----	----	----	<0.5	<0.5	
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	----	----	----	<0.5	<0.5	
ortho-Xylene	95-47-6	0.5	mg/kg	----	----	----	<0.5	<0.5	
[^] Sum of BTEX	----	0.2	mg/kg	----	----	----	<0.2	<0.2	
[^] Total Xylenes	----	0.5	mg/kg	----	----	----	<0.5	<0.5	
Naphthalene	91-20-3	1	mg/kg	----	----	----	<1	<1	
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	----	----	----	<0.0002	----	
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	----	----	----	<0.0002	----	
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	----	----	----	<0.0002	----	
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	----	----	----	<0.001	----	
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	----	----	----	<0.0002	----	
Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	----	----	----	<0.0002	----	
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	----	----	----	<0.0002	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP31-0.5	TP32-0.1	TP32-0.5	TP33-0.1	TP33-0.5
Sampling date / time				20-Feb-2024 00:00	20-Feb-2024 00:00	20-Feb-2024 00:00	20-Feb-2024 00:00	20-Feb-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2406372-069	EB2406372-071	EB2406372-072	EB2406372-074	EB2406372-075	
				Result	Result	Result	Result	Result	
EP231B: Perfluoroalkyl Carboxylic Acids - Continued									
Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	----	----	----	<0.0002	----	
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	----	----	----	<0.0005	----	
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	----	----	----	<0.0005	----	
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	----	----	----	<0.0005	----	
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	----	----	----	<0.0005	----	
EP231P: PFAS Sums									
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg	----	----	----	<0.0002	----	
Sum of PFAS (WA DER List)	----	0.0002	mg/kg	----	----	----	<0.0002	----	
EP080S: TPH(V)/BTEX Surrogates									
1,2-Dichloroethane-D4	17060-07-0	0.2	%	----	----	----	98.9	96.7	
Toluene-D8	2037-26-5	0.2	%	----	----	----	86.6	86.4	
4-Bromofluorobenzene	460-00-4	0.2	%	----	----	----	89.6	95.1	
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.0002	%	----	----	----	102	----	
13C8-PFOA	----	0.0002	%	----	----	----	99.0	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP33-1.0	TP33-2.3	TP34-0.1	TP34-0.5	TP35-0.1
Sampling date / time				20-Feb-2024 00:00	20-Feb-2024 00:00	20-Feb-2024 00:00	20-Feb-2024 00:00	20-Feb-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2406372-076	EB2406372-077	EB2406372-078	EB2406372-079	EB2406372-081	
				Result	Result	Result	Result	Result	
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	1.0	%	11.0	16.9	12.2	14.0	7.6	
EA200: AS 4964 - 2004 Identification of Asbestos in Soils									
Asbestos Detected	1332-21-4	0.1	g/kg	----	----	----	----	No	
Asbestos (Trace)	1332-21-4	-	-	----	----	----	----	No	
Asbestos Type	1332-21-4	-	--	----	----	----	----	-	
Sample weight (dry)	----	0.01	g	----	----	----	----	4.70	
APPROVED IDENTIFIER:	----	-	--	----	----	----	----	M. TRAN	
Synthetic Mineral Fibre	----	-	--	----	----	----	----	No	
Organic Fibre	----	-	--	----	----	----	----	No	
EG005(ED093)T: Total Metals by ICP-AES									
Arsenic	7440-38-2	5	mg/kg	<5	<5	<5	<5	<5	
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1	
Chromium	7440-47-3	2	mg/kg	5	<2	3	7	7	
Copper	7440-50-8	5	mg/kg	<5	<5	<5	<5	<5	
Lead	7439-92-1	5	mg/kg	<5	<5	<5	<5	<5	
Nickel	7440-02-0	2	mg/kg	<2	<2	<2	<2	<2	
Zinc	7440-66-6	5	mg/kg	<5	<5	11	<5	<5	
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	
EP066: Polychlorinated Biphenyls (PCB)									
Total Polychlorinated biphenyls	----	0.1	mg/kg	----	----	<0.1	----	----	
EP068A: Organochlorine Pesticides (OC)									
alpha-BHC	319-84-6	0.05	mg/kg	----	----	<0.05	----	----	
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	----	----	<0.05	----	----	
beta-BHC	319-85-7	0.05	mg/kg	----	----	<0.05	----	----	
gamma-BHC	58-89-9	0.05	mg/kg	----	----	<0.05	----	----	
delta-BHC	319-86-8	0.05	mg/kg	----	----	<0.05	----	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP33-1.0	TP33-2.3	TP34-0.1	TP34-0.5	TP35-0.1
Sampling date / time					20-Feb-2024 00:00	20-Feb-2024 00:00	20-Feb-2024 00:00	20-Feb-2024 00:00	20-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406372-076	EB2406372-077	EB2406372-078	EB2406372-079	EB2406372-081
					Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued									
Heptachlor	76-44-8	0.05	mg/kg		----	----	<0.05	----	----
Aldrin	309-00-2	0.05	mg/kg		----	----	<0.05	----	----
Heptachlor epoxide	1024-57-3	0.05	mg/kg		----	----	<0.05	----	----
[^] Total Chlordane (sum)	----	0.05	mg/kg		----	----	<0.05	----	----
trans-Chlordane	5103-74-2	0.05	mg/kg		----	----	<0.05	----	----
alpha-Endosulfan	959-98-8	0.05	mg/kg		----	----	<0.05	----	----
cis-Chlordane	5103-71-9	0.05	mg/kg		----	----	<0.05	----	----
Dieldrin	60-57-1	0.05	mg/kg		----	----	<0.05	----	----
4,4'-DDE	72-55-9	0.05	mg/kg		----	----	<0.05	----	----
Endrin	72-20-8	0.05	mg/kg		----	----	<0.05	----	----
beta-Endosulfan	33213-65-9	0.05	mg/kg		----	----	<0.05	----	----
[^] Endosulfan (sum)	115-29-7	0.05	mg/kg		----	----	<0.05	----	----
4,4'-DDD	72-54-8	0.05	mg/kg		----	----	<0.05	----	----
Endrin aldehyde	7421-93-4	0.05	mg/kg		----	----	<0.05	----	----
Endosulfan sulfate	1031-07-8	0.05	mg/kg		----	----	<0.05	----	----
4,4'-DDT	50-29-3	0.2	mg/kg		----	----	<0.2	----	----
Endrin ketone	53494-70-5	0.05	mg/kg		----	----	<0.05	----	----
Methoxychlor	72-43-5	0.2	mg/kg		----	----	<0.2	----	----
[^] Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg		----	----	<0.05	----	----
[^] Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.05	mg/kg		----	----	<0.05	----	----
EP068B: Organophosphorus Pesticides (OP)									
Dichlorvos	62-73-7	0.05	mg/kg		----	----	<0.05	----	----
Demeton-S-methyl	919-86-8	0.05	mg/kg		----	----	<0.05	----	----
Monocrotophos	6923-22-4	0.2	mg/kg		----	----	<0.2	----	----
Dimethoate	60-51-5	0.05	mg/kg		----	----	<0.05	----	----
Diazinon	333-41-5	0.05	mg/kg		----	----	<0.05	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP33-1.0	TP33-2.3	TP34-0.1	TP34-0.5	TP35-0.1
Sampling date / time				20-Feb-2024 00:00	20-Feb-2024 00:00	20-Feb-2024 00:00	20-Feb-2024 00:00	20-Feb-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2406372-076	EB2406372-077	EB2406372-078	EB2406372-079	EB2406372-081	
				Result	Result	Result	Result	Result	
EP068B: Organophosphorus Pesticides (OP) - Continued									
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	----	----	<0.05	----	----	
Parathion-methyl	298-00-0	0.2	mg/kg	----	----	<0.2	----	----	
Malathion	121-75-5	0.05	mg/kg	----	----	<0.05	----	----	
Fenthion	55-38-9	0.05	mg/kg	----	----	<0.05	----	----	
Chlorpyrifos	2921-88-2	0.05	mg/kg	----	----	<0.05	----	----	
Parathion	56-38-2	0.2	mg/kg	----	----	<0.2	----	----	
Pirimphos-ethyl	23505-41-1	0.05	mg/kg	----	----	<0.05	----	----	
Chlorfenvinphos	470-90-6	0.05	mg/kg	----	----	<0.05	----	----	
Bromophos-ethyl	4824-78-6	0.05	mg/kg	----	----	<0.05	----	----	
Fenamiphos	22224-92-6	0.05	mg/kg	----	----	<0.05	----	----	
Prothiofos	34643-46-4	0.05	mg/kg	----	----	<0.05	----	----	
Ethion	563-12-2	0.05	mg/kg	----	----	<0.05	----	----	
Carbophenothion	786-19-6	0.05	mg/kg	----	----	<0.05	----	----	
Azinphos Methyl	86-50-0	0.05	mg/kg	----	----	<0.05	----	----	
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	0.5	mg/kg	----	----	<0.5	----	----	
Acenaphthylene	208-96-8	0.5	mg/kg	----	----	<0.5	----	----	
Acenaphthene	83-32-9	0.5	mg/kg	----	----	<0.5	----	----	
Fluorene	86-73-7	0.5	mg/kg	----	----	<0.5	----	----	
Phenanthrene	85-01-8	0.5	mg/kg	----	----	<0.5	----	----	
Anthracene	120-12-7	0.5	mg/kg	----	----	<0.5	----	----	
Fluoranthene	206-44-0	0.5	mg/kg	----	----	<0.5	----	----	
Pyrene	129-00-0	0.5	mg/kg	----	----	<0.5	----	----	
Benz(a)anthracene	56-55-3	0.5	mg/kg	----	----	<0.5	----	----	
Chrysene	218-01-9	0.5	mg/kg	----	----	<0.5	----	----	
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	----	----	<0.5	----	----	
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	----	----	<0.5	----	----	



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				TP33-1.0	TP33-2.3	TP34-0.1	TP34-0.5	TP35-0.1
Sampling date / time				20-Feb-2024 00:00	20-Feb-2024 00:00	20-Feb-2024 00:00	20-Feb-2024 00:00	20-Feb-2024 00:00
Compound	CAS Number	LOR	Unit	EB2406372-076	EB2406372-077	EB2406372-078	EB2406372-079	EB2406372-081
				Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued								
Benzo(a)pyrene	50-32-8	0.5	mg/kg	----	----	<0.5	----	----
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	----	----	<0.5	----	----
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	----	----	<0.5	----	----
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	----	----	<0.5	----	----
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	----	----	<0.5	----	----
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	----	----	<0.5	----	----
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	----	----	0.6	----	----
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	----	----	1.2	----	----
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	10	mg/kg	----	----	<10	<10	----
C10 - C14 Fraction	----	50	mg/kg	----	----	<50	<50	----
C15 - C28 Fraction	----	100	mg/kg	----	----	<100	<100	----
C29 - C36 Fraction	----	100	mg/kg	----	----	<100	<100	----
^ C10 - C36 Fraction (sum)	----	50	mg/kg	----	----	<50	<50	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	10	mg/kg	----	----	<10	<10	----
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	----	----	<10	<10	----
>C10 - C16 Fraction	----	50	mg/kg	----	----	<50	<50	----
>C16 - C34 Fraction	----	100	mg/kg	----	----	<100	<100	----
>C34 - C40 Fraction	----	100	mg/kg	----	----	<100	<100	----
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	----	----	<50	<50	----
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	----	----	<50	<50	----
EP080: BTEXN								
Benzene	71-43-2	0.2	mg/kg	----	----	<0.2	<0.2	----
Toluene	108-88-3	0.5	mg/kg	----	----	<0.5	<0.5	----
Ethylbenzene	100-41-4	0.5	mg/kg	----	----	<0.5	<0.5	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP33-1.0	TP33-2.3	TP34-0.1	TP34-0.5	TP35-0.1
Sampling date / time					20-Feb-2024 00:00	20-Feb-2024 00:00	20-Feb-2024 00:00	20-Feb-2024 00:00	20-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406372-076	EB2406372-077	EB2406372-078	EB2406372-079	EB2406372-081
					Result	Result	Result	Result	Result
EP080: BTEXN - Continued									
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		----	----	<0.5	<0.5	----
ortho-Xylene	95-47-6	0.5	mg/kg		----	----	<0.5	<0.5	----
[^] Sum of BTEX	----	0.2	mg/kg		----	----	<0.2	<0.2	----
[^] Total Xylenes	----	0.5	mg/kg		----	----	<0.5	<0.5	----
Naphthalene	91-20-3	1	mg/kg		----	----	<1	<1	----
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg		----	----	----	----	<0.0002
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg		----	----	----	----	<0.0002
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg		----	----	----	----	<0.0002
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg		----	----	----	----	<0.001
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg		----	----	----	----	<0.0002
Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg		----	----	----	----	<0.0002
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg		----	----	----	----	<0.0002
Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg		----	----	----	----	<0.0002
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg		----	----	----	----	<0.0005
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg		----	----	----	----	<0.0005
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg		----	----	----	----	<0.0005
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg		----	----	----	----	<0.0005
EP231P: PFAS Sums									
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg		----	----	----	----	<0.0002
Sum of PFAS (WA DER List)	----	0.0002	mg/kg		----	----	----	----	<0.0002



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP33-1.0	TP33-2.3	TP34-0.1	TP34-0.5	TP35-0.1
Sampling date / time				20-Feb-2024 00:00	20-Feb-2024 00:00	20-Feb-2024 00:00	20-Feb-2024 00:00	20-Feb-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2406372-076	EB2406372-077	EB2406372-078	EB2406372-079	EB2406372-081	
				Result	Result	Result	Result	Result	
EP066S: PCB Surrogate									
Decachlorobiphenyl	2051-24-3	0.1	%	----	----	159	----	----	
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.05	%	----	----	105	----	----	
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.05	%	----	----	108	----	----	
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	0.5	%	----	----	119	----	----	
2-Chlorophenol-D4	93951-73-6	0.5	%	----	----	117	----	----	
2.4.6-Tribromophenol	118-79-6	0.5	%	----	----	98.7	----	----	
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	0.5	%	----	----	113	----	----	
Anthracene-d10	1719-06-8	0.5	%	----	----	115	----	----	
4-Terphenyl-d14	1718-51-0	0.5	%	----	----	154	----	----	
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	0.2	%	----	----	91.4	102	----	
Toluene-D8	2037-26-5	0.2	%	----	----	80.4	90.4	----	
4-Bromofluorobenzene	460-00-4	0.2	%	----	----	91.0	96.2	----	
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.0002	%	----	----	----	----	102	
13C8-PFOA	----	0.0002	%	----	----	----	----	96.0	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP36-0.1	TP36-0.5	TP37-0.1	TP37-0.5	TP38-0.1
Sampling date / time				21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2406372-084	EB2406372-085	EB2406372-088	EB2406372-089	EB2406372-091	
				Result	Result	Result	Result	Result	
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	1.0	%	16.6	14.7	14.4	15.8	19.2	
EA200: AS 4964 - 2004 Identification of Asbestos in Soils									
Asbestos Detected	1332-21-4	0.1	g/kg	----	----	----	----	No	
Asbestos (Trace)	1332-21-4	-	-	----	----	----	----	No	
Asbestos Type	1332-21-4	-	--	----	----	----	----	-	
Sample weight (dry)	----	0.01	g	----	----	----	----	4.60	
APPROVED IDENTIFIER:	----	-	--	----	----	----	----	M. TRAN	
Synthetic Mineral Fibre	----	-	--	----	----	----	----	No	
Organic Fibre	----	-	--	----	----	----	----	No	
EG005(ED093)T: Total Metals by ICP-AES									
Arsenic	7440-38-2	5	mg/kg	<5	<5	<5	<5	<5	
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1	
Chromium	7440-47-3	2	mg/kg	5	8	17	14	11	
Copper	7440-50-8	5	mg/kg	<5	<5	<5	<5	14	
Lead	7439-92-1	5	mg/kg	8	<5	5	<5	457	
Nickel	7440-02-0	2	mg/kg	<2	<2	<2	<2	3	
Zinc	7440-66-6	5	mg/kg	27	<5	15	<5	282	
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	----	----	----	----	<0.0002	
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	----	----	----	----	<0.0002	
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	----	----	----	----	<0.0002	
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	----	----	----	----	<0.001	
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	----	----	----	----	<0.0002	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP36-0.1	TP36-0.5	TP37-0.1	TP37-0.5	TP38-0.1
Sampling date / time				21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2406372-084	EB2406372-085	EB2406372-088	EB2406372-089	EB2406372-091	
				Result	Result	Result	Result	Result	
EP231B: Perfluoroalkyl Carboxylic Acids - Continued									
Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	----	----	----	----	<0.0002	
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	----	----	----	----	<0.0002	
Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	----	----	----	----	<0.0002	
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	----	----	----	----	<0.0005	
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	----	----	----	----	<0.0005	
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	----	----	----	----	<0.0005	
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	----	----	----	----	<0.0005	
EP231P: PFAS Sums									
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg	----	----	----	----	<0.0002	
Sum of PFAS (WA DER List)	----	0.0002	mg/kg	----	----	----	----	<0.0002	
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.0002	%	----	----	----	----	102	
13C8-PFOA	----	0.0002	%	----	----	----	----	97.0	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP38-0.5	TP39-0.1	TP39-0.5	TP40-0.1	TP40-0.5
Sampling date / time				21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2406372-092	EB2406372-094	EB2406372-095	EB2406372-097	EB2406372-098	
				Result	Result	Result	Result	Result	
EA055: Moisture Content									
Moisture Content	----	1.0	%	----	----	----	----	----	14.5
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	1.0	%	19.8	14.7	15.9	17.2	----	----
EA200: AS 4964 - 2004 Identification of Asbestos in Soils									
Asbestos Detected	1332-21-4	0.1	g/kg	No	----	----	----	----	----
Asbestos (Trace)	1332-21-4	-	-	No	----	----	----	----	----
Asbestos Type	1332-21-4	-	--	-	----	----	----	----	----
Sample weight (dry)	----	0.01	g	7.00	----	----	----	----	----
APPROVED IDENTIFIER:	----	-	--	M. TRAN	----	----	----	----	----
Synthetic Mineral Fibre	----	-	--	No	----	----	----	----	----
Organic Fibre	----	-	--	Yes	----	----	----	----	----
EG005(ED093)T: Total Metals by ICP-AES									
Arsenic	7440-38-2	5	mg/kg	<5	<5	<5	34	<5	<5
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1	<1
Chromium	7440-47-3	2	mg/kg	20	2	6	15	14	14
Copper	7440-50-8	5	mg/kg	<5	<5	<5	9940	<5	<5
Lead	7439-92-1	5	mg/kg	40	7	<5	401	6	6
Nickel	7440-02-0	2	mg/kg	<2	<2	<2	31	<2	<2
Zinc	7440-66-6	5	mg/kg	60	37	23	992	44	44
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EP066: Polychlorinated Biphenyls (PCB)									
Total Polychlorinated biphenyls	----	0.1	mg/kg	----	----	----	<0.1	----	----
EP068A: Organochlorine Pesticides (OC)									
alpha-BHC	319-84-6	0.05	mg/kg	----	----	----	<0.05	----	----
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	----	----	----	<0.05	----	----
beta-BHC	319-85-7	0.05	mg/kg	----	----	----	<0.05	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP38-0.5	TP39-0.1	TP39-0.5	TP40-0.1	TP40-0.5
Sampling date / time					21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00
Compound	CAS Number	LOR	Unit	EB2406372-092	EB2406372-094	EB2406372-095	EB2406372-097	EB2406372-098	
				Result	Result	Result	Result	Result	
EP068A: Organochlorine Pesticides (OC) - Continued									
gamma-BHC	58-89-9	0.05	mg/kg	----	----	----	<0.05	----	
delta-BHC	319-86-8	0.05	mg/kg	----	----	----	<0.05	----	
Heptachlor	76-44-8	0.05	mg/kg	----	----	----	<0.05	----	
Aldrin	309-00-2	0.05	mg/kg	----	----	----	<0.05	----	
Heptachlor epoxide	1024-57-3	0.05	mg/kg	----	----	----	<0.05	----	
[^] Total Chlordane (sum)	----	0.05	mg/kg	----	----	----	<0.05	----	
trans-Chlordane	5103-74-2	0.05	mg/kg	----	----	----	<0.05	----	
alpha-Endosulfan	959-98-8	0.05	mg/kg	----	----	----	<0.05	----	
cis-Chlordane	5103-71-9	0.05	mg/kg	----	----	----	<0.05	----	
Dieldrin	60-57-1	0.05	mg/kg	----	----	----	<0.05	----	
4,4'-DDE	72-55-9	0.05	mg/kg	----	----	----	<0.05	----	
Endrin	72-20-8	0.05	mg/kg	----	----	----	<0.05	----	
beta-Endosulfan	33213-65-9	0.05	mg/kg	----	----	----	<0.05	----	
[^] Endosulfan (sum)	115-29-7	0.05	mg/kg	----	----	----	<0.05	----	
4,4'-DDD	72-54-8	0.05	mg/kg	----	----	----	<0.05	----	
Endrin aldehyde	7421-93-4	0.05	mg/kg	----	----	----	<0.05	----	
Endosulfan sulfate	1031-07-8	0.05	mg/kg	----	----	----	<0.05	----	
4,4'-DDT	50-29-3	0.2	mg/kg	----	----	----	<0.2	----	
Endrin ketone	53494-70-5	0.05	mg/kg	----	----	----	<0.05	----	
Methoxychlor	72-43-5	0.2	mg/kg	----	----	----	<0.2	----	
[^] Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	----	----	----	<0.05	----	
[^] Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-29-3	0.05	mg/kg	----	----	----	<0.05	----	
EP068B: Organophosphorus Pesticides (OP)									
Dichlorvos	62-73-7	0.05	mg/kg	----	----	----	<0.05	----	
Demeton-S-methyl	919-86-8	0.05	mg/kg	----	----	----	<0.05	----	
Monocrotophos	6923-22-4	0.2	mg/kg	----	----	----	<0.2	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP38-0.5	TP39-0.1	TP39-0.5	TP40-0.1	TP40-0.5
Sampling date / time					21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406372-092	EB2406372-094	EB2406372-095	EB2406372-097	EB2406372-098
					Result	Result	Result	Result	Result
EP068B: Organophosphorus Pesticides (OP) - Continued									
Dimethoate	60-51-5	0.05	mg/kg		----	----	----	<0.05	----
Diazinon	333-41-5	0.05	mg/kg		----	----	----	<0.05	----
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg		----	----	----	<0.05	----
Parathion-methyl	298-00-0	0.2	mg/kg		----	----	----	<0.2	----
Malathion	121-75-5	0.05	mg/kg		----	----	----	<0.05	----
Fenthion	55-38-9	0.05	mg/kg		----	----	----	<0.05	----
Chlorpyrifos	2921-88-2	0.05	mg/kg		----	----	----	<0.05	----
Parathion	56-38-2	0.2	mg/kg		----	----	----	<0.2	----
Pirimphos-ethyl	23505-41-1	0.05	mg/kg		----	----	----	<0.05	----
Chlorfenvinphos	470-90-6	0.05	mg/kg		----	----	----	<0.05	----
Bromophos-ethyl	4824-78-6	0.05	mg/kg		----	----	----	<0.05	----
Fenamiphos	22224-92-6	0.05	mg/kg		----	----	----	<0.05	----
Prothiofos	34643-46-4	0.05	mg/kg		----	----	----	<0.05	----
Ethion	563-12-2	0.05	mg/kg		----	----	----	<0.05	----
Carbophenothion	786-19-6	0.05	mg/kg		----	----	----	<0.05	----
Azinphos Methyl	86-50-0	0.05	mg/kg		----	----	----	<0.05	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	0.5	mg/kg		----	----	----	<0.5	----
Acenaphthylene	208-96-8	0.5	mg/kg		----	----	----	<0.5	----
Acenaphthene	83-32-9	0.5	mg/kg		----	----	----	<0.5	----
Fluorene	86-73-7	0.5	mg/kg		----	----	----	<0.5	----
Phenanthrene	85-01-8	0.5	mg/kg		----	----	----	<0.5	----
Anthracene	120-12-7	0.5	mg/kg		----	----	----	<0.5	----
Fluoranthene	206-44-0	0.5	mg/kg		----	----	----	<0.5	----
Pyrene	129-00-0	0.5	mg/kg		----	----	----	<0.5	----
Benz(a)anthracene	56-55-3	0.5	mg/kg		----	----	----	<0.5	----
Chrysene	218-01-9	0.5	mg/kg		----	----	----	<0.5	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP38-0.5	TP39-0.1	TP39-0.5	TP40-0.1	TP40-0.5
Sampling date / time					21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00
Compound	CAS Number	LOR	Unit	EB2406372-092	EB2406372-094	EB2406372-095	EB2406372-097	EB2406372-098	EB2406372-098
				Result	Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued									
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	----	----	----	<0.5	----	----
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	----	----	----	<0.5	----	----
Benzo(a)pyrene	50-32-8	0.5	mg/kg	----	----	----	<0.5	----	----
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	----	----	----	<0.5	----	----
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	----	----	----	<0.5	----	----
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	----	----	----	<0.5	----	----
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	----	----	----	<0.5	----	----
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	----	----	----	<0.5	----	----
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	----	----	----	0.6	----	----
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	----	----	----	1.2	----	----
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	10	mg/kg	----	----	----	<10	----	<10
C10 - C14 Fraction	----	50	mg/kg	----	----	----	<50	----	<50
C15 - C28 Fraction	----	100	mg/kg	----	----	----	<100	----	<100
C29 - C36 Fraction	----	100	mg/kg	----	----	----	<100	----	<100
^ C10 - C36 Fraction (sum)	----	50	mg/kg	----	----	----	<50	----	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg	----	----	----	<10	----	<10
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	----	----	----	<10	----	<10
>C10 - C16 Fraction	----	50	mg/kg	----	----	----	<50	----	<50
>C16 - C34 Fraction	----	100	mg/kg	----	----	----	<100	----	<100
>C34 - C40 Fraction	----	100	mg/kg	----	----	----	<100	----	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	----	----	----	<50	----	<50
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	----	----	----	<50	----	<50
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg	----	----	----	<0.2	----	<0.2



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP38-0.5	TP39-0.1	TP39-0.5	TP40-0.1	TP40-0.5
Sampling date / time				21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2406372-092	EB2406372-094	EB2406372-095	EB2406372-097	EB2406372-098	
				Result	Result	Result	Result	Result	
EP080: BTEXN - Continued									
Toluene	108-88-3	0.5	mg/kg	----	----	----	<0.5	<0.5	
Ethylbenzene	100-41-4	0.5	mg/kg	----	----	----	<0.5	<0.5	
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	----	----	----	<0.5	<0.5	
ortho-Xylene	95-47-6	0.5	mg/kg	----	----	----	<0.5	<0.5	
^ Sum of BTEX	----	0.2	mg/kg	----	----	----	<0.2	<0.2	
^ Total Xylenes	----	0.5	mg/kg	----	----	----	<0.5	<0.5	
Naphthalene	91-20-3	1	mg/kg	----	----	----	<1	<1	
EP066S: PCB Surrogate									
Decachlorobiphenyl	2051-24-3	0.1	%	----	----	----	124	----	
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.05	%	----	----	----	88.6	----	
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.05	%	----	----	----	91.2	----	
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	0.5	%	----	----	----	97.0	----	
2-Chlorophenol-D4	93951-73-6	0.5	%	----	----	----	95.4	----	
2,4,6-Tribromophenol	118-79-6	0.5	%	----	----	----	82.2	----	
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	0.5	%	----	----	----	89.0	----	
Anthracene-d10	1719-06-8	0.5	%	----	----	----	95.1	----	
4-Terphenyl-d14	1718-51-0	0.5	%	----	----	----	130	----	
EP080S: TPH(V)/BTEX Surrogates									
1,2-Dichloroethane-D4	17060-07-0	0.2	%	----	----	----	97.6	103	
Toluene-D8	2037-26-5	0.2	%	----	----	----	86.2	88.9	
4-Bromofluorobenzene	460-00-4	0.2	%	----	----	----	93.2	94.7	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP40-1.0	TP41-0.2	TP41-0.5	----	----
Sampling date / time				21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	----	----	
Compound	CAS Number	LOR	Unit	EB2406372-099	EB2406372-100	EB2406372-101	-----	-----	
				Result	Result	Result	----	----	
EA055: Moisture Content									
Moisture Content	----	1.0	%	20.8	20.7	----	----	----	
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	1.0	%	----	----	19.7	----	----	
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	21	12	12	----	----	
Copper	7440-50-8	5	mg/kg	<5	5	<5	----	----	
Lead	7439-92-1	5	mg/kg	9	23	10	----	----	
Nickel	7440-02-0	2	mg/kg	<2	2	<2	----	----	
Zinc	7440-66-6	5	mg/kg	<5	99	16	----	----	
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	----	----	
EP066: Polychlorinated Biphenyls (PCB)									
Total Polychlorinated biphenyls	----	0.1	mg/kg	----	----	<0.1	----	----	
EP068A: Organochlorine Pesticides (OC)									
alpha-BHC	319-84-6	0.05	mg/kg	----	----	<0.05	----	----	
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	----	----	<0.05	----	----	
beta-BHC	319-85-7	0.05	mg/kg	----	----	<0.05	----	----	
gamma-BHC	58-89-9	0.05	mg/kg	----	----	<0.05	----	----	
delta-BHC	319-86-8	0.05	mg/kg	----	----	<0.05	----	----	
Heptachlor	76-44-8	0.05	mg/kg	----	----	<0.05	----	----	
Aldrin	309-00-2	0.05	mg/kg	----	----	<0.05	----	----	
Heptachlor epoxide	1024-57-3	0.05	mg/kg	----	----	<0.05	----	----	
[^] Total Chlordane (sum)	----	0.05	mg/kg	----	----	<0.05	----	----	
trans-Chlordane	5103-74-2	0.05	mg/kg	----	----	<0.05	----	----	
alpha-Endosulfan	959-98-8	0.05	mg/kg	----	----	<0.05	----	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP40-1.0	TP41-0.2	TP41-0.5	----	----
Sampling date / time					21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	----	----
Compound	CAS Number	LOR	Unit		EB2406372-099	EB2406372-100	EB2406372-101	-----	-----
					Result	Result	Result	----	----
EP068A: Organochlorine Pesticides (OC) - Continued									
cis-Chlordane	5103-71-9	0.05	mg/kg		----	----	<0.05	----	----
Dieldrin	60-57-1	0.05	mg/kg		----	----	<0.05	----	----
4,4'-DDE	72-55-9	0.05	mg/kg		----	----	<0.05	----	----
Endrin	72-20-8	0.05	mg/kg		----	----	<0.05	----	----
beta-Endosulfan	33213-65-9	0.05	mg/kg		----	----	<0.05	----	----
[^] Endosulfan (sum)	115-29-7	0.05	mg/kg		----	----	<0.05	----	----
4,4'-DDD	72-54-8	0.05	mg/kg		----	----	<0.05	----	----
Endrin aldehyde	7421-93-4	0.05	mg/kg		----	----	<0.05	----	----
Endosulfan sulfate	1031-07-8	0.05	mg/kg		----	----	<0.05	----	----
4,4'-DDT	50-29-3	0.2	mg/kg		----	----	<0.2	----	----
Endrin ketone	53494-70-5	0.05	mg/kg		----	----	<0.05	----	----
Methoxychlor	72-43-5	0.2	mg/kg		----	----	<0.2	----	----
[^] Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg		----	----	<0.05	----	----
[^] Sum of DDD + DDE + DDT	72-54-8/72-55-9/5-0-2	0.05	mg/kg		----	----	<0.05	----	----
EP068B: Organophosphorus Pesticides (OP)									
Dichlorvos	62-73-7	0.05	mg/kg		----	----	<0.05	----	----
Demeton-S-methyl	919-86-8	0.05	mg/kg		----	----	<0.05	----	----
Monocrotophos	6923-22-4	0.2	mg/kg		----	----	<0.2	----	----
Dimethoate	60-51-5	0.05	mg/kg		----	----	<0.05	----	----
Diazinon	333-41-5	0.05	mg/kg		----	----	<0.05	----	----
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg		----	----	<0.05	----	----
Parathion-methyl	298-00-0	0.2	mg/kg		----	----	<0.2	----	----
Malathion	121-75-5	0.05	mg/kg		----	----	<0.05	----	----
Fenthion	55-38-9	0.05	mg/kg		----	----	<0.05	----	----
Chlorpyrifos	2921-88-2	0.05	mg/kg		----	----	<0.05	----	----
Parathion	56-38-2	0.2	mg/kg		----	----	<0.2	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP40-1.0	TP41-0.2	TP41-0.5	----	----
Sampling date / time					21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	----	----
Compound	CAS Number	LOR	Unit		EB2406372-099	EB2406372-100	EB2406372-101	-----	-----
					Result	Result	Result	----	----
EP068B: Organophosphorus Pesticides (OP) - Continued									
Pirimphos-ethyl	23505-41-1	0.05	mg/kg		----	----	<0.05	----	----
Chlorfenvinphos	470-90-6	0.05	mg/kg		----	----	<0.05	----	----
Bromophos-ethyl	4824-78-6	0.05	mg/kg		----	----	<0.05	----	----
Fenamiphos	22224-92-6	0.05	mg/kg		----	----	<0.05	----	----
Prothiofos	34643-46-4	0.05	mg/kg		----	----	<0.05	----	----
Ethion	563-12-2	0.05	mg/kg		----	----	<0.05	----	----
Carbophenothion	786-19-6	0.05	mg/kg		----	----	<0.05	----	----
Azinphos Methyl	86-50-0	0.05	mg/kg		----	----	<0.05	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	0.5	mg/kg		----	----	<0.5	----	----
Acenaphthylene	208-96-8	0.5	mg/kg		----	----	<0.5	----	----
Acenaphthene	83-32-9	0.5	mg/kg		----	----	<0.5	----	----
Fluorene	86-73-7	0.5	mg/kg		----	----	<0.5	----	----
Phenanthrene	85-01-8	0.5	mg/kg		----	----	<0.5	----	----
Anthracene	120-12-7	0.5	mg/kg		----	----	<0.5	----	----
Fluoranthene	206-44-0	0.5	mg/kg		----	----	<0.5	----	----
Pyrene	129-00-0	0.5	mg/kg		----	----	<0.5	----	----
Benz(a)anthracene	56-55-3	0.5	mg/kg		----	----	<0.5	----	----
Chrysene	218-01-9	0.5	mg/kg		----	----	<0.5	----	----
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg		----	----	<0.5	----	----
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg		----	----	<0.5	----	----
Benzo(a)pyrene	50-32-8	0.5	mg/kg		----	----	<0.5	----	----
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg		----	----	<0.5	----	----
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg		----	----	<0.5	----	----
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg		----	----	<0.5	----	----
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg		----	----	<0.5	----	----
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg		----	----	<0.5	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP40-1.0	TP41-0.2	TP41-0.5	----	----
Sampling date / time					21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	----	----
Compound	CAS Number	LOR	Unit	EB2406372-099	EB2406372-100	EB2406372-101	-----	-----	
				Result	Result	Result	----	----	
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued									
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	----	----	0.6	----	----	
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	----	----	1.2	----	----	
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	10	mg/kg	<10	<10	<10	----	----	
C10 - C14 Fraction	----	50	mg/kg	<50	<50	<50	----	----	
C15 - C28 Fraction	----	100	mg/kg	<100	<100	<100	----	----	
C29 - C36 Fraction	----	100	mg/kg	<100	<100	<100	----	----	
^ C10 - C36 Fraction (sum)	----	50	mg/kg	<50	<50	<50	----	----	
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	<10	----	----	
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<10	<10	<10	----	----	
>C10 - C16 Fraction	----	50	mg/kg	<50	<50	<50	----	----	
>C16 - C34 Fraction	----	100	mg/kg	<100	<100	<100	----	----	
>C34 - C40 Fraction	----	100	mg/kg	<100	<100	<100	----	----	
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	<50	<50	----	----	
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	<50	<50	<50	----	----	
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	<0.2	----	----	
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	<0.5	----	----	
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	<0.5	----	----	
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	<0.5	----	----	
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	<0.5	----	----	
^ Sum of BTEX	----	0.2	mg/kg	<0.2	<0.2	<0.2	----	----	
^ Total Xylenes	----	0.5	mg/kg	<0.5	<0.5	<0.5	----	----	
Naphthalene	91-20-3	1	mg/kg	<1	<1	<1	----	----	
EP066S: PCB Surrogate									



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP40-1.0	TP41-0.2	TP41-0.5	----	----
Sampling date / time					21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	----	----
Compound	CAS Number	LOR	Unit		EB2406372-099	EB2406372-100	EB2406372-101	-----	-----
					Result	Result	Result	----	----
EP066S: PCB Surrogate - Continued									
Decachlorobiphenyl	2051-24-3	0.1	%		----	----	99.4	----	----
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.05	%		----	----	109	----	----
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.05	%		----	----	86.5	----	----
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	0.5	%		----	----	94.5	----	----
2-Chlorophenol-D4	93951-73-6	0.5	%		----	----	87.8	----	----
2.4.6-Tribromophenol	118-79-6	0.5	%		----	----	92.0	----	----
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	0.5	%		----	----	90.3	----	----
Anthracene-d10	1719-06-8	0.5	%		----	----	94.3	----	----
4-Terphenyl-d14	1718-51-0	0.5	%		----	----	104	----	----
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	0.2	%		96.1	100	92.3	----	----
Toluene-D8	2037-26-5	0.2	%		114	88.8	103	----	----
4-Bromofluorobenzene	460-00-4	0.2	%		120	89.9	108	----	----



Analytical Results

Descriptive Results

Sub-Matrix: SOIL

<i>Method: Compound</i>	<i>Sample ID - Sampling date / time</i>	<i>Analytical Results</i>
EA200: AS 4964 - 2004 Identification of Asbestos in Soils		
EA200: Description	TP12-0.1 - 19-Feb-2024 00:00	Brown soil with organic matter.
EA200: Description	TP14-0.1 - 19-Feb-2024 00:00	Brown soil with organic matter.
EA200: Description	TP15-0.1 - 19-Feb-2024 00:00	Brown soil with organic matter.
EA200: Description	TP15-0.5 - 19-Feb-2024 00:00	Brown soil with organic matter.
EA200: Description	TP26-0.1 - 19-Feb-2024 00:00	Brown soil with organic matter.
EA200: Description	TP27-0.1 - 20-Feb-2024 00:00	Brown soil with organic matter.
EA200: Description	TP33-0.1 - 20-Feb-2024 00:00	Brown soil.
EA200: Description	TP35-0.1 - 20-Feb-2024 00:00	Grey soil.
EA200: Description	TP38-0.1 - 21-Feb-2024 00:00	Grey soil.
EA200: Description	TP38-0.5 - 21-Feb-2024 00:00	Beige clay like soil with organic matter.



Surrogate Control Limits

Sub-Matrix: SOIL		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP066S: PCB Surrogate			
Decachlorobiphenyl	2051-24-3	16	134
EP068S: Organochlorine Pesticide Surrogate			
Dibromo-DDE	21655-73-2	10	138
EP068T: Organophosphorus Pesticide Surrogate			
DEF	78-48-8	23	134
EP075(SIM)S: Phenolic Compound Surrogates			
Phenol-d6	13127-88-3	35	154
2-Chlorophenol-D4	93951-73-6	42	153
2,4,6-Tribromophenol	118-79-6	26	157
EP075(SIM)T: PAH Surrogates			
2-Fluorobiphenyl	321-60-8	34	156
Anthracene-d10	1719-06-8	37	153
4-Terphenyl-d14	1718-51-0	42	172
EP075S: Acid Extractable Surrogates			
2-Fluorophenol	367-12-4	10	150
Phenol-d6	13127-88-3	19	134
2-Chlorophenol-D4	93951-73-6	21	127
2,4,6-Tribromophenol	118-79-6	17	143
EP075T: Base/Neutral Extractable Surrogates			
Nitrobenzene-D5	4165-60-0	10	147
1,2-Dichlorobenzene-D4	2199-69-1	10	154
2-Fluorobiphenyl	321-60-8	10	128
Anthracene-d10	1719-06-8	10	137
4-Terphenyl-d14	1718-51-0	10	157
EP080S: TPH(V)/BTEX Surrogates			
1,2-Dichloroethane-D4	17060-07-0	53	134
Toluene-D8	2037-26-5	60	131
4-Bromofluorobenzene	460-00-4	59	127
EP231S: PFAS Surrogate			
13C4-PFOS	----	76	136
13C8-PFOA	----	78	131

Inter-Laboratory Testing

Analysis conducted by ALS Melbourne, NATA accreditation no. 825, site no. 13778 (Chemistry).

(SOIL) EA200: AS 4964 - 2004 Identification of Asbestos in Soils



QUALITY CONTROL REPORT

Work Order	: EB2406372	Page	: 1 of 44
Client	: ENVIRONMENTAL ADVISORS	Laboratory	: Environmental Division Brisbane
Contact	: ANDREW WINTERS	Contact	: Customer Services EB
Address	: PO BOX 505 BUDDINA QLD 4575	Address	: 2 Byth Street Stafford QLD Australia 4053
Telephone	: ----	Telephone	: +61 7 3243 7222
Project	: 125 NSC LAKE McDONALD DVE, COOROY	Date Samples Received	: 24-Feb-2024
Order number	: ----	Date Analysis Commenced	: 27-Feb-2024
C-O-C number	: ----	Issue Date	: 07-Mar-2024
Sampler	: ANDREW WINTERS		
Site	: ----		
Quote number	: EB23ENVADV0001 V2		
No. of samples received	: 102		
No. of samples analysed	: 83		



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
Beatriz Llarinas	Senior Chemist - Inorganics	Brisbane Inorganics, Stafford, QLD
Beatriz Llarinas	Senior Chemist - Inorganics	Brisbane Soil Preparation, Stafford, QLD
MINNIE TRAN	Approved Asbestos Identifier	Melbourne Asbestos, Springvale, VIC
Timothy Creagh	Senior Chemist - Organics	Brisbane Organics, Stafford, QLD



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: 5627887)									
EB2406372-001	TP12-0.1	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	38	38	0.0	0% - 50%
		EG005T: Nickel	7440-02-0	2	mg/kg	3	3	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	6	5	0.0	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	<5	<5	0.0	No Limit
EB2406372-011	TP14-2.0	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	51	46	9.9	0% - 20%
		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	7	6	17.2	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	8	6	35.1	No Limit
EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 5627889)									
EB2406372-023	TP18-0.1	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	9	10	15.2	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	9	7	22.1	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: 5627889) - continued									
EB2406372-023	TP18-0.1	EG005T: Zinc	7440-66-6	5	mg/kg	77	# 40	62.6	0% - 50%
EB2406372-042	TP23-0.5	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	22	22	0.0	0% - 50%
		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	7	6	25.6	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	<5	<5	0.0	No Limit
EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 5627900)									
EB2406372-034	TP20-2.8	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	17	10	49.1	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
		EG005T: Zinc	7440-66-6	5	mg/kg	13	6	68.5	No Limit
EB2406372-055	TP27-0.1	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	6	4	38.7	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	6	6	0.0	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	18	14	26.5	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	86	73	15.6	0% - 50%
EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 5627901)									
EB2406372-072	TP32-0.5	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	3	8	90.8	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
		EG005T: Zinc	7440-66-6	5	mg/kg	<5	<5	0.0	No Limit
EB2406372-088	TP37-0.1	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	17	24	34.6	0% - 50%
		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	7	26.9	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: 5627901) - continued									
EB2406372-088	TP37-0.1	EG005T: Zinc	7440-66-6	5	mg/kg	15	14	0.0	No Limit
EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 5627909)									
EB2406372-099	TP40-1.0	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	21	22	9.1	0% - 50%
		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	9	8	0.0	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	<5	<5	0.0	No Limit
EB2406402-010	Anonymous	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	18	16	12.7	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	<2	<2	0.0	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	8	7	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	7	6	0.0	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	<5	<5	0.0	No Limit
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 5627892)									
EB2406372-001	TP12-0.1	EA055: Moisture Content	----	0.1 (1.0)*	%	15.7	15.8	0.0	0% - 50%
EB2406372-011	TP14-2.0	EA055: Moisture Content	----	0.1 (1.0)*	%	17.4	17.5	0.6	0% - 50%
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 5627893)									
EB2406372-021	TP17-0.5	EA055: Moisture Content	----	0.1 (1.0)*	%	14.3	13.8	3.9	0% - 50%
EB2406372-039	TP22-0.5	EA055: Moisture Content	----	0.1 (1.0)*	%	15.8	16.1	2.2	0% - 50%
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 5627905)									
EB2406372-033	TP20-1.0	EA055: Moisture Content	----	0.1	%	18.7	18.3	1.9	0% - 20%
EB2406372-051	TP25-1.0	EA055: Moisture Content	----	0.1 (1.0)*	%	16.9	16.1	4.8	0% - 50%
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 5627906)									
EB2406372-071	TP32-0.1	EA055: Moisture Content	----	0.1 (1.0)*	%	9.0	9.3	3.1	No Limit
EB2406372-085	TP36-0.5	EA055: Moisture Content	----	0.1 (1.0)*	%	14.7	14.7	0.0	0% - 50%
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 5627921)									
EB2406372-099	TP40-1.0	EA055: Moisture Content	----	0.1 (1.0)*	%	20.8	20.2	2.7	0% - 20%
EB2406402-010	Anonymous	EA055: Moisture Content	----	0.1 (1.0)*	%	25.1	26.5	5.5	0% - 20%
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 5627888)									
EB2406372-001	TP12-0.1	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EB2406372-011	TP14-2.0	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: 5627890)									
EB2406372-023	TP18-0.1	EG035T: Mercury	7439-97-6	0.1	mg/kg	0.1	<0.1	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 (%)
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 5627890) - continued									
EB2406372-042	TP23-0.5	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: 5627899)									
EB2406372-034	TP20-2.8	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EB2406372-055	TP27-0.1	EG035T: Mercury	7439-97-6	0.1	mg/kg	0.5	0.4	0.0	No Limit
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 5627902)									
EB2406372-072	TP32-0.5	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EB2406372-088	TP37-0.1	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: 5627908)									
EB2406372-099	TP40-1.0	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EB2406402-010	Anonymous	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EP066: Polychlorinated Biphenyls (PCB) (QC Lot: 5627882)									
EB2406372-001	TP12-0.1	EP066: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EP066: Polychlorinated Biphenyls (PCB) (QC Lot: 5627898)									
EB2406372-036	TP21-0.5	EP066: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EP066: Polychlorinated Biphenyls (PCB) (QC Lot: 5627918)									
EB2406372-101	TP41-0.5	EP066: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EP068A: Organochlorine Pesticides (OC) (QC Lot: 5627881)									
EB2406372-001	TP12-0.1	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	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	<0.05	<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



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: 5627881) - continued											
EB2406372-001	TP12-0.1	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		
EP068A: Organochlorine Pesticides (OC) (QC Lot: 5627897)											
EB2406372-036	TP21-0.5	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	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	<0.05	<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		
		EP068A: Organochlorine Pesticides (OC) (QC Lot: 5627917)									
		EB2406372-101	TP41-0.5	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		



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: 5627917) - continued									
EB2406372-101	TP41-0.5	EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: gamma-BHC	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	<0.05	<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: 5627881)									
EB2406372-001	TP12-0.1	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



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: 5627881) - continued									
EB2406372-001	TP12-0.1	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	56-38-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
EP068B: Organophosphorus Pesticides (OP) (QC Lot: 5627897)									
EB2406372-036	TP21-0.5	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	56-38-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit		
EP068B: Organophosphorus Pesticides (OP) (QC Lot: 5627917)									
EB2406372-101	TP41-0.5	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



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: 5627917) - continued									
EB2406372-101	TP41-0.5	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	56-38-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 5627880)									
EB2406372-001	TP12-0.1	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	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
		EP075(SIM): Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 5627896)									
EB2406372-036	TP21-0.5	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



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: 5627896) - continued											
EB2406372-036	TP21-0.5	EP075(SIM): Benzo(b+j)fluoranthene	205-99-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit		
			205-82-3								
		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		
		EP075(SIM): Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit		
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 5627914)											
EB2406372-101	TP41-0.5	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	0.5	mg/kg	<0.5	<0.5	0.0	No Limit		
					205-82-3						
				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
		EP075(SIM): Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit		
EP075A: Phenolic Compounds (QC Lot: 5627883)											
EB2406372-007	TP13-1.0	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		



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: 5627883) - continued									
EB2406372-007	TP13-1.0	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: 5627894)									
EB2406372-036	TP21-0.5	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: 5627883)									
EB2406372-007	TP13-1.0	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
		EP075: Sum of PAHs	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Benzo(a)pyrene TEQ (zero)	----	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: 5627883) - continued									
EB2406372-007	TP13-1.0	EP075: Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	0.6	0.6	0.0	No Limit
		EP075: Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	1.2	1.2	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: 5627894)									
EB2406372-036	TP21-0.5	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
		EP075: Sum of PAHs	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	0.6	0.6	0.0	No Limit
		EP075: Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	1.2	1.2	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		
EP075C: Phthalate Esters (QC Lot: 5627883)									
EB2406372-007	TP13-1.0	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: 5627894)									



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 (%)
EP075C: Phthalate Esters (QC Lot: 5627894) - continued									
EB2406372-036	TP21-0.5	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: 5627883)									
EB2406372-007	TP13-1.0	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: 5627894)									
EB2406372-036	TP21-0.5	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: 5627883)									
EB2406372-007	TP13-1.0	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



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: 5627883) - continued									
EB2406372-007	TP13-1.0	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: 5627894)									
EB2406372-036	TP21-0.5	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: 5627883)									
EB2406372-007	TP13-1.0	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: 5627894)									
EB2406372-036	TP21-0.5	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: 5627883)									



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: 5627883) - continued									
EB2406372-007	TP13-1.0	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: 5627894)									
EB2406372-036	TP21-0.5	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: 5627883)									
EB2406372-007	TP13-1.0	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: 5627894)									
EB2406372-036	TP21-0.5	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



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: 5627894) - continued									
EB2406372-036	TP21-0.5	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: 5627883)									
EB2406372-007	TP13-1.0	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	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
		EP075: Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP075: Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit		
EP075I: Organochlorine Pesticides (QC Lot: 5627894)									
EB2406372-036	TP21-0.5	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	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



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: 5627894) - continued									
EB2406372-036	TP21-0.5	EP075: Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP075J: Organophosphorus Pesticides (QC Lot: 5627883)									
EB2406372-007	TP13-1.0	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: 5627894)									
EB2406372-036	TP21-0.5	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		
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 5627879)									
EB2406372-016	TP15-2.0	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
EB2406372-001	TP12-0.1	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 Petroleum Hydrocarbons (QC Lot: 5627886)									
EB2406372-001	TP12-0.1	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	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 (%)
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 5627886) - continued									
EB2406372-016	TP15-2.0	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 5627895)									
EB2406372-078	TP34-0.1	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
EB2406372-036	TP21-0.5	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 Petroleum Hydrocarbons (QC Lot: 5627903)									
EB2406372-034	TP20-2.8	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
EB2406372-078	TP34-0.1	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 5627912)									
EB2406372-099	TP40-1.0	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
EB2406402-011	Anonymous	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 5627913)									
EB2406402-011	Anonymous	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
EB2406372-101	TP41-0.5	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: 5627879)									
EB2406372-016	TP15-2.0	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
EB2406372-001	TP12-0.1	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
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 5627886)									
EB2406372-001	TP12-0.1	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.0	No Limit
EB2406372-016	TP15-2.0	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: 5627895)									
EB2406372-078	TP34-0.1	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
EB2406372-036	TP21-0.5	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



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 (%)
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 5627895) - continued									
EB2406372-036	TP21-0.5	EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 5627903)									
EB2406372-034	TP20-2.8	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.0	No Limit
EB2406372-078	TP34-0.1	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: 5627912)									
EB2406372-099	TP40-1.0	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.0	No Limit
EB2406402-011	Anonymous	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: 5627913)									
EB2406402-011	Anonymous	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
EB2406372-101	TP41-0.5	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: 5627886)									
EB2406372-001	TP12-0.1	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
EB2406372-016	TP15-2.0	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: 5627903)									
EB2406372-034	TP20-2.8	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: SOIL				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP080: BTEXN (QC Lot: 5627903) - continued									
EB2406372-078	TP34-0.1	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: 5627912)									
EB2406372-099	TP40-1.0	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
EB2406402-011	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
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 5627981)									
EB2406372-001	TP12-0.1	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
EB2406372-074	TP33-0.1	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 5627981)									
EB2406372-001	TP12-0.1	EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	<0.001	0.0	No Limit
EB2406372-074	TP33-0.1	EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	<0.0002	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 (%)
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 5627981) - continued									
EB2406372-074	TP33-0.1	EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	<0.001	0.0	No Limit
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 5627981)									
EB2406372-001	TP12-0.1	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
EB2406372-074	TP33-0.1	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	<0.0005	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			
					Result	Spike Concentration	Spike Recovery (%)	Acceptable Limits (%)
Method: Compound	CAS Number	LOR	Unit					LCS
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 5627887)								
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	65.3 mg/kg	120	84.0	123
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	----	----	----	----
EG005T: Chromium	7440-47-3	2	mg/kg	<2	14.5 mg/kg	111	83.0	125
EG005T: Copper	7440-50-8	5	mg/kg	<5	37.4 mg/kg	112	86.0	122
EG005T: Lead	7439-92-1	5	mg/kg	<5	45.3 mg/kg	101	84.0	119
EG005T: Nickel	7440-02-0	2	mg/kg	<2	12.4 mg/kg	110	81.5	118
EG005T: Zinc	7440-66-6	5	mg/kg	<5	150.2 mg/kg	113	80.0	120
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 5627889)								
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	65.3 mg/kg	97.1	84.0	123
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	----	----	----	----
EG005T: Chromium	7440-47-3	2	mg/kg	<2	14.5 mg/kg	107	83.0	125
EG005T: Copper	7440-50-8	5	mg/kg	<5	37.4 mg/kg	110	86.0	122
EG005T: Lead	7439-92-1	5	mg/kg	<5	45.3 mg/kg	101	84.0	119
EG005T: Nickel	7440-02-0	2	mg/kg	<2	12.4 mg/kg	110	81.5	118
EG005T: Zinc	7440-66-6	5	mg/kg	<5	150.2 mg/kg	116	80.0	120
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 5627900)								
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	65.3 mg/kg	91.4	84.0	123
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	----	----	----	----
EG005T: Chromium	7440-47-3	2	mg/kg	<2	14.5 mg/kg	102	83.0	125
EG005T: Copper	7440-50-8	5	mg/kg	<5	37.4 mg/kg	99.4	86.0	122
EG005T: Lead	7439-92-1	5	mg/kg	<5	45.3 mg/kg	97.3	84.0	119
EG005T: Nickel	7440-02-0	2	mg/kg	<2	12.4 mg/kg	103	81.5	118
EG005T: Zinc	7440-66-6	5	mg/kg	<5	150.2 mg/kg	102	80.0	120
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 5627901)								
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	65.3 mg/kg	97.3	84.0	123
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	----	----	----	----
EG005T: Chromium	7440-47-3	2	mg/kg	<2	14.5 mg/kg	102	83.0	125
EG005T: Copper	7440-50-8	5	mg/kg	<5	37.4 mg/kg	103	86.0	122
EG005T: Lead	7439-92-1	5	mg/kg	<5	45.3 mg/kg	95.8	84.0	119
EG005T: Nickel	7440-02-0	2	mg/kg	<2	12.4 mg/kg	102	81.5	118



Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report Result	Laboratory Control Spike (LCS) Report				
					Spike Concentration	Spike Recovery (%)		Acceptable Limits (%)	
						LCS	Low	High	
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 5627901) - continued									
EG005T: Zinc	7440-66-6	5	mg/kg	<5	150.2 mg/kg	103	80.0	120	
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 5627909)									
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	65.3 mg/kg	110	84.0	123	
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	----	----	----	----	
EG005T: Chromium	7440-47-3	2	mg/kg	<2	14.5 mg/kg	114	83.0	125	
EG005T: Copper	7440-50-8	5	mg/kg	<5	37.4 mg/kg	117	86.0	122	
EG005T: Lead	7439-92-1	5	mg/kg	<5	45.3 mg/kg	115	84.0	119	
EG005T: Nickel	7440-02-0	2	mg/kg	<2	12.4 mg/kg	115	81.5	118	
EG005T: Zinc	7440-66-6	5	mg/kg	<5	150.2 mg/kg	118	80.0	120	
EG035T: Total Recoverable Mercury by FIMS (QCLot: 5627888)									
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.09199 mg/kg	106	70.0	125	
EG035T: Total Recoverable Mercury by FIMS (QCLot: 5627890)									
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.09199 mg/kg	102	70.0	125	
EG035T: Total Recoverable Mercury by FIMS (QCLot: 5627899)									
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.09199 mg/kg	107	70.0	125	
EG035T: Total Recoverable Mercury by FIMS (QCLot: 5627902)									
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.09199 mg/kg	110	70.0	125	
EG035T: Total Recoverable Mercury by FIMS (QCLot: 5627908)									
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.09199 mg/kg	106	70.0	125	
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 5627882)									
EP066: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	1 mg/kg	83.1	71.6	155	
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 5627898)									
EP066: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	1 mg/kg	82.0	71.6	155	
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 5627918)									
EP066: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	1 mg/kg	101	71.6	155	
EP068A: Organochlorine Pesticides (OC) (QCLot: 5627881)									
EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	0.5 mg/kg	97.2	72.8	127	
EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	0.5 mg/kg	125	71.0	127	
EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	0.5 mg/kg	107	67.5	126	
EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	0.5 mg/kg	104	72.7	127	
EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	0.5 mg/kg	109	70.6	122	
EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	0.5 mg/kg	115	64.8	127	
EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	0.5 mg/kg	118	72.4	122	
EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	0.5 mg/kg	87.3	67.4	125	



Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
				Result	Spike	Spike Recovery (%)	Acceptable Limits (%)	
					Concentration	LCS	Low	High
EP068A: Organochlorine Pesticides (OC) (QCLot: 5627881) - continued								
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	75.4	65.6	124
EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	0.5 mg/kg	102	70.4	122
EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	0.5 mg/kg	72.0	65.6	125
EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	0.5 mg/kg	109	69.1	124
EP068: 4.4'-DDE	72-55-9	0.05	mg/kg	<0.05	0.5 mg/kg	125	72.4	125
EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	0.5 mg/kg	102	63.2	127
EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	0.5 mg/kg	108	69.7	120
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	80.4	61.2	124
EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	0.5 mg/kg	84.4	55.5	125
EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	0.5 mg/kg	87.1	57.1	117
EP068: 4.4'-DDT	50-29-3	0.2	mg/kg	<0.2	0.5 mg/kg	74.6	51.9	125
EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	0.5 mg/kg	96.1	46.5	122
EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	0.5 mg/kg	81.2	34.0	130
EP068: Sum of DDD + DDE + DDT	72-54-8/72-5-9/50-2	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: 5627897)								
EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	0.5 mg/kg	117	72.8	127
EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	0.5 mg/kg	106	71.0	127
EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	0.5 mg/kg	97.9	67.5	126
EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	0.5 mg/kg	104	72.7	127
EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	0.5 mg/kg	90.4	70.6	122
EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	0.5 mg/kg	97.2	64.8	127
EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	0.5 mg/kg	99.5	72.4	122
EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	0.5 mg/kg	# 66.6	67.4	125
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	80.7	65.6	124
EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	0.5 mg/kg	83.3	70.4	122
EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	0.5 mg/kg	83.2	65.6	125
EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	0.5 mg/kg	93.8	69.1	124
EP068: 4.4'-DDE	72-55-9	0.05	mg/kg	<0.05	0.5 mg/kg	101	72.4	125
EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	0.5 mg/kg	89.8	63.2	127



Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
				Result	Spike Concentration	Spike Recovery (%)	Acceptable Limits (%)	
					LCS	Low	High	
EP068A: Organochlorine Pesticides (OC) (QCLot: 5627897) - continued								
EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	0.5 mg/kg	98.0	69.7	120
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	96.7	61.2	124
EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	0.5 mg/kg	101	55.5	125
EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	0.5 mg/kg	84.7	57.1	117
EP068: 4.4'-DDT	50-29-3	0.2	mg/kg	<0.2	0.5 mg/kg	90.1	51.9	125
EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	0.5 mg/kg	85.2	46.5	122
EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	0.5 mg/kg	88.3	34.0	130
EP068: Sum of DDD + DDE + DDT	72-54-8/72-5-9/50-2	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: 5627917)								
EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	0.5 mg/kg	110	72.8	127
EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	0.5 mg/kg	112	71.0	127
EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	0.5 mg/kg	93.6	67.5	126
EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	0.5 mg/kg	99.0	72.7	127
EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	0.5 mg/kg	95.0	70.6	122
EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	0.5 mg/kg	96.2	64.8	127
EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	0.5 mg/kg	103	72.4	122
EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	0.5 mg/kg	79.1	67.4	125
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	77.5	65.6	124
EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	0.5 mg/kg	87.6	70.4	122
EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	0.5 mg/kg	78.8	65.6	125
EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	0.5 mg/kg	92.4	69.1	124
EP068: 4.4'-DDE	72-55-9	0.05	mg/kg	<0.05	0.5 mg/kg	103	72.4	125
EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	0.5 mg/kg	89.0	63.2	127
EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	0.5 mg/kg	105	69.7	120
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	104	61.2	124
EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	0.5 mg/kg	100	55.5	125
EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	0.5 mg/kg	89.0	57.1	117
EP068: 4.4'-DDT	50-29-3	0.2	mg/kg	<0.2	0.5 mg/kg	93.4	51.9	125
EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	0.5 mg/kg	105	46.5	122



Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
				Result	Spike Concentration	Spike Recovery (%)	Acceptable Limits (%)	
						LCS	Low	High
EP068A: Organochlorine Pesticides (OC) (QCLot: 5627917) - continued								
EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	0.5 mg/kg	87.8	34.0	130
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: 5627881)								
EP068: Dichlorvos	62-73-7	0.05	mg/kg	<0.05	0.5 mg/kg	114	55.8	126
EP068: Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	0.5 mg/kg	80.2	45.9	136
EP068: Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	0.5 mg/kg	# 247	20.0	147
EP068: Dimethoate	60-51-5	0.05	mg/kg	<0.05	0.5 mg/kg	84.8	44.1	125
EP068: Diazinon	333-41-5	0.05	mg/kg	<0.05	0.5 mg/kg	101	70.3	125
EP068: Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	0.5 mg/kg	108	63.2	124
EP068: Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	0.5 mg/kg	85.7	44.2	129
EP068: Malathion	121-75-5	0.05	mg/kg	<0.05	0.5 mg/kg	74.7	52.3	133
EP068: Fenthion	55-38-9	0.05	mg/kg	<0.05	0.5 mg/kg	106	62.9	126
EP068: Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	0.5 mg/kg	107	69.2	123
EP068: Parathion	56-38-2	0.2	mg/kg	<0.2	0.5 mg/kg	75.4	37.6	138
EP068: Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	0.5 mg/kg	76.3	59.6	131
EP068: Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	0.5 mg/kg	81.8	46.4	144
EP068: Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	0.5 mg/kg	# 132	56.8	128
EP068: Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	0.5 mg/kg	64.6	24.4	135
EP068: Prothiofos	34643-46-4	0.05	mg/kg	<0.05	0.5 mg/kg	87.8	55.9	123
EP068: Ethion	563-12-2	0.05	mg/kg	<0.05	0.5 mg/kg	71.6	45.0	138
EP068: Carbophenothion	786-19-6	0.05	mg/kg	<0.05	0.5 mg/kg	81.8	41.6	141
EP068: Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	0.5 mg/kg	79.8	20.0	145
EP068B: Organophosphorus Pesticides (OP) (QCLot: 5627897)								
EP068: Dichlorvos	62-73-7	0.05	mg/kg	<0.05	0.5 mg/kg	88.0	55.8	126
EP068: Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	0.5 mg/kg	85.4	45.9	136
EP068: Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	0.5 mg/kg	21.7	20.0	147
EP068: Dimethoate	60-51-5	0.05	mg/kg	<0.05	0.5 mg/kg	75.4	44.1	125
EP068: Diazinon	333-41-5	0.05	mg/kg	<0.05	0.5 mg/kg	98.3	70.3	125
EP068: Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	0.5 mg/kg	92.7	63.2	124
EP068: Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	0.5 mg/kg	76.9	44.2	129
EP068: Malathion	121-75-5	0.05	mg/kg	<0.05	0.5 mg/kg	80.8	52.3	133
EP068: Fenthion	55-38-9	0.05	mg/kg	<0.05	0.5 mg/kg	106	62.9	126



Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
				Result	Spike Concentration	Spike Recovery (%)	Acceptable Limits (%)	
						LCS	Low	High
EP068B: Organophosphorus Pesticides (OP) (QCLot: 5627897) - continued								
EP068: Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	0.5 mg/kg	98.9	69.2	123
EP068: Parathion	56-38-2	0.2	mg/kg	<0.2	0.5 mg/kg	81.8	37.6	138
EP068: Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	0.5 mg/kg	72.8	59.6	131
EP068: Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	0.5 mg/kg	101	46.4	144
EP068: Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	0.5 mg/kg	77.8	56.8	128
EP068: Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	0.5 mg/kg	69.3	24.4	135
EP068: Prothiofos	34643-46-4	0.05	mg/kg	<0.05	0.5 mg/kg	91.8	55.9	123
EP068: Ethion	563-12-2	0.05	mg/kg	<0.05	0.5 mg/kg	92.1	45.0	138
EP068: Carbophenothion	786-19-6	0.05	mg/kg	<0.05	0.5 mg/kg	69.8	41.6	141
EP068: Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	0.5 mg/kg	38.4	20.0	145
EP068B: Organophosphorus Pesticides (OP) (QCLot: 5627917)								
EP068: Dichlorvos	62-73-7	0.05	mg/kg	<0.05	0.5 mg/kg	93.3	55.8	126
EP068: Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	0.5 mg/kg	84.4	45.9	136
EP068: Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	0.5 mg/kg	# 17.6	20.0	147
EP068: Dimethoate	60-51-5	0.05	mg/kg	<0.05	0.5 mg/kg	76.4	44.1	125
EP068: Diazinon	333-41-5	0.05	mg/kg	<0.05	0.5 mg/kg	104	70.3	125
EP068: Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	0.5 mg/kg	106	63.2	124
EP068: Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	0.5 mg/kg	83.0	44.2	129
EP068: Malathion	121-75-5	0.05	mg/kg	<0.05	0.5 mg/kg	82.5	52.3	133
EP068: Fenthion	55-38-9	0.05	mg/kg	<0.05	0.5 mg/kg	108	62.9	126
EP068: Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	0.5 mg/kg	102	69.2	123
EP068: Parathion	56-38-2	0.2	mg/kg	<0.2	0.5 mg/kg	86.0	37.6	138
EP068: Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	0.5 mg/kg	82.5	59.6	131
EP068: Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	0.5 mg/kg	100	46.4	144
EP068: Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	0.5 mg/kg	92.3	56.8	128
EP068: Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	0.5 mg/kg	99.2	24.4	135
EP068: Prothiofos	34643-46-4	0.05	mg/kg	<0.05	0.5 mg/kg	90.4	55.9	123
EP068: Ethion	563-12-2	0.05	mg/kg	<0.05	0.5 mg/kg	93.8	45.0	138
EP068: Carbophenothion	786-19-6	0.05	mg/kg	<0.05	0.5 mg/kg	101	41.6	141
EP068: Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	0.5 mg/kg	# 19.8	20.0	145
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 5627880)								
EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	1.5 mg/kg	80.6	72.6	133
EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	1.5 mg/kg	87.7	63.2	144
EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	1.5 mg/kg	89.0	66.0	132



Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report				
				Result	Spike	Spike Recovery (%)		Acceptable Limits (%)	
					Concentration	LCS	Low	High	
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 5627880) - continued									
EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	1.5 mg/kg	91.1	76.2	134	
EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	1.5 mg/kg	97.4	71.8	137	
EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	1.5 mg/kg	103	77.1	143	
EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	1.5 mg/kg	89.9	74.1	140	
EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	1.5 mg/kg	85.8	72.0	139	
EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	1.5 mg/kg	93.9	58.0	145	
EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	1.5 mg/kg	96.4	63.0	147	
EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	1.5 mg/kg	91.6	70.5	142	
EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	1.5 mg/kg	106	75.5	138	
EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	1.5 mg/kg	97.6	68.5	140	
EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	1.5 mg/kg	101	58.4	143	
EP075(SIM): Dibenz(a,h)anthracene	53-70-3	0.5	mg/kg	<0.5	1.5 mg/kg	112	52.1	149	
EP075(SIM): Benzo(g,h,i)perylene	191-24-2	0.5	mg/kg	<0.5	1.5 mg/kg	111	64.6	140	
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 5627896)									
EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	1.5 mg/kg	85.4	72.6	133	
EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	1.5 mg/kg	86.4	63.2	144	
EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	1.5 mg/kg	84.8	66.0	132	
EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	1.5 mg/kg	88.0	76.2	134	
EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	1.5 mg/kg	101	71.8	137	
EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	1.5 mg/kg	97.4	77.1	143	
EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	1.5 mg/kg	120	74.1	140	
EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	1.5 mg/kg	121	72.0	139	
EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	1.5 mg/kg	118	58.0	145	
EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	1.5 mg/kg	123	63.0	147	
EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	1.5 mg/kg	99.1	70.5	142	
EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	1.5 mg/kg	81.9	75.5	138	
EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	1.5 mg/kg	90.0	68.5	140	
EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	1.5 mg/kg	88.9	58.4	143	
EP075(SIM): Dibenz(a,h)anthracene	53-70-3	0.5	mg/kg	<0.5	1.5 mg/kg	81.3	52.1	149	
EP075(SIM): Benzo(g,h,i)perylene	191-24-2	0.5	mg/kg	<0.5	1.5 mg/kg	89.6	64.6	140	
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 5627914)									
EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	1.5 mg/kg	85.2	72.6	133	
EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	1.5 mg/kg	89.6	63.2	144	



Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report				
				Result	Spike	Spike Recovery (%)		Acceptable Limits (%)	
					Concentration	LCS	Low	High	
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 5627914) - continued									
EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	1.5 mg/kg	86.5	66.0	132	
EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	1.5 mg/kg	84.7	76.2	134	
EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	1.5 mg/kg	92.6	71.8	137	
EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	1.5 mg/kg	99.4	77.1	143	
EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	1.5 mg/kg	88.2	74.1	140	
EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	1.5 mg/kg	86.3	72.0	139	
EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	1.5 mg/kg	85.6	58.0	145	
EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	1.5 mg/kg	87.7	63.0	147	
EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	1.5 mg/kg	89.9	70.5	142	
EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	1.5 mg/kg	99.4	75.5	138	
EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	1.5 mg/kg	90.6	68.5	140	
EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	1.5 mg/kg	93.0	58.4	143	
EP075(SIM): Dibenz(a,h)anthracene	53-70-3	0.5	mg/kg	<0.5	1.5 mg/kg	103	52.1	149	
EP075(SIM): Benzo(g,h,i)perylene	191-24-2	0.5	mg/kg	<0.5	1.5 mg/kg	107	64.6	140	
EP075A: Phenolic Compounds (QCLot: 5627883)									
EP075: Phenol	108-95-2	0.5	mg/kg	<0.5	1 mg/kg	92.9	50.0	159	
EP075: 2-Chlorophenol	95-57-8	0.5	mg/kg	<0.5	1 mg/kg	92.3	79.9	120	
EP075: 2-Methylphenol	95-48-7	0.5	mg/kg	<0.5	1 mg/kg	87.8	80.9	138	
EP075: 3- & 4-Methylphenol	1319-77-3	0.5	mg/kg	<0.5	1 mg/kg	89.3	75.0	139	
EP075: 2-Nitrophenol	88-75-5	0.5	mg/kg	<0.5	1 mg/kg	132	59.8	154	
EP075: 2,4-Dimethylphenol	105-67-9	0.5	mg/kg	<0.5	1 mg/kg	85.9	80.0	131	
EP075: 2,4-Dichlorophenol	120-83-2	0.5	mg/kg	<0.5	1 mg/kg	100	67.2	137	
EP075: 2,6-Dichlorophenol	87-65-0	0.5	mg/kg	<0.5	1 mg/kg	109	76.2	148	
EP075: 4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg	<0.5	1 mg/kg	97.6	56.0	132	
EP075: 2,4,6-Trichlorophenol	88-06-2	0.5	mg/kg	<0.5	1 mg/kg	113	58.5	148	
EP075: 2,4,5-Trichlorophenol	95-95-4	0.5	mg/kg	<0.5	1 mg/kg	114	51.2	145	
EP075: Pentachlorophenol	87-86-5	1	mg/kg	<1	1 mg/kg	115	21.0	130	
EP075A: Phenolic Compounds (QCLot: 5627894)									
EP075: Phenol	108-95-2	0.5	mg/kg	<0.5	1 mg/kg	87.8	50.0	159	
EP075: 2-Chlorophenol	95-57-8	0.5	mg/kg	<0.5	1 mg/kg	91.8	79.9	120	
EP075: 2-Methylphenol	95-48-7	0.5	mg/kg	<0.5	1 mg/kg	86.7	80.9	138	
EP075: 3- & 4-Methylphenol	1319-77-3	0.5	mg/kg	<0.5	1 mg/kg	86.2	75.0	139	
EP075: 2-Nitrophenol	88-75-5	0.5	mg/kg	<0.5	1 mg/kg	127	59.8	154	



Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report				
				Result	Spike Concentration	Spike Recovery (%)		Acceptable Limits (%)	
						LCS	Low	High	
EP075A: Phenolic Compounds (QCLot: 5627894) - continued									
EP075: 2,4-Dimethylphenol	105-67-9	0.5	mg/kg	<0.5	1 mg/kg	85.2	80.0	131	
EP075: 2,4-Dichlorophenol	120-83-2	0.5	mg/kg	<0.5	1 mg/kg	98.0	67.2	137	
EP075: 2,6-Dichlorophenol	87-65-0	0.5	mg/kg	<0.5	1 mg/kg	105	76.2	148	
EP075: 4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg	<0.5	1 mg/kg	93.7	56.0	132	
EP075: 2,4,6-Trichlorophenol	88-06-2	0.5	mg/kg	<0.5	1 mg/kg	109	58.5	148	
EP075: 2,4,5-Trichlorophenol	95-95-4	0.5	mg/kg	<0.5	1 mg/kg	114	51.2	145	
EP075: Pentachlorophenol	87-86-5	1	mg/kg	<1	1 mg/kg	107	21.0	130	
EP075B: Polynuclear Aromatic Hydrocarbons (QCLot: 5627883)									
EP075: Naphthalene	91-20-3	0.5	mg/kg	<0.5	1 mg/kg	96.9	85.0	150	
EP075: 2-Methylnaphthalene	91-57-6	0.5	mg/kg	<0.5	1 mg/kg	101	80.2	154	
EP075: 2-Chloronaphthalene	91-58-7	0.5	mg/kg	<0.5	1 mg/kg	104	76.7	156	
EP075: Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	1 mg/kg	103	70.4	155	
EP075: Acenaphthene	83-32-9	0.5	mg/kg	<0.5	1 mg/kg	92.4	81.2	120	
EP075: Fluorene	86-73-7	0.5	mg/kg	<0.5	1 mg/kg	103	70.6	140	
EP075: Phenanthrene	85-01-8	0.5	mg/kg	<0.5	1 mg/kg	100	85.0	128	
EP075: Anthracene	120-12-7	0.5	mg/kg	<0.5	1 mg/kg	100	83.4	129	
EP075: Fluoranthene	206-44-0	0.5	mg/kg	<0.5	1 mg/kg	92.7	81.7	129	
EP075: Pyrene	129-00-0	0.5	mg/kg	<0.5	1 mg/kg	95.1	83.5	131	
EP075: N-2-Fluorenyl Acetamide	53-96-3	0.5	mg/kg	<0.5	1 mg/kg	80.5	61.0	129	
EP075: Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	1 mg/kg	92.1	69.7	140	
EP075: Chrysene	218-01-9	0.5	mg/kg	<0.5	1 mg/kg	91.6	75.5	142	
EP075: Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1	mg/kg	<1	2 mg/kg	93.9	39.2	169	
EP075: 7,12-Dimethylbenz(a)anthracene	57-97-6	0.5	mg/kg	<0.5	1 mg/kg	101	63.0	136	
EP075: Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	1 mg/kg	92.4	69.4	153	
EP075: 3-Methylcholanthrene	56-49-5	0.5	mg/kg	<0.5	1 mg/kg	129	62.9	145	
EP075: Indeno(1,2,3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	1 mg/kg	115	49.6	131	
EP075: Dibenz(a,h)anthracene	53-70-3	0.5	mg/kg	<0.5	1 mg/kg	88.4	45.8	132	
EP075: Benzo(g,h,i)perylene	191-24-2	0.5	mg/kg	<0.5	1 mg/kg	97.0	56.5	130	
EP075B: Polynuclear Aromatic Hydrocarbons (QCLot: 5627894)									
EP075: Naphthalene	91-20-3	0.5	mg/kg	<0.5	1 mg/kg	96.0	85.0	150	
EP075: 2-Methylnaphthalene	91-57-6	0.5	mg/kg	<0.5	1 mg/kg	100	80.2	154	
EP075: 2-Chloronaphthalene	91-58-7	0.5	mg/kg	<0.5	1 mg/kg	104	76.7	156	
EP075: Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	1 mg/kg	102	70.4	155	



Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
				Result	Spike	Spike Recovery (%)		
					Concentration	LCS	Acceptable Limits (%)	
						Low	High	
EP075B: Polynuclear Aromatic Hydrocarbons (QCLot: 5627894) - continued								
EP075: Acenaphthene	83-32-9	0.5	mg/kg	<0.5	1 mg/kg	92.2	81.2	120
EP075: Fluorene	86-73-7	0.5	mg/kg	<0.5	1 mg/kg	99.4	70.6	140
EP075: Phenanthrene	85-01-8	0.5	mg/kg	<0.5	1 mg/kg	96.2	85.0	128
EP075: Anthracene	120-12-7	0.5	mg/kg	<0.5	1 mg/kg	99.7	83.4	129
EP075: Fluoranthene	206-44-0	0.5	mg/kg	<0.5	1 mg/kg	93.2	81.7	129
EP075: Pyrene	129-00-0	0.5	mg/kg	<0.5	1 mg/kg	93.2	83.5	131
EP075: N-2-Fluorenyl Acetamide	53-96-3	0.5	mg/kg	<0.5	1 mg/kg	80.5	61.0	129
EP075: Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	1 mg/kg	89.3	69.7	140
EP075: Chrysene	218-01-9	0.5	mg/kg	<0.5	1 mg/kg	94.4	75.5	142
EP075: Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1	mg/kg	<1	2 mg/kg	93.3	39.2	169
EP075: 7,12-Dimethylbenz(a)anthracene	57-97-6	0.5	mg/kg	<0.5	1 mg/kg	99.2	63.0	136
EP075: Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	1 mg/kg	93.2	69.4	153
EP075: 3-Methylcholanthrene	56-49-5	0.5	mg/kg	<0.5	1 mg/kg	123	62.9	145
EP075: Indeno(1,2,3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	1 mg/kg	113	49.6	131
EP075: Dibenz(a,h)anthracene	53-70-3	0.5	mg/kg	<0.5	1 mg/kg	112	45.8	132
EP075: Benzo(g,h,i)perylene	191-24-2	0.5	mg/kg	<0.5	1 mg/kg	114	56.5	130
EP075C: Phthalate Esters (QCLot: 5627883)								
EP075: Dimethyl phthalate	131-11-3	0.5	mg/kg	<0.5	1 mg/kg	111	71.0	160
EP075: Diethyl phthalate	84-66-2	0.5	mg/kg	<0.5	1 mg/kg	94.1	75.3	139
EP075: Di-n-butyl phthalate	84-74-2	0.5	mg/kg	<0.5	1 mg/kg	91.0	78.6	129
EP075: Butyl benzyl phthalate	85-68-7	0.5	mg/kg	<0.5	1 mg/kg	88.4	75.7	131
EP075: bis(2-ethylhexyl) phthalate	117-81-7	0.5	mg/kg	<0.5	1 mg/kg	99.7	69.4	139
EP075: Di-n-octylphthalate	117-84-0	0.5	mg/kg	<0.5	1 mg/kg	83.9	65.4	141
EP075C: Phthalate Esters (QCLot: 5627894)								
EP075: Dimethyl phthalate	131-11-3	0.5	mg/kg	<0.5	1 mg/kg	107	71.0	160
EP075: Diethyl phthalate	84-66-2	0.5	mg/kg	<0.5	1 mg/kg	92.0	75.3	139
EP075: Di-n-butyl phthalate	84-74-2	0.5	mg/kg	<0.5	1 mg/kg	89.9	78.6	129
EP075: Butyl benzyl phthalate	85-68-7	0.5	mg/kg	<0.5	1 mg/kg	87.6	75.7	131
EP075: bis(2-ethylhexyl) phthalate	117-81-7	0.5	mg/kg	<0.5	1 mg/kg	88.4	69.4	139
EP075: Di-n-octylphthalate	117-84-0	0.5	mg/kg	<0.5	1 mg/kg	83.4	65.4	141
EP075D: Nitrosamines (QCLot: 5627883)								
EP075: N-Nitrosomethylethylamine	10595-95-6	0.5	mg/kg	<0.5	1 mg/kg	93.8	70.1	150
EP075: N-Nitrosodiethylamine	55-18-5	0.5	mg/kg	<0.5	1 mg/kg	102	75.9	147



Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
				Result	Spike Concentration	Spike Recovery (%)	Acceptable Limits (%)	
						LCS	Low	High
EP075D: Nitrosamines (QCLot: 5627883) - continued								
EP075: N-Nitrosopyrrolidine	930-55-2	0.5	mg/kg	<0.5	1 mg/kg	101	65.8	160
EP075: N-Nitrosomorpholine	59-89-2	0.5	mg/kg	<0.5	1 mg/kg	93.1	78.7	149
EP075: N-Nitrosodi-n-propylamine	621-64-7	0.5	mg/kg	<0.5	1 mg/kg	97.1	53.0	144
EP075: N-Nitrosopiperidine	100-75-4	0.5	mg/kg	<0.5	1 mg/kg	93.7	83.6	134
EP075: N-Nitrosodibutylamine	924-16-3	0.5	mg/kg	<0.5	1 mg/kg	107	71.0	153
EP075: N-Nitrosodiphenyl & Diphenylamine	86-30-6 122-39-4	0.5	mg/kg	<0.5	1 mg/kg	99.2	71.8	133
EP075: Methapyrilene	91-80-5	0.5	mg/kg	<0.5	1 mg/kg	25.4	1.72	147
EP075D: Nitrosamines (QCLot: 5627894)								
EP075: N-Nitrosomethylethylamine	10595-95-6	0.5	mg/kg	<0.5	1 mg/kg	101	70.1	150
EP075: N-Nitrosodiethylamine	55-18-5	0.5	mg/kg	<0.5	1 mg/kg	99.4	75.9	147
EP075: N-Nitrosopyrrolidine	930-55-2	0.5	mg/kg	<0.5	1 mg/kg	97.1	65.8	160
EP075: N-Nitrosomorpholine	59-89-2	0.5	mg/kg	<0.5	1 mg/kg	89.7	78.7	149
EP075: N-Nitrosodi-n-propylamine	621-64-7	0.5	mg/kg	<0.5	1 mg/kg	96.0	53.0	144
EP075: N-Nitrosopiperidine	100-75-4	0.5	mg/kg	<0.5	1 mg/kg	91.0	83.6	134
EP075: N-Nitrosodibutylamine	924-16-3	0.5	mg/kg	<0.5	1 mg/kg	106	71.0	153
EP075: N-Nitrosodiphenyl & Diphenylamine	86-30-6 122-39-4	0.5	mg/kg	<0.5	1 mg/kg	98.0	71.8	133
EP075: Methapyrilene	91-80-5	0.5	mg/kg	<0.5	1 mg/kg	59.5	1.72	147
EP075E: Nitroaromatics and Ketones (QCLot: 5627883)								
EP075: 2-Picoline	109-06-8	0.5	mg/kg	<0.5	1 mg/kg	86.3	74.8	139
EP075: Acetophenone	98-86-2	0.5	mg/kg	<0.5	1 mg/kg	86.0	85.2	132
EP075: Nitrobenzene	98-95-3	0.5	mg/kg	<0.5	1 mg/kg	102	83.0	140
EP075: Isophorone	78-59-1	0.5	mg/kg	<0.5	1 mg/kg	84.8	79.6	138
EP075: 2,6-Dinitrotoluene	606-20-2	0.5	mg/kg	<0.5	1 mg/kg	135	56.9	159
EP075: 2,4-Dinitrotoluene	121-14-2	0.5	mg/kg	<0.5	1 mg/kg	134	35.0	136
EP075: 1-Naphthylamine	134-32-7	0.5	mg/kg	<0.5	1 mg/kg	65.3	21.5	121
EP075: 4-Nitroquinoline-N-oxide	56-57-5	0.5	mg/kg	<0.5	1 mg/kg	88.5	36.0	140
EP075: 5-Nitro-o-toluidine	99-55-8	0.5	mg/kg	<0.5	1 mg/kg	110	35.6	139
EP075: Azobenzene	103-33-3	1	mg/kg	<1	1 mg/kg	88.7	74.4	134
EP075: 1,3,5-Trinitrobenzene	99-35-4	0.5	mg/kg	<0.5	1 mg/kg	157	8.41	157
EP075: Phenacetin	62-44-2	0.5	mg/kg	<0.5	1 mg/kg	72.2	38.4	129
EP075: 4-Aminobiphenyl	92-67-1	0.5	mg/kg	<0.5	1 mg/kg	101	58.0	109
EP075: Pentachloronitrobenzene	82-68-8	0.5	mg/kg	<0.5	1 mg/kg	116	71.2	148
EP075: Pronamide	23950-58-5	0.5	mg/kg	<0.5	1 mg/kg	89.0	77.4	130



Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report				
				Result	Spike	Spike Recovery (%)		Acceptable Limits (%)	
					Concentration	LCS	Low	High	
EP075E: Nitroaromatics and Ketones (QCLot: 5627883) - continued									
EP075: Dimethylaminoazobenzene	60-11-7	0.5	mg/kg	<0.5	1 mg/kg	98.8	57.7	127	
EP075: Chlorobenzilate	510-15-6	0.5	mg/kg	<0.5	1 mg/kg	89.8	74.3	141	
EP075E: Nitroaromatics and Ketones (QCLot: 5627894)									
EP075: 2-Picoline	109-06-8	0.5	mg/kg	<0.5	1 mg/kg	87.2	74.8	139	
EP075: Acetophenone	98-86-2	0.5	mg/kg	<0.5	1 mg/kg	85.7	85.2	132	
EP075: Nitrobenzene	98-95-3	0.5	mg/kg	<0.5	1 mg/kg	100	83.0	140	
EP075: Isophorone	78-59-1	0.5	mg/kg	<0.5	1 mg/kg	83.5	79.6	138	
EP075: 2,6-Dinitrotoluene	606-20-2	0.5	mg/kg	<0.5	1 mg/kg	132	56.9	159	
EP075: 2,4-Dinitrotoluene	121-14-2	0.5	mg/kg	<0.5	1 mg/kg	128	35.0	136	
EP075: 1-Naphthylamine	134-32-7	0.5	mg/kg	<0.5	1 mg/kg	65.2	21.5	121	
EP075: 4-Nitroquinoline-N-oxide	56-57-5	0.5	mg/kg	<0.5	1 mg/kg	79.8	36.0	140	
EP075: 5-Nitro-o-toluidine	99-55-8	0.5	mg/kg	<0.5	1 mg/kg	115	35.6	139	
EP075: Azobenzene	103-33-3	1	mg/kg	<1	1 mg/kg	84.4	74.4	134	
EP075: 1,3,5-Trinitrobenzene	99-35-4	0.5	mg/kg	<0.5	1 mg/kg	144	8.41	157	
EP075: Phenacetin	62-44-2	0.5	mg/kg	<0.5	1 mg/kg	71.4	38.4	129	
EP075: 4-Aminobiphenyl	92-67-1	0.5	mg/kg	<0.5	1 mg/kg	104	58.0	109	
EP075: Pentachloronitrobenzene	82-68-8	0.5	mg/kg	<0.5	1 mg/kg	116	71.2	148	
EP075: Pronamide	23950-58-5	0.5	mg/kg	<0.5	1 mg/kg	87.6	77.4	130	
EP075: Dimethylaminoazobenzene	60-11-7	0.5	mg/kg	<0.5	1 mg/kg	99.8	57.7	127	
EP075: Chlorobenzilate	510-15-6	0.5	mg/kg	<0.5	1 mg/kg	86.8	74.3	141	
EP075F: Haloethers (QCLot: 5627883)									
EP075: Bis(2-chloroethyl) ether	111-44-4	0.5	mg/kg	<0.5	1 mg/kg	82.8	74.3	136	
EP075: Bis(2-chloroethoxy) methane	111-91-1	0.5	mg/kg	<0.5	1 mg/kg	85.4	80.8	136	
EP075: 4-Chlorophenyl phenyl ether	7005-72-3	0.5	mg/kg	<0.5	1 mg/kg	103	67.4	146	
EP075: 4-Bromophenyl phenyl ether	101-55-3	0.5	mg/kg	<0.5	1 mg/kg	100	72.5	139	
EP075F: Haloethers (QCLot: 5627894)									
EP075: Bis(2-chloroethyl) ether	111-44-4	0.5	mg/kg	<0.5	1 mg/kg	81.3	74.3	136	
EP075: Bis(2-chloroethoxy) methane	111-91-1	0.5	mg/kg	<0.5	1 mg/kg	84.2	80.8	136	
EP075: 4-Chlorophenyl phenyl ether	7005-72-3	0.5	mg/kg	<0.5	1 mg/kg	101	67.4	146	
EP075: 4-Bromophenyl phenyl ether	101-55-3	0.5	mg/kg	<0.5	1 mg/kg	95.9	72.5	139	
EP075G: Chlorinated Hydrocarbons (QCLot: 5627883)									
EP075: 1,3-Dichlorobenzene	541-73-1	0.5	mg/kg	<0.5	1 mg/kg	90.2	82.0	137	
EP075: 1,4-Dichlorobenzene	106-46-7	0.5	mg/kg	<0.5	1 mg/kg	87.7	70.5	119	
EP075: 1,2-Dichlorobenzene	95-50-1	0.5	mg/kg	<0.5	1 mg/kg	90.0	85.3	135	



Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report				
				Result	Spike Concentration	Spike Recovery (%)		Acceptable Limits (%)	
						LCS	Low	High	
EP075G: Chlorinated Hydrocarbons (QCLot: 5627883) - continued									
EP075: Hexachloroethane	67-72-1	0.5	mg/kg	<0.5	1 mg/kg	99.8	78.4	144	
EP075: 1,2,4-Trichlorobenzene	120-82-1	0.5	mg/kg	<0.5	1 mg/kg	100.0	79.5	120	
EP075: Hexachloropropylene	1888-71-7	0.5	mg/kg	<0.5	1 mg/kg	112	40.4	183	
EP075: Hexachlorobutadiene	87-68-3	0.5	mg/kg	<0.5	1 mg/kg	110	81.7	154	
EP075: Hexachlorocyclopentadiene	77-47-4	2.5	mg/kg	<2.5	1 mg/kg	# 172	26.0	126	
EP075: Pentachlorobenzene	608-93-5	0.5	mg/kg	<0.5	1 mg/kg	99.3	77.3	130	
EP075: Hexachlorobenzene (HCB)	118-74-1	0.5	mg/kg	<0.5	1 mg/kg	100	60.4	138	
EP075G: Chlorinated Hydrocarbons (QCLot: 5627894)									
EP075: 1,3-Dichlorobenzene	541-73-1	0.5	mg/kg	<0.5	1 mg/kg	90.0	82.0	137	
EP075: 1,4-Dichlorobenzene	106-46-7	0.5	mg/kg	<0.5	1 mg/kg	89.6	70.5	119	
EP075: 1,2-Dichlorobenzene	95-50-1	0.5	mg/kg	<0.5	1 mg/kg	91.3	85.3	135	
EP075: Hexachloroethane	67-72-1	0.5	mg/kg	<0.5	1 mg/kg	99.5	78.4	144	
EP075: 1,2,4-Trichlorobenzene	120-82-1	0.5	mg/kg	<0.5	1 mg/kg	98.3	79.5	120	
EP075: Hexachloropropylene	1888-71-7	0.5	mg/kg	<0.5	1 mg/kg	135	40.4	183	
EP075: Hexachlorobutadiene	87-68-3	0.5	mg/kg	<0.5	1 mg/kg	105	81.7	154	
EP075: Hexachlorocyclopentadiene	77-47-4	2.5	mg/kg	<2.5	1 mg/kg	# 204	26.0	126	
EP075: Pentachlorobenzene	608-93-5	0.5	mg/kg	<0.5	1 mg/kg	98.8	77.3	130	
EP075: Hexachlorobenzene (HCB)	118-74-1	0.5	mg/kg	<0.5	1 mg/kg	98.9	60.4	138	
EP075H: Anilines and Benzidines (QCLot: 5627883)									
EP075: Aniline	62-53-3	0.5	mg/kg	<0.5	1 mg/kg	78.4	62.6	134	
EP075: 4-Chloroaniline	106-47-8	0.5	mg/kg	<0.5	1 mg/kg	84.1	52.9	142	
EP075: 2-Nitroaniline	88-74-4	0.5	mg/kg	<0.5	1 mg/kg	144	29.3	147	
EP075: 3-Nitroaniline	99-09-2	0.5	mg/kg	<0.5	1 mg/kg	96.8	24.0	132	
EP075: Dibenzofuran	132-64-9	0.5	mg/kg	<0.5	1 mg/kg	99.5	78.6	125	
EP075: 4-Nitroaniline	100-01-6	0.5	mg/kg	<0.5	1 mg/kg	76.5	38.0	169	
EP075: Carbazole	86-74-8	0.5	mg/kg	<0.5	1 mg/kg	88.6	71.2	133	
EP075: 3,3'-Dichlorobenzidine	91-94-1	0.5	mg/kg	<0.5	1 mg/kg	98.9	28.4	165	
EP075H: Anilines and Benzidines (QCLot: 5627894)									
EP075: Aniline	62-53-3	0.5	mg/kg	<0.5	1 mg/kg	82.9	62.6	134	
EP075: 4-Chloroaniline	106-47-8	0.5	mg/kg	<0.5	1 mg/kg	78.2	52.9	142	
EP075: 2-Nitroaniline	88-74-4	0.5	mg/kg	<0.5	1 mg/kg	135	29.3	147	
EP075: 3-Nitroaniline	99-09-2	0.5	mg/kg	<0.5	1 mg/kg	103	24.0	132	
EP075: Dibenzofuran	132-64-9	0.5	mg/kg	<0.5	1 mg/kg	98.2	78.6	125	
EP075: 4-Nitroaniline	100-01-6	0.5	mg/kg	<0.5	1 mg/kg	87.9	38.0	169	



Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report				
				Result	Spike	Spike Recovery (%)		Acceptable Limits (%)	
					Concentration	LCS	Low	High	
EP075H: Anilines and Benzidines (QCLot: 5627894) - continued									
EP075: Carbazole	86-74-8	0.5	mg/kg	<0.5	1 mg/kg	89.1	71.2	133	
EP075: 3,3'-Dichlorobenzidine	91-94-1	0.5	mg/kg	<0.5	1 mg/kg	96.9	28.4	165	
EP075I: Organochlorine Pesticides (QCLot: 5627883)									
EP075: alpha-BHC	319-84-6	0.5	mg/kg	<0.5	1 mg/kg	102	69.7	153	
EP075: beta-BHC	319-85-7	0.5	mg/kg	<0.5	1 mg/kg	83.8	65.7	157	
EP075: gamma-BHC	58-89-9	0.5	mg/kg	<0.5	1 mg/kg	102	71.1	152	
EP075: delta-BHC	319-86-8	0.5	mg/kg	<0.5	1 mg/kg	113	70.3	146	
EP075: Heptachlor	76-44-8	0.5	mg/kg	<0.5	1 mg/kg	100	77.6	135	
EP075: Aldrin	309-00-2	0.5	mg/kg	<0.5	1 mg/kg	99.1	70.3	142	
EP075: Heptachlor epoxide	1024-57-3	0.5	mg/kg	<0.5	1 mg/kg	92.1	66.1	154	
EP075: alpha-Endosulfan	959-98-8	0.5	mg/kg	<0.5	1 mg/kg	103	71.4	157	
EP075: 4,4'-DDE	72-55-9	0.5	mg/kg	<0.5	1 mg/kg	89.4	76.8	141	
EP075: Dieldrin	60-57-1	0.5	mg/kg	<0.5	1 mg/kg	87.4	50.6	147	
EP075: Endrin	72-20-8	0.5	mg/kg	<0.5	1 mg/kg	102	54.3	157	
EP075: beta-Endosulfan	33213-65-9	0.5	mg/kg	<0.5	1 mg/kg	104	72.9	150	
EP075: 4,4'-DDD	72-54-8	0.5	mg/kg	<0.5	1 mg/kg	99.9	72.6	154	
EP075: Endosulfan sulfate	1031-07-8	0.5	mg/kg	<0.5	1 mg/kg	145	60.1	155	
EP075: 4,4'-DDT	50-29-3	0.5	mg/kg	<0.5	1 mg/kg	103	36.4	155	
EP075I: Organochlorine Pesticides (QCLot: 5627894)									
EP075: alpha-BHC	319-84-6	0.5	mg/kg	<0.5	1 mg/kg	101	69.7	153	
EP075: beta-BHC	319-85-7	0.5	mg/kg	<0.5	1 mg/kg	81.8	65.7	157	
EP075: gamma-BHC	58-89-9	0.5	mg/kg	<0.5	1 mg/kg	98.6	71.1	152	
EP075: delta-BHC	319-86-8	0.5	mg/kg	<0.5	1 mg/kg	114	70.3	146	
EP075: Heptachlor	76-44-8	0.5	mg/kg	<0.5	1 mg/kg	98.8	77.6	135	
EP075: Aldrin	309-00-2	0.5	mg/kg	<0.5	1 mg/kg	96.1	70.3	142	
EP075: Heptachlor epoxide	1024-57-3	0.5	mg/kg	<0.5	1 mg/kg	88.9	66.1	154	
EP075: alpha-Endosulfan	959-98-8	0.5	mg/kg	<0.5	1 mg/kg	101	71.4	157	
EP075: 4,4'-DDE	72-55-9	0.5	mg/kg	<0.5	1 mg/kg	88.3	76.8	141	
EP075: Dieldrin	60-57-1	0.5	mg/kg	<0.5	1 mg/kg	84.3	50.6	147	
EP075: Endrin	72-20-8	0.5	mg/kg	<0.5	1 mg/kg	99.2	54.3	157	
EP075: beta-Endosulfan	33213-65-9	0.5	mg/kg	<0.5	1 mg/kg	93.3	72.9	150	
EP075: 4,4'-DDD	72-54-8	0.5	mg/kg	<0.5	1 mg/kg	100	72.6	154	
EP075: Endosulfan sulfate	1031-07-8	0.5	mg/kg	<0.5	1 mg/kg	129	60.1	155	
EP075: 4,4'-DDT	50-29-3	0.5	mg/kg	<0.5	1 mg/kg	98.6	36.4	155	



Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
				Result	Spike Concentration	Spike Recovery (%)	Acceptable Limits (%)	
					LCS	Low	High	
EP075J: Organophosphorus Pesticides (QCLot: 5627883)								
EP075: Dichlorvos	62-73-7	0.5	mg/kg	<0.5	1 mg/kg	100	49.2	136
EP075: Dimethoate	60-51-5	0.5	mg/kg	<0.5	1 mg/kg	75.3	46.6	126
EP075: Diazinon	333-41-5	0.5	mg/kg	<0.5	1 mg/kg	98.6	57.4	134
EP075: Chlorpyrifos-methyl	5598-13-0	0.5	mg/kg	<0.5	1 mg/kg	98.6	60.4	134
EP075: Malathion	121-75-5	0.5	mg/kg	<0.5	1 mg/kg	100	49.4	141
EP075: Fenthion	55-38-9	0.5	mg/kg	<0.5	1 mg/kg	89.0	56.3	135
EP075: Chlorpyrifos	2921-88-2	0.5	mg/kg	<0.5	1 mg/kg	89.1	65.1	134
EP075: Pirimphos-ethyl	23505-41-1	0.5	mg/kg	<0.5	1 mg/kg	87.1	63.7	133
EP075: Chlorfenvinphos	470-90-6	0.5	mg/kg	<0.5	1 mg/kg	82.4	16.1	160
EP075: Prothiofos	34643-46-4	0.5	mg/kg	<0.5	1 mg/kg	94.3	63.9	132
EP075: Ethion	563-12-2	0.5	mg/kg	<0.5	1 mg/kg	88.0	51.8	140
EP075J: Organophosphorus Pesticides (QCLot: 5627894)								
EP075: Dichlorvos	62-73-7	0.5	mg/kg	<0.5	1 mg/kg	95.2	49.2	136
EP075: Dimethoate	60-51-5	0.5	mg/kg	<0.5	1 mg/kg	72.9	46.6	126
EP075: Diazinon	333-41-5	0.5	mg/kg	<0.5	1 mg/kg	99.4	57.4	134
EP075: Chlorpyrifos-methyl	5598-13-0	0.5	mg/kg	<0.5	1 mg/kg	93.9	60.4	134
EP075: Malathion	121-75-5	0.5	mg/kg	<0.5	1 mg/kg	99.2	49.4	141
EP075: Fenthion	55-38-9	0.5	mg/kg	<0.5	1 mg/kg	90.4	56.3	135
EP075: Chlorpyrifos	2921-88-2	0.5	mg/kg	<0.5	1 mg/kg	89.7	65.1	134
EP075: Pirimphos-ethyl	23505-41-1	0.5	mg/kg	<0.5	1 mg/kg	82.8	63.7	133
EP075: Chlorfenvinphos	470-90-6	0.5	mg/kg	<0.5	1 mg/kg	84.8	16.1	160
EP075: Prothiofos	34643-46-4	0.5	mg/kg	<0.5	1 mg/kg	95.6	63.9	132
EP075: Ethion	563-12-2	0.5	mg/kg	<0.5	1 mg/kg	87.0	51.8	140
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5627879)								
EP071: C10 - C14 Fraction	----	50	mg/kg	<50	378 mg/kg	85.9	63.3	125
EP071: C15 - C28 Fraction	----	100	mg/kg	<100	407 mg/kg	83.8	56.1	122
EP071: C29 - C36 Fraction	----	100	mg/kg	<100	----	----	----	----
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5627886)								
EP080: C6 - C9 Fraction	----	10	mg/kg	<10	18 mg/kg	95.5	64.0	120
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5627895)								
EP071: C10 - C14 Fraction	----	50	mg/kg	<50	378 mg/kg	106	63.3	125
EP071: C15 - C28 Fraction	----	100	mg/kg	<100	407 mg/kg	103	56.1	122
EP071: C29 - C36 Fraction	----	100	mg/kg	<100	----	----	----	----
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5627903)								



Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report Result	Laboratory Control Spike (LCS) Report				
					Spike Concentration	Spike Recovery (%)		Acceptable Limits (%)	
						LCS	Low	High	
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5627903) - continued									
EP080: C6 - C9 Fraction	----	10	mg/kg	<10	18 mg/kg	82.1	64.0	120	
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5627912)									
EP080: C6 - C9 Fraction	----	10	mg/kg	<10	18 mg/kg	120	64.0	120	
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5627913)									
EP071: C10 - C14 Fraction	----	50	mg/kg	<50	378 mg/kg	93.2	63.3	125	
EP071: C15 - C28 Fraction	----	100	mg/kg	<100	407 mg/kg	92.9	56.1	122	
EP071: C29 - C36 Fraction	----	100	mg/kg	<100	----	----	----	----	
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5627879)									
EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	502 mg/kg	84.2	61.2	132	
EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	268 mg/kg	87.4	52.6	130	
EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	----	----	----	----	
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5627886)									
EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	22.5 mg/kg	96.7	58.1	124	
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5627895)									
EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	502 mg/kg	104	61.2	132	
EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	268 mg/kg	108	52.6	130	
EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	----	----	----	----	
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5627903)									
EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	22.5 mg/kg	83.5	58.1	124	
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5627912)									
EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	22.5 mg/kg	124	58.1	124	
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5627913)									
EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	502 mg/kg	92.0	61.2	132	
EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	268 mg/kg	97.5	52.6	130	
EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	----	----	----	----	
EP080: BTEXN (QCLot: 5627886)									
EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	1 mg/kg	85.7	68.0	107	
EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	1 mg/kg	90.3	69.0	108	
EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	1 mg/kg	96.7	68.0	109	
EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	2 mg/kg	96.3	70.0	114	
EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	1 mg/kg	94.7	74.0	116	
EP080: Naphthalene	91-20-3	1	mg/kg	<1	1 mg/kg	89.6	74.0	109	
EP080: BTEXN (QCLot: 5627903)									



Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
				Result	Spike Concentration	Spike Recovery (%)	Acceptable Limits (%)	
					LCS	Low	High	
EP080: BTEXN (QCLot: 5627903) - continued								
EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	1 mg/kg	86.6	68.0	107
EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	1 mg/kg	84.7	69.0	108
EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	1 mg/kg	87.4	68.0	109
EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	2 mg/kg	86.2	70.0	114
EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	1 mg/kg	86.8	74.0	116
EP080: Naphthalene	91-20-3	1	mg/kg	<1	1 mg/kg	78.7	74.0	109
EP080: BTEXN (QCLot: 5627912)								
EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	1 mg/kg	99.1	68.0	107
EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	1 mg/kg	# 109	69.0	108
EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	1 mg/kg	# 114	68.0	109
EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	2 mg/kg	# 118	70.0	114
EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	1 mg/kg	116	74.0	116
EP080: Naphthalene	91-20-3	1	mg/kg	<1	1 mg/kg	# 110	74.0	109
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 5627981)								
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	0.0011 mg/kg	107	72.0	128
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<0.0002	0.00118 mg/kg	101	67.0	130
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<0.0002	0.00116 mg/kg	112	68.0	136
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 5627981)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	0.00625 mg/kg	103	71.0	135
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	0.00125 mg/kg	112	69.0	132
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<0.0002	0.00125 mg/kg	110	70.0	132
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	116	71.0	131
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	106	69.0	133
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5627981)								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	0.00117 mg/kg	125	62.0	145
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	0.00118 mg/kg	104	64.0	140
EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0005	0.0012 mg/kg	113	65.0	137
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	0.0012 mg/kg	124	54.8	124

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

				Matrix Spike (MS) Report			
Laboratory sample ID		Sample ID	Method: Compound	CAS Number	Spike Concentration	SpikeRecovery(%) MS	Acceptable Limits (%) Low High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 5627887)							
EB2406372-002	TP12-0.5	EG005T: Arsenic	7440-38-2	50 mg/kg	# 56.0	70.0	130
		EG005T: Cadmium	7440-43-9	50 mg/kg	99.8	70.0	130
		EG005T: Chromium	7440-47-3	50 mg/kg	101	70.0	130
		EG005T: Copper	7440-50-8	250 mg/kg	99.6	70.0	130
		EG005T: Lead	7439-92-1	250 mg/kg	86.9	70.0	130
		EG005T: Nickel	7440-02-0	50 mg/kg	101	70.0	130
		EG005T: Zinc	7440-66-6	250 mg/kg	97.3	70.0	130
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 5627889)							
EB2406372-025	TP18-1.0	EG005T: Arsenic	7440-38-2	50 mg/kg	# 52.9	70.0	130
		EG005T: Cadmium	7440-43-9	50 mg/kg	102	70.0	130
		EG005T: Chromium	7440-47-3	50 mg/kg	111	70.0	130
		EG005T: Copper	7440-50-8	250 mg/kg	102	70.0	130
		EG005T: Lead	7439-92-1	250 mg/kg	89.4	70.0	130
		EG005T: Nickel	7440-02-0	50 mg/kg	102	70.0	130
		EG005T: Zinc	7440-66-6	250 mg/kg	99.8	70.0	130
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 5627900)							
EB2406372-035	TP21-0.1	EG005T: Arsenic	7440-38-2	100 mg/kg	104	70.0	130
		EG005T: Cadmium	7440-43-9	100 mg/kg	111	70.0	130
		EG005T: Chromium	7440-47-3	100 mg/kg	126	70.0	130
		EG005T: Copper	7440-50-8	500 mg/kg	118	70.0	130
		EG005T: Lead	7439-92-1	500 mg/kg	122	70.0	130
		EG005T: Nickel	7440-02-0	100 mg/kg	118	70.0	130
		EG005T: Zinc	7440-66-6	500 mg/kg	# 152	70.0	130
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 5627901)							
EB2406372-074	TP33-0.1	EG005T: Arsenic	7440-38-2	50 mg/kg	93.7	70.0	130
		EG005T: Cadmium	7440-43-9	50 mg/kg	98.4	70.0	130
		EG005T: Chromium	7440-47-3	50 mg/kg	98.6	70.0	130
		EG005T: Copper	7440-50-8	250 mg/kg	96.8	70.0	130
		EG005T: Lead	7439-92-1	250 mg/kg	92.7	70.0	130
		EG005T: Nickel	7440-02-0	50 mg/kg	99.0	70.0	130
		EG005T: Zinc	7440-66-6	250 mg/kg	95.2	70.0	130
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 5627909)							
EB2406372-100	TP41-0.2	EG005T: Arsenic	7440-38-2	50 mg/kg	90.4	70.0	130
		EG005T: Cadmium	7440-43-9	50 mg/kg	103	70.0	130
		EG005T: Chromium	7440-47-3	50 mg/kg	104	70.0	130
		EG005T: Copper	7440-50-8	250 mg/kg	100	70.0	130
		EG005T: Lead	7439-92-1	250 mg/kg	93.8	70.0	130
		EG005T: Nickel	7440-02-0	50 mg/kg	101	70.0	130



Sub-Matrix: SOIL

				Matrix Spike (MS) Report			
				Spike Concentration	SpikeRecovery(%) MS	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 5627909) - continued							
EB2406372-100	TP41-0.2	EG005T: Zinc	7440-66-6	250 mg/kg	104	70.0	130
EG035T: Total Recoverable Mercury by FIMS (QCLot: 5627888)							
EB2406372-002	TP12-0.5	EG035T: Mercury	7439-97-6	0.5 mg/kg	81.0	70.0	130
EG035T: Total Recoverable Mercury by FIMS (QCLot: 5627890)							
EB2406372-025	TP18-1.0	EG035T: Mercury	7439-97-6	0.5 mg/kg	87.4	70.0	130
EG035T: Total Recoverable Mercury by FIMS (QCLot: 5627899)							
EB2406372-035	TP21-0.1	EG035T: Mercury	7439-97-6	0.5 mg/kg	# 158	70.0	130
EG035T: Total Recoverable Mercury by FIMS (QCLot: 5627902)							
EB2406372-074	TP33-0.1	EG035T: Mercury	7439-97-6	0.5 mg/kg	89.7	70.0	130
EG035T: Total Recoverable Mercury by FIMS (QCLot: 5627908)							
EB2406372-100	TP41-0.2	EG035T: Mercury	7439-97-6	0.5 mg/kg	79.2	70.0	130
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 5627882)							
EB2406372-004	TP12-2.0	EP066: Total Polychlorinated biphenyls	----	1 mg/kg	82.5	70.0	130
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 5627898)							
EB2406372-046	TP24-0.5	EP066: Total Polychlorinated biphenyls	----	1 mg/kg	92.8	70.0	130
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 5627918)							
EB2406402-005	Anonymous	EP066: Total Polychlorinated biphenyls	----	1 mg/kg	123	70.0	130
EP068A: Organochlorine Pesticides (OC) (QCLot: 5627881)							
EB2406372-004	TP12-2.0	EP068: gamma-BHC	58-89-9	0.5 mg/kg	105	70.0	136
		EP068: Heptachlor	76-44-8	0.5 mg/kg	121	65.0	130
		EP068: Aldrin	309-00-2	0.5 mg/kg	123	70.0	130
		EP068: Dieldrin	60-57-1	0.5 mg/kg	114	67.0	129
		EP068: Endrin	72-20-8	0.5 mg/kg	107	60.0	137
		EP068: 4.4'-DDT	50-29-3	0.5 mg/kg	77.9	70.0	130
EP068A: Organochlorine Pesticides (OC) (QCLot: 5627897)							
EB2406372-046	TP24-0.5	EP068: gamma-BHC	58-89-9	0.5 mg/kg	110	70.0	136
		EP068: Heptachlor	76-44-8	0.5 mg/kg	100	65.0	130
		EP068: Aldrin	309-00-2	0.5 mg/kg	101	70.0	130
		EP068: Dieldrin	60-57-1	0.5 mg/kg	95.1	67.0	129
		EP068: Endrin	72-20-8	0.5 mg/kg	94.6	60.0	137
		EP068: 4.4'-DDT	50-29-3	0.5 mg/kg	98.3	70.0	130
EP068A: Organochlorine Pesticides (OC) (QCLot: 5627917)							
EB2406402-005	Anonymous	EP068: gamma-BHC	58-89-9	0.5 mg/kg	102	70.0	136
		EP068: Heptachlor	76-44-8	0.5 mg/kg	100	65.0	130
		EP068: Aldrin	309-00-2	0.5 mg/kg	106	70.0	130



Sub-Matrix: SOIL

				Matrix Spike (MS) Report			
				Spike	Spike Recovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP068A: Organochlorine Pesticides (OC) (QCLot: 5627917) - continued							
EB2406402-005	Anonymous	EP068: Dieldrin	60-57-1	0.5 mg/kg	95.6	67.0	129
		EP068: Endrin	72-20-8	0.5 mg/kg	82.6	60.0	137
		EP068: 4,4'-DDT	50-29-3	0.5 mg/kg	92.6	70.0	130
EP068B: Organophosphorus Pesticides (OP) (QCLot: 5627881)							
EB2406372-004	TP12-2.0	EP068: Diazinon	333-41-5	0.5 mg/kg	103	70.0	131
		EP068: Chlorpyrifos-methyl	5598-13-0	0.5 mg/kg	114	70.0	130
		EP068: Pirimphos-ethyl	23505-41-1	0.5 mg/kg	79.5	70.0	130
		EP068: Bromophos-ethyl	4824-78-6	0.5 mg/kg	125	70.0	130
		EP068: Prothiofos	34643-46-4	0.5 mg/kg	92.3	70.0	134
EP068B: Organophosphorus Pesticides (OP) (QCLot: 5627897)							
EB2406372-046	TP24-0.5	EP068: Diazinon	333-41-5	0.5 mg/kg	103	70.0	131
		EP068: Chlorpyrifos-methyl	5598-13-0	0.5 mg/kg	92.7	70.0	130
		EP068: Pirimphos-ethyl	23505-41-1	0.5 mg/kg	77.5	70.0	130
		EP068: Bromophos-ethyl	4824-78-6	0.5 mg/kg	75.2	70.0	130
		EP068: Prothiofos	34643-46-4	0.5 mg/kg	97.5	70.0	134
EP068B: Organophosphorus Pesticides (OP) (QCLot: 5627917)							
EB2406402-005	Anonymous	EP068: Diazinon	333-41-5	0.5 mg/kg	107	70.0	131
		EP068: Chlorpyrifos-methyl	5598-13-0	0.5 mg/kg	108	70.0	130
		EP068: Pirimphos-ethyl	23505-41-1	0.5 mg/kg	81.7	70.0	130
		EP068: Bromophos-ethyl	4824-78-6	0.5 mg/kg	97.0	70.0	130
		EP068: Prothiofos	34643-46-4	0.5 mg/kg	98.7	70.0	134
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 5627880)							
EB2406372-004	TP12-2.0	EP075(SIM): Acenaphthene	83-32-9	1.5 mg/kg	83.4	66.0	132
		EP075(SIM): Pyrene	129-00-0	1.5 mg/kg	87.9	70.0	130
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 5627896)							
EB2406372-046	TP24-0.5	EP075(SIM): Acenaphthene	83-32-9	1.5 mg/kg	105	66.0	132
		EP075(SIM): Pyrene	129-00-0	1.5 mg/kg	101	70.0	130
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 5627914)							
EB2406402-005	Anonymous	EP075(SIM): Acenaphthene	83-32-9	1.5 mg/kg	78.5	66.0	132
		EP075(SIM): Pyrene	129-00-0	1.5 mg/kg	78.3	70.0	130
EP075A: Phenolic Compounds (QCLot: 5627883)							
EB2406372-013	TP15-0.1	EP075: Phenol	108-95-2	1 mg/kg	89.2	50.0	159
		EP075: 2-Chlorophenol	95-57-8	1 mg/kg	91.4	70.0	130
		EP075: 2-Nitrophenol	88-75-5	1 mg/kg	141	59.8	154
		EP075: 4-Chloro-3-methylphenol	59-50-7	1 mg/kg	95.0	56.0	132
		EP075: Pentachlorophenol	87-86-5	1 mg/kg	129	21.0	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
EP075A: Phenolic Compounds (QCLot: 5627894)							
EB2406372-036	TP21-0.5	EP075: Phenol	108-95-2	1 mg/kg	96.3	50.0	159
		EP075: 2-Chlorophenol	95-57-8	1 mg/kg	98.0	70.0	130
		EP075: 2-Nitrophenol	88-75-5	1 mg/kg	133	59.8	154
		EP075: 4-Chloro-3-methylphenol	59-50-7	1 mg/kg	98.3	56.0	132
		EP075: Pentachlorophenol	87-86-5	1 mg/kg	129	21.0	130
EP075B: Polynuclear Aromatic Hydrocarbons (QCLot: 5627883)							
EB2406372-013	TP15-0.1	EP075: Acenaphthene	83-32-9	1 mg/kg	94.6	70.0	130
		EP075: Pyrene	129-00-0	1 mg/kg	97.1	70.0	130
EP075B: Polynuclear Aromatic Hydrocarbons (QCLot: 5627894)							
EB2406372-036	TP21-0.5	EP075: Acenaphthene	83-32-9	1 mg/kg	94.7	70.0	130
		EP075: Pyrene	129-00-0	1 mg/kg	82.5	70.0	130
EP075D: Nitrosamines (QCLot: 5627883)							
EB2406372-013	TP15-0.1	EP075: N-Nitrosodi-n-propylamine	621-64-7	1 mg/kg	92.6	53.0	144
EP075D: Nitrosamines (QCLot: 5627894)							
EB2406372-036	TP21-0.5	EP075: N-Nitrosodi-n-propylamine	621-64-7	1 mg/kg	82.0	53.0	144
EP075E: Nitroaromatics and Ketones (QCLot: 5627883)							
EB2406372-013	TP15-0.1	EP075: 2,4-Dinitrotoluene	121-14-2	1 mg/kg	131	35.0	136
EP075E: Nitroaromatics and Ketones (QCLot: 5627894)							
EB2406372-036	TP21-0.5	EP075: 2,4-Dinitrotoluene	121-14-2	1 mg/kg	119	35.0	136
EP075G: Chlorinated Hydrocarbons (QCLot: 5627883)							
EB2406372-013	TP15-0.1	EP075: 1,4-Dichlorobenzene	106-46-7	1 mg/kg	86.8	70.0	130
		EP075: 1,2,4-Trichlorobenzene	120-82-1	1 mg/kg	99.8	70.0	130
EP075G: Chlorinated Hydrocarbons (QCLot: 5627894)							
EB2406372-036	TP21-0.5	EP075: 1,4-Dichlorobenzene	106-46-7	1 mg/kg	86.2	70.0	130
		EP075: 1,2,4-Trichlorobenzene	120-82-1	1 mg/kg	94.6	70.0	130
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5627879)							
EB2406372-002	TP12-0.5	EP071: C10 - C14 Fraction	----	379 mg/kg	85.2	70.0	130
		EP071: C15 - C28 Fraction	----	407 mg/kg	83.1	70.0	130
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5627886)							
EB2406372-002	TP12-0.5	EP080: C6 - C9 Fraction	----	8 mg/kg	81.2	70.0	130
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5627895)							
EB2406372-035	TP21-0.1	EP071: C10 - C14 Fraction	----	379 mg/kg	106	70.0	130
		EP071: C15 - C28 Fraction	----	407 mg/kg	# 137	70.0	130
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5627903)							
EB2406372-035	TP21-0.1	EP080: C6 - C9 Fraction	----	8 mg/kg	84.6	70.0	130



Sub-Matrix: SOIL				Matrix Spike (MS) Report			
				Spike Concentration	SpikeRecovery(%) MS	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5627912)							
EB2406372-100	TP41-0.2	EP080: C6 - C9 Fraction	----	8 mg/kg	92.9	70.0	130
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5627913)							
EB2406372-100	TP41-0.2	EP071: C10 - C14 Fraction	----	379 mg/kg	88.7	70.0	130
		EP071: C15 - C28 Fraction	----	407 mg/kg	90.0	70.0	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5627879)							
EB2406372-002	TP12-0.5	EP071: >C10 - C16 Fraction	----	502 mg/kg	83.9	70.0	130
		EP071: >C16 - C34 Fraction	----	268 mg/kg	84.9	70.0	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5627886)							
EB2406372-002	TP12-0.5	EP080: C6 - C10 Fraction	C6_C10	8 mg/kg	81.6	70.0	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5627895)							
EB2406372-035	TP21-0.1	EP071: >C10 - C16 Fraction	----	502 mg/kg	105	70.0	130
		EP071: >C16 - C34 Fraction	----	268 mg/kg	# 189	70.0	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5627903)							
EB2406372-035	TP21-0.1	EP080: C6 - C10 Fraction	C6_C10	8 mg/kg	84.2	70.0	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5627912)							
EB2406372-100	TP41-0.2	EP080: C6 - C10 Fraction	C6_C10	8 mg/kg	92.4	70.0	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5627913)							
EB2406372-100	TP41-0.2	EP071: >C10 - C16 Fraction	----	502 mg/kg	88.0	70.0	130
		EP071: >C16 - C34 Fraction	----	268 mg/kg	94.8	70.0	130
EP080: BTEXN (QCLot: 5627886)							
EB2406372-002	TP12-0.5	EP080: Benzene	71-43-2	2 mg/kg	91.6	70.0	130
		EP080: Toluene	108-88-3	2 mg/kg	90.5	70.0	130
EP080: BTEXN (QCLot: 5627903)							
EB2406372-035	TP21-0.1	EP080: Benzene	71-43-2	2 mg/kg	80.0	70.0	130
		EP080: Toluene	108-88-3	2 mg/kg	79.1	70.0	130
EP080: BTEXN (QCLot: 5627912)							
EB2406372-100	TP41-0.2	EP080: Benzene	71-43-2	2 mg/kg	88.4	70.0	130
		EP080: Toluene	108-88-3	2 mg/kg	84.0	70.0	130
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 5627981)							
EB2406372-008	TP14-0.1	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0011 mg/kg	109	72.0	128
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.00118 mg/kg	102	67.0	130
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.00116 mg/kg	113	68.0	136
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 5627981)							
EB2406372-008	TP14-0.1	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.00625 mg/kg	108	71.0	135
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.00125 mg/kg	120	69.0	132



Sub-Matrix: SOIL

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 5627981) - continued							
EB2406372-008	TP14-0.1	EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.00125 mg/kg	120	70.0	132
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.00125 mg/kg	128	71.0	131
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.00125 mg/kg	116	69.0	133
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5627981)							
EB2406372-008	TP14-0.1	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.00117 mg/kg	126	62.0	145
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.00118 mg/kg	125	64.0	140
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0012 mg/kg	120	65.0	137
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0012 mg/kg	128	70.0	130



QA/QC Compliance Assessment to assist with Quality Review

Work Order	: EB2406372	Page	: 1 of 22
Client	: ENVIRONMENTAL ADVISORS	Laboratory	: Environmental Division Brisbane
Contact	: ANDREW WINTERS	Telephone	: +61 7 3243 7222
Project	: 125 NSC LAKE McDONALD DVE, COOROY	Date Samples Received	: 24-Feb-2024
Site	: ----	Issue Date	: 07-Mar-2024
Sampler	: ANDREW WINTERS	No. of samples received	: 102
Order number	: ----	No. of samples analysed	: 83

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.
- Duplicate outliers exist - please see following pages for full details.
- Laboratory Control outliers exist - please see following pages for full details.
- Matrix Spike 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

- **NO** Quality Control Sample Frequency Outliers exist.



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
Duplicate (DUP) RPDs							
EG005(ED093)T: Total Metals by ICP-AES	EB2406372--023	TP18-0.1	Zinc	7440-66-6	62.6 %	0% - 50%	RPD exceeds LOR based limits
Laboratory Control Spike (LCS) Recoveries							
EP068A: Organochlorine Pesticides (OC)	QC-5627897-002	----	Heptachlor epoxide	1024-57-3	66.6 %	67.4-125%	Recovery less than lower control limit
EP068B: Organophosphorus Pesticides (OP)	QC-5627881-002	----	Monocrotophos	6923-22-4	247 %	20.0-147%	Recovery greater than upper control limit
EP068B: Organophosphorus Pesticides (OP)	QC-5627917-002	----	Monocrotophos	6923-22-4	17.6 %	20.0-147%	Recovery less than lower control limit
EP068B: Organophosphorus Pesticides (OP)	QC-5627881-002	----	Bromophos-ethyl	4824-78-6	132 %	56.8-128%	Recovery greater than upper control limit
EP068B: Organophosphorus Pesticides (OP)	QC-5627917-002	----	Azinphos Methyl	86-50-0	19.8 %	20.0-145%	Recovery less than lower control limit
EP075G: Chlorinated Hydrocarbons	QC-5627883-002	----	Hexachlorocyclopentadiene	77-47-4	172 %	26.0-126%	Recovery greater than upper control limit
EP075G: Chlorinated Hydrocarbons	QC-5627894-002	----	Hexachlorocyclopentadiene	77-47-4	204 %	26.0-126%	Recovery greater than upper control limit
EP080: BTEXN	QC-5627912-002	----	Toluene	108-88-3	109 %	69.0-108%	Recovery greater than upper control limit
EP080: BTEXN	QC-5627912-002	----	Ethylbenzene	100-41-4	114 %	68.0-109%	Recovery greater than upper control limit
EP080: BTEXN	QC-5627912-002	----	meta- & para-Xylene	108-38-3 106-42-3	118 %	70.0-114%	Recovery greater than upper control limit
EP080: BTEXN	QC-5627912-002	----	Naphthalene	91-20-3	110 %	74.0-109%	Recovery greater than upper control limit
Matrix Spike (MS) Recoveries							
EG005(ED093)T: Total Metals by ICP-AES	EB2406372--002	TP12-0.5	Arsenic	7440-38-2	56.0 %	70.0-130%	Recovery less than lower data quality objective
EG005(ED093)T: Total Metals by ICP-AES	EB2406372--025	TP18-1.0	Arsenic	7440-38-2	52.9 %	70.0-130%	Recovery less than lower data quality objective
EG005(ED093)T: Total Metals by ICP-AES	EB2406372--035	TP21-0.1	Zinc	7440-66-6	152 %	70.0-130%	Recovery greater than upper data quality objective
EG035T: Total Recoverable Mercury by FIMS	EB2406372--035	TP21-0.1	Mercury	7439-97-6	158 %	70.0-130%	Recovery greater than upper data quality objective
EP080/071: Total Petroleum Hydrocarbons	EB2406372--035	TP21-0.1	C15 - C28 Fraction	----	137 %	70.0-130%	Recovery greater than upper data quality objective
EP080/071: Total Recoverable Hydrocarbons - NEPM 2	EB2406372--035	TP21-0.1	>C16 - C34 Fraction	----	189 %	70.0-130%	Recovery greater than upper data quality objective

Regular Sample Surrogates

Sub-Matrix: **SOIL**

Compound Group Name	Laboratory Sample ID	Client Sample ID	Analyte	CAS Number	Data	Limits	Comment
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Sub-Matrix: **SOIL**

Compound Group Name	Laboratory Sample ID	Client Sample ID	Analyte	CAS Number	Data	Limits	Comment
Samples Submitted							
EP066S: PCB Surrogate	EB2406372-036	TP21-0.5	Decachlorobiphenyl	2051-24-3	143 %	16.2-134 %	Recovery greater than upper data quality objective
EP066S: PCB Surrogate	EB2406372-078	TP34-0.1	Decachlorobiphenyl	2051-24-3	159 %	16.2-134 %	Recovery greater than upper data quality objective

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								
Soil Glass Jar - Unpreserved (EA055) TP12-0.5, TP14-0.1, TP14-3.3, TP15-2.0, TP20-0.1, TP21-0.1, TP23-1.0	TP13-0.1, TP14-1.0, TP15-0.5, TP17-0.5, TP20-2.8, TP21-1.0	19-Feb-2024	----	----	----	27-Feb-2024	04-Mar-2024	✓
Soil Glass Jar - Unpreserved (EA055) TP27-0.5, TP33-0.1,	TP27-1.0, TP33-0.5	20-Feb-2024	----	----	----	27-Feb-2024	05-Mar-2024	✓
Soil Glass Jar - Unpreserved (EA055) TP40-0.5, TP41-0.2	TP40-1.0,	21-Feb-2024	----	----	----	27-Feb-2024	06-Mar-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	
EA055: Moisture Content (Dried @ 105-110°C)								
Soil Glass Jar - Unpreserved (EA055)								
TP12-0.1, TP12-2.0, TP13-1.0, TP14-2.0, TP15-1.0, TP16-0.5, TP17-0.1, TP18-0.5, TP19-0.1, TP19-2.2, TP20-1.0, TP22-0.1, TP22-1.0, TP23-2.5, TP24-0.7, TP25-0.5, TP26-0.5,	TP12-1.0, TP13-0.5, TP14-0.5, TP15-0.1, TP16-0.1, TP16-1.0, TP18-0.1, TP18-1.0, TP19-1.0, TP20-0.5, TP21-0.5, TP22-0.5, TP23-0.5, TP24-0.5, TP24-1.0, TP25-1.0, TP26-1.0	19-Feb-2024	----	----	----	27-Feb-2024	04-Mar-2024	✓
Soil Glass Jar - Unpreserved (EA055)								
TP27-0.1, TP28-0.5, TP29-0.5, TP29-2.4, TP30-0.5, TP31-0.5, TP32-0.5, TP33-2.3, TP34-0.5,	TP28-0.1, TP29-0.1, TP29-1.0, TP30-0.1, TP31-0.1, TP32-0.1, TP33-1.0, TP34-0.1, TP35-0.1	20-Feb-2024	----	----	----	27-Feb-2024	05-Mar-2024	✓
Soil Glass Jar - Unpreserved (EA055)								
TP36-0.1, TP37-0.1, TP38-0.1, TP39-0.1, TP40-0.1,	TP36-0.5, TP37-0.5, TP38-0.5, TP39-0.5, TP41-0.5	21-Feb-2024	----	----	----	27-Feb-2024	06-Mar-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	
EA200: AS 4964 - 2004 Identification of Asbestos in Soils								
Snap Lock Bag - ACM/Asbestos Grab Bag (EA200) TP12-0.1, TP15-0.1, TP26-0.1	TP14-0.1, TP15-0.5,	19-Feb-2024	----	----	----	28-Feb-2024	17-Aug-2024	✓
Snap Lock Bag - ACM/Asbestos Grab Bag (EA200) TP27-0.1, TP35-0.1	TP33-0.1,	20-Feb-2024	----	----	----	28-Feb-2024	18-Aug-2024	✓
Snap Lock Bag - ACM/Asbestos Grab Bag (EA200) TP38-0.1,	TP38-0.5	21-Feb-2024	----	----	----	28-Feb-2024	19-Aug-2024	✓

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 Work Order : EB2406372
 Client : ENVIRONMENTAL ADVISORS
 Project : 125 NSC LAKE McDONALD DVE, COOROY



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 - Continued								
TP36-0.1,	TP36-0.5,	21-Feb-2024	28-Feb-2024	19-Aug-2024	✓	29-Feb-2024	19-Aug-2024	✓
TP37-0.1,	TP37-0.5,							
TP38-0.1,	TP38-0.5,							
TP39-0.1,	TP39-0.5,							
TP40-0.1,	TP40-0.5							



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 - Continued								
TP36-0.1, TP37-0.1, TP38-0.1, TP39-0.1, TP40-0.1,	TP36-0.5, TP37-0.5, TP38-0.5, TP39-0.5, TP40-0.5	21-Feb-2024	28-Feb-2024	20-Mar-2024	✓	01-Mar-2024	20-Mar-2024	✓
EP066: Polychlorinated Biphenyls (PCB)								
Soil Glass Jar - Unpreserved (EP066)								
TP12-0.1, TP14-0.5,	TP12-2.0, TP14-2.0	19-Feb-2024	01-Mar-2024	04-Mar-2024	✓	06-Mar-2024	10-Apr-2024	✓
Soil Glass Jar - Unpreserved (EP066)								
TP21-0.5,	TP24-0.5	19-Feb-2024	02-Mar-2024	04-Mar-2024	✓	06-Mar-2024	11-Apr-2024	✓
Soil Glass Jar - Unpreserved (EP066)								
TP34-0.1		20-Feb-2024	02-Mar-2024	05-Mar-2024	✓	06-Mar-2024	11-Apr-2024	✓
Soil Glass Jar - Unpreserved (EP066)								
TP41-0.5		21-Feb-2024	02-Mar-2024	06-Mar-2024	✓	05-Mar-2024	11-Apr-2024	✓
Soil Glass Jar - Unpreserved (EP066)								
TP40-0.1		21-Feb-2024	02-Mar-2024	06-Mar-2024	✓	06-Mar-2024	11-Apr-2024	✓
EP068A: Organochlorine Pesticides (OC)								
Soil Glass Jar - Unpreserved (EP068)								
TP12-0.1, TP14-0.5,	TP12-2.0, TP14-2.0	19-Feb-2024	01-Mar-2024	04-Mar-2024	✓	05-Mar-2024	10-Apr-2024	✓
Soil Glass Jar - Unpreserved (EP068)								
TP21-0.5,	TP24-0.5	19-Feb-2024	02-Mar-2024	04-Mar-2024	✓	05-Mar-2024	11-Apr-2024	✓
Soil Glass Jar - Unpreserved (EP068)								
TP34-0.1		20-Feb-2024	02-Mar-2024	05-Mar-2024	✓	06-Mar-2024	11-Apr-2024	✓
Soil Glass Jar - Unpreserved (EP068)								
TP41-0.5		21-Feb-2024	02-Mar-2024	06-Mar-2024	✓	04-Mar-2024	11-Apr-2024	✓
Soil Glass Jar - Unpreserved (EP068)								
TP40-0.1		21-Feb-2024	02-Mar-2024	06-Mar-2024	✓	06-Mar-2024	11-Apr-2024	✓
EP068B: Organophosphorus Pesticides (OP)								
Soil Glass Jar - Unpreserved (EP068)								
TP12-0.1, TP14-0.5,	TP12-2.0, TP14-2.0	19-Feb-2024	01-Mar-2024	04-Mar-2024	✓	05-Mar-2024	10-Apr-2024	✓
Soil Glass Jar - Unpreserved (EP068)								
TP21-0.5,	TP24-0.5	19-Feb-2024	02-Mar-2024	04-Mar-2024	✓	05-Mar-2024	11-Apr-2024	✓
Soil Glass Jar - Unpreserved (EP068)								
TP34-0.1		20-Feb-2024	02-Mar-2024	05-Mar-2024	✓	06-Mar-2024	11-Apr-2024	✓
Soil Glass Jar - Unpreserved (EP068)								
TP41-0.5		21-Feb-2024	02-Mar-2024	06-Mar-2024	✓	04-Mar-2024	11-Apr-2024	✓
Soil Glass Jar - Unpreserved (EP068)								
TP40-0.1		21-Feb-2024	02-Mar-2024	06-Mar-2024	✓	06-Mar-2024	11-Apr-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)) TP12-0.1, TP14-0.5,	TP12-2.0, TP14-2.0	19-Feb-2024	01-Mar-2024	04-Mar-2024	✓	05-Mar-2024	10-Apr-2024	✓
Soil Glass Jar - Unpreserved (EP075(SIM)) TP21-0.5,	TP24-0.5	19-Feb-2024	02-Mar-2024	04-Mar-2024	✓	05-Mar-2024	11-Apr-2024	✓
Soil Glass Jar - Unpreserved (EP075(SIM)) TP34-0.1		20-Feb-2024	02-Mar-2024	05-Mar-2024	✓	05-Mar-2024	11-Apr-2024	✓
Soil Glass Jar - Unpreserved (EP075(SIM)) TP41-0.5		21-Feb-2024	02-Mar-2024	06-Mar-2024	✓	04-Mar-2024	11-Apr-2024	✓
Soil Glass Jar - Unpreserved (EP075(SIM)) TP40-0.1		21-Feb-2024	02-Mar-2024	06-Mar-2024	✓	05-Mar-2024	11-Apr-2024	✓
EP075A: Phenolic Compounds								
Soil Glass Jar - Unpreserved (EP075) TP13-1.0, TP15-0.5, TP19-1.0	TP15-0.1, TP18-0.5,	19-Feb-2024	01-Mar-2024	04-Mar-2024	✓	07-Mar-2024	10-Apr-2024	✓
Soil Glass Jar - Unpreserved (EP075) TP20-1.0, TP23-2.5, TP25-1.0	TP21-0.5, TP25-0.5,	19-Feb-2024	02-Mar-2024	04-Mar-2024	✓	07-Mar-2024	11-Apr-2024	✓
Soil Glass Jar - Unpreserved (EP075) TP29-0.5		20-Feb-2024	02-Mar-2024	05-Mar-2024	✓	07-Mar-2024	11-Apr-2024	✓
EP075B: Polynuclear Aromatic Hydrocarbons								
Soil Glass Jar - Unpreserved (EP075) TP13-1.0, TP15-0.5, TP19-1.0	TP15-0.1, TP18-0.5,	19-Feb-2024	01-Mar-2024	04-Mar-2024	✓	07-Mar-2024	10-Apr-2024	✓
Soil Glass Jar - Unpreserved (EP075) TP20-1.0, TP23-2.5, TP25-1.0	TP21-0.5, TP25-0.5,	19-Feb-2024	02-Mar-2024	04-Mar-2024	✓	07-Mar-2024	11-Apr-2024	✓
Soil Glass Jar - Unpreserved (EP075) TP29-0.5		20-Feb-2024	02-Mar-2024	05-Mar-2024	✓	07-Mar-2024	11-Apr-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) TP13-1.0, TP15-0.5, TP19-1.0	TP15-0.1, TP18-0.5	19-Feb-2024	01-Mar-2024	04-Mar-2024	✔	07-Mar-2024	10-Apr-2024	✔
Soil Glass Jar - Unpreserved (EP075) TP20-1.0, TP23-2.5, TP25-1.0	TP21-0.5, TP25-0.5	19-Feb-2024	02-Mar-2024	04-Mar-2024	✔	07-Mar-2024	11-Apr-2024	✔
Soil Glass Jar - Unpreserved (EP075) TP29-0.5		20-Feb-2024	02-Mar-2024	05-Mar-2024	✔	07-Mar-2024	11-Apr-2024	✔
EP075D: Nitrosamines								
Soil Glass Jar - Unpreserved (EP075) TP13-1.0, TP15-0.5, TP19-1.0	TP15-0.1, TP18-0.5	19-Feb-2024	01-Mar-2024	04-Mar-2024	✔	07-Mar-2024	10-Apr-2024	✔
Soil Glass Jar - Unpreserved (EP075) TP20-1.0, TP23-2.5, TP25-1.0	TP21-0.5, TP25-0.5	19-Feb-2024	02-Mar-2024	04-Mar-2024	✔	07-Mar-2024	11-Apr-2024	✔
Soil Glass Jar - Unpreserved (EP075) TP29-0.5		20-Feb-2024	02-Mar-2024	05-Mar-2024	✔	07-Mar-2024	11-Apr-2024	✔
EP075E: Nitroaromatics and Ketones								
Soil Glass Jar - Unpreserved (EP075) TP13-1.0, TP15-0.5, TP19-1.0	TP15-0.1, TP18-0.5	19-Feb-2024	01-Mar-2024	04-Mar-2024	✔	07-Mar-2024	10-Apr-2024	✔
Soil Glass Jar - Unpreserved (EP075) TP20-1.0, TP23-2.5, TP25-1.0	TP21-0.5, TP25-0.5	19-Feb-2024	02-Mar-2024	04-Mar-2024	✔	07-Mar-2024	11-Apr-2024	✔
Soil Glass Jar - Unpreserved (EP075) TP29-0.5		20-Feb-2024	02-Mar-2024	05-Mar-2024	✔	07-Mar-2024	11-Apr-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) TP13-1.0, TP15-0.5, TP19-1.0	TP15-0.1, TP18-0.5	19-Feb-2024	01-Mar-2024	04-Mar-2024	✔	07-Mar-2024	10-Apr-2024	✔
Soil Glass Jar - Unpreserved (EP075) TP20-1.0, TP23-2.5, TP25-1.0	TP21-0.5, TP25-0.5	19-Feb-2024	02-Mar-2024	04-Mar-2024	✔	07-Mar-2024	11-Apr-2024	✔
Soil Glass Jar - Unpreserved (EP075) TP29-0.5		20-Feb-2024	02-Mar-2024	05-Mar-2024	✔	07-Mar-2024	11-Apr-2024	✔
EP075G: Chlorinated Hydrocarbons								
Soil Glass Jar - Unpreserved (EP075) TP13-1.0, TP15-0.5, TP19-1.0	TP15-0.1, TP18-0.5	19-Feb-2024	01-Mar-2024	04-Mar-2024	✔	07-Mar-2024	10-Apr-2024	✔
Soil Glass Jar - Unpreserved (EP075) TP20-1.0, TP23-2.5, TP25-1.0	TP21-0.5, TP25-0.5	19-Feb-2024	02-Mar-2024	04-Mar-2024	✔	07-Mar-2024	11-Apr-2024	✔
Soil Glass Jar - Unpreserved (EP075) TP29-0.5		20-Feb-2024	02-Mar-2024	05-Mar-2024	✔	07-Mar-2024	11-Apr-2024	✔
EP075H: Anilines and Benzidines								
Soil Glass Jar - Unpreserved (EP075) TP13-1.0, TP15-0.5, TP19-1.0	TP15-0.1, TP18-0.5	19-Feb-2024	01-Mar-2024	04-Mar-2024	✔	07-Mar-2024	10-Apr-2024	✔
Soil Glass Jar - Unpreserved (EP075) TP20-1.0, TP23-2.5, TP25-1.0	TP21-0.5, TP25-0.5	19-Feb-2024	02-Mar-2024	04-Mar-2024	✔	07-Mar-2024	11-Apr-2024	✔
Soil Glass Jar - Unpreserved (EP075) TP29-0.5		20-Feb-2024	02-Mar-2024	05-Mar-2024	✔	07-Mar-2024	11-Apr-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	
EP075I: Organochlorine Pesticides								
Soil Glass Jar - Unpreserved (EP075) TP13-1.0, TP15-0.5, TP19-1.0	TP15-0.1, TP18-0.5	19-Feb-2024	01-Mar-2024	04-Mar-2024	✓	07-Mar-2024	10-Apr-2024	✓
Soil Glass Jar - Unpreserved (EP075) TP20-1.0, TP23-2.5, TP25-1.0	TP21-0.5, TP25-0.5	19-Feb-2024	02-Mar-2024	04-Mar-2024	✓	07-Mar-2024	11-Apr-2024	✓
Soil Glass Jar - Unpreserved (EP075) TP29-0.5		20-Feb-2024	02-Mar-2024	05-Mar-2024	✓	07-Mar-2024	11-Apr-2024	✓
EP075J: Organophosphorus Pesticides								
Soil Glass Jar - Unpreserved (EP075) TP13-1.0, TP15-0.5, TP19-1.0	TP15-0.1, TP18-0.5	19-Feb-2024	01-Mar-2024	04-Mar-2024	✓	07-Mar-2024	10-Apr-2024	✓
Soil Glass Jar - Unpreserved (EP075) TP20-1.0, TP23-2.5, TP25-1.0	TP21-0.5, TP25-0.5	19-Feb-2024	02-Mar-2024	04-Mar-2024	✓	07-Mar-2024	11-Apr-2024	✓
Soil Glass Jar - Unpreserved (EP075) TP29-0.5		20-Feb-2024	02-Mar-2024	05-Mar-2024	✓	07-Mar-2024	11-Apr-2024	✓

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 Work Order : EB2406372
 Client : ENVIRONMENTAL ADVISORS
 Project : 125 NSC LAKE McDONALD DVE, COOROY



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								
TP40-1.0, TP41-0.5	TP41-0.2,	21-Feb-2024	29-Feb-2024	06-Mar-2024	✓	29-Feb-2024	06-Mar-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 - Continued								
TP40-1.0, TP41-0.5	TP41-0.2,	21-Feb-2024	29-Feb-2024	06-Mar-2024	✔	29-Feb-2024	06-Mar-2024	✔
EP080: BTEXN								
Soil Glass Jar - Unpreserved (EP080)								
TP20-2.8, TP21-0.5, TP23-1.0,	TP21-0.1, TP21-1.0, TP24-0.5	19-Feb-2024	28-Feb-2024	04-Mar-2024	✔	01-Mar-2024	04-Mar-2024	✔
Soil Glass Jar - Unpreserved (EP080)								
TP12-0.1, TP12-2.0, TP14-0.1, TP14-1.0, TP14-3.3, TP15-2.0, TP20-0.1	TP12-0.5, TP13-0.1, TP14-0.5, TP14-2.0, TP15-0.5, TP17-0.5,	19-Feb-2024	28-Feb-2024	04-Mar-2024	✔	29-Feb-2024	04-Mar-2024	✔
Soil Glass Jar - Unpreserved (EP080)								
TP27-0.5,	TP34-0.5	20-Feb-2024	28-Feb-2024	05-Mar-2024	✔	01-Mar-2024	05-Mar-2024	✔
Soil Glass Jar - Unpreserved (EP080)								
TP27-1.0, TP33-0.5,	TP33-0.1, TP34-0.1	20-Feb-2024	28-Feb-2024	05-Mar-2024	✔	28-Feb-2024	05-Mar-2024	✔
Soil Glass Jar - Unpreserved (EP080)								
TP40-0.1,	TP40-0.5	21-Feb-2024	28-Feb-2024	06-Mar-2024	✔	01-Mar-2024	06-Mar-2024	✔
Soil Glass Jar - Unpreserved (EP080)								
TP40-1.0, TP41-0.5	TP41-0.2,	21-Feb-2024	29-Feb-2024	06-Mar-2024	✔	29-Feb-2024	06-Mar-2024	✔
EP231A: Perfluoroalkyl Sulfonic Acids								
HDPE Soil Jar (EP231X)								
TP12-0.1, TP14-2.0, TP15-0.5, TP18-0.5, TP24-0.7	TP14-0.1, TP15-0.1, TP16-0.1, TP24-0.5,	19-Feb-2024	28-Feb-2024	17-Aug-2024	✔	04-Mar-2024	08-Apr-2024	✔
HDPE Soil Jar (EP231X)								
TP27-0.1, TP35-0.1	TP33-0.1,	20-Feb-2024	28-Feb-2024	18-Aug-2024	✔	04-Mar-2024	08-Apr-2024	✔
HDPE Soil Jar (EP231X)								
TP38-0.1		21-Feb-2024	28-Feb-2024	19-Aug-2024	✔	04-Mar-2024	08-Apr-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	
EP231B: Perfluoroalkyl Carboxylic Acids								
HDPE Soil Jar (EP231X) TP12-0.1, TP14-2.0, TP15-0.5, TP18-0.5, TP24-0.7 TP14-0.1, TP15-0.1, TP16-0.1, TP24-0.5	19-Feb-2024	28-Feb-2024	17-Aug-2024	✔	04-Mar-2024	08-Apr-2024	✔	
HDPE Soil Jar (EP231X) TP27-0.1, TP35-0.1 TP33-0.1	20-Feb-2024	28-Feb-2024	18-Aug-2024	✔	04-Mar-2024	08-Apr-2024	✔	
HDPE Soil Jar (EP231X) TP38-0.1	21-Feb-2024	28-Feb-2024	19-Aug-2024	✔	04-Mar-2024	08-Apr-2024	✔	
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
HDPE Soil Jar (EP231X) TP12-0.1, TP14-2.0, TP15-0.5, TP18-0.5, TP24-0.7 TP14-0.1, TP15-0.1, TP16-0.1, TP24-0.5	19-Feb-2024	28-Feb-2024	17-Aug-2024	✔	04-Mar-2024	08-Apr-2024	✔	
HDPE Soil Jar (EP231X) TP27-0.1, TP35-0.1 TP33-0.1	20-Feb-2024	28-Feb-2024	18-Aug-2024	✔	04-Mar-2024	08-Apr-2024	✔	
HDPE Soil Jar (EP231X) TP38-0.1	21-Feb-2024	28-Feb-2024	19-Aug-2024	✔	04-Mar-2024	08-Apr-2024	✔	
EP231P: PFAS Sums								
HDPE Soil Jar (EP231X) TP12-0.1, TP14-2.0, TP15-0.5, TP18-0.5, TP24-0.7 TP14-0.1, TP15-0.1, TP16-0.1, TP24-0.5	19-Feb-2024	28-Feb-2024	17-Aug-2024	✔	04-Mar-2024	08-Apr-2024	✔	
HDPE Soil Jar (EP231X) TP27-0.1, TP35-0.1 TP33-0.1	20-Feb-2024	28-Feb-2024	18-Aug-2024	✔	04-Mar-2024	08-Apr-2024	✔	
HDPE Soil Jar (EP231X) TP38-0.1	21-Feb-2024	28-Feb-2024	19-Aug-2024	✔	04-Mar-2024	08-Apr-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	Method	Count		Rate (%)			Quality Control Specification
		QC	Reaular	Actual	Expected	Evaluation	
Laboratory Duplicates (DUP)							
Moisture Content	EA055	10	100	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (SIM)	EP075(SIM)	3	16	18.75	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	2	20	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	3	16	18.75	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	3	16	18.75	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Semivolatile Organic Compounds	EP075	2	11	18.18	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	10	97	10.31	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	10	97	10.31	10.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	6	46	13.04	10.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	6	46	13.04	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
PAH/Phenols (SIM)	EP075(SIM)	3	16	18.75	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	3	16	18.75	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	3	16	18.75	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Semivolatile Organic Compounds	EP075	2	11	18.18	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	5	97	5.15	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	5	97	5.15	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	3	46	6.52	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	3	46	6.52	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
PAH/Phenols (SIM)	EP075(SIM)	3	16	18.75	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	3	16	18.75	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	3	16	18.75	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Semivolatile Organic Compounds	EP075	2	11	18.18	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	5	97	5.15	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	5	97	5.15	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	3	46	6.52	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	3	46	6.52	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
PAH/Phenols (SIM)	EP075(SIM)	3	16	18.75	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	3	16	18.75	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	3	16	18.75	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Semivolatile Organic Compounds	EP075	2	11	18.18	5.00	✓	NEPM 2013 B3 & ALS QC Standard



Matrix: **SOIL** Evaluation: ✖ = Quality Control frequency not within specification ; ✔ = Quality Control frequency within specification.

Quality Control Sample Type	Method	Count		Rate (%)			Quality Control Specification
		QC	Regular	Actual	Expected	Evaluation	
Matrix Spikes (MS) - Continued							
Total Mercury by FIMS	EG035T	5	97	5.15	5.00	✔	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	5	97	5.15	5.00	✔	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	3	46	6.52	5.00	✔	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	3	46	6.52	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).
Asbestos Identification in Soils	EA200	SOIL	AS 4964 Method for the qualitative identification of asbestos in bulk samples Analysis by Polarised Light Microscopy including dispersion staining
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 (SnCl ₂) (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 SnCl ₂ 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)
Polychlorinated Biphenyls (PCB)	EP066	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 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.
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	SOIL	In-house: Analysis of soils by solvent extraction followed by LC-Electrospray-MS-MS, Negative Mode using MRM using internal standard quantitation. Isotopically labelled analogues of target analytes used as internal standards and surrogates are added to a portion of soil which is then extracted with MTBE and an ion pairing reagent. A portion of extract is exchanged into the analytical solvent mixture, combined with an equal volume reagent water and filtered for analysis. Method procedures and data quality objectives conform to US DoD QSM 5.3, table B-15 requirements.

Page : 22 of 22
 Work Order : EB2406372
 Client : ENVIRONMENTAL ADVISORS
 Project : 125 NSC LAKE McDONALD DVE, COOROY



<i>Preparation Methods</i>	<i>Method</i>	<i>Matrix</i>	<i>Method Descriptions</i>
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, Na ₂ SO ₄ 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.
QuEChERS Extraction of Solids	ORG71	SOIL	In house: Sequential extractions with Acetonitrile/Methanol by shaking. Extraction efficiency aided by the addition of salts under acidic conditions. Where relevant, interferences from co-extracted organics are removed with dispersive clean-up media (dSPE). The extract is either diluted or concentrated and exchanged into the analytical solvent.





CHAIN OF CUSTODY

ALS Laboratory - please tick ->

Swirey 277 Wyndevale Rd, Sandwick NSW 2178
Ph 02 8384 8388 E Samples@environmentaladvisors.com
125 NSG Lake McDonald Dye, Coonroy
Ph 02 8384 8388 E Samples@environmentaladvisors.com

Brisbane 33 Shaw St, Stalder QLD 4013
Ph 07 3261 7222 E Samples@environmentaladvisors.com
13 Tomlinville Rd, Fish Creek QLD 4813
Ph 07 2786 1999 E Samples@environmentaladvisors.com

Melbourne 24 Vernal Rd, Springvale VIC 3171
Ph 03 9593 9111 E Samples@environmentaladvisors.com
13 Adelaide St, Brunswick East VIC 3086
Ph 03 9589 9300 E Samples@environmentaladvisors.com

Perth 10 MacWay Ave, Melton WA 8120
Ph 08 9219 7855
Launceston 2
Ph 01 5331 2132

Environmental Division
Brisbane

Work Order Reference
EB2406402

N/A

CLIENT: Environmental Advisors Pty Ltd

OFFICE: Sunshine Coast

PROJECT: 125 NSG LAKE McDONALD DYE, COONROY

TURNAROUND REQUIREMENTS:
(Standard TAT may be longer for some tests e.g. Ultra Trace Organics)

Standard TAT (List due date):
 Standard TAT (List due date):
 Non Standard or urgent TAT (List due date):

4 March 24
COC SEQUENCE NUMBER
8 of 15

FOR L

ORDER NUMBER: PROJECT MANAGER: Andrew Winters

CONTACT PH: 0409 662 747

SAMPLER MOBILE: 0409 662 747

RECEIVED BY:

RELINQUIS

COC emailed to ALST? Yes

EDD FORMAT: Default

RELINQUISHED BY: Andrew Winters

Email Reports to (will default to PM if no other addresses are listed): andrew@environmentaladvisors.com.au

DATE/TIME: 24/2/24

DATE/TIME:

DATE/TIME:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

Telephone: +61 7-3243 7222



ALS USE ONLY SAMPLE DETAILS MATRIX: Solid(S) Water(W)

CONTAINER INFORMATION

ANALYSIS REQUIRED including SITES (NB: Site Codes must be listed to attract suite price)
Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (filtered bottle required)

Additional Information
Comments on likely contaminant levels, dilutions, or samples requiring specific QC analysis etc.

LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL CONTAINERS	S-02 (8 Metals)	S-16 (TRH/BTEXN/PAH OC/OP/PCB/8 metals)	EA200G Asbestos (presence/absence in soil/bulk sample)	S-05 (TRH/BTEXN/8 metals)	EP231 (PFAS Short Suite)	EP075 (SVOC)	S-18 TRH(c6-c10)/BTEXN	Additional Information
TP28-0.5		21/02/2024	Soil	Jar + PFAS + asbestos bag	3	X		X					
TP28-1.0		21/02/2024	Soil	Jar	1								
TP29-0.1		21/02/2024	Soil	Jar	1	X							
TP29-0.5		21/02/2024	Soil	Jar	1	X							
TP29-1.0		21/02/2024	Soil	Jar	1								
TP40-0.1		21/02/2024	Soil	Jar	1		X						
TP40-0.5		21/02/2024	Soil	Jar	1				X				
TP40-1.0		21/02/2024	Soil	Jar	1				X				
TP41-0.2		21/02/2024	Soil	Jar	1					X			
TP41-0.5		21/02/2024	Soil	Jar	1		X						
TP41-1.0		21/02/2024	Soil	Jar	1						X		
TP42-0.2		21/02/2024	Soil	Jar + PFAS	2	X				X			
TP42-0.5		21/02/2024	Soil	Jar	1						X		
					16	4	2	1	3	1	1	0	0

SPLIT BATCH
TST
EB 2406372
ASSON Batch No.

Water Container Codes: P = Unpreserved Plastic, N = Nitric Preserved Plastic, ORG = Nitric Preserved ORG, SH = Sodium Hydroxide Preserved, S = Sodium Hydroxide Preserved Plastic, AG = Amber Glass Unpreserved, AP = Airtight Unpreserved Plastic
V = VOA Vol HCl Preserved, VB = VOA Vol Sodium Bisulfate Preserved, VS = VOA Vol Sulfuric Preserved, AV = Airtight Unpreserved Vol SG = Sulfuric Preserved Amber Glass, H = HCl Preserved Plastic, HS = HCl Preserved Speciation Bottle, SP = Sulfuric Preserved Plastic, F = Formaldehyde Preserved Glass
Z = Zinc Acetate Preserved Bottle, E = EDTA Preserved Bottle, ST = Stirring Bottle, ASS = Plastic Bag for Acid Substrate Sales, B = Unpreserved Bag



CHAIN OF CUSTODY
ALS Laboratory please tick ->

1 Sydney 2/77 Macquarie Rd West Rydalmere NSW 2114
Ph: 02 9384 5999 Fax: 02 9384 5998 Email: sales@als.com.au
2 Newcastle 3 Robinson Rd Newcastle NSW 2300
Ph: 02 4929 8311 Fax: 02 4929 8312 Email: sales@als.com.au
3 Brisbane 37 St Johns Rd St Johns NSW 4114
Ph: 07 3393 2972 Fax: 07 3393 2973 Email: sales@als.com.au
4 Melbourne 2/4 Yocco Rd Springvale VIC 3171
Ph: 03 9589 4000 Fax: 03 9589 4001 Email: sales@als.com.au
5 Adelaide 2/25 Formosa Rd Adelaide SA 5006
Ph: 08 3230 9900 Fax: 08 3230 9901 Email: sales@als.com.au
6 Perth 101 Heddon Way Perth WA 6000
Ph: 08 9390 4866 Fax: 08 9390 4867 Email: sales@als.com.au
7 Liverpool 277 Midway St Liverpool NSW 2157
Ph: 02 6331 2158 Fax: 02 6331 2159 Email: sales@als.com.au

CLIENT: Environmental Advisors Pty Ltd
OFFICE: Sunshine Coast
PROJECT: 125 NSC LAKE McDONALD DVE, COOROY
ORDER NUMBER:
PROJECT MANAGER: Andrew Winters
SAMPLER: Andrew Winters
COC emailed to ALS? Yes
Email Reports to (will default to PM if no other addresses are listed): andrew@environmentaladvisors.com.au
Email Invoice to (will default to PM if no other addresses are listed): admin@environmentaladvisors.com.au
COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

TURNAROUND REQUIREMENTS: Standard TAT (List due date): 4 March 24
 Non Standard or urgent TAT (List due date):
ALS QUOTE NO.: EB23ENVADV0001 V2
COC SEQUENCE NUMBER: 10 of 15
FOR LABORATORY USE ONLY (Circle)
Checked, Seal Intact? Yes No N/A
Free Ice / frozen ice bricks present? Yes No N/A
Random Sample Temperature on Receipt? Yes No N/A
Other comment:

LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL CONTAINERS	ANALYSIS REQUIRED including SUITES (NB: Suite Codes must be listed to attract suite price) <small>Where Metals are required, specify Total (under test bottle required) or Dissolved (field filtered bottle required)</small>	Additional Information							
16	TP46-1.0	21/02/2024	Soil	Jar	1	S-02 (8 Metals)								
17	TP47-0.2	21/02/2024	Soil	Jar + asbestos bag	2	S-16 (TRH/BTEXN/PAH OC/OP/PCB/8 metals)								
18	TP47-0.5	21/02/2024	Soil	Jar	1	EA200G Asbestos (presence/absence in soil/bulk sample)								
19	TP47-1.0	21/02/2024	Soil	Jar	1	S-05 (TRH/BTEXN/8 metals)								
20	TP48-0.2	21/02/2024	Soil	Jar + PFAS + asbestos bag	3	EP231 (PFAS Short Suite)								
21	TP48-0.5	21/02/2024	Soil	Jar + PFAS + asbestos bag	3	EP075 (SVOC)								
22	TP48-1.0	21/02/2024	Soil	Jar	1	S-18 TRH(c6-c10)/BTEXN								
23	TP49-0.2	22/02/2024	Soil	Jar + PFAS + asbestos bag	3									
24	TP49-0.5	22/02/2024	Soil	Jar	1									
25	TP49-1.0	22/02/2024	Soil	Jar	1									
26	TP50-0.1	22/02/2024	Soil	Jar + asbestos bag	2									
27	TP50-0.5	22/02/2024	Soil	Jar	1									
28	TP50-1.0	22/02/2024	Soil	Jar	1									
TOTAL					21	2	4	5	4	3	3	0	0	

Water Container Codes: P = Unpreserved Plastic, N = Nitric Preserved Plastic, ORG = Sodium Hydroxide/Cl₂ Preserved, S = Sodium Hydroxide Preserved Plastic, AG = Amber Glass Unpreserved, AP = Air-tight Unpreserved Plastic, F = Formaldehyde Preserved Glass.
V = VOA Vial HCl Preserved, VB = VOA Vial Sodium Bisulfite Preserved, VS = VOA Vial Sulfuric Preserved, AV = Air-tight Unpreserved Vial, SC = Sulfuric Preserved Amber Glass, H = HCl Preserved Plastic, HS = HCl Preserved Speciation bottle, SP = Sulfuric Preserved Plastic.
Z = Zinc Ascorbic Preserved Bottle, E = EDTA Preserved Bottle, ST = Sterile Bottle, ASS = Plastic Bag for Acid Sulphate Soils, B = Unpreserved Egg.



CHAIN OF CUSTODY

ALS Laboratory, please tick →

Site: 27/1/2024
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 31/12/2024

CLIENT: Environmental Advisors Pty Ltd
 OFFICE: Sunshine Coast
 PROJECT: 125 NSC LAKE McDONALD DVE, COOROY
 ORDER NUMBER:
 PROJECT MANAGER: Andrew Winters
 SAMPLER: Andrew Winters
 COC emailed to ALS? Yes
 Email Reports to (will default to PM if no other addresses are listed): andrew@environmentaladvisors.com.au
 Email invoice to (will default to PM if no other addresses are listed): admin@environmentaladvisors.com.au

TURNAROUND REQUIREMENTS: Standard TAT (List due date): 4 March 24
 Non Standard or urgent TAT (List due date):
 e.g. Ullia Trace Organic
 ALS QUOTE NO.: EB23ENVADV0001 V2
 COC SEQUENCE NUMBER: 11 of 15

CONTACT PH: 0409 662 747
 SAMPLER MOBILE: 0409 662 747
 EDD FORMAT: Default
 RELINQUISHED BY: Andrew Winters
 DATE/TIME: 24/2/24
 RECEIVED BY:
 DATE/TIME:
 RELINQUISHED BY:
 DATE/TIME:
 RECEIVED BY:
 DATE/TIME:

FOR LABORATORY USE ONLY (Circle)
 Category Seal Intact? Yes No N/A
 Free ice / frozen ice bricks present upon receipt? Yes No N/A
 Random Sample Temperature on Receipt: °C
 Other comment:

LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL CONTAINERS	ANALYSIS REQUIRED including SUITES (NB: Suite Codes must be listed to attract suite price) <small>Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (filtered bottle required)</small>	Additional Information <small>Comments on likely contamination levels, dilutions, or samples requiring specific OC analysis etc.</small>						
27	TP51-0.2	22/02/2024	Soil	Jar	1	S-02 (8 Metals)							
33	TP51-0.5	22/02/2024	Soil	Jar	1	S-02 (8 Metals)							
31	TP51-0.8	22/02/2024	Soil	Jar	1	S-02 (8 Metals)							
32	TP51-1.4	22/02/2024	Soil	Jar	1	S-02 (8 Metals)							
34	TP52-0.1	22/02/2024	Soil	Jar + asbestos bag	2	S-02 (8 Metals)							
34	TP52-0.5	22/02/2024	Soil	Jar	1	S-02 (8 Metals)							
35	TP53-1.0	22/02/2024	Soil	Jar	1	S-02 (8 Metals)							
36	TP53-0.2	22/02/2024	Soil	Jar + asbestos bag	2	S-02 (8 Metals)							
37	TP53-0.5	22/02/2024	Soil	Jar	1	S-02 (8 Metals)							
38	TP53-1.0	22/02/2024	Soil	Jar	1	S-02 (8 Metals)							
39	TP54-0.1	22/02/2024	Soil	Jar + asbestos bag	2	S-02 (8 Metals)							
40	TP54-0.5	22/02/2024	Soil	Jar	1	S-02 (8 Metals)							
41	TP54-1.0	22/02/2024	Soil	Jar	1	S-02 (8 Metals)							
					16	4	4	3	1	0	2	0	0

Matrix Container Codes: P = Unpreserved Plastic, N = Nitric Preserved Plastic, ORG = Nitric Preserved ORG, SH = Sodium Hydroxide Preserved Plastic, S = Sodium Hydroxide Preserved Plastic, AG = Amber Glass Unpreserved, AT = Air-tight Unpreserved Plastic
 V = VOA Vol HCl Preserved, VB = VOA Vol Sodium Bisulfate Preserved, VS = VOA Vol Sulfuric Preserved, AV = Air-tight Unpreserved Vol SG = Sulfuric Preserved Amber Glass, H = HCl Preserved Plastic, HS = HCl Preserved Separation Bottle, SP = Sulfuric Preserved Plastic, F = Formaldehyde Preserved Glass
 L = Zinc Ascidin Preserved Bottle, E = EDTA Preserved Bottles, SI = Sterile Bottle, ASS = Plastic Bag for Acid Sulphate Soils, B = Unpreserved Bag



CHAIN OF CUSTODY

ALS Laboratory - please tick →

Sydney 2/27 Avecon Rd, S10, Belfield NSW 2115
 Ph: 02 9339 3600, F: 02 9339 3601, Email: sydney@als.com.au
 Brisbane 1/100 St. Johns Rd, Albion QLD 4017
 Ph: 07 3251 1222, F: 07 3251 1223, Email: brisbane@als.com.au
 Melbourne 2/4 Princes Rd, Springvale VIC 3171
 Ph: 03 8541 8000, F: 03 8541 8001, Email: melbourne@als.com.au
 Perth 10/100 Waverley Rd, Waverley WA 6150
 Ph: 08 9436 5656, F: 08 9436 5657, Email: perth@als.com.au
 Adelaide 2/1 Binona Rd, Prospect SA 5095
 Ph: 08 8391 8000, F: 08 8391 8001, Email: adelaide@als.com.au
 Gold Coast 2/2 Waddington St, Luncarty QLD 4270
 Ph: 07 5533 2244, F: 07 5533 2245, Email: goldcoast@als.com.au

CLIENT: Environmental Advisors Pty Ltd
OFFICE: Sunshine Coast
PROJECT: 125 NSC LAKE McDONALD DVE, COOROO
ORDER NUMBER:
PROJECT MANAGER: Andrew Winters
SAMPLER: Andrew Winters
COC emailed to ALS? Yes
Email Reports to (will default to PM if no other addresses are listed): admin@environmentaladvisors.com.au
Email invoice to (will default to PM if no other addresses are listed): admin@environmentaladvisors.com.au

CONTACT PH: 0409 662 747
SAMPLER MOBILE: 0409 662 747
REINQUISHED BY: Andrew Winters
DATE/TIME: 24/2/24

TURNAROUND REQUIREMENTS: Standard TAT (List due date): 4 March 24
 Non Standard or urgent TAT (List due date):
ALS QUOTE NO.: EB23ENVAD0001 V2
COC SEQUENCE NUMBER: 12 of 15

FOR LABORATORY USE ONLY (Circle)
 Capacity Seal Intact? Yes No N/A
 Free ice/frozen ice bricks present upon receipt? Yes No N/A
 Random Sample Temperature on Receipt:
 Other comment:

REINQUISHED BY: Andrew Winters
DATE/TIME: 24/2/24
REINQUISHED BY:
DATE/TIME:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

LAB ID	SAMPLE ID	DATE / TIME	MATRIX	CONTAINER INFORMATION	TYPE & PRESERVATIVE (refer to codes below)	TOTAL CONTAINERS	ANALYSIS REQUIRED INCLUDING SUITES (NB: Suite Codes must be listed to attract suite price)	Additional Information
42	TP56-0.1	22/02/2024	Soil	Jar + asbestos bag		2	S-02 (8 Metals) S-16 (TRH/BTEXN/PAH OC/OP/PCB/8 metals) EA200G Asbestos (presence/absence in soil/bulk sample) S-05 (TRH/BTEXN/8 metals) EP231 (PFAS Short Suite) EP075 (SVOC) S-18 TRH(c6-c10)/BTEXN	
43	TP55-0.5	22/02/2024	Soil	Jar + asbestos bag		2	S-02 (8 Metals) S-16 (TRH/BTEXN/PAH OC/OP/PCB/8 metals) EA200G Asbestos (presence/absence in soil/bulk sample) S-05 (TRH/BTEXN/8 metals) EP231 (PFAS Short Suite) EP075 (SVOC) S-18 TRH(c6-c10)/BTEXN	
44	TP55-1.0	22/02/2024	Soil	Jar		1	S-02 (8 Metals) S-16 (TRH/BTEXN/PAH OC/OP/PCB/8 metals) EA200G Asbestos (presence/absence in soil/bulk sample) S-05 (TRH/BTEXN/8 metals) EP231 (PFAS Short Suite) EP075 (SVOC) S-18 TRH(c6-c10)/BTEXN	
45	TP56-0.1	22/02/2024	Soil	Jar		1	S-02 (8 Metals) S-16 (TRH/BTEXN/PAH OC/OP/PCB/8 metals) EA200G Asbestos (presence/absence in soil/bulk sample) S-05 (TRH/BTEXN/8 metals) EP231 (PFAS Short Suite) EP075 (SVOC) S-18 TRH(c6-c10)/BTEXN	
46	TP56-0.5	22/02/2024	Soil	Jar		1	S-02 (8 Metals) S-16 (TRH/BTEXN/PAH OC/OP/PCB/8 metals) EA200G Asbestos (presence/absence in soil/bulk sample) S-05 (TRH/BTEXN/8 metals) EP231 (PFAS Short Suite) EP075 (SVOC) S-18 TRH(c6-c10)/BTEXN	
47	TP57-0.1	22/02/2024	Soil	Jar		1	S-02 (8 Metals) S-16 (TRH/BTEXN/PAH OC/OP/PCB/8 metals) EA200G Asbestos (presence/absence in soil/bulk sample) S-05 (TRH/BTEXN/8 metals) EP231 (PFAS Short Suite) EP075 (SVOC) S-18 TRH(c6-c10)/BTEXN	
48	TP57-0.5	22/02/2024	Soil	Jar		1	S-02 (8 Metals) S-16 (TRH/BTEXN/PAH OC/OP/PCB/8 metals) EA200G Asbestos (presence/absence in soil/bulk sample) S-05 (TRH/BTEXN/8 metals) EP231 (PFAS Short Suite) EP075 (SVOC) S-18 TRH(c6-c10)/BTEXN	
49	TP57-1.0	22/02/2024	Soil	Jar		1	S-02 (8 Metals) S-16 (TRH/BTEXN/PAH OC/OP/PCB/8 metals) EA200G Asbestos (presence/absence in soil/bulk sample) S-05 (TRH/BTEXN/8 metals) EP231 (PFAS Short Suite) EP075 (SVOC) S-18 TRH(c6-c10)/BTEXN	
50	TP58-0.1	22/02/2024	Soil	Jar + asbestos bag		2	S-02 (8 Metals) S-16 (TRH/BTEXN/PAH OC/OP/PCB/8 metals) EA200G Asbestos (presence/absence in soil/bulk sample) S-05 (TRH/BTEXN/8 metals) EP231 (PFAS Short Suite) EP075 (SVOC) S-18 TRH(c6-c10)/BTEXN	
51	TP58-0.5	22/02/2024	Soil	Jar		1	S-02 (8 Metals) S-16 (TRH/BTEXN/PAH OC/OP/PCB/8 metals) EA200G Asbestos (presence/absence in soil/bulk sample) S-05 (TRH/BTEXN/8 metals) EP231 (PFAS Short Suite) EP075 (SVOC) S-18 TRH(c6-c10)/BTEXN	
52	TP59-0.2	21/02/2024	Soil	Jar		1	S-02 (8 Metals) S-16 (TRH/BTEXN/PAH OC/OP/PCB/8 metals) EA200G Asbestos (presence/absence in soil/bulk sample) S-05 (TRH/BTEXN/8 metals) EP231 (PFAS Short Suite) EP075 (SVOC) S-18 TRH(c6-c10)/BTEXN	
53	TP59-0.5	21/02/2024	Soil	Jar		1	S-02 (8 Metals) S-16 (TRH/BTEXN/PAH OC/OP/PCB/8 metals) EA200G Asbestos (presence/absence in soil/bulk sample) S-05 (TRH/BTEXN/8 metals) EP231 (PFAS Short Suite) EP075 (SVOC) S-18 TRH(c6-c10)/BTEXN	
54	TP59-1.0	21/02/2024	Soil	Jar		1	S-02 (8 Metals) S-16 (TRH/BTEXN/PAH OC/OP/PCB/8 metals) EA200G Asbestos (presence/absence in soil/bulk sample) S-05 (TRH/BTEXN/8 metals) EP231 (PFAS Short Suite) EP075 (SVOC) S-18 TRH(c6-c10)/BTEXN	

Water Container Codes: P = Unpreserved Plastic, N = Nitric Preserved Plastic, ORG = Kilnic Preserved ORG, SH = Sodium Hydroxide/Cr Preserved, S = Sodium Hydroxide Preserved Plastic, AG = Amber Glass Unpreserved, AP = Antifog Unpreserved Plastic
 V = VOA Via HCl Preserved, V8 = VOA Via Sodium Bisulphate Preserved, VS = VOA Via Sulfuric Preserved, AV = Antifog Unpreserved Vial SG = Sulfuric Preserved Amber Glass, H = HCl preserved Plastic, HS = HCl preserved Speciation bottles, SP = Sulfuric Preserved Plastic, F = Formaldehyde Preserved Glass
 L = Zinc Acetate Preserved Bottle, E = EDTA Preserved Bottles, ST = Sterile Bottle, ASS = Plastic Bag for Acid Sulphate Soils, B = Unpreserved Bag



CHAIN OF CUSTODY

ALS Laboratory, please tick →

11 Melbourne - 3 A Vesey Rd, Springvale VIC 3171
 12 Perth - 4-6 Wemyss Place, Wembley WA 6009
 13 Brisbane - 100 St Johns Rd, Brisbane QLD 4000
 14 Sydney - 150-152 Darling Dr, Sydney NSW 1585
 15 Adelaide - 217 Brompton Ave, Adelaide SA 5000
 16 Auckland - 27 Vaucluse Ave, Auckland NZ 1010
 17 Christchurch - 27 Vaucluse Ave, Christchurch NZ 8001
 18 Dunedin - 27 Vaucluse Ave, Dunedin NZ 9001
 19 Hamilton - 27 Vaucluse Ave, Hamilton NZ 3201
 20 Invercargill - 27 Vaucluse Ave, Invercargill NZ 9701
 21 Johannesburg - 27 Vaucluse Ave, Johannesburg SA 2000
 22 London - 27 Vaucluse Ave, London UK E1 1AA
 23 Los Angeles - 27 Vaucluse Ave, Los Angeles CA 90001
 24 Miami - 27 Vaucluse Ave, Miami FL 33101
 25 New York - 27 Vaucluse Ave, New York NY 10001
 26 Phoenix - 27 Vaucluse Ave, Phoenix AZ 85001
 27 San Francisco - 27 Vaucluse Ave, San Francisco CA 94101
 28 Toronto - 27 Vaucluse Ave, Toronto ON M5G 1S7
 29 Vancouver - 27 Vaucluse Ave, Vancouver BC V6C 3A7
 30 Wellington - 27 Vaucluse Ave, Wellington NZ 6140
 31 Perth - 27 Vaucluse Ave, Perth WA 6000
 32 Sydney - 27 Vaucluse Ave, Sydney NSW 1585
 33 Auckland - 27 Vaucluse Ave, Auckland NZ 1010
 34 Christchurch - 27 Vaucluse Ave, Christchurch NZ 8001
 35 Dunedin - 27 Vaucluse Ave, Dunedin NZ 9001
 36 Hamilton - 27 Vaucluse Ave, Hamilton NZ 3201
 37 Invercargill - 27 Vaucluse Ave, Invercargill NZ 9701
 38 Johannesburg - 27 Vaucluse Ave, Johannesburg SA 2000
 39 London - 27 Vaucluse Ave, London UK E1 1AA
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 47 Wellington - 27 Vaucluse Ave, Wellington NZ 6140
 48 Perth - 27 Vaucluse Ave, Perth WA 6000
 49 Sydney - 27 Vaucluse Ave, Sydney NSW 1585
 50 Auckland - 27 Vaucluse Ave, Auckland NZ 1010
 51 Christchurch - 27 Vaucluse Ave, Christchurch NZ 8001
 52 Dunedin - 27 Vaucluse Ave, Dunedin NZ 9001
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 62 Toronto - 27 Vaucluse Ave, Toronto ON M5G 1S7
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 68 Christchurch - 27 Vaucluse Ave, Christchurch NZ 8001
 69 Dunedin - 27 Vaucluse Ave, Dunedin NZ 9001
 70 Hamilton - 27 Vaucluse Ave, Hamilton NZ 3201
 71 Invercargill - 27 Vaucluse Ave, Invercargill NZ 9701
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 76 New York - 27 Vaucluse Ave, New York NY 10001
 77 Phoenix - 27 Vaucluse Ave, Phoenix AZ 85001
 78 San Francisco - 27 Vaucluse Ave, San Francisco CA 94101
 79 Toronto - 27 Vaucluse Ave, Toronto ON M5G 1S7
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 91 Los Angeles - 27 Vaucluse Ave, Los Angeles CA 90001
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 93 New York - 27 Vaucluse Ave, New York NY 10001
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 95 San Francisco - 27 Vaucluse Ave, San Francisco CA 94101
 96 Toronto - 27 Vaucluse Ave, Toronto ON M5G 1S7
 97 Vancouver - 27 Vaucluse Ave, Vancouver BC V6C 3A7
 98 Wellington - 27 Vaucluse Ave, Wellington NZ 6140
 99 Perth - 27 Vaucluse Ave, Perth WA 6000
 100 Sydney - 27 Vaucluse Ave, Sydney NSW 1585

CLIENT: Environmental Advisors Pty Ltd
OFFICE: Sunshine Coast
PROJECT: 125 NSC LAKE McDONALD DVE, COOROY
ORDER NUMBER:
PROJECT MANAGER: Andrew Winters
SAMPLER: Andrew Winters
COC emailed to ALS? Yes
EMAIL: Email Reports to (will default to PM if no other addresses are listed): andrew@environmentaladvisors.com.au
Comments/SPECIAL HANDLING/STORAGE OR DISPOSAL:

TURNAROUND REQUIREMENTS: Standard TAT (List due date): 4 March 24
 Non Standard or urgent TAT (List due date):
ALS QUOTE NO.: EB23ENVADV0001 V2
COC SEQUENCE NUMBER: 13 of 15
FOR LABORATORY USE ONLY (Circle):
 Ousted Seal Intact? Yes No N/A
 Free Ice / frozen Ice bricks present upon receipt? Yes No N/A
 Random Samples Temperature on Receipt: C
 Other comment:

CONTACT PH: 0409 662 747
SAMPLER MOBILE: 0409 662 747
RELINQUISHED BY: Andrew Winters
DATE/TIME: 24/2/24
RECEIVED BY:
DATE/TIME:
RELINQUISHED BY:
DATE/TIME:
RECEIVED BY:
DATE/TIME:

LAB ID	SAMPLE ID	DATE / TIME	MATRIX	CONTAINER INFORMATION	TYPE & PRESERVATIVE (refer to codes below)	TOTAL CONTAINERS	ANALYSIS REQUIRED INCLUDING SUITES (NB: Suite Codes must be listed to attract suite price)	Additional Information
55	TP60-0.1	22/02/2024	Soil	Jar + asbestos bag		2	S-02 (8 Metals)	
56	TP60-0.5	22/02/2024	Soil	Jar		1	S-16 (TRH/BTEXN/PAH OC/OP/PCB/8 metals)	
57	TP61-0.1	22/02/2024	Soil	Jar + asbestos bag		2	EA200G Asbestos (presence/absence in soil/bulk sample)	
58	TP62-0.1	22/02/2024	Soil	Jar		1	S-05 (TRH/BTEXN/8 metals)	
59	TP62-0.5	22/02/2024	Soil	Jar		1	EP231 (PFAS Short Suite)	
60	TP63-0.1	22/02/2024	Soil	Jar		1	EP075 (SVOC)	
61	TP63-0.5	22/02/2024	Soil	Jar		1	S-16 TRH(c6-c10)/BTEXN	
62	TP64-0.2	21/02/2024	Soil	Jar		1		
63	TP64-0.5	21/02/2024	Soil	Jar		1		
64	TP64-1.0	21/02/2024	Soil	Jar		1		
65	TP65-0.1	22/02/2024	Soil	Jar + asbestos bag		2		
66	TP65-0.5	22/02/2024	Soil	Jar		1		
67	TP66-B1	21/02/2024	Bulk	Bag		1		asbestos bulk sample

Water Container Codes: P = Unpreserved Plastic, N = Nitric Preserved Plastic, ORG = Nitric Preserved ORG, SH = Sodium Hydroxide/ClO₂ Preserved, S = Sodium Hydroxide Preserved Plastic, AG = Amber Glass Unpreserved, AR = Airtight Unpreserved Plastic
V = VOA Vial HCl Preserved, VB = VOA Vial Sodium Bisulfate Preserved, VS = VOA Vial Sodium Sulfate Preserved, AV = Airtight Unpreserved Vial SG = Sulfuric Preserved Amber Glass, H = HCl Preserved Plastic, HS = HCl Preserved Speciation bottle, SP = Sulfuric Preserved Plastic, F = Formaldehyde Preserved Glass
Z = Zinc Acetate Preserved Bottle, E = EDTA Preserved Bolus, SI = Sterile Bolus, ASS = Plastic Bag for Acid Suppliate Soils, B = Unpreserved Bag



CHAIN OF CUSTODY

ALS Laboratory please tick →

Sydney: 157 Macquarie St, Sydney NSW 2000
 Melbourne: 100 Collins St, Melbourne VIC 3000
 Brisbane: 100 Queen St, Brisbane QLD 4000
 Perth: 100 St Georges Tce, Perth WA 6000
 Auckland: 100 Queen St, Auckland NZ 1010
 Christchurch: 100 Queen St, Christchurch NZ 8011
 Wellington: 100 Queen St, Wellington NZ 6142
 Dunedin: 100 Queen St, Dunedin NZ 9016
 Cairns: 100 Queen St, Cairns QLD 4870
 Mackay: 100 Queen St, Mackay QLD 4740
 Gold Coast: 100 Queen St, Gold Coast QLD 4217
 Townsville: 100 Queen St, Townsville QLD 4810
 Darwin: 100 Queen St, Darwin NT 1105
 Adelaide: 100 Queen St, Adelaide SA 5000
 Hobart: 100 Queen St, Hobart TAS 7000
 Brisbane: 100 Queen St, Brisbane QLD 4000
 Perth: 100 St Georges Tce, Perth WA 6000
 Auckland: 100 Queen St, Auckland NZ 1010
 Christchurch: 100 Queen St, Christchurch NZ 8011
 Wellington: 100 Queen St, Wellington NZ 6142
 Dunedin: 100 Queen St, Dunedin NZ 9016
 Cairns: 100 Queen St, Cairns QLD 4870
 Mackay: 100 Queen St, Mackay QLD 4740
 Gold Coast: 100 Queen St, Gold Coast QLD 4217
 Townsville: 100 Queen St, Townsville QLD 4810
 Darwin: 100 Queen St, Darwin NT 1105
 Adelaide: 100 Queen St, Adelaide SA 5000
 Hobart: 100 Queen St, Hobart TAS 7000

CLIENT: Environmental Advisors Pty Ltd
OFFICE: Sunshine Coast
PROJECT: 125 NSC LAKE McDONALD DVE, COOROY
ORDER NUMBER:
PROJECT MANAGER: Andrew Winters
SAMPLER: Andrew Winters
COC emailed to ALS? Yes
EMAIL REPORTS: (will default to PM if no other addresses are listed): andrew@environmentaladvisors.com.au
EMAIL INVOICE: (will default to PM if no other addresses are listed): admin@environmentaladvisors.com.au
COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

TURNAROUND REQUIREMENTS: Standard TAT may be longer for some tests
 Non Standard or urgent TAT (List due date):
 Standard TAT (List due date): 4 March 24
ALS QUOTE NO.: EB23ENVADV001 V2
CONTACT PH: 0409 862 747
SAMPLER MOBILE: 0409 862 747
EDD FORMAT: Default
RELINQUISHED BY: Andrew Winters
DATE/TIME: 24/2/24
RECEIVED BY:
DATE/TIME:
RELINQUISHED BY:
DATE/TIME:
RECEIVED BY:
DATE/TIME:

COC SEQUENCE NUMBER: 14 of 15
FOR LABORATORY USE ONLY (Circle):
 Outdry Seal Intact? Yes No N/A
 Freezer / frozen test preps present upon receipt? Yes No N/A
 Random Sample Temperature on Receipt? C
 Other Comments:

LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL CONTAINERS	ANALYSIS REQUIRED INCLUDING SUITES (NB: Suite Codes must be listed to attract suite price) <small>Where Metals are required, specify Total (unfiltered) bottle required or Dissolved (filter filtered bottle required)</small>	Additional Information							
68	TP55-81	22/02/2024	Bulk	Bag	1	S-02 (8 Metals)								
69	020830	19/02/2024	Soil	PFAS	1	S-16 (TRH/BTEXN/PAH OC/OP/PCB/8 metals)	asbestos bulk sample							
70	011745	19/02/2024	Soil	Jar	1	EA200G Asbestos (presence/absence in soil/bulk sample)	top blank (PFAS)							
71		19/02/2024	Soil	Jar	1	S-05 (TRH/BTEXN/8 metals)	top blank							
72		19/02/2024	Soil	Jar	1	S-05 (TRH/BTEXN/8 metals)								
73		19/02/2024	Soil	Jar	1	S-05 (TRH/BTEXN/8 metals)								
74		20/02/2024	Soil	Jar	1	S-05 (TRH/BTEXN/8 metals)								
75		20/02/2024	Soil	Jar + PFAS	2	S-05 (TRH/BTEXN/8 metals)								
76		21/02/2024	Soil	Jar + PFAS	2	S-05 (TRH/BTEXN/8 metals)								
77		21/02/2024	Soil	Jar	1	S-05 (TRH/BTEXN/8 metals)								
78		21/02/2024	Soil	Jar	1	S-05 (TRH/BTEXN/8 metals)								
79		22/02/2024	Soil	Jar	1	S-05 (TRH/BTEXN/8 metals)								
80		22/02/2024	Soil	Jar	1	S-05 (TRH/BTEXN/8 metals)								
					TOTAL	15	4	3	1	3	3	1	1	0

Water Container Codes: P = Unpreserved Plastic, N = Nitric Preserved Plastic, ORG = Strong Preserved ORG, SH = Sodium Hydroxide Preserved Plastic, S = Sodium Hydroxide Preserved Plastic, AG = Amber Glass Unpreserved Plastic, AP = Airtight Unpreserved Plastic
**V = VOA Via HCl Preserved, VB = VOA Via Sodium Bisphinate Preserved, VS = VOA Via Sulfuric Preserved, AV = Airtight Unpreserved Via SG = Sulfuric Preserved Amber Glass, H = HCl Preserved Plastic, HS = HCl Preserved Speciation bottle, SP = Sulfuric Preserved Plastic, F = Formaldehyde Preserved Glass,
Z = Zinc Acetate Preserved Bottle, E = EDTA Preserved Bottles, S = Sterile Bottle, ASS = Plastic Bead for Acid Soluble Solids, B = Unpreserved Bag.**



CHAIN OF CUSTODY

ALS Laboratory please tick →

1 Sydney 277 Macleay Rd, 5th Floor, NSW 2048
 2 Brisbane 172 St Johns Rd, St Johns, QLD 4018
 3 Perth 10 Heston St, Midland, WA 6049
 4 Melbourne 2-4 Zions Rd, Springvale, VIC 3171
 5 Adelaide 251 Rymon St, Prospect, SA 5042
 6 Canberra 17 Woodroffe St, Canberra, TAS 7250
 7 Darwin 17 Woodroffe St, Darwin, NT 1180
 8 Brisbane 172 St Johns Rd, Brisbane, QLD 4018
 9 Perth 10 Heston St, Midland, WA 6049
 10 Melbourne 2-4 Zions Rd, Springvale, VIC 3171
 11 Adelaide 251 Rymon St, Prospect, SA 5042
 12 Canberra 17 Woodroffe St, Canberra, TAS 7250
 13 Darwin 17 Woodroffe St, Darwin, NT 1180

CLIENT: Environmental Advisors Pty Ltd

OFFICE: Sunshine Coast

PROJECT: 125 NSC LAKE McDONALD DVE COORDY

ORDER NUMBER:

PROJECT MANAGER: Andrew Winters

CONTACT PH: 0409 662 747

SAMPLER: Andrew Winters

SAMPLER MOBILE: 0409 662 747

COC emailed to ALS? Yes

EDD FORMAT: Default

Relinquished by: Andrew Winters

DATE/TIME: 24/2/24

TURNAROUND REQUIREMENTS: Standard TAT (last due date): 4 March 24
 Non Standard or urgent TAT (last due date):

ALS QUOTE NO.: EB23ENVADV001 V2

COC SEQUENCE NUMBER: 15 of 15

FOR LABORATORY USE ONLY (Circle)

Quarantain Seal Intact? Yes No N/A

Frozen/Refrigerated by date present upon receipt? Yes No N/A

Random Sample Temperature on Receipt C F

Other comment:

RECEIVED BY:

DATE/TIME:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

LAB ID	SAMPLE ID	DATE / TIME	MATRIX	CONTAINER INFORMATION	ANALYSIS REQUIRED INCLUDING SUITES (NB: Suite Codes must be listed to attract suite price)	TOTAL CONTAINERS	TYPE & PRESERVATIVE (refer to codes below)	Additional Information
	D11	22/02/2024	Soil	Jar	S-02 (8 Metals)	1		Comments on likely contaminants, methods, dilutions, or samples requiring specific QC analysis etc.
	D12	22/02/2024	Soil	Jar	S-16 (TRH/BTEXN/PAH OC/OP/PCB/8 metals)	1		
	D13	22/02/2024	Soil	Jar	EA200G Asbestos (presence/absence in soil/bulk sample)	1		
		19/02/2024	Soil	Jar	S-05 (TRH/BTEXN/8 metals)	1		
		19/02/2024	Soil	Jar	EP231 (PFAS Short Suite)	1		
		19/02/2024	Soil	Jar	EP075 (SVOC)	1		
		21/02/2024	Soil	Jar + PFAS	S-18 TRH(c6-c10)/BTEXN	2		
		21/02/2024	Soil	Jar		1		
		21/02/2024	Soil	Jar		1		
		22/02/2024	Soil	Jar		1		
		22/02/2024	Soil	Jar		1		
		22/02/2024	Soil	Jar		1		
		22/02/2024	Soil	Jar		1		

Water Container Codes: P = Unreserved Plastic, N = Nitric Preserved Plastic, ORC = Nitric Preserved ORC, SH = Sodium Hydroxide Preserved, S = Sodium Hydroxide Preserved Plastic, AG = Amber Glass Unreserved, AR = Airtight Unreserved Plastic, V = VOA Vial HCl Preserved, VB = VOA Vial Sodium Bisulfate Preserved, VS = VOA Vial Sulfuric Preserved, AV = Airtight Unreserved Vial SG = Sulfuric Preserved Amber Glass, H = HCl Preserved Plastic, HS = HCl Preserved Speedation Bottle, SP = Sulfuric Preserved Plastic, F = Formaldehyde Preserved Glass

Z - Zinc Acetate Preserved Bottle, E = EDTA Preserved Bottles, ST = Sterile Bottle, ASS = Plastic Bag for Acid Supersat. Soils, B = Unreserved Bag



SAMPLE RECEIPT NOTIFICATION (SRN)

Work Order : **EB2406402**

Client	: ENVIRONMENTAL ADVISORS	Laboratory	: Environmental Division Brisbane
Contact	: ANDREW WINTERS	Contact	: Customer Services EB
Address	: PO BOX 505 BUDDINA QLD 4575	Address	: 2 Byth Street Stafford QLD Australia 4053
E-mail	: andrew@environmentaladvisors.com.au	E-mail	: ALSEnviro.Brisbane@alsglobal.com
Telephone	: ----	Telephone	: +61 7 3243 7222
Facsimile	: ----	Facsimile	: +61-7-3243 7218
Project	: 125 NSC LAKE McDONALD DVE, COOROY	Page	: 1 of 6
Order number	: ----	Quote number	: EB2023ENVADV0001 (EB23ENVADV0001 V2)
C-O-C number	: ----	QC Level	: NEPM 2013 B3 & ALS QC Standard
Site	: ----		
Sampler	: ANDREW WINTERS		

Dates

Date Samples Received	: 24-Feb-2024 13:00	Issue Date	: 27-Feb-2024
Client Requested Due Date	: 06-Mar-2024	Scheduled Reporting Date	: 06-Mar-2024

Delivery Details

Mode of Delivery	: Client Drop Off	Security Seal	: Not Available
No. of coolers/boxes	: 5	Temperature	: 16, 16, 16°C - Ice present
Receipt Detail	: MEDIUM ESKY	No. of samples received / analysed	: 83 / 71

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
- **Asbestos Identification will be conducted by ALS Melbourne, NATA accreditation no. 825, site no 13778**
- **PLEASE NOTE: samples 'T1' through to 'T8' have been forwarded to ALS Sydney for analysis as per Chain Of Custody request.**
- **SPLIT WORK ORDER: It should be noted that ALS has split this work order with the following work order EB2406372 due to the size of the sample numbers. For any further information regarding this processing of samples please contact ALS client services division on ALSEnviro.Brisbane@alsglobal.com**
- **PLEASE NOTE: An additional Asbestos ACM/Grab Bag was received for ALS sample #60 'TP63-0.1', this sample has been forwarded to ALS Melbourne should Asbestos Identification be requested. If you wish to discuss this further please contact ALS Brisbane Client Services Department at ALSEnviro.Brisbane@alsglobal.com.**
- Discounted Package Prices apply only when specific ALS Group Codes ('W', 'S', 'NT' suites) are referenced on COCs.
- Please direct any turn around / technical queries to the laboratory contact designated above.
- Sample Disposal - Aqueous (3 weeks), Solid (2 months ± 1 week) from receipt of samples.
- Analysis will be conducted by ALS Environmental, Brisbane, NATA accreditation no. 825, Site No. 818 (Micro site no. 18958).
- **Breaches in recommended extraction / analysis holding times (if any) are displayed overleaf in the Proactive Holding Time Report table.**
- 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.

- 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.



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

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 - EP231 (solids) PFAS - Short Suite (12 analytes)	SOIL - S-02 8 Metals (incl. Digestion)	SOIL - S-05 TRH/BTEXN/8 Metals	SOIL - S-16 TRH/BTEXN/PAH/OC/OP/PCB/8Metals
EB2406402-001	21-Feb-2024 00:00	TP42-0.2		✓	✓	✓	✓		
EB2406402-002	21-Feb-2024 00:00	TP42-0.5	✓						
EB2406402-003	21-Feb-2024 00:00	TP42-1.0		✓			✓		
EB2406402-004	21-Feb-2024 00:00	TP43-0.1		✓	✓			✓	
EB2406402-005	21-Feb-2024 00:00	TP43-0.3		✓		✓			✓
EB2406402-006	21-Feb-2024 00:00	TP43-0.5		✓	✓			✓	
EB2406402-007	21-Feb-2024 00:00	TP43-1.0		✓				✓	
EB2406402-008	21-Feb-2024 00:00	TP44-0.1		✓				✓	
EB2406402-009	21-Feb-2024 00:00	TP44-0.5		✓					✓
EB2406402-010	21-Feb-2024 00:00	TP44-1.0		✓					✓
EB2406402-011	21-Feb-2024 00:00	TP45-0.1		✓		✓		✓	
EB2406402-012	21-Feb-2024 00:00	TP45-0.5		✓					✓
EB2406402-013	21-Feb-2024 00:00	TP45-1.0		✓				✓	
EB2406402-014	21-Feb-2024 00:00	TP46-0.2		✓					✓
EB2406402-015	21-Feb-2024 00:00	TP46-0.5		✓					✓
EB2406402-016	21-Feb-2024 00:00	TP46-1.0		✓				✓	
EB2406402-017	21-Feb-2024 00:00	TP47-0.2		✓	✓				✓
EB2406402-018	21-Feb-2024 00:00	TP47-0.5		✓	✓			✓	
EB2406402-019	21-Feb-2024 00:00	TP47-1.0		✓				✓	
EB2406402-020	21-Feb-2024 00:00	TP48-0.2		✓		✓			✓
EB2406402-021	21-Feb-2024 00:00	TP48-0.5		✓		✓			✓
EB2406402-022	21-Feb-2024 00:00	TP48-1.0	✓						
EB2406402-023	22-Feb-2024 00:00	TP49-0.2		✓	✓	✓		✓	
EB2406402-024	22-Feb-2024 00:00	TP49-0.5	✓						
EB2406402-025	22-Feb-2024 00:00	TP49-1.0		✓					✓
EB2406402-026	22-Feb-2024 00:00	TP50-0.1		✓			✓		
EB2406402-027	22-Feb-2024 00:00	TP50-0.5		✓			✓		
EB2406402-028	22-Feb-2024 00:00	TP50-1.0	✓						
EB2406402-029	22-Feb-2024 00:00	TP51-0.2		✓			✓		
EB2406402-030	22-Feb-2024 00:00	TP51-0.5		✓			✓		
EB2406402-031	22-Feb-2024 00:00	TP51-0.8	✓						
EB2406402-032	22-Feb-2024 00:00	TP51-1.4		✓					✓
EB2406402-033	22-Feb-2024 00:00	TP52-0.1		✓					✓
EB2406402-034	22-Feb-2024 00:00	TP52-0.5		✓			✓		
EB2406402-035	22-Feb-2024 00:00	TP52-1.0	✓						



			(On Hold) SOIL No analysis requested	SOIL - EA055-103 Moisture Content	SOIL - EP075 (solids) Semivolatile Organic Compounds	SOIL - EP231 (solids) PFAS - Short Suite (12 analytes)	SOIL - S-02 8 Metals (incl. Digestion)	SOIL - S-05 TRH/BTEXN/8 Metals	SOIL - S-16 TRH/BTEXN/PAH/OC/OP/PCB/8Metals
EB2406402-036	22-Feb-2024 00:00	TP53-0.2		✓	✓				✓
EB2406402-037	22-Feb-2024 00:00	TP53-0.5		✓				✓	
EB2406402-038	22-Feb-2024 00:00	TP53-1.0		✓	✓				
EB2406402-039	22-Feb-2024 00:00	TP54-0.1		✓					✓
EB2406402-040	22-Feb-2024 00:00	TP54-0.5		✓			✓		
EB2406402-041	22-Feb-2024 00:00	TP54-1.0	✓						
EB2406402-042	22-Feb-2024 00:00	TP55-0.1		✓					✓
EB2406402-043	22-Feb-2024 00:00	TP55-0.5		✓			✓		
EB2406402-044	22-Feb-2024 00:00	TP55-1.0	✓						
EB2406402-045	22-Feb-2024 00:00	TP56-0.1		✓			✓		
EB2406402-046	22-Feb-2024 00:00	TP56-0.5		✓			✓		
EB2406402-047	22-Feb-2024 00:00	TP57-0.1		✓					✓
EB2406402-048	22-Feb-2024 00:00	TP57-0.5		✓					✓
EB2406402-049	22-Feb-2024 00:00	TP57-1.0	✓						
EB2406402-050	22-Feb-2024 00:00	TP58-0.1		✓			✓		
EB2406402-051	22-Feb-2024 00:00	TP58-0.5		✓			✓		
EB2406402-052	21-Feb-2024 00:00	TP59-0.2		✓	✓				✓
EB2406402-053	21-Feb-2024 00:00	TP59-0.5		✓	✓			✓	
EB2406402-054	21-Feb-2024 00:00	TP59-1.0	✓						
EB2406402-055	22-Feb-2024 00:00	TP60-0.1		✓			✓		
EB2406402-056	22-Feb-2024 00:00	TP60-0.5		✓				✓	
EB2406402-057	22-Feb-2024 00:00	TP61-0.1		✓			✓		
EB2406402-058	22-Feb-2024 00:00	TP62-0.1		✓					✓
EB2406402-059	22-Feb-2024 00:00	TP62-0.5		✓			✓		
EB2406402-060	22-Feb-2024 00:00	TP63-0.1		✓			✓		
EB2406402-061	22-Feb-2024 00:00	TP63-0.5		✓			✓		
EB2406402-062	21-Feb-2024 00:00	TP64-0.2		✓			✓		
EB2406402-063	21-Feb-2024 00:00	TP64-0.5		✓			✓		
EB2406402-064	21-Feb-2024 00:00	TP64-1.0	✓						
EB2406402-065	22-Feb-2024 00:00	TP65-0.1		✓	✓				✓
EB2406402-066	22-Feb-2024 00:00	TP65-0.5	✓						
EB2406402-069	19-Feb-2024 00:00	020930		✓		✓			
EB2406402-071	19-Feb-2024 00:00	D1		✓				✓	
EB2406402-072	19-Feb-2024 00:00	D2		✓			✓		
EB2406402-073	19-Feb-2024 00:00	D3		✓			✓		
EB2406402-074	20-Feb-2024 00:00	D4		✓				✓	
EB2406402-075	20-Feb-2024 00:00	D5		✓		✓	✓		
EB2406402-076	22-Feb-2024 00:00	D6		✓		✓			✓
EB2406402-077	21-Feb-2024 00:00	D7		✓					✓
EB2406402-078	21-Feb-2024 00:00	D8		✓	✓		✓		
EB2406402-079	22-Feb-2024 00:00	D9		✓				✓	



			(On Hold) SOIL No analysis requested	SOIL - EA055-103 Moisture Content	SOIL - EP075 (solids) Semivolatile Organic Compounds	SOIL - EP231 (solids) PFAS - Short Suite (12 analytes)	SOIL - S-02 8 Metals (incl. Digestion)	SOIL - S-05 TRH/BTEXN/8 Metals	SOIL - S-16 TRH/BTEXN/PAH/OC/OP/PCB/8Metals
EB2406402-080	22-Feb-2024 00:00	D10	✓						✓
EB2406402-081	22-Feb-2024 00:00	D11	✓					✓	
EB2406402-082	22-Feb-2024 00:00	D12	✓	✓			✓		
EB2406402-083	22-Feb-2024 00:00	D13	✓				✓		

Matrix: SOIL

Laboratory sample ID	Sampling date / time	Sample ID	SOIL - EA200G Asbestos Identification in Soils - SOIL - S-18 (NO MOIST) TRH(C6-C9)/BTEXN with No Moisture for TBs
EB2406402-005	21-Feb-2024 00:00	TP43-0.3	✓
EB2406402-011	21-Feb-2024 00:00	TP45-0.1	✓
EB2406402-017	21-Feb-2024 00:00	TP47-0.2	✓
EB2406402-020	21-Feb-2024 00:00	TP48-0.2	✓
EB2406402-021	21-Feb-2024 00:00	TP48-0.5	✓
EB2406402-023	22-Feb-2024 00:00	TP49-0.2	✓
EB2406402-026	22-Feb-2024 00:00	TP50-0.1	✓
EB2406402-033	22-Feb-2024 00:00	TP52-0.1	✓
EB2406402-036	22-Feb-2024 00:00	TP53-0.2	✓
EB2406402-039	22-Feb-2024 00:00	TP54-0.1	✓
EB2406402-042	22-Feb-2024 00:00	TP55-0.1	✓
EB2406402-043	22-Feb-2024 00:00	TP55-0.5	✓
EB2406402-050	22-Feb-2024 00:00	TP58-0.1	✓
EB2406402-055	22-Feb-2024 00:00	TP60-0.1	✓
EB2406402-057	22-Feb-2024 00:00	TP61-0.1	✓
EB2406402-065	22-Feb-2024 00:00	TP65-0.1	✓
EB2406402-067	21-Feb-2024 00:00	TP38-B1	✓
EB2406402-068	22-Feb-2024 00:00	TP55-B1	✓
EB2406402-070	19-Feb-2024 00:00	011745	✓

Proactive Holding Time Report

Sample(s) have been received within the recommended holding times for the requested analysis.



Requested Deliverables

ALL INVOICES

- A4 - AU Tax Invoice (INV) Email admin@environmentaladvisors.com.au

ANDREW WINTERS

- *AU Certificate of Analysis - NATA (COA) Email andrew@environmentaladvisors.com.au
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI) Email andrew@environmentaladvisors.com.au
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC) Email andrew@environmentaladvisors.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN) Email andrew@environmentaladvisors.com.au
- Chain of Custody (CoC) (COC) Email andrew@environmentaladvisors.com.au
- EDI Format - XTab (XTAB) Email andrew@environmentaladvisors.com.au

Inter-Laboratory Testing

Analysis conducted by ALS Melbourne, NATA accreditation no. 825, site no. 13778 (Chemistry).
(SOIL) EA200: AS 4964 - 2004 Identification of Asbestos in Soils



CERTIFICATE OF ANALYSIS

Work Order : **EB2406402**
Client : **ENVIRONMENTAL ADVISORS**
Contact : ANDREW WINTERS
Address : PO BOX 505
BUDDINA QLD 4575
Telephone : ----
Project : 125 NSC LAKE McDONALD DVE, COOROY
Order number : ----
C-O-C number : ----
Sampler : ANDREW WINTERS
Site : ----
Quote number : EB23ENVADV0001 V2
No. of samples received : 83
No. of samples analysed : 71

Page : 1 of 131
Laboratory : Environmental Division Brisbane
Contact : Customer Services EB
Address : 2 Byth Street Stafford QLD Australia 4053
Telephone : +61 7 3243 7222
Date Samples Received : 24-Feb-2024 13:00
Date Analysis Commenced : 27-Feb-2024
Issue Date : 08-Mar-2024 14:53



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
- Descriptive 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
Beatriz Llarinas	Senior Chemist - Inorganics	Brisbane Inorganics, Stafford, QLD
Beatriz Llarinas	Senior Chemist - Inorganics	Brisbane Soil Preparation, Stafford, QLD
Kirsty Watson	Senior Chemist - Organics	Brisbane Organics, Stafford, QLD
MINNIE TRAN	Approved Asbestos Identifier	Melbourne Asbestos, Springvale, VIC
Timothy Creagh	Senior Chemist - Organics	Brisbane Organics, Stafford, QLD



General Comments

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

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

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

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contract for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting
ø = ALS is not NATA accredited for these tests.
~ = Indicates an estimated value.

- Benzo(a)pyrene Toxicity Equivalent Quotient (TEQ) per the NEPM (2013) is the sum total of the concentration of the eight carcinogenic PAHs multiplied by their Toxicity Equivalence Factor (TEF) relative to Benzo(a)pyrene. TEF values are provided in brackets as follows: Benz(a)anthracene (0.1), Chrysene (0.01), Benzo(b+j) & Benzo(k)fluoranthene (0.1), Benzo(a)pyrene (1.0), Indeno(1.2.3.cd)pyrene (0.1), Dibenz(a,h)anthracene (1.0), Benzo(g,h,i)perylene (0.01). Less than LOR results for 'TEQ Zero' are treated as zero, for 'TEQ 1/2LOR' are treated as half the reported LOR, and for 'TEQ LOR' are treated as being equal to the reported LOR. Note: TEQ 1/2LOR and TEQ LOR will calculate as 0.6mg/Kg and 1.2mg/Kg respectively for samples with non-detects for all of the eight TEQ PAHs.
- EA200: Asbestos Identification Samples were analysed by Polarised Light Microscopy including dispersion staining.
- 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.
- **Asbestos Identification will be conducted by ALS Melbourne, NATA accreditation no. 825, site no 13778**
- **EA200 Legend**
- EA200 'Am' Amosite (brown asbestos)
- EA200 'Cr' Crocidolite (blue asbestos)
- EA200 'Ch' Chrysotile (white asbestos)
- EA200: 'UMF' Unknown Mineral Fibres. "-" indicates fibres detected may or may not be asbestos fibres. Confirmation by alternative techniques is recommended.
- EA200: Analysis of asbestos from swabs and tapes is not covered under the current scope of NATA accreditation.
- EP080 - TRH Volatiles/BTEX: Sample 'TP48-0.5' (EB2406402-021) shows poor matrix spike results due to sample heterogeneity. Confirmed by visual inspection.
- EP068 Pesticides by GCMS : High surrogate recovery for sample "TP46-0.2" (EB2406402_014) deemed acceptable as associated results are less than LOR.
- EP080 - TRH Volatiles/BTEX: High LCS recovery deemed acceptable as all associated analyte results are less than LOR
- EG005T (Total Metals by ICP-AES): TP48-0.2 (EB2406402-020) shows poor duplicate results due to sample heterogeneity. This has been confirmed by visual inspection.
- EP075: Where reported, 'Sum of PAH' is the sum of the USEPA 16 priority PAHs
- EA200 'Trace' - Asbestos fibres ("Free Fibres") detected by trace analysis per AS4964. The result can be interpreted that the sample contains detectable 'respirable' asbestos fibres
- 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.



- EA200: For samples larger than 30g, the <2mm fraction may be sub-sampled prior to trace analysis as outlined in ISO23909:2008(E) Sect 6.3.2-2
 - EA200: 'Yes' - Asbestos detected by polarised light microscopy including dispersion staining.
 - EA200: 'No*' - No asbestos found, at the reporting limit of 0.1g/kg, by polarised light microscopy including dispersion staining. Asbestos material was detected and positively identified at concentrations estimated to be below 0.1g/kg.
 - EA200: 'No' - No asbestos found at the reporting limit 0.1g/kg, by polarised light microscopy including dispersion staining.
 - EA200: N/A - Not Applicable
 - EP231: Stable isotope enriched internal standards are added to samples prior to extraction. Target compounds have a direct analogous internal standard with the exception of PFPeS, PFHpA, PFDS, PFTrDA and 10:2 FTS. These compounds use an internal standard that is chemically related and has a retention time close to that of the target compound. The DQO for internal standard response is 50-150% of that established at initial calibration. PFOS is quantified using a certified, traceable standard consisting of linear and branched PFOS isomers. These practices are in line with recommendations in the National Environmental Management Plan for PFAS (Australian HEPA) and also conform to QSM 5.3 (US DoD) requirements.
-



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP42-0.2	TP42-1.0	TP43-0.1	TP43-0.3	TP43-0.5
Sampling date / time				21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2406402-001	EB2406402-003	EB2406402-004	EB2406402-005	EB2406402-006	
				Result	Result	Result	Result	Result	
EA055: Moisture Content									
Moisture Content	----	1.0	%	----	----	22.8	----	21.4	
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	1.0	%	22.5	18.9	----	19.2	----	
EA200: AS 4964 - 2004 Identification of Asbestos in Soils									
Asbestos Detected	1332-21-4	0.1	g/kg	----	----	----	No	----	
Asbestos (Trace)	1332-21-4	-	-	----	----	----	No	----	
Asbestos Type	1332-21-4	-	--	----	----	----	-	----	
Sample weight (dry)	----	0.01	g	----	----	----	5.00	----	
APPROVED IDENTIFIER:	----	-	--	----	----	----	M. TRAN	----	
Synthetic Mineral Fibre	----	-	--	----	----	----	No	----	
Organic Fibre	----	-	--	----	----	----	No	----	
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	14	15	10	8	11	
Copper	7440-50-8	5	mg/kg	<5	<5	20	<5	<5	
Lead	7439-92-1	5	mg/kg	20	11	74	12	10	
Nickel	7440-02-0	2	mg/kg	<2	<2	2	<2	<2	
Zinc	7440-66-6	5	mg/kg	149	<5	145	31	<5	
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.1	<0.1	<0.1	
EP066: Polychlorinated Biphenyls (PCB)									
Total Polychlorinated biphenyls	----	0.1	mg/kg	----	----	----	<0.1	----	
EP068A: Organochlorine Pesticides (OC)									
alpha-BHC	319-84-6	0.05	mg/kg	----	----	----	<0.05	----	
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	----	----	----	<0.05	----	
beta-BHC	319-85-7	0.05	mg/kg	----	----	----	<0.05	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP42-0.2	TP42-1.0	TP43-0.1	TP43-0.3	TP43-0.5
Sampling date / time					21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00
Compound	CAS Number	LOR	Unit	EB2406402-001	EB2406402-003	EB2406402-004	EB2406402-005	EB2406402-006	
				Result	Result	Result	Result	Result	
EP068A: Organochlorine Pesticides (OC) - Continued									
gamma-BHC	58-89-9	0.05	mg/kg	----	----	----	<0.05	----	
delta-BHC	319-86-8	0.05	mg/kg	----	----	----	<0.05	----	
Heptachlor	76-44-8	0.05	mg/kg	----	----	----	<0.05	----	
Aldrin	309-00-2	0.05	mg/kg	----	----	----	<0.05	----	
Heptachlor epoxide	1024-57-3	0.05	mg/kg	----	----	----	<0.05	----	
[^] Total Chlordane (sum)	----	0.05	mg/kg	----	----	----	<0.05	----	
trans-Chlordane	5103-74-2	0.05	mg/kg	----	----	----	<0.05	----	
alpha-Endosulfan	959-98-8	0.05	mg/kg	----	----	----	<0.05	----	
cis-Chlordane	5103-71-9	0.05	mg/kg	----	----	----	<0.05	----	
Dieldrin	60-57-1	0.05	mg/kg	----	----	----	<0.05	----	
4,4'-DDE	72-55-9	0.05	mg/kg	----	----	----	<0.05	----	
Endrin	72-20-8	0.05	mg/kg	----	----	----	<0.05	----	
beta-Endosulfan	33213-65-9	0.05	mg/kg	----	----	----	<0.05	----	
[^] Endosulfan (sum)	115-29-7	0.05	mg/kg	----	----	----	<0.05	----	
4,4'-DDD	72-54-8	0.05	mg/kg	----	----	----	<0.05	----	
Endrin aldehyde	7421-93-4	0.05	mg/kg	----	----	----	<0.05	----	
Endosulfan sulfate	1031-07-8	0.05	mg/kg	----	----	----	<0.05	----	
4,4'-DDT	50-29-3	0.2	mg/kg	----	----	----	<0.2	----	
Endrin ketone	53494-70-5	0.05	mg/kg	----	----	----	<0.05	----	
Methoxychlor	72-43-5	0.2	mg/kg	----	----	----	<0.2	----	
[^] Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	----	----	----	<0.05	----	
[^] Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.05	mg/kg	----	----	----	<0.05	----	
EP068B: Organophosphorus Pesticides (OP)									
Dichlorvos	62-73-7	0.05	mg/kg	----	----	----	<0.05	----	
Demeton-S-methyl	919-86-8	0.05	mg/kg	----	----	----	<0.05	----	
Monocrotophos	6923-22-4	0.2	mg/kg	----	----	----	<0.2	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP42-0.2	TP42-1.0	TP43-0.1	TP43-0.3	TP43-0.5
Sampling date / time					21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00
Compound	CAS Number	LOR	Unit	EB2406402-001	EB2406402-003	EB2406402-004	EB2406402-005	EB2406402-006	
				Result	Result	Result	Result	Result	
EP068B: Organophosphorus Pesticides (OP) - Continued									
Dimethoate	60-51-5	0.05	mg/kg	----	----	----	<0.05	----	
Diazinon	333-41-5	0.05	mg/kg	----	----	----	<0.05	----	
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	----	----	----	<0.05	----	
Parathion-methyl	298-00-0	0.2	mg/kg	----	----	----	<0.2	----	
Malathion	121-75-5	0.05	mg/kg	----	----	----	<0.05	----	
Fenthion	55-38-9	0.05	mg/kg	----	----	----	<0.05	----	
Chlorpyrifos	2921-88-2	0.05	mg/kg	----	----	----	<0.05	----	
Parathion	56-38-2	0.2	mg/kg	----	----	----	<0.2	----	
Pirimphos-ethyl	23505-41-1	0.05	mg/kg	----	----	----	<0.05	----	
Chlorfenvinphos	470-90-6	0.05	mg/kg	----	----	----	<0.05	----	
Bromophos-ethyl	4824-78-6	0.05	mg/kg	----	----	----	<0.05	----	
Fenamiphos	22224-92-6	0.05	mg/kg	----	----	----	<0.05	----	
Prothiofos	34643-46-4	0.05	mg/kg	----	----	----	<0.05	----	
Ethion	563-12-2	0.05	mg/kg	----	----	----	<0.05	----	
Carbophenothion	786-19-6	0.05	mg/kg	----	----	----	<0.05	----	
Azinphos Methyl	86-50-0	0.05	mg/kg	----	----	----	<0.05	----	
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	0.5	mg/kg	----	----	----	<0.5	----	
Acenaphthylene	208-96-8	0.5	mg/kg	----	----	----	<0.5	----	
Acenaphthene	83-32-9	0.5	mg/kg	----	----	----	<0.5	----	
Fluorene	86-73-7	0.5	mg/kg	----	----	----	<0.5	----	
Phenanthrene	85-01-8	0.5	mg/kg	----	----	----	<0.5	----	
Anthracene	120-12-7	0.5	mg/kg	----	----	----	<0.5	----	
Fluoranthene	206-44-0	0.5	mg/kg	----	----	----	<0.5	----	
Pyrene	129-00-0	0.5	mg/kg	----	----	----	<0.5	----	
Benz(a)anthracene	56-55-3	0.5	mg/kg	----	----	----	<0.5	----	
Chrysene	218-01-9	0.5	mg/kg	----	----	----	<0.5	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP42-0.2	TP42-1.0	TP43-0.1	TP43-0.3	TP43-0.5
Sampling date / time					21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00
Compound	CAS Number	LOR	Unit	EB2406402-001	EB2406402-003	EB2406402-004	EB2406402-005	EB2406402-006	
				Result	Result	Result	Result	Result	
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued									
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	----	----	----	<0.5	----	
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	----	----	----	<0.5	----	
Benzo(a)pyrene	50-32-8	0.5	mg/kg	----	----	----	<0.5	----	
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	----	----	----	<0.5	----	
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	----	----	----	<0.5	----	
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	----	----	----	<0.5	----	
[^] Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	----	----	----	<0.5	----	
[^] Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	----	----	----	<0.5	----	
[^] Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	----	----	----	0.6	----	
[^] Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	----	----	----	1.2	----	
EP075A: Phenolic Compounds									
Phenol	108-95-2	0.5	mg/kg	<0.5	----	<0.5	----	<0.5	
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	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP42-0.2	TP42-1.0	TP43-0.1	TP43-0.3	TP43-0.5
Sampling date / time					21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406402-001	EB2406402-003	EB2406402-004	EB2406402-005	EB2406402-006
					Result	Result	Result	Result	Result
EP075B: Polynuclear Aromatic Hydrocarbons - Continued									
Acenaphthylene	208-96-8	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
Acenaphthene	83-32-9	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
Fluorene	86-73-7	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
Phenanthrene	85-01-8	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
Anthracene	120-12-7	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
Fluoranthene	206-44-0	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
Pyrene	129-00-0	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
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		<0.5	----	<0.5	----	<0.5
Chrysene	218-01-9	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1	mg/kg		<1	----	<1	----	<1
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		<0.5	----	<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		<0.5	----	<0.5	----	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg		0.6	----	0.6	----	0.6
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg		1.2	----	1.2	----	1.2
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



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP42-0.2	TP42-1.0	TP43-0.1	TP43-0.3	TP43-0.5
Sampling date / time					21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406402-001	EB2406402-003	EB2406402-004	EB2406402-005	EB2406402-006
					Result	Result	Result	Result	Result
EP075C: Phthalate Esters - Continued									
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
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



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP42-0.2	TP42-1.0	TP43-0.1	TP43-0.3	TP43-0.5
Sampling date / time					21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406402-001	EB2406402-003	EB2406402-004	EB2406402-005	EB2406402-006
					Result	Result	Result	Result	Result
EP075E: Nitroaromatics and Ketones - Continued									
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
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



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP42-0.2	TP42-1.0	TP43-0.1	TP43-0.3	TP43-0.5
Sampling date / time					21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00
Compound	CAS Number	LOR	Unit	EB2406402-001	EB2406402-003	EB2406402-004	EB2406402-005	EB2406402-006	
				Result	Result	Result	Result	Result	
EP075H: Anilines and Benzidines - Continued									
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	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	
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	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP42-0.2	TP42-1.0	TP43-0.1	TP43-0.3	TP43-0.5
Sampling date / time				21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2406402-001	EB2406402-003	EB2406402-004	EB2406402-005	EB2406402-006	
				Result	Result	Result	Result	Result	
EP075J: Organophosphorus Pesticides - Continued									
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	
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg	----	----	<10	<10	<10	
[^] C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	----	----	<10	<10	<10	
>C10 - C16 Fraction	----	50	mg/kg	----	----	<50	<50	<50	
>C16 - C34 Fraction	----	100	mg/kg	----	----	<100	<100	<100	
>C34 - C40 Fraction	----	100	mg/kg	----	----	<100	<100	<100	
[^] >C10 - C40 Fraction (sum)	----	50	mg/kg	----	----	<50	<50	<50	
[^] >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	----	----	<50	<50	<50	
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg	----	----	<0.2	<0.2	<0.2	
Toluene	108-88-3	0.5	mg/kg	----	----	<0.5	<0.5	<0.5	
Ethylbenzene	100-41-4	0.5	mg/kg	----	----	<0.5	<0.5	<0.5	
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	----	----	<0.5	<0.5	<0.5	
ortho-Xylene	95-47-6	0.5	mg/kg	----	----	<0.5	<0.5	<0.5	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP42-0.2	TP42-1.0	TP43-0.1	TP43-0.3	TP43-0.5
Sampling date / time				21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2406402-001	EB2406402-003	EB2406402-004	EB2406402-005	EB2406402-006	
				Result	Result	Result	Result	Result	
EP080: BTEXN - Continued									
^ Sum of BTEX	----	0.2	mg/kg	----	----	<0.2	<0.2	<0.2	
^ Total Xylenes	----	0.5	mg/kg	----	----	<0.5	<0.5	<0.5	
Naphthalene	91-20-3	1	mg/kg	----	----	<1	<1	<1	
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	----	----	<0.0002	----	
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<0.0002	----	----	<0.0002	----	
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<0.0002	----	----	<0.0002	----	
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	----	----	<0.001	----	
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	----	----	<0.0002	----	
Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<0.0002	----	----	<0.0002	----	
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	----	----	<0.0002	----	
Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<0.0002	----	----	<0.0002	----	
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	----	----	<0.0005	----	
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	----	----	<0.0005	----	
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0005	----	----	<0.0005	----	
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	----	----	<0.0005	----	
EP231P: PFAS Sums									
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg	<0.0002	----	----	<0.0002	----	
Sum of PFAS (WA DER List)	----	0.0002	mg/kg	<0.0002	----	----	<0.0002	----	
EP066S: PCB Surrogate									
Decachlorobiphenyl	2051-24-3	0.1	%	----	----	----	103	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP42-0.2	TP42-1.0	TP43-0.1	TP43-0.3	TP43-0.5
Sampling date / time				21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2406402-001	EB2406402-003	EB2406402-004	EB2406402-005	EB2406402-006	
				Result	Result	Result	Result	Result	
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.05	%	----	----	----	113	----	
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.05	%	----	----	----	91.9	----	
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	0.5	%	----	----	----	98.1	----	
2-Chlorophenol-D4	93951-73-6	0.5	%	----	----	----	93.7	----	
2,4,6-Tribromophenol	118-79-6	0.5	%	----	----	----	92.1	----	
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	0.5	%	----	----	----	96.2	----	
Anthracene-d10	1719-06-8	0.5	%	----	----	----	98.0	----	
4-Terphenyl-d14	1718-51-0	0.5	%	----	----	----	106	----	
EP075S: Acid Extractable Surrogates									
2-Fluorophenol	367-12-4	0.5	%	89.2	----	92.1	----	91.6	
Phenol-d6	13127-88-3	0.5	%	87.7	----	89.6	----	89.5	
2-Chlorophenol-D4	93951-73-6	0.5	%	92.1	----	93.7	----	95.7	
2,4,6-Tribromophenol	118-79-6	0.5	%	52.2	----	55.5	----	51.4	
EP075T: Base/Neutral Extractable Surrogates									
Nitrobenzene-D5	4165-60-0	0.5	%	81.8	----	82.6	----	83.1	
1,2-Dichlorobenzene-D4	2199-69-1	0.5	%	63.7	----	67.6	----	57.2	
2-Fluorobiphenyl	321-60-8	0.5	%	92.2	----	95.7	----	95.4	
Anthracene-d10	1719-06-8	0.5	%	97.4	----	101	----	102	
4-Terphenyl-d14	1718-51-0	0.5	%	95.8	----	100	----	100	
EP080S: TPH(V)/BTEX Surrogates									
1,2-Dichloroethane-D4	17060-07-0	0.2	%	----	----	99.9	106	96.3	
Toluene-D8	2037-26-5	0.2	%	----	----	98.2	108	99.3	
4-Bromofluorobenzene	460-00-4	0.2	%	----	----	106	113	110	
EP231S: PFAS Surrogate									



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP42-0.2	TP42-1.0	TP43-0.1	TP43-0.3	TP43-0.5
Sampling date / time					21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406402-001	EB2406402-003	EB2406402-004	EB2406402-005	EB2406402-006
					Result	Result	Result	Result	Result
EP231S: PFAS Surrogate - Continued									
13C4-PFOS	----	0.0002	%		105	----	----	95.5	----
13C8-PFOA	----	0.0002	%		99.5	----	----	86.5	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP43-1.0	TP44-0.1	TP44-0.5	TP44-1.0	TP45-0.1
Sampling date / time				21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2406402-007	EB2406402-008	EB2406402-009	EB2406402-010	EB2406402-011	
				Result	Result	Result	Result	Result	
EA055: Moisture Content									
Moisture Content	----	1.0	%	23.6	21.6	----	----	16.3	
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	1.0	%	----	----	25.5	25.1	----	
EA200: AS 4964 - 2004 Identification of Asbestos in Soils									
Asbestos Detected	1332-21-4	0.1	g/kg	----	----	----	----	No	
Asbestos (Trace)	1332-21-4	-	-	----	----	----	----	No	
Asbestos Type	1332-21-4	-	--	----	----	----	----	-	
Sample weight (dry)	----	0.01	g	----	----	----	----	15.8	
APPROVED IDENTIFIER:	----	-	--	----	----	----	----	M. TRAN	
Synthetic Mineral Fibre	----	-	--	----	----	----	----	No	
Organic Fibre	----	-	--	----	----	----	----	Yes	
EG005(ED093)T: Total Metals by ICP-AES									
Arsenic	7440-38-2	5	mg/kg	<5	<5	6	8	6	
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1	
Chromium	7440-47-3	2	mg/kg	15	13	20	18	11	
Copper	7440-50-8	5	mg/kg	<5	<5	<5	<5	24	
Lead	7439-92-1	5	mg/kg	10	13	10	7	437	
Nickel	7440-02-0	2	mg/kg	<2	<2	<2	<2	3	
Zinc	7440-66-6	5	mg/kg	<5	28	11	<5	96	
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	
EP066: Polychlorinated Biphenyls (PCB)									
Total Polychlorinated biphenyls	----	0.1	mg/kg	----	----	<0.1	<0.1	----	
EP068A: Organochlorine Pesticides (OC)									
alpha-BHC	319-84-6	0.05	mg/kg	----	----	<0.05	<0.05	----	
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	----	----	<0.05	<0.05	----	
beta-BHC	319-85-7	0.05	mg/kg	----	----	<0.05	<0.05	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP43-1.0	TP44-0.1	TP44-0.5	TP44-1.0	TP45-0.1
Sampling date / time					21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406402-007	EB2406402-008	EB2406402-009	EB2406402-010	EB2406402-011
					Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued									
gamma-BHC	58-89-9	0.05	mg/kg		----	----	<0.05	<0.05	----
delta-BHC	319-86-8	0.05	mg/kg		----	----	<0.05	<0.05	----
Heptachlor	76-44-8	0.05	mg/kg		----	----	<0.05	<0.05	----
Aldrin	309-00-2	0.05	mg/kg		----	----	<0.05	<0.05	----
Heptachlor epoxide	1024-57-3	0.05	mg/kg		----	----	<0.05	<0.05	----
[^] Total Chlordane (sum)	----	0.05	mg/kg		----	----	<0.05	<0.05	----
trans-Chlordane	5103-74-2	0.05	mg/kg		----	----	<0.05	<0.05	----
alpha-Endosulfan	959-98-8	0.05	mg/kg		----	----	<0.05	<0.05	----
cis-Chlordane	5103-71-9	0.05	mg/kg		----	----	<0.05	<0.05	----
Dieldrin	60-57-1	0.05	mg/kg		----	----	<0.05	<0.05	----
4,4'-DDE	72-55-9	0.05	mg/kg		----	----	<0.05	<0.05	----
Endrin	72-20-8	0.05	mg/kg		----	----	<0.05	<0.05	----
beta-Endosulfan	33213-65-9	0.05	mg/kg		----	----	<0.05	<0.05	----
[^] Endosulfan (sum)	115-29-7	0.05	mg/kg		----	----	<0.05	<0.05	----
4,4'-DDD	72-54-8	0.05	mg/kg		----	----	<0.05	<0.05	----
Endrin aldehyde	7421-93-4	0.05	mg/kg		----	----	<0.05	<0.05	----
Endosulfan sulfate	1031-07-8	0.05	mg/kg		----	----	<0.05	<0.05	----
4,4'-DDT	50-29-3	0.2	mg/kg		----	----	<0.2	<0.2	----
Endrin ketone	53494-70-5	0.05	mg/kg		----	----	<0.05	<0.05	----
Methoxychlor	72-43-5	0.2	mg/kg		----	----	<0.2	<0.2	----
[^] Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg		----	----	<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	----
EP068B: Organophosphorus Pesticides (OP)									
Dichlorvos	62-73-7	0.05	mg/kg		----	----	<0.05	<0.05	----
Demeton-S-methyl	919-86-8	0.05	mg/kg		----	----	<0.05	<0.05	----
Monocrotophos	6923-22-4	0.2	mg/kg		----	----	<0.2	<0.2	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP43-1.0	TP44-0.1	TP44-0.5	TP44-1.0	TP45-0.1
Sampling date / time					21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406402-007	EB2406402-008	EB2406402-009	EB2406402-010	EB2406402-011
					Result	Result	Result	Result	Result
EP068B: Organophosphorus Pesticides (OP) - Continued									
Dimethoate	60-51-5	0.05	mg/kg		----	----	<0.05	<0.05	----
Diazinon	333-41-5	0.05	mg/kg		----	----	<0.05	<0.05	----
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg		----	----	<0.05	<0.05	----
Parathion-methyl	298-00-0	0.2	mg/kg		----	----	<0.2	<0.2	----
Malathion	121-75-5	0.05	mg/kg		----	----	<0.05	<0.05	----
Fenthion	55-38-9	0.05	mg/kg		----	----	<0.05	<0.05	----
Chlorpyrifos	2921-88-2	0.05	mg/kg		----	----	<0.05	<0.05	----
Parathion	56-38-2	0.2	mg/kg		----	----	<0.2	<0.2	----
Pirimphos-ethyl	23505-41-1	0.05	mg/kg		----	----	<0.05	<0.05	----
Chlorfenvinphos	470-90-6	0.05	mg/kg		----	----	<0.05	<0.05	----
Bromophos-ethyl	4824-78-6	0.05	mg/kg		----	----	<0.05	<0.05	----
Fenamiphos	22224-92-6	0.05	mg/kg		----	----	<0.05	<0.05	----
Prothiofos	34643-46-4	0.05	mg/kg		----	----	<0.05	<0.05	----
Ethion	563-12-2	0.05	mg/kg		----	----	<0.05	<0.05	----
Carbophenothion	786-19-6	0.05	mg/kg		----	----	<0.05	<0.05	----
Azinphos Methyl	86-50-0	0.05	mg/kg		----	----	<0.05	<0.05	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	0.5	mg/kg		----	----	<0.5	<0.5	----
Acenaphthylene	208-96-8	0.5	mg/kg		----	----	<0.5	<0.5	----
Acenaphthene	83-32-9	0.5	mg/kg		----	----	<0.5	<0.5	----
Fluorene	86-73-7	0.5	mg/kg		----	----	<0.5	<0.5	----
Phenanthrene	85-01-8	0.5	mg/kg		----	----	<0.5	<0.5	----
Anthracene	120-12-7	0.5	mg/kg		----	----	<0.5	<0.5	----
Fluoranthene	206-44-0	0.5	mg/kg		----	----	<0.5	<0.5	----
Pyrene	129-00-0	0.5	mg/kg		----	----	<0.5	<0.5	----
Benz(a)anthracene	56-55-3	0.5	mg/kg		----	----	<0.5	<0.5	----
Chrysene	218-01-9	0.5	mg/kg		----	----	<0.5	<0.5	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP43-1.0	TP44-0.1	TP44-0.5	TP44-1.0	TP45-0.1
Sampling date / time					21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406402-007	EB2406402-008	EB2406402-009	EB2406402-010	EB2406402-011
					Result	Result	Result	Result	Result
EP080: BTEXN - Continued									
Toluene	108-88-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of BTEX	----	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
^ Total Xylenes	----	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene	91-20-3	1	mg/kg		<1	<1	<1	<1	<1
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg		----	----	----	----	<0.0002
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg		----	----	----	----	<0.0002
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg		----	----	----	----	<0.0002
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg		----	----	----	----	<0.001
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg		----	----	----	----	<0.0002
Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg		----	----	----	----	<0.0002
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg		----	----	----	----	<0.0002
Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg		----	----	----	----	<0.0002
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg		----	----	----	----	<0.0005
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg		----	----	----	----	<0.0005
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg		----	----	----	----	<0.0005
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg		----	----	----	----	<0.0005
EP231P: PFAS Sums									



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP43-1.0	TP44-0.1	TP44-0.5	TP44-1.0	TP45-0.1
Sampling date / time				21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2406402-007	EB2406402-008	EB2406402-009	EB2406402-010	EB2406402-011	
				Result	Result	Result	Result	Result	
EP231P: PFAS Sums - Continued									
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg	----	----	----	----	<0.0002	
Sum of PFAS (WA DER List)	----	0.0002	mg/kg	----	----	----	----	<0.0002	
EP066S: PCB Surrogate									
Decachlorobiphenyl	2051-24-3	0.1	%	----	----	102	99.6	----	
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.05	%	----	----	114	111	----	
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.05	%	----	----	96.7	92.1	----	
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	0.5	%	----	----	96.0	95.3	----	
2-Chlorophenol-D4	93951-73-6	0.5	%	----	----	93.2	89.2	----	
2,4,6-Tribromophenol	118-79-6	0.5	%	----	----	88.9	84.3	----	
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	0.5	%	----	----	95.3	90.3	----	
Anthracene-d10	1719-06-8	0.5	%	----	----	94.6	94.2	----	
4-Terphenyl-d14	1718-51-0	0.5	%	----	----	108	106	----	
EP080S: TPH(V)/BTEX Surrogates									
1,2-Dichloroethane-D4	17060-07-0	0.2	%	104	103	98.5	93.9	105	
Toluene-D8	2037-26-5	0.2	%	104	106	102	105	111	
4-Bromofluorobenzene	460-00-4	0.2	%	108	111	112	116	118	
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.0002	%	----	----	----	----	86.5	
13C8-PFOA	----	0.0002	%	----	----	----	----	94.0	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP45-0.5	TP45-1.0	TP46-0.2	TP46-0.5	TP46-1.0
Sampling date / time				21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2406402-012	EB2406402-013	EB2406402-014	EB2406402-015	EB2406402-016	
				Result	Result	Result	Result	Result	
EA055: Moisture Content									
Moisture Content	----	1.0	%	----	20.6	----	----	19.9	
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	1.0	%	20.2	----	17.8	20.3	----	
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	24	26	12	16	14	
Copper	7440-50-8	5	mg/kg	<5	<5	16	<5	<5	
Lead	7439-92-1	5	mg/kg	13	11	145	8	7	
Nickel	7440-02-0	2	mg/kg	<2	<2	2	<2	<2	
Zinc	7440-66-6	5	mg/kg	28	18	293	<5	<5	
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	
EP066: Polychlorinated Biphenyls (PCB)									
Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	----	<0.1	<0.1	----	
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	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	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP45-0.5	TP45-1.0	TP46-0.2	TP46-0.5	TP46-1.0
Sampling date / time					21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406402-012	EB2406402-013	EB2406402-014	EB2406402-015	EB2406402-016
					Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued									
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	----
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	72-54-8/72-55-9/5-0-2	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	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP45-0.5	TP45-1.0	TP46-0.2	TP46-0.5	TP46-1.0
Sampling date / time					21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406402-012	EB2406402-013	EB2406402-014	EB2406402-015	EB2406402-016
					Result	Result	Result	Result	Result
EP068B: Organophosphorus Pesticides (OP) - Continued									
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	----
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		<0.5	----	<0.5	<0.5	----
Anthracene	120-12-7	0.5	mg/kg		<0.5	----	<0.5	<0.5	----
Fluoranthene	206-44-0	0.5	mg/kg		<0.5	----	<0.5	<0.5	----
Pyrene	129-00-0	0.5	mg/kg		<0.5	----	<0.5	<0.5	----
Benz(a)anthracene	56-55-3	0.5	mg/kg		<0.5	----	<0.5	<0.5	----
Chrysene	218-01-9	0.5	mg/kg		<0.5	----	<0.5	<0.5	----
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg		<0.5	----	<0.5	<0.5	----
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg		<0.5	----	<0.5	<0.5	----
Benzo(a)pyrene	50-32-8	0.5	mg/kg		<0.5	----	<0.5	<0.5	----
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg		<0.5	----	<0.5	<0.5	----
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg		<0.5	----	<0.5	<0.5	----
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg		<0.5	----	<0.5	<0.5	----
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg		<0.5	----	<0.5	<0.5	----
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg		<0.5	----	<0.5	<0.5	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP45-0.5	TP45-1.0	TP46-0.2	TP46-0.5	TP46-1.0
Sampling date / time					21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00
Compound	CAS Number	LOR	Unit	EB2406402-012	EB2406402-013	EB2406402-014	EB2406402-015	EB2406402-016	
				Result	Result	Result	Result	Result	
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued									
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	0.6	----	0.6	0.6	----	
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	1.2	----	1.2	1.2	----	
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	10	mg/kg	<10	<10	<10	<10	<10	
C10 - C14 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50	
C15 - C28 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100	
C29 - C36 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100	
^ C10 - C36 Fraction (sum)	----	50	mg/kg	<50	<50	<50	<50	<50	
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	<10	<10	<10	
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<10	<10	<10	<10	<10	
>C10 - C16 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50	
>C16 - C34 Fraction	----	100	mg/kg	<100	<100	120	<100	<100	
>C34 - C40 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100	
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	<50	120	<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	
EP066S: PCB Surrogate									



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP45-0.5	TP45-1.0	TP46-0.2	TP46-0.5	TP46-1.0
Sampling date / time				21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00
Compound	CAS Number	LOR	Unit	EB2406402-012	EB2406402-013	EB2406402-014	EB2406402-015	EB2406402-016	
				Result	Result	Result	Result	Result	
EP066S: PCB Surrogate - Continued									
Decachlorobiphenyl	2051-24-3	0.1	%	129	----	99.8	101	----	
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.05	%	136	----	155	115	----	
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.05	%	114	----	112	102	----	
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	0.5	%	124	----	96.0	97.5	----	
2-Chlorophenol-D4	93951-73-6	0.5	%	119	----	91.0	94.2	----	
2.4.6-Tribromophenol	118-79-6	0.5	%	110	----	96.2	89.8	----	
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	0.5	%	121	----	94.3	89.4	----	
Anthracene-d10	1719-06-8	0.5	%	122	----	97.2	95.3	----	
4-Terphenyl-d14	1718-51-0	0.5	%	137	----	110	107	----	
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	0.2	%	105	105	104	95.6	110	
Toluene-D8	2037-26-5	0.2	%	108	105	112	105	110	
4-Bromofluorobenzene	460-00-4	0.2	%	112	115	119	112	126	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP47-0.2	TP47-0.5	TP47-1.0	TP48-0.2	TP48-0.5
Sampling date / time				21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00
Compound	CAS Number	LOR	Unit	EB2406402-017	EB2406402-018	EB2406402-019	EB2406402-020	EB2406402-021	EB2406402-021
				Result	Result	Result	Result	Result	Result
EA055: Moisture Content									
Moisture Content	----	1.0	%	----	19.4	17.8	----	----	----
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	1.0	%	18.3	----	----	19.6	19.2	----
EA200: AS 4964 - 2004 Identification of Asbestos in Soils									
Asbestos Detected	1332-21-4	0.1	g/kg	No	----	----	No	No	No
Asbestos (Trace)	1332-21-4	-	-	No	----	----	No	No	No
Asbestos Type	1332-21-4	-	--	-	----	----	-	-	-
Sample weight (dry)	----	0.01	g	7.40	----	----	11.4	4.20	----
APPROVED IDENTIFIER:	----	-	--	M. TRAN	----	----	M. TRAN	M. TRAN	----
Synthetic Mineral Fibre	----	-	--	No	----	----	No	No	No
Organic Fibre	----	-	--	Yes	----	----	Yes	No	No
EG005(ED093)T: Total Metals by ICP-AES									
Arsenic	7440-38-2	5	mg/kg	<5	<5	<5	5	<5	<5
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1	<1
Chromium	7440-47-3	2	mg/kg	10	12	7	11	10	10
Copper	7440-50-8	5	mg/kg	115	<5	<5	32	6	6
Lead	7439-92-1	5	mg/kg	208	11	10	216	31	31
Nickel	7440-02-0	2	mg/kg	4	<2	<2	9	2	2
Zinc	7440-66-6	5	mg/kg	618	<5	<5	581	265	265
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.1	mg/kg	0.2	<0.1	<0.1	0.7	<0.1	<0.1
EP066: Polychlorinated Biphenyls (PCB)									
Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	----	----	<0.1	<0.1	<0.1
EP068A: Organochlorine Pesticides (OC)									
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	----	----	<0.05	<0.05	<0.05
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	----	----	<0.05	<0.05	<0.05
beta-BHC	319-85-7	0.05	mg/kg	<0.05	----	----	<0.05	<0.05	<0.05



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP47-0.2	TP47-0.5	TP47-1.0	TP48-0.2	TP48-0.5
Sampling date / time					21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406402-017	EB2406402-018	EB2406402-019	EB2406402-020	EB2406402-021
					Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued									
gamma-BHC	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
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	72-54-8/72-55-9/5-0-2	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



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP47-0.2	TP47-0.5	TP47-1.0	TP48-0.2	TP48-0.5
Sampling date / time					21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406402-017	EB2406402-018	EB2406402-019	EB2406402-020	EB2406402-021
					Result	Result	Result	Result	Result
EP068B: Organophosphorus Pesticides (OP) - Continued									
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
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		<0.5	----	----	<0.5	<0.5
Anthracene	120-12-7	0.5	mg/kg		<0.5	----	----	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg		<0.5	----	----	<0.5	<0.5
Pyrene	129-00-0	0.5	mg/kg		<0.5	----	----	<0.5	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg		<0.5	----	----	<0.5	<0.5
Chrysene	218-01-9	0.5	mg/kg		<0.5	----	----	<0.5	<0.5



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP47-0.2	TP47-0.5	TP47-1.0	TP48-0.2	TP48-0.5
Sampling date / time					21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00
Compound	CAS Number	LOR	Unit	EB2406402-017	EB2406402-018	EB2406402-019	EB2406402-020	EB2406402-021	
				Result	Result	Result	Result	Result	
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued									
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	----	----	<0.5	<0.5	
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	----	----	<0.5	<0.5	
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	----	----	<0.5	<0.5	
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	----	----	<0.5	<0.5	
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	----	----	<0.5	<0.5	
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	----	----	<0.5	<0.5	
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	----	----	<0.5	<0.5	
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	----	----	<0.5	<0.5	
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	0.6	----	----	0.6	0.6	
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	1.2	----	----	1.2	1.2	
EP075A: Phenolic Compounds									
Phenol	108-95-2	0.5	mg/kg	<0.5	<0.5	----	----	----	
2-Chlorophenol	95-57-8	0.5	mg/kg	<0.5	<0.5	----	----	----	
2-Methylphenol	95-48-7	0.5	mg/kg	<0.5	<0.5	----	----	----	
3- & 4-Methylphenol	1319-77-3	0.5	mg/kg	<0.5	<0.5	----	----	----	
2-Nitrophenol	88-75-5	0.5	mg/kg	<0.5	<0.5	----	----	----	
2.4-Dimethylphenol	105-67-9	0.5	mg/kg	<0.5	<0.5	----	----	----	
2.4-Dichlorophenol	120-83-2	0.5	mg/kg	<0.5	<0.5	----	----	----	
2.6-Dichlorophenol	87-65-0	0.5	mg/kg	<0.5	<0.5	----	----	----	
4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg	<0.5	<0.5	----	----	----	
2.4.6-Trichlorophenol	88-06-2	0.5	mg/kg	<0.5	<0.5	----	----	----	
2.4.5-Trichlorophenol	95-95-4	0.5	mg/kg	<0.5	<0.5	----	----	----	
Pentachlorophenol	87-86-5	1	mg/kg	<1	<1	----	----	----	
EP075B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	----	----	----	
2-Methylnaphthalene	91-57-6	0.5	mg/kg	<0.5	<0.5	----	----	----	
2-Chloronaphthalene	91-58-7	0.5	mg/kg	<0.5	<0.5	----	----	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP47-0.2	TP47-0.5	TP47-1.0	TP48-0.2	TP48-0.5
Sampling date / time					21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406402-017	EB2406402-018	EB2406402-019	EB2406402-020	EB2406402-021
					Result	Result	Result	Result	Result
EP075B: Polynuclear Aromatic Hydrocarbons - Continued									
Acenaphthylene	208-96-8	0.5	mg/kg		<0.5	<0.5	----	----	----
Acenaphthene	83-32-9	0.5	mg/kg		<0.5	<0.5	----	----	----
Fluorene	86-73-7	0.5	mg/kg		<0.5	<0.5	----	----	----
Phenanthrene	85-01-8	0.5	mg/kg		<0.5	<0.5	----	----	----
Anthracene	120-12-7	0.5	mg/kg		<0.5	<0.5	----	----	----
Fluoranthene	206-44-0	0.5	mg/kg		<0.5	<0.5	----	----	----
Pyrene	129-00-0	0.5	mg/kg		<0.5	<0.5	----	----	----
N-2-Fluorenyl Acetamide	53-96-3	0.5	mg/kg		<0.5	<0.5	----	----	----
Benz(a)anthracene	56-55-3	0.5	mg/kg		<0.5	<0.5	----	----	----
Chrysene	218-01-9	0.5	mg/kg		<0.5	<0.5	----	----	----
Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1	mg/kg		<1	<1	----	----	----
7.12-Dimethylbenz(a)anthracene	57-97-6	0.5	mg/kg		<0.5	<0.5	----	----	----
Benzo(a)pyrene	50-32-8	0.5	mg/kg		<0.5	<0.5	----	----	----
3-Methylcholanthrene	56-49-5	0.5	mg/kg		<0.5	<0.5	----	----	----
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg		<0.5	<0.5	----	----	----
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg		<0.5	<0.5	----	----	----
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg		<0.5	<0.5	----	----	----
^ Sum of PAHs	----	0.5	mg/kg		<0.5	<0.5	----	----	----
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg		<0.5	<0.5	----	----	----
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg		0.6	0.6	----	----	----
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg		1.2	1.2	----	----	----
EP075C: Phthalate Esters									
Dimethyl phthalate	131-11-3	0.5	mg/kg		<0.5	<0.5	----	----	----
Diethyl phthalate	84-66-2	0.5	mg/kg		<0.5	<0.5	----	----	----
Di-n-butyl phthalate	84-74-2	0.5	mg/kg		<0.5	<0.5	----	----	----
Butyl benzyl phthalate	85-68-7	0.5	mg/kg		<0.5	<0.5	----	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP47-0.2	TP47-0.5	TP47-1.0	TP48-0.2	TP48-0.5
Sampling date / time					21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406402-017	EB2406402-018	EB2406402-019	EB2406402-020	EB2406402-021
					Result	Result	Result	Result	Result
EP075C: Phthalate Esters - Continued									
bis(2-ethylhexyl) phthalate	117-81-7	5.0	mg/kg		<5.0	<5.0	----	----	----
Di-n-octylphthalate	117-84-0	0.5	mg/kg		<0.5	<0.5	----	----	----
EP075D: Nitrosamines									
N-Nitrosomethylethylamine	10595-95-6	0.5	mg/kg		<0.5	<0.5	----	----	----
N-Nitrosodiethylamine	55-18-5	0.5	mg/kg		<0.5	<0.5	----	----	----
N-Nitrosopyrrolidine	930-55-2	1.0	mg/kg		<1.0	<1.0	----	----	----
N-Nitrosomorpholine	59-89-2	0.5	mg/kg		<0.5	<0.5	----	----	----
N-Nitrosodi-n-propylamine	621-64-7	0.5	mg/kg		<0.5	<0.5	----	----	----
N-Nitrosopiperidine	100-75-4	0.5	mg/kg		<0.5	<0.5	----	----	----
N-Nitrosodibutylamine	924-16-3	0.5	mg/kg		<0.5	<0.5	----	----	----
N-Nitrosodiphenyl & Diphenylamine	86-30-6 122-39-4	1.0	mg/kg		<1.0	<1.0	----	----	----
Methapyrilene	91-80-5	0.5	mg/kg		<0.5	<0.5	----	----	----
EP075E: Nitroaromatics and Ketones									
2-Picoline	109-06-8	0.5	mg/kg		<0.5	<0.5	----	----	----
Acetophenone	98-86-2	0.5	mg/kg		<0.5	<0.5	----	----	----
Nitrobenzene	98-95-3	0.5	mg/kg		<0.5	<0.5	----	----	----
Isophorone	78-59-1	0.5	mg/kg		<0.5	<0.5	----	----	----
2,6-Dinitrotoluene	606-20-2	1.0	mg/kg		<1.0	<1.0	----	----	----
2,4-Dinitrotoluene	121-14-2	1.0	mg/kg		<1.0	<1.0	----	----	----
1-Naphthylamine	134-32-7	0.5	mg/kg		<0.5	<0.5	----	----	----
4-Nitroquinoline-N-oxide	56-57-5	0.5	mg/kg		<0.5	<0.5	----	----	----
5-Nitro-o-toluidine	99-55-8	0.5	mg/kg		<0.5	<0.5	----	----	----
Azobenzene	103-33-3	1	mg/kg		<1	<1	----	----	----
1,3,5-Trinitrobenzene	99-35-4	0.5	mg/kg		<0.5	<0.5	----	----	----
Phenacetin	62-44-2	0.5	mg/kg		<0.5	<0.5	----	----	----
4-Aminobiphenyl	92-67-1	0.5	mg/kg		<0.5	<0.5	----	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP47-0.2	TP47-0.5	TP47-1.0	TP48-0.2	TP48-0.5
Sampling date / time					21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406402-017	EB2406402-018	EB2406402-019	EB2406402-020	EB2406402-021
					Result	Result	Result	Result	Result
EP075E: Nitroaromatics and Ketones - Continued									
Pentachloronitrobenzene	82-68-8	0.5	mg/kg		<0.5	<0.5	----	----	----
Pronamide	23950-58-5	0.5	mg/kg		<0.5	<0.5	----	----	----
Dimethylaminoazobenzene	60-11-7	0.5	mg/kg		<0.5	<0.5	----	----	----
Chlorobenzilate	510-15-6	0.5	mg/kg		<0.5	<0.5	----	----	----
EP075F: Haloethers									
Bis(2-chloroethyl) ether	111-44-4	0.5	mg/kg		<0.5	<0.5	----	----	----
Bis(2-chloroethoxy) methane	111-91-1	0.5	mg/kg		<0.5	<0.5	----	----	----
4-Chlorophenyl phenyl ether	7005-72-3	0.5	mg/kg		<0.5	<0.5	----	----	----
4-Bromophenyl phenyl ether	101-55-3	0.5	mg/kg		<0.5	<0.5	----	----	----
EP075G: Chlorinated Hydrocarbons									
1,3-Dichlorobenzene	541-73-1	0.5	mg/kg		<0.5	<0.5	----	----	----
1,4-Dichlorobenzene	106-46-7	0.5	mg/kg		<0.5	<0.5	----	----	----
1,2-Dichlorobenzene	95-50-1	0.5	mg/kg		<0.5	<0.5	----	----	----
Hexachloroethane	67-72-1	0.5	mg/kg		<0.5	<0.5	----	----	----
1,2,4-Trichlorobenzene	120-82-1	0.5	mg/kg		<0.5	<0.5	----	----	----
Hexachloropropylene	1888-71-7	0.5	mg/kg		<0.5	<0.5	----	----	----
Hexachlorobutadiene	87-68-3	0.5	mg/kg		<0.5	<0.5	----	----	----
Hexachlorocyclopentadiene	77-47-4	2.5	mg/kg		<2.5	<2.5	----	----	----
Pentachlorobenzene	608-93-5	0.5	mg/kg		<0.5	<0.5	----	----	----
Hexachlorobenzene (HCB)	118-74-1	1.0	mg/kg		<1.0	<1.0	----	----	----
EP075H: Anilines and Benzidines									
Aniline	62-53-3	0.5	mg/kg		<0.5	<0.5	----	----	----
4-Chloroaniline	106-47-8	0.5	mg/kg		<0.5	<0.5	----	----	----
2-Nitroaniline	88-74-4	1.0	mg/kg		<1.0	<1.0	----	----	----
3-Nitroaniline	99-09-2	1.0	mg/kg		<1.0	<1.0	----	----	----
Dibenzofuran	132-64-9	0.5	mg/kg		<0.5	<0.5	----	----	----
4-Nitroaniline	100-01-6	0.5	mg/kg		<0.5	<0.5	----	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP47-0.2	TP47-0.5	TP47-1.0	TP48-0.2	TP48-0.5
Sampling date / time					21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406402-017	EB2406402-018	EB2406402-019	EB2406402-020	EB2406402-021
					Result	Result	Result	Result	Result
EP075H: Anilines and Benzidines - Continued									
Carbazole	86-74-8	0.5	mg/kg		<0.5	<0.5	----	----	----
3,3'-Dichlorobenzidine	91-94-1	0.5	mg/kg		<0.5	<0.5	----	----	----
EP075I: Organochlorine Pesticides									
alpha-BHC	319-84-6	0.5	mg/kg		<0.5	<0.5	----	----	----
beta-BHC	319-85-7	0.5	mg/kg		<0.5	<0.5	----	----	----
gamma-BHC	58-89-9	0.5	mg/kg		<0.5	<0.5	----	----	----
delta-BHC	319-86-8	0.5	mg/kg		<0.5	<0.5	----	----	----
Heptachlor	76-44-8	0.5	mg/kg		<0.5	<0.5	----	----	----
Aldrin	309-00-2	0.5	mg/kg		<0.5	<0.5	----	----	----
Heptachlor epoxide	1024-57-3	0.5	mg/kg		<0.5	<0.5	----	----	----
alpha-Endosulfan	959-98-8	0.5	mg/kg		<0.5	<0.5	----	----	----
4,4'-DDE	72-55-9	0.5	mg/kg		<0.5	<0.5	----	----	----
Dieldrin	60-57-1	0.5	mg/kg		<0.5	<0.5	----	----	----
Endrin	72-20-8	0.5	mg/kg		<0.5	<0.5	----	----	----
beta-Endosulfan	33213-65-9	0.5	mg/kg		<0.5	<0.5	----	----	----
4,4'-DDD	72-54-8	0.5	mg/kg		<0.5	<0.5	----	----	----
Endosulfan sulfate	1031-07-8	0.5	mg/kg		<0.5	<0.5	----	----	----
4,4'-DDT	50-29-3	1.0	mg/kg		<1.0	<1.0	----	----	----
[^] Sum of DDD + DDE + DDT	72-54-8/72-55-9/5 0-2	0.5	mg/kg		<0.5	<0.5	----	----	----
[^] Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.5	mg/kg		<0.5	<0.5	----	----	----
EP075J: Organophosphorus Pesticides									
Dichlorvos	62-73-7	0.5	mg/kg		<0.5	<0.5	----	----	----
Dimethoate	60-51-5	0.5	mg/kg		<0.5	<0.5	----	----	----
Diazinon	333-41-5	0.5	mg/kg		<0.5	<0.5	----	----	----
Chlorpyrifos-methyl	5598-13-0	0.5	mg/kg		<0.5	<0.5	----	----	----
Malathion	121-75-5	0.5	mg/kg		<0.5	<0.5	----	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP47-0.2	TP47-0.5	TP47-1.0	TP48-0.2	TP48-0.5
Sampling date / time					21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406402-017	EB2406402-018	EB2406402-019	EB2406402-020	EB2406402-021
					Result	Result	Result	Result	Result
EP075J: Organophosphorus Pesticides - Continued									
Fenthion	55-38-9	0.5	mg/kg		<0.5	<0.5	----	----	----
Chlorpyrifos	2921-88-2	0.5	mg/kg		<0.5	<0.5	----	----	----
Pirimphos-ethyl	23505-41-1	0.5	mg/kg		<0.5	<0.5	----	----	----
Chlorfenvinphos	470-90-6	0.5	mg/kg		<0.5	<0.5	----	----	----
Prothiofos	34643-46-4	0.5	mg/kg		<0.5	<0.5	----	----	----
Ethion	563-12-2	0.5	mg/kg		<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
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg		<10	<10	<10	<10	<10
[^] C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg		<10	<10	<10	<10	<10
>C10 - C16 Fraction	----	50	mg/kg		<50	<50	<50	<50	<50
>C16 - C34 Fraction	----	100	mg/kg		<100	<100	<100	<100	<100
>C34 - C40 Fraction	----	100	mg/kg		<100	<100	<100	<100	<100
[^] >C10 - C40 Fraction (sum)	----	50	mg/kg		<50	<50	<50	<50	<50
[^] >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg		<50	<50	<50	<50	<50
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP47-0.2	TP47-0.5	TP47-1.0	TP48-0.2	TP48-0.5
Sampling date / time					21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406402-017	EB2406402-018	EB2406402-019	EB2406402-020	EB2406402-021
					Result	Result	Result	Result	Result
EP080: BTEXN - Continued									
^ Sum of BTEX	----	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
^ Total Xylenes	----	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene	91-20-3	1	mg/kg		<1	<1	<1	<1	<1
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg		----	----	----	<0.0002	<0.0002
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg		----	----	----	<0.0002	<0.0002
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg		----	----	----	<0.0002	<0.0002
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg		----	----	----	<0.001	<0.001
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg		----	----	----	<0.0002	<0.0002
Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg		----	----	----	<0.0002	<0.0002
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg		----	----	----	<0.0002	<0.0002
Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg		----	----	----	<0.0002	<0.0002
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg		----	----	----	<0.0005	<0.0005
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg		----	----	----	<0.0005	<0.0005
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg		----	----	----	<0.0005	<0.0005
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg		----	----	----	<0.0005	<0.0005
EP231P: PFAS Sums									
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg		----	----	----	<0.0002	<0.0002
Sum of PFAS (WA DER List)	----	0.0002	mg/kg		----	----	----	<0.0002	<0.0002
EP066S: PCB Surrogate									
Decachlorobiphenyl	2051-24-3	0.1	%		104	----	----	126	122



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP47-0.2	TP47-0.5	TP47-1.0	TP48-0.2	TP48-0.5
Sampling date / time					21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406402-017	EB2406402-018	EB2406402-019	EB2406402-020	EB2406402-021
					Result	Result	Result	Result	Result
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.05	%		131	----	----	90.4	90.5
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.05	%		119	----	----	75.4	86.9
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	0.5	%		99.9	----	----	94.1	95.5
2-Chlorophenol-D4	93951-73-6	0.5	%		97.5	----	----	90.2	94.1
2,4,6-Tribromophenol	118-79-6	0.5	%		101	----	----	76.1	73.8
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	0.5	%		100	----	----	93.7	97.1
Anthracene-d10	1719-06-8	0.5	%		98.8	----	----	91.2	88.3
4-Terphenyl-d14	1718-51-0	0.5	%		110	----	----	108	110
EP075S: Acid Extractable Surrogates									
2-Fluorophenol	367-12-4	0.5	%		92.5	90.0	----	----	----
Phenol-d6	13127-88-3	0.5	%		91.0	98.5	----	----	----
2-Chlorophenol-D4	93951-73-6	0.5	%		96.6	98.4	----	----	----
2,4,6-Tribromophenol	118-79-6	0.5	%		53.8	60.4	----	----	----
EP075T: Base/Neutral Extractable Surrogates									
Nitrobenzene-D5	4165-60-0	0.5	%		84.0	87.5	----	----	----
1,2-Dichlorobenzene-D4	2199-69-1	0.5	%		70.8	58.7	----	----	----
2-Fluorobiphenyl	321-60-8	0.5	%		97.9	105	----	----	----
Anthracene-d10	1719-06-8	0.5	%		113	122	----	----	----
4-Terphenyl-d14	1718-51-0	0.5	%		114	123	----	----	----
EP080S: TPH(V)/BTEX Surrogates									
1,2-Dichloroethane-D4	17060-07-0	0.2	%		103	98.9	103	85.2	90.8
Toluene-D8	2037-26-5	0.2	%		103	108	113	83.6	90.3
4-Bromofluorobenzene	460-00-4	0.2	%		111	116	120	106	119
EP231S: PFAS Surrogate									



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP47-0.2	TP47-0.5	TP47-1.0	TP48-0.2	TP48-0.5
Sampling date / time				21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2406402-017	EB2406402-018	EB2406402-019	EB2406402-020	EB2406402-021	
				Result	Result	Result	Result	Result	
EP231S: PFAS Surrogate - Continued									
13C4-PFOS	----	0.0002	%	----	----	----	93.0	99.5	
13C8-PFOA	----	0.0002	%	----	----	----	88.0	93.0	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP49-0.2	TP49-1.0	TP50-0.1	TP50-0.5	TP51-0.2
Sampling date / time				22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2406402-023	EB2406402-025	EB2406402-026	EB2406402-027	EB2406402-029	
				Result	Result	Result	Result	Result	
EA055: Moisture Content									
Moisture Content	----	1.0	%	18.4	----	----	----	----	
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	1.0	%	----	17.3	11.6	14.6	16.5	
EA200: AS 4964 - 2004 Identification of Asbestos in Soils									
Asbestos Detected	1332-21-4	0.1	g/kg	No	----	No	----	----	
Asbestos (Trace)	1332-21-4	-	-	No	----	No	----	----	
Asbestos Type	1332-21-4	-	--	-	----	-	----	----	
Sample weight (dry)	----	0.01	g	6.80	----	9.00	----	----	
APPROVED IDENTIFIER:	----	-	--	M. TRAN	----	M. TRAN	----	----	
Synthetic Mineral Fibre	----	-	--	No	----	No	----	----	
Organic Fibre	----	-	--	Yes	----	Yes	----	----	
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	7	6	13	13	8	
Copper	7440-50-8	5	mg/kg	12	<5	24	<5	6	
Lead	7439-92-1	5	mg/kg	59	6	42	8	49	
Nickel	7440-02-0	2	mg/kg	2	<2	3	<2	<2	
Zinc	7440-66-6	5	mg/kg	313	<5	111	11	104	
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.1	mg/kg	0.2	<0.1	<0.1	<0.1	<0.1	
EP066: Polychlorinated Biphenyls (PCB)									
Total Polychlorinated biphenyls	----	0.1	mg/kg	----	<0.1	----	----	----	
EP068A: Organochlorine Pesticides (OC)									
alpha-BHC	319-84-6	0.05	mg/kg	----	<0.05	----	----	----	
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	----	<0.05	----	----	----	
beta-BHC	319-85-7	0.05	mg/kg	----	<0.05	----	----	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP49-0.2	TP49-1.0	TP50-0.1	TP50-0.5	TP51-0.2
Sampling date / time					22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406402-023	EB2406402-025	EB2406402-026	EB2406402-027	EB2406402-029
					Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued									
gamma-BHC	58-89-9	0.05	mg/kg		----	<0.05	----	----	----
delta-BHC	319-86-8	0.05	mg/kg		----	<0.05	----	----	----
Heptachlor	76-44-8	0.05	mg/kg		----	<0.05	----	----	----
Aldrin	309-00-2	0.05	mg/kg		----	<0.05	----	----	----
Heptachlor epoxide	1024-57-3	0.05	mg/kg		----	<0.05	----	----	----
[^] Total Chlordane (sum)	----	0.05	mg/kg		----	<0.05	----	----	----
trans-Chlordane	5103-74-2	0.05	mg/kg		----	<0.05	----	----	----
alpha-Endosulfan	959-98-8	0.05	mg/kg		----	<0.05	----	----	----
cis-Chlordane	5103-71-9	0.05	mg/kg		----	<0.05	----	----	----
Dieldrin	60-57-1	0.05	mg/kg		----	<0.05	----	----	----
4,4'-DDE	72-55-9	0.05	mg/kg		----	<0.05	----	----	----
Endrin	72-20-8	0.05	mg/kg		----	<0.05	----	----	----
beta-Endosulfan	33213-65-9	0.05	mg/kg		----	<0.05	----	----	----
[^] Endosulfan (sum)	115-29-7	0.05	mg/kg		----	<0.05	----	----	----
4,4'-DDD	72-54-8	0.05	mg/kg		----	<0.05	----	----	----
Endrin aldehyde	7421-93-4	0.05	mg/kg		----	<0.05	----	----	----
Endosulfan sulfate	1031-07-8	0.05	mg/kg		----	<0.05	----	----	----
4,4'-DDT	50-29-3	0.2	mg/kg		----	<0.2	----	----	----
Endrin ketone	53494-70-5	0.05	mg/kg		----	<0.05	----	----	----
Methoxychlor	72-43-5	0.2	mg/kg		----	<0.2	----	----	----
[^] Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg		----	<0.05	----	----	----
[^] Sum of DDD + DDE + DDT	72-54-8/72-55-9/5 0-2	0.05	mg/kg		----	<0.05	----	----	----
EP068B: Organophosphorus Pesticides (OP)									
Dichlorvos	62-73-7	0.05	mg/kg		----	<0.05	----	----	----
Demeton-S-methyl	919-86-8	0.05	mg/kg		----	<0.05	----	----	----
Monocrotophos	6923-22-4	0.2	mg/kg		----	<0.2	----	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP49-0.2	TP49-1.0	TP50-0.1	TP50-0.5	TP51-0.2
Sampling date / time					22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406402-023	EB2406402-025	EB2406402-026	EB2406402-027	EB2406402-029
					Result	Result	Result	Result	Result
EP068B: Organophosphorus Pesticides (OP) - Continued									
Dimethoate	60-51-5	0.05	mg/kg		----	<0.05	----	----	----
Diazinon	333-41-5	0.05	mg/kg		----	<0.05	----	----	----
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg		----	<0.05	----	----	----
Parathion-methyl	298-00-0	0.2	mg/kg		----	<0.2	----	----	----
Malathion	121-75-5	0.05	mg/kg		----	<0.05	----	----	----
Fenthion	55-38-9	0.05	mg/kg		----	<0.05	----	----	----
Chlorpyrifos	2921-88-2	0.05	mg/kg		----	<0.05	----	----	----
Parathion	56-38-2	0.2	mg/kg		----	<0.2	----	----	----
Pirimphos-ethyl	23505-41-1	0.05	mg/kg		----	<0.05	----	----	----
Chlorfenvinphos	470-90-6	0.05	mg/kg		----	<0.05	----	----	----
Bromophos-ethyl	4824-78-6	0.05	mg/kg		----	<0.05	----	----	----
Fenamiphos	22224-92-6	0.05	mg/kg		----	<0.05	----	----	----
Prothiofos	34643-46-4	0.05	mg/kg		----	<0.05	----	----	----
Ethion	563-12-2	0.05	mg/kg		----	<0.05	----	----	----
Carbophenothion	786-19-6	0.05	mg/kg		----	<0.05	----	----	----
Azinphos Methyl	86-50-0	0.05	mg/kg		----	<0.05	----	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	0.5	mg/kg		----	<0.5	----	----	----
Acenaphthylene	208-96-8	0.5	mg/kg		----	<0.5	----	----	----
Acenaphthene	83-32-9	0.5	mg/kg		----	<0.5	----	----	----
Fluorene	86-73-7	0.5	mg/kg		----	<0.5	----	----	----
Phenanthrene	85-01-8	0.5	mg/kg		----	<0.5	----	----	----
Anthracene	120-12-7	0.5	mg/kg		----	<0.5	----	----	----
Fluoranthene	206-44-0	0.5	mg/kg		----	<0.5	----	----	----
Pyrene	129-00-0	0.5	mg/kg		----	<0.5	----	----	----
Benz(a)anthracene	56-55-3	0.5	mg/kg		----	<0.5	----	----	----
Chrysene	218-01-9	0.5	mg/kg		----	<0.5	----	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP49-0.2	TP49-1.0	TP50-0.1	TP50-0.5	TP51-0.2
Sampling date / time					22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00
Compound	CAS Number	LOR	Unit	EB2406402-023	EB2406402-025	EB2406402-026	EB2406402-027	EB2406402-029	
				Result	Result	Result	Result	Result	
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued									
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	----	<0.5	----	----	----	----
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	----	<0.5	----	----	----	----
Benzo(a)pyrene	50-32-8	0.5	mg/kg	----	<0.5	----	----	----	----
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	----	<0.5	----	----	----	----
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	----	<0.5	----	----	----	----
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	----	<0.5	----	----	----	----
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	----	<0.5	----	----	----	----
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	----	<0.5	----	----	----	----
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	----	0.6	----	----	----	----
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	----	1.2	----	----	----	----
EP075A: Phenolic Compounds									
Phenol	108-95-2	0.5	mg/kg	<0.5	----	----	----	----	----
2-Chlorophenol	95-57-8	0.5	mg/kg	<0.5	----	----	----	----	----
2-Methylphenol	95-48-7	0.5	mg/kg	<0.5	----	----	----	----	----
3- & 4-Methylphenol	1319-77-3	0.5	mg/kg	<0.5	----	----	----	----	----
2-Nitrophenol	88-75-5	0.5	mg/kg	<0.5	----	----	----	----	----
2.4-Dimethylphenol	105-67-9	0.5	mg/kg	<0.5	----	----	----	----	----
2.4-Dichlorophenol	120-83-2	0.5	mg/kg	<0.5	----	----	----	----	----
2.6-Dichlorophenol	87-65-0	0.5	mg/kg	<0.5	----	----	----	----	----
4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg	<0.5	----	----	----	----	----
2.4.6-Trichlorophenol	88-06-2	0.5	mg/kg	<0.5	----	----	----	----	----
2.4.5-Trichlorophenol	95-95-4	0.5	mg/kg	<0.5	----	----	----	----	----
Pentachlorophenol	87-86-5	1	mg/kg	<1	----	----	----	----	----
EP075B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	0.5	mg/kg	<0.5	----	----	----	----	----
2-Methylnaphthalene	91-57-6	0.5	mg/kg	<0.5	----	----	----	----	----
2-Chloronaphthalene	91-58-7	0.5	mg/kg	<0.5	----	----	----	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP49-0.2	TP49-1.0	TP50-0.1	TP50-0.5	TP51-0.2
Sampling date / time					22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406402-023	EB2406402-025	EB2406402-026	EB2406402-027	EB2406402-029
					Result	Result	Result	Result	Result
EP075B: Polynuclear Aromatic Hydrocarbons - Continued									
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	----	----	----	----	----
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	----	----	----	----	----
Fluorene	86-73-7	0.5	mg/kg	<0.5	----	----	----	----	----
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	----	----	----	----	----
Anthracene	120-12-7	0.5	mg/kg	<0.5	----	----	----	----	----
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	----	----	----	----	----
Pyrene	129-00-0	0.5	mg/kg	<0.5	----	----	----	----	----
N-2-Fluorenyl Acetamide	53-96-3	0.5	mg/kg	<0.5	----	----	----	----	----
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	----	----	----	----	----
Chrysene	218-01-9	0.5	mg/kg	<0.5	----	----	----	----	----
Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1	mg/kg	<1	----	----	----	----	----
7.12-Dimethylbenz(a)anthracene	57-97-6	0.5	mg/kg	<0.5	----	----	----	----	----
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	----	----	----	----	----
3-Methylcholanthrene	56-49-5	0.5	mg/kg	<0.5	----	----	----	----	----
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	----	----	----	----	----
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	----	----	----	----	----
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	----	----	----	----	----
^ Sum of PAHs	----	0.5	mg/kg	<0.5	----	----	----	----	----
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	----	----	----	----	----
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	0.6	----	----	----	----	----
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	1.2	----	----	----	----	----
EP075C: Phthalate Esters									
Dimethyl phthalate	131-11-3	0.5	mg/kg	<0.5	----	----	----	----	----
Diethyl phthalate	84-66-2	0.5	mg/kg	<0.5	----	----	----	----	----
Di-n-butyl phthalate	84-74-2	0.5	mg/kg	<0.5	----	----	----	----	----
Butyl benzyl phthalate	85-68-7	0.5	mg/kg	<0.5	----	----	----	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP49-0.2	TP49-1.0	TP50-0.1	TP50-0.5	TP51-0.2
Sampling date / time					22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00
Compound	CAS Number	LOR	Unit	EB2406402-023	EB2406402-025	EB2406402-026	EB2406402-027	EB2406402-029	
				Result	Result	Result	Result	Result	
EP075C: Phthalate Esters - Continued									
bis(2-ethylhexyl) phthalate	117-81-7	5.0	mg/kg	<5.0	----	----	----	----	----
Di-n-octylphthalate	117-84-0	0.5	mg/kg	<0.5	----	----	----	----	----
EP075D: Nitrosamines									
N-Nitrosomethylethylamine	10595-95-6	0.5	mg/kg	<0.5	----	----	----	----	----
N-Nitrosodiethylamine	55-18-5	0.5	mg/kg	<0.5	----	----	----	----	----
N-Nitrosopyrrolidine	930-55-2	1.0	mg/kg	<1.0	----	----	----	----	----
N-Nitrosomorpholine	59-89-2	0.5	mg/kg	<0.5	----	----	----	----	----
N-Nitrosodi-n-propylamine	621-64-7	0.5	mg/kg	<0.5	----	----	----	----	----
N-Nitrosopiperidine	100-75-4	0.5	mg/kg	<0.5	----	----	----	----	----
N-Nitrosodibutylamine	924-16-3	0.5	mg/kg	<0.5	----	----	----	----	----
N-Nitrosodiphenyl & Diphenylamine	86-30-6 122-39-4	1.0	mg/kg	<1.0	----	----	----	----	----
Methapyrilene	91-80-5	0.5	mg/kg	<0.5	----	----	----	----	----
EP075E: Nitroaromatics and Ketones									
2-Picoline	109-06-8	0.5	mg/kg	<0.5	----	----	----	----	----
Acetophenone	98-86-2	0.5	mg/kg	<0.5	----	----	----	----	----
Nitrobenzene	98-95-3	0.5	mg/kg	<0.5	----	----	----	----	----
Isophorone	78-59-1	0.5	mg/kg	<0.5	----	----	----	----	----
2,6-Dinitrotoluene	606-20-2	1.0	mg/kg	<1.0	----	----	----	----	----
2,4-Dinitrotoluene	121-14-2	1.0	mg/kg	<1.0	----	----	----	----	----
1-Naphthylamine	134-32-7	0.5	mg/kg	<0.5	----	----	----	----	----
4-Nitroquinoline-N-oxide	56-57-5	0.5	mg/kg	<0.5	----	----	----	----	----
5-Nitro-o-toluidine	99-55-8	0.5	mg/kg	<0.5	----	----	----	----	----
Azobenzene	103-33-3	1	mg/kg	<1	----	----	----	----	----
1,3,5-Trinitrobenzene	99-35-4	0.5	mg/kg	<0.5	----	----	----	----	----
Phenacetin	62-44-2	0.5	mg/kg	<0.5	----	----	----	----	----
4-Aminobiphenyl	92-67-1	0.5	mg/kg	<0.5	----	----	----	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP49-0.2	TP49-1.0	TP50-0.1	TP50-0.5	TP51-0.2
Sampling date / time					22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00
Compound	CAS Number	LOR	Unit	EB2406402-023	EB2406402-025	EB2406402-026	EB2406402-027	EB2406402-029	
				Result	Result	Result	Result	Result	
EP075E: Nitroaromatics and Ketones - Continued									
Pentachloronitrobenzene	82-68-8	0.5	mg/kg	<0.5	----	----	----	----	----
Pronamide	23950-58-5	0.5	mg/kg	<0.5	----	----	----	----	----
Dimethylaminoazobenzene	60-11-7	0.5	mg/kg	<0.5	----	----	----	----	----
Chlorobenzilate	510-15-6	0.5	mg/kg	<0.5	----	----	----	----	----
EP075F: Haloethers									
Bis(2-chloroethyl) ether	111-44-4	0.5	mg/kg	<0.5	----	----	----	----	----
Bis(2-chloroethoxy) methane	111-91-1	0.5	mg/kg	<0.5	----	----	----	----	----
4-Chlorophenyl phenyl ether	7005-72-3	0.5	mg/kg	<0.5	----	----	----	----	----
4-Bromophenyl phenyl ether	101-55-3	0.5	mg/kg	<0.5	----	----	----	----	----
EP075G: Chlorinated Hydrocarbons									
1,3-Dichlorobenzene	541-73-1	0.5	mg/kg	<0.5	----	----	----	----	----
1,4-Dichlorobenzene	106-46-7	0.5	mg/kg	<0.5	----	----	----	----	----
1,2-Dichlorobenzene	95-50-1	0.5	mg/kg	<0.5	----	----	----	----	----
Hexachloroethane	67-72-1	0.5	mg/kg	<0.5	----	----	----	----	----
1,2,4-Trichlorobenzene	120-82-1	0.5	mg/kg	<0.5	----	----	----	----	----
Hexachloropropylene	1888-71-7	0.5	mg/kg	<0.5	----	----	----	----	----
Hexachlorobutadiene	87-68-3	0.5	mg/kg	<0.5	----	----	----	----	----
Hexachlorocyclopentadiene	77-47-4	2.5	mg/kg	<2.5	----	----	----	----	----
Pentachlorobenzene	608-93-5	0.5	mg/kg	<0.5	----	----	----	----	----
Hexachlorobenzene (HCB)	118-74-1	1.0	mg/kg	<1.0	----	----	----	----	----
EP075H: Anilines and Benzidines									
Aniline	62-53-3	0.5	mg/kg	<0.5	----	----	----	----	----
4-Chloroaniline	106-47-8	0.5	mg/kg	<0.5	----	----	----	----	----
2-Nitroaniline	88-74-4	1.0	mg/kg	<1.0	----	----	----	----	----
3-Nitroaniline	99-09-2	1.0	mg/kg	<1.0	----	----	----	----	----
Dibenzofuran	132-64-9	0.5	mg/kg	<0.5	----	----	----	----	----
4-Nitroaniline	100-01-6	0.5	mg/kg	<0.5	----	----	----	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP49-0.2	TP49-1.0	TP50-0.1	TP50-0.5	TP51-0.2
Sampling date / time					22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00
Compound	CAS Number	LOR	Unit	EB2406402-023	EB2406402-025	EB2406402-026	EB2406402-027	EB2406402-029	
				Result	Result	Result	Result	Result	
EP075H: Anilines and Benzidines - Continued									
Carbazole	86-74-8	0.5	mg/kg	<0.5	----	----	----	----	----
3,3'-Dichlorobenzidine	91-94-1	0.5	mg/kg	<0.5	----	----	----	----	----
EP075I: Organochlorine Pesticides									
alpha-BHC	319-84-6	0.5	mg/kg	<0.5	----	----	----	----	----
beta-BHC	319-85-7	0.5	mg/kg	<0.5	----	----	----	----	----
gamma-BHC	58-89-9	0.5	mg/kg	<0.5	----	----	----	----	----
delta-BHC	319-86-8	0.5	mg/kg	<0.5	----	----	----	----	----
Heptachlor	76-44-8	0.5	mg/kg	<0.5	----	----	----	----	----
Aldrin	309-00-2	0.5	mg/kg	<0.5	----	----	----	----	----
Heptachlor epoxide	1024-57-3	0.5	mg/kg	<0.5	----	----	----	----	----
alpha-Endosulfan	959-98-8	0.5	mg/kg	<0.5	----	----	----	----	----
4,4'-DDE	72-55-9	0.5	mg/kg	<0.5	----	----	----	----	----
Dieldrin	60-57-1	0.5	mg/kg	<0.5	----	----	----	----	----
Endrin	72-20-8	0.5	mg/kg	<0.5	----	----	----	----	----
beta-Endosulfan	33213-65-9	0.5	mg/kg	<0.5	----	----	----	----	----
4,4'-DDD	72-54-8	0.5	mg/kg	<0.5	----	----	----	----	----
Endosulfan sulfate	1031-07-8	0.5	mg/kg	<0.5	----	----	----	----	----
4,4'-DDT	50-29-3	1.0	mg/kg	<1.0	----	----	----	----	----
[^] Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.5	mg/kg	<0.5	----	----	----	----	----
[^] Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.5	mg/kg	<0.5	----	----	----	----	----
EP075J: Organophosphorus Pesticides									
Dichlorvos	62-73-7	0.5	mg/kg	<0.5	----	----	----	----	----
Dimethoate	60-51-5	0.5	mg/kg	<0.5	----	----	----	----	----
Diazinon	333-41-5	0.5	mg/kg	<0.5	----	----	----	----	----
Chlorpyrifos-methyl	5598-13-0	0.5	mg/kg	<0.5	----	----	----	----	----
Malathion	121-75-5	0.5	mg/kg	<0.5	----	----	----	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP49-0.2	TP49-1.0	TP50-0.1	TP50-0.5	TP51-0.2
Sampling date / time				22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2406402-023	EB2406402-025	EB2406402-026	EB2406402-027	EB2406402-029	
				Result	Result	Result	Result	Result	
EP075J: Organophosphorus Pesticides - Continued									
Fenthion	55-38-9	0.5	mg/kg	<0.5	----	----	----	----	
Chlorpyrifos	2921-88-2	0.5	mg/kg	<0.5	----	----	----	----	
Pirimphos-ethyl	23505-41-1	0.5	mg/kg	<0.5	----	----	----	----	
Chlorfenvinphos	470-90-6	0.5	mg/kg	<0.5	----	----	----	----	
Prothiofos	34643-46-4	0.5	mg/kg	<0.5	----	----	----	----	
Ethion	563-12-2	0.5	mg/kg	<0.5	----	----	----	----	
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	10	mg/kg	<10	<10	----	----	----	
C10 - C14 Fraction	----	50	mg/kg	<50	<50	----	----	----	
C15 - C28 Fraction	----	100	mg/kg	<100	<100	----	----	----	
C29 - C36 Fraction	----	100	mg/kg	<100	<100	----	----	----	
[^] C10 - C36 Fraction (sum)	----	50	mg/kg	<50	<50	----	----	----	
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	----	----	----	
[^] C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<10	<10	----	----	----	
>C10 - C16 Fraction	----	50	mg/kg	<50	<50	----	----	----	
>C16 - C34 Fraction	----	100	mg/kg	<100	<100	----	----	----	
>C34 - C40 Fraction	----	100	mg/kg	<100	<100	----	----	----	
[^] >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	<50	----	----	----	
[^] >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	<50	<50	----	----	----	
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	----	----	----	
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	----	----	----	
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	----	----	----	
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	----	----	----	
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	----	----	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP49-0.2	TP49-1.0	TP50-0.1	TP50-0.5	TP51-0.2
Sampling date / time				22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2406402-023	EB2406402-025	EB2406402-026	EB2406402-027	EB2406402-029	
				Result	Result	Result	Result	Result	
EP080: BTEXN - Continued									
^ Sum of BTEX	----	0.2	mg/kg	<0.2	<0.2	----	----	----	
^ Total Xylenes	----	0.5	mg/kg	<0.5	<0.5	----	----	----	
Naphthalene	91-20-3	1	mg/kg	<1	<1	----	----	----	
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	----	----	----	----	
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<0.0002	----	----	----	----	
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<0.0002	----	----	----	----	
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	----	----	----	----	
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	----	----	----	----	
Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<0.0002	----	----	----	----	
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	----	----	----	----	
Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<0.0002	----	----	----	----	
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	----	----	----	----	
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	----	----	----	----	
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0005	----	----	----	----	
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	----	----	----	----	
EP231P: PFAS Sums									
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg	<0.0002	----	----	----	----	
Sum of PFAS (WA DER List)	----	0.0002	mg/kg	<0.0002	----	----	----	----	
EP066S: PCB Surrogate									
Decachlorobiphenyl	2051-24-3	0.1	%	----	124	----	----	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP49-0.2	TP49-1.0	TP50-0.1	TP50-0.5	TP51-0.2
Sampling date / time				22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2406402-023	EB2406402-025	EB2406402-026	EB2406402-027	EB2406402-029	
				Result	Result	Result	Result	Result	
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.05	%	----	84.2	----	----	----	
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.05	%	----	73.6	----	----	----	
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	0.5	%	----	98.0	----	----	----	
2-Chlorophenol-D4	93951-73-6	0.5	%	----	92.2	----	----	----	
2,4,6-Tribromophenol	118-79-6	0.5	%	----	74.0	----	----	----	
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	0.5	%	----	93.0	----	----	----	
Anthracene-d10	1719-06-8	0.5	%	----	91.8	----	----	----	
4-Terphenyl-d14	1718-51-0	0.5	%	----	112	----	----	----	
EP075S: Acid Extractable Surrogates									
2-Fluorophenol	367-12-4	0.5	%	108	----	----	----	----	
Phenol-d6	13127-88-3	0.5	%	91.0	----	----	----	----	
2-Chlorophenol-D4	93951-73-6	0.5	%	95.4	----	----	----	----	
2,4,6-Tribromophenol	118-79-6	0.5	%	71.1	----	----	----	----	
EP075T: Base/Neutral Extractable Surrogates									
Nitrobenzene-D5	4165-60-0	0.5	%	86.3	----	----	----	----	
1,2-Dichlorobenzene-D4	2199-69-1	0.5	%	72.9	----	----	----	----	
2-Fluorobiphenyl	321-60-8	0.5	%	90.3	----	----	----	----	
Anthracene-d10	1719-06-8	0.5	%	93.3	----	----	----	----	
4-Terphenyl-d14	1718-51-0	0.5	%	105	----	----	----	----	
EP080S: TPH(V)/BTEX Surrogates									
1,2-Dichloroethane-D4	17060-07-0	0.2	%	87.5	88.2	----	----	----	
Toluene-D8	2037-26-5	0.2	%	86.0	87.1	----	----	----	
4-Bromofluorobenzene	460-00-4	0.2	%	106	114	----	----	----	
EP231S: PFAS Surrogate									



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP49-0.2	TP49-1.0	TP50-0.1	TP50-0.5	TP51-0.2
Sampling date / time				22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2406402-023	EB2406402-025	EB2406402-026	EB2406402-027	EB2406402-029	
				Result	Result	Result	Result	Result	
EP231S: PFAS Surrogate - Continued									
13C4-PFOS	----	0.0002	%	86.0	----	----	----	----	
13C8-PFOA	----	0.0002	%	87.0	----	----	----	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP51-0.5	TP51-1.4	TP52-0.1	TP52-0.5	TP53-0.2
Sampling date / time				22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2406402-030	EB2406402-032	EB2406402-033	EB2406402-034	EB2406402-036	
				Result	Result	Result	Result	Result	
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	1.0	%	17.8	14.2	15.9	16.1	13.8	
EA200: AS 4964 - 2004 Identification of Asbestos in Soils									
Asbestos Detected	1332-21-4	0.1	g/kg	----	----	No	----	No	
Asbestos (Trace)	1332-21-4	-	-	----	----	No	----	No	
Asbestos Type	1332-21-4	-	--	----	----	-	----	-	
Sample weight (dry)	----	0.01	g	----	----	6.20	----	6.70	
APPROVED IDENTIFIER:	----	-	--	----	----	M. TRAN	----	M. TRAN	
Synthetic Mineral Fibre	----	-	--	----	----	No	----	No	
Organic Fibre	----	-	--	----	----	Yes	----	Yes	
EG005(ED093)T: Total Metals by ICP-AES									
Arsenic	7440-38-2	5	mg/kg	6	<5	<5	<5	<5	
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1	
Chromium	7440-47-3	2	mg/kg	10	8	8	37	7	
Copper	7440-50-8	5	mg/kg	<5	<5	<5	<5	<5	
Lead	7439-92-1	5	mg/kg	10	6	37	10	14	
Nickel	7440-02-0	2	mg/kg	<2	<2	<2	<2	<2	
Zinc	7440-66-6	5	mg/kg	<5	<5	60	8	21	
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	
EP066: Polychlorinated Biphenyls (PCB)									
Total Polychlorinated biphenyls	----	0.1	mg/kg	----	<0.1	<0.1	----	<0.1	
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	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	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP51-0.5	TP51-1.4	TP52-0.1	TP52-0.5	TP53-0.2
Sampling date / time					22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406402-030	EB2406402-032	EB2406402-033	EB2406402-034	EB2406402-036
					Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued									
Heptachlor	76-44-8	0.05	mg/kg	----	<0.05	<0.05	<0.05	----	<0.05
Aldrin	309-00-2	0.05	mg/kg	----	<0.05	<0.05	<0.05	----	<0.05
Heptachlor epoxide	1024-57-3	0.05	mg/kg	----	<0.05	<0.05	<0.05	----	<0.05
[^] Total Chlordane (sum)	----	0.05	mg/kg	----	<0.05	<0.05	<0.05	----	<0.05
trans-Chlordane	5103-74-2	0.05	mg/kg	----	<0.05	<0.05	<0.05	----	<0.05
alpha-Endosulfan	959-98-8	0.05	mg/kg	----	<0.05	<0.05	<0.05	----	<0.05
cis-Chlordane	5103-71-9	0.05	mg/kg	----	<0.05	<0.05	<0.05	----	<0.05
Dieldrin	60-57-1	0.05	mg/kg	----	<0.05	<0.05	<0.05	----	<0.05
4,4'-DDE	72-55-9	0.05	mg/kg	----	<0.05	<0.05	<0.05	----	<0.05
Endrin	72-20-8	0.05	mg/kg	----	<0.05	<0.05	<0.05	----	<0.05
beta-Endosulfan	33213-65-9	0.05	mg/kg	----	<0.05	<0.05	<0.05	----	<0.05
[^] Endosulfan (sum)	115-29-7	0.05	mg/kg	----	<0.05	<0.05	<0.05	----	<0.05
4,4'-DDD	72-54-8	0.05	mg/kg	----	<0.05	<0.05	<0.05	----	<0.05
Endrin aldehyde	7421-93-4	0.05	mg/kg	----	<0.05	<0.05	<0.05	----	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg	----	<0.05	<0.05	<0.05	----	<0.05
4,4'-DDT	50-29-3	0.2	mg/kg	----	<0.2	<0.2	<0.2	----	<0.2
Endrin ketone	53494-70-5	0.05	mg/kg	----	<0.05	<0.05	<0.05	----	<0.05
Methoxychlor	72-43-5	0.2	mg/kg	----	<0.2	<0.2	<0.2	----	<0.2
[^] Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	----	<0.05	<0.05	<0.05	----	<0.05
[^] Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.05	mg/kg	----	<0.05	<0.05	<0.05	----	<0.05
EP068B: Organophosphorus Pesticides (OP)									
Dichlorvos	62-73-7	0.05	mg/kg	----	<0.05	<0.05	<0.05	----	<0.05
Demeton-S-methyl	919-86-8	0.05	mg/kg	----	<0.05	<0.05	<0.05	----	<0.05
Monocrotophos	6923-22-4	0.2	mg/kg	----	<0.2	<0.2	<0.2	----	<0.2
Dimethoate	60-51-5	0.05	mg/kg	----	<0.05	<0.05	<0.05	----	<0.05
Diazinon	333-41-5	0.05	mg/kg	----	<0.05	<0.05	<0.05	----	<0.05



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP51-0.5	TP51-1.4	TP52-0.1	TP52-0.5	TP53-0.2
Sampling date / time					22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406402-030	EB2406402-032	EB2406402-033	EB2406402-034	EB2406402-036
					Result	Result	Result	Result	Result
EP068B: Organophosphorus Pesticides (OP) - Continued									
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	----	<0.05	<0.05	<0.05	----	<0.05
Parathion-methyl	298-00-0	0.2	mg/kg	----	<0.2	<0.2	<0.2	----	<0.2
Malathion	121-75-5	0.05	mg/kg	----	<0.05	<0.05	<0.05	----	<0.05
Fenthion	55-38-9	0.05	mg/kg	----	<0.05	<0.05	<0.05	----	<0.05
Chlorpyrifos	2921-88-2	0.05	mg/kg	----	<0.05	<0.05	<0.05	----	<0.05
Parathion	56-38-2	0.2	mg/kg	----	<0.2	<0.2	<0.2	----	<0.2
Pirimphos-ethyl	23505-41-1	0.05	mg/kg	----	<0.05	<0.05	<0.05	----	<0.05
Chlorfenvinphos	470-90-6	0.05	mg/kg	----	<0.05	<0.05	<0.05	----	<0.05
Bromophos-ethyl	4824-78-6	0.05	mg/kg	----	<0.05	<0.05	<0.05	----	<0.05
Fenamiphos	22224-92-6	0.05	mg/kg	----	<0.05	<0.05	<0.05	----	<0.05
Prothiofos	34643-46-4	0.05	mg/kg	----	<0.05	<0.05	<0.05	----	<0.05
Ethion	563-12-2	0.05	mg/kg	----	<0.05	<0.05	<0.05	----	<0.05
Carbophenothion	786-19-6	0.05	mg/kg	----	<0.05	<0.05	<0.05	----	<0.05
Azinphos Methyl	86-50-0	0.05	mg/kg	----	<0.05	<0.05	<0.05	----	<0.05
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	0.5	mg/kg	----	<0.5	<0.5	<0.5	----	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg	----	<0.5	<0.5	<0.5	----	<0.5
Acenaphthene	83-32-9	0.5	mg/kg	----	<0.5	<0.5	<0.5	----	<0.5
Fluorene	86-73-7	0.5	mg/kg	----	<0.5	<0.5	<0.5	----	<0.5
Phenanthrene	85-01-8	0.5	mg/kg	----	<0.5	<0.5	<0.5	----	<0.5
Anthracene	120-12-7	0.5	mg/kg	----	<0.5	<0.5	<0.5	----	<0.5
Fluoranthene	206-44-0	0.5	mg/kg	----	<0.5	<0.5	<0.5	----	<0.5
Pyrene	129-00-0	0.5	mg/kg	----	<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
Chrysene	218-01-9	0.5	mg/kg	----	<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
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	----	<0.5	<0.5	<0.5	----	<0.5



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP51-0.5	TP51-1.4	TP52-0.1	TP52-0.5	TP53-0.2
Sampling date / time				22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2406402-030	EB2406402-032	EB2406402-033	EB2406402-034	EB2406402-036	
				Result	Result	Result	Result	Result	
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued									
Benzo(a)pyrene	50-32-8	0.5	mg/kg	----	<0.5	<0.5	----	<0.5	
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	----	<0.5	<0.5	----	<0.5	
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	----	<0.5	<0.5	----	<0.5	
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	----	<0.5	<0.5	----	<0.5	
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	----	<0.5	<0.5	----	<0.5	
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	----	<0.5	<0.5	----	<0.5	
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	----	0.6	0.6	----	0.6	
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	----	1.2	1.2	----	1.2	
EP075A: Phenolic Compounds									
Phenol	108-95-2	0.5	mg/kg	----	----	----	----	<0.5	
2-Chlorophenol	95-57-8	0.5	mg/kg	----	----	----	----	<0.5	
2-Methylphenol	95-48-7	0.5	mg/kg	----	----	----	----	<0.5	
3- & 4-Methylphenol	1319-77-3	0.5	mg/kg	----	----	----	----	<0.5	
2-Nitrophenol	88-75-5	0.5	mg/kg	----	----	----	----	<0.5	
2.4-Dimethylphenol	105-67-9	0.5	mg/kg	----	----	----	----	<0.5	
2.4-Dichlorophenol	120-83-2	0.5	mg/kg	----	----	----	----	<0.5	
2.6-Dichlorophenol	87-65-0	0.5	mg/kg	----	----	----	----	<0.5	
4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg	----	----	----	----	<0.5	
2.4.6-Trichlorophenol	88-06-2	0.5	mg/kg	----	----	----	----	<0.5	
2.4.5-Trichlorophenol	95-95-4	0.5	mg/kg	----	----	----	----	<0.5	
Pentachlorophenol	87-86-5	1	mg/kg	----	----	----	----	<1	
EP075B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	0.5	mg/kg	----	----	----	----	<0.5	
2-Methylnaphthalene	91-57-6	0.5	mg/kg	----	----	----	----	<0.5	
2-Chloronaphthalene	91-58-7	0.5	mg/kg	----	----	----	----	<0.5	
Acenaphthylene	208-96-8	0.5	mg/kg	----	----	----	----	<0.5	
Acenaphthene	83-32-9	0.5	mg/kg	----	----	----	----	<0.5	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP51-0.5	TP51-1.4	TP52-0.1	TP52-0.5	TP53-0.2
Sampling date / time					22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406402-030	EB2406402-032	EB2406402-033	EB2406402-034	EB2406402-036
					Result	Result	Result	Result	Result
EP075B: Polynuclear Aromatic Hydrocarbons - Continued									
Fluorene	86-73-7	0.5	mg/kg		----	----	----	----	<0.5
Phenanthrene	85-01-8	0.5	mg/kg		----	----	----	----	<0.5
Anthracene	120-12-7	0.5	mg/kg		----	----	----	----	<0.5
Fluoranthene	206-44-0	0.5	mg/kg		----	----	----	----	<0.5
Pyrene	129-00-0	0.5	mg/kg		----	----	----	----	<0.5
N-2-Fluorenyl Acetamide	53-96-3	0.5	mg/kg		----	----	----	----	<0.5
Benzo(a)anthracene	56-55-3	0.5	mg/kg		----	----	----	----	<0.5
Chrysene	218-01-9	0.5	mg/kg		----	----	----	----	<0.5
Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1	mg/kg		----	----	----	----	<1
7.12-Dimethylbenz(a)anthracene	57-97-6	0.5	mg/kg		----	----	----	----	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg		----	----	----	----	<0.5
3-Methylcholanthrene	56-49-5	0.5	mg/kg		----	----	----	----	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg		----	----	----	----	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg		----	----	----	----	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg		----	----	----	----	<0.5
^ Sum of PAHs	----	0.5	mg/kg		----	----	----	----	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg		----	----	----	----	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg		----	----	----	----	0.6
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg		----	----	----	----	1.2
EP075C: Phthalate Esters									
Dimethyl phthalate	131-11-3	0.5	mg/kg		----	----	----	----	<0.5
Diethyl phthalate	84-66-2	0.5	mg/kg		----	----	----	----	<0.5
Di-n-butyl phthalate	84-74-2	0.5	mg/kg		----	----	----	----	<0.5
Butyl benzyl phthalate	85-68-7	0.5	mg/kg		----	----	----	----	<0.5
bis(2-ethylhexyl) phthalate	117-81-7	5.0	mg/kg		----	----	----	----	<5.0
Di-n-octylphthalate	117-84-0	0.5	mg/kg		----	----	----	----	<0.5



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP51-0.5	TP51-1.4	TP52-0.1	TP52-0.5	TP53-0.2
Sampling date / time					22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00
Compound	CAS Number	LOR	Unit	EB2406402-030	EB2406402-032	EB2406402-033	EB2406402-034	EB2406402-036	
				Result	Result	Result	Result	Result	
EP075D: Nitrosamines									
N-Nitrosomethylethylamine	10595-95-6	0.5	mg/kg	----	----	----	----	<0.5	
N-Nitrosodiethylamine	55-18-5	0.5	mg/kg	----	----	----	----	<0.5	
N-Nitrosopyrrolidine	930-55-2	1.0	mg/kg	----	----	----	----	<1.0	
N-Nitrosomorpholine	59-89-2	0.5	mg/kg	----	----	----	----	<0.5	
N-Nitrosodi-n-propylamine	621-64-7	0.5	mg/kg	----	----	----	----	<0.5	
N-Nitrosopiperidine	100-75-4	0.5	mg/kg	----	----	----	----	<0.5	
N-Nitrosodibutylamine	924-16-3	0.5	mg/kg	----	----	----	----	<0.5	
N-Nitrosodiphenyl & Diphenylamine	86-30-6 122-39-4	1.0	mg/kg	----	----	----	----	<1.0	
Methapyrilene	91-80-5	0.5	mg/kg	----	----	----	----	<0.5	
EP075E: Nitroaromatics and Ketones									
2-Picoline	109-06-8	0.5	mg/kg	----	----	----	----	<0.5	
Acetophenone	98-86-2	0.5	mg/kg	----	----	----	----	<0.5	
Nitrobenzene	98-95-3	0.5	mg/kg	----	----	----	----	<0.5	
Isophorone	78-59-1	0.5	mg/kg	----	----	----	----	<0.5	
2,6-Dinitrotoluene	606-20-2	1.0	mg/kg	----	----	----	----	<1.0	
2,4-Dinitrotoluene	121-14-2	1.0	mg/kg	----	----	----	----	<1.0	
1-Naphthylamine	134-32-7	0.5	mg/kg	----	----	----	----	<0.5	
4-Nitroquinoline-N-oxide	56-57-5	0.5	mg/kg	----	----	----	----	<0.5	
5-Nitro-o-toluidine	99-55-8	0.5	mg/kg	----	----	----	----	<0.5	
Azobenzene	103-33-3	1	mg/kg	----	----	----	----	<1	
1,3,5-Trinitrobenzene	99-35-4	0.5	mg/kg	----	----	----	----	<0.5	
Phenacetin	62-44-2	0.5	mg/kg	----	----	----	----	<0.5	
4-Aminobiphenyl	92-67-1	0.5	mg/kg	----	----	----	----	<0.5	
Pentachloronitrobenzene	82-68-8	0.5	mg/kg	----	----	----	----	<0.5	
Pronamide	23950-58-5	0.5	mg/kg	----	----	----	----	<0.5	
Dimethylaminoazobenzene	60-11-7	0.5	mg/kg	----	----	----	----	<0.5	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP51-0.5	TP51-1.4	TP52-0.1	TP52-0.5	TP53-0.2
Sampling date / time					22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00
Compound	CAS Number	LOR	Unit	EB2406402-030	EB2406402-032	EB2406402-033	EB2406402-034	EB2406402-036	
				Result	Result	Result	Result	Result	
EP075E: Nitroaromatics and Ketones - Continued									
Chlorobenzilate	510-15-6	0.5	mg/kg	----	----	----	----	----	<0.5
EP075F: Haloethers									
Bis(2-chloroethyl) ether	111-44-4	0.5	mg/kg	----	----	----	----	----	<0.5
Bis(2-chloroethoxy) methane	111-91-1	0.5	mg/kg	----	----	----	----	----	<0.5
4-Chlorophenyl phenyl ether	7005-72-3	0.5	mg/kg	----	----	----	----	----	<0.5
4-Bromophenyl phenyl ether	101-55-3	0.5	mg/kg	----	----	----	----	----	<0.5
EP075G: Chlorinated Hydrocarbons									
1,3-Dichlorobenzene	541-73-1	0.5	mg/kg	----	----	----	----	----	<0.5
1,4-Dichlorobenzene	106-46-7	0.5	mg/kg	----	----	----	----	----	<0.5
1,2-Dichlorobenzene	95-50-1	0.5	mg/kg	----	----	----	----	----	<0.5
Hexachloroethane	67-72-1	0.5	mg/kg	----	----	----	----	----	<0.5
1,2,4-Trichlorobenzene	120-82-1	0.5	mg/kg	----	----	----	----	----	<0.5
Hexachloropropylene	1888-71-7	0.5	mg/kg	----	----	----	----	----	<0.5
Hexachlorobutadiene	87-68-3	0.5	mg/kg	----	----	----	----	----	<0.5
Hexachlorocyclopentadiene	77-47-4	2.5	mg/kg	----	----	----	----	----	<2.5
Pentachlorobenzene	608-93-5	0.5	mg/kg	----	----	----	----	----	<0.5
Hexachlorobenzene (HCB)	118-74-1	1.0	mg/kg	----	----	----	----	----	<1.0
EP075H: Anilines and Benzidines									
Aniline	62-53-3	0.5	mg/kg	----	----	----	----	----	<0.5
4-Chloroaniline	106-47-8	0.5	mg/kg	----	----	----	----	----	<0.5
2-Nitroaniline	88-74-4	1.0	mg/kg	----	----	----	----	----	<1.0
3-Nitroaniline	99-09-2	1.0	mg/kg	----	----	----	----	----	<1.0
Dibenzofuran	132-64-9	0.5	mg/kg	----	----	----	----	----	<0.5
4-Nitroaniline	100-01-6	0.5	mg/kg	----	----	----	----	----	<0.5
Carbazole	86-74-8	0.5	mg/kg	----	----	----	----	----	<0.5
3,3'-Dichlorobenzidine	91-94-1	0.5	mg/kg	----	----	----	----	----	<0.5
EP075I: Organochlorine Pesticides									



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP51-0.5	TP51-1.4	TP52-0.1	TP52-0.5	TP53-0.2
Sampling date / time					22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00
Compound	CAS Number	LOR	Unit	EB2406402-030	EB2406402-032	EB2406402-033	EB2406402-034	EB2406402-036	EB2406402-036
				Result	Result	Result	Result	Result	Result
EP075J: Organophosphorus Pesticides - Continued									
Chlorfenvinphos	470-90-6	0.5	mg/kg	----	----	----	----	----	<0.5
Prothiofos	34643-46-4	0.5	mg/kg	----	----	----	----	----	<0.5
Ethion	563-12-2	0.5	mg/kg	----	----	----	----	----	<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
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg	----	<10	<10	----	----	<10
[^] C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	----	<10	<10	----	----	<10
>C10 - C16 Fraction	----	50	mg/kg	----	<50	<50	----	----	<50
>C16 - C34 Fraction	----	100	mg/kg	----	<100	<100	----	----	<100
>C34 - C40 Fraction	----	100	mg/kg	----	<100	<100	----	----	<100
[^] >C10 - C40 Fraction (sum)	----	50	mg/kg	----	<50	<50	----	----	<50
[^] >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	----	<50	<50	----	----	<50
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg	----	<0.2	<0.2	----	----	<0.2
Toluene	108-88-3	0.5	mg/kg	----	<0.5	<0.5	----	----	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg	----	<0.5	<0.5	----	----	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	----	<0.5	<0.5	----	----	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg	----	<0.5	<0.5	----	----	<0.5
[^] 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



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP51-0.5	TP51-1.4	TP52-0.1	TP52-0.5	TP53-0.2
Sampling date / time				22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2406402-030	EB2406402-032	EB2406402-033	EB2406402-034	EB2406402-036	
				Result	Result	Result	Result	Result	
EP066S: PCB Surrogate									
Decachlorobiphenyl	2051-24-3	0.1	%	----	113	116	----	58.4	
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.05	%	----	79.6	93.5	----	48.1	
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.05	%	----	61.0	83.4	----	42.9	
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	0.5	%	----	96.1	97.0	----	46.0	
2-Chlorophenol-D4	93951-73-6	0.5	%	----	93.2	90.8	----	44.8	
2.4.6-Tribromophenol	118-79-6	0.5	%	----	63.4	79.4	----	40.9	
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	0.5	%	----	95.2	92.2	----	43.1	
Anthracene-d10	1719-06-8	0.5	%	----	88.0	90.6	----	38.9	
4-Terphenyl-d14	1718-51-0	0.5	%	----	104	110	----	50.0	
EP075S: Acid Extractable Surrogates									
2-Fluorophenol	367-12-4	0.5	%	----	----	----	----	55.5	
Phenol-d6	13127-88-3	0.5	%	----	----	----	----	47.5	
2-Chlorophenol-D4	93951-73-6	0.5	%	----	----	----	----	48.0	
2.4.6-Tribromophenol	118-79-6	0.5	%	----	----	----	----	34.4	
EP075T: Base/Neutral Extractable Surrogates									
Nitrobenzene-D5	4165-60-0	0.5	%	----	----	----	----	43.3	
1.2-Dichlorobenzene-D4	2199-69-1	0.5	%	----	----	----	----	34.8	
2-Fluorobiphenyl	321-60-8	0.5	%	----	----	----	----	44.9	
Anthracene-d10	1719-06-8	0.5	%	----	----	----	----	46.3	
4-Terphenyl-d14	1718-51-0	0.5	%	----	----	----	----	50.8	
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	0.2	%	----	87.8	84.2	----	86.2	
Toluene-D8	2037-26-5	0.2	%	----	84.5	78.6	----	82.8	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP51-0.5	TP51-1.4	TP52-0.1	TP52-0.5	TP53-0.2
Sampling date / time				22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00
Compound	CAS Number	LOR	Unit	EB2406402-030	EB2406402-032	EB2406402-033	EB2406402-034	EB2406402-036	Result
				Result	Result	Result	Result	Result	Result
EP080S: TPH(V)/BTEX Surrogates - Continued									
4-Bromofluorobenzene	460-00-4	0.2	%	----	106	96.0	----	103	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP53-0.5	TP53-1.0	TP54-0.1	TP54-0.5	TP55-0.1
Sampling date / time				22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2406402-037	EB2406402-038	EB2406402-039	EB2406402-040	EB2406402-042	
				Result	Result	Result	Result	Result	
EA055: Moisture Content									
Moisture Content	----	1.0	%	16.6	----	----	----	----	
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	0.1	%	----	15.8	----	----	----	
Moisture Content	----	1.0	%	----	----	14.0	17.9	14.8	
EA200: AS 4964 - 2004 Identification of Asbestos in Soils									
Asbestos Detected	1332-21-4	0.1	g/kg	----	----	No	----	No	
Asbestos (Trace)	1332-21-4	-	-	----	----	No	----	No	
Asbestos Type	1332-21-4	-	--	----	----	-	----	-	
Sample weight (dry)	----	0.01	g	----	----	10.2	----	6.00	
APPROVED IDENTIFIER:	----	-	--	----	----	M. TRAN	----	M. TRAN	
Synthetic Mineral Fibre	----	-	--	----	----	No	----	No	
Organic Fibre	----	-	--	----	----	Yes	----	Yes	
EG005(ED093)T: Total Metals by ICP-AES									
Arsenic	7440-38-2	5	mg/kg	<5	----	23	<5	<5	
Cadmium	7440-43-9	1	mg/kg	<1	----	<1	<1	<1	
Chromium	7440-47-3	2	mg/kg	14	----	7	24	9	
Copper	7440-50-8	5	mg/kg	<5	----	7	<5	<5	
Lead	7439-92-1	5	mg/kg	5	----	37	13	24	
Nickel	7440-02-0	2	mg/kg	<2	----	3	<2	<2	
Zinc	7440-66-6	5	mg/kg	<5	----	389	17	82	
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.1	mg/kg	<0.1	----	<0.1	<0.1	<0.1	
EP066: Polychlorinated Biphenyls (PCB)									
Total Polychlorinated biphenyls	----	0.1	mg/kg	----	----	<0.1	----	<0.1	
EP068A: Organochlorine Pesticides (OC)									
alpha-BHC	319-84-6	0.05	mg/kg	----	----	<0.05	----	<0.05	
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	----	----	<0.05	----	<0.05	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP53-0.5	TP53-1.0	TP54-0.1	TP54-0.5	TP55-0.1
Sampling date / time					22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406402-037	EB2406402-038	EB2406402-039	EB2406402-040	EB2406402-042
					Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued									
beta-BHC	319-85-7	0.05	mg/kg		----	----	<0.05	----	<0.05
gamma-BHC	58-89-9	0.05	mg/kg		----	----	<0.05	----	<0.05
delta-BHC	319-86-8	0.05	mg/kg		----	----	<0.05	----	<0.05
Heptachlor	76-44-8	0.05	mg/kg		----	----	<0.05	----	<0.05
Aldrin	309-00-2	0.05	mg/kg		----	----	<0.05	----	<0.05
Heptachlor epoxide	1024-57-3	0.05	mg/kg		----	----	<0.05	----	<0.05
^ Total Chlordane (sum)	----	0.05	mg/kg		----	----	<0.05	----	<0.05
trans-Chlordane	5103-74-2	0.05	mg/kg		----	----	<0.05	----	<0.05
alpha-Endosulfan	959-98-8	0.05	mg/kg		----	----	<0.05	----	<0.05
cis-Chlordane	5103-71-9	0.05	mg/kg		----	----	<0.05	----	<0.05
Dieldrin	60-57-1	0.05	mg/kg		----	----	<0.05	----	<0.05
4.4'-DDE	72-55-9	0.05	mg/kg		----	----	<0.05	----	<0.05
Endrin	72-20-8	0.05	mg/kg		----	----	<0.05	----	<0.05
beta-Endosulfan	33213-65-9	0.05	mg/kg		----	----	<0.05	----	<0.05
^ Endosulfan (sum)	115-29-7	0.05	mg/kg		----	----	<0.05	----	<0.05
4.4'-DDD	72-54-8	0.05	mg/kg		----	----	<0.05	----	<0.05
Endrin aldehyde	7421-93-4	0.05	mg/kg		----	----	<0.05	----	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg		----	----	<0.05	----	<0.05
4.4'-DDT	50-29-3	0.2	mg/kg		----	----	<0.2	----	<0.2
Endrin ketone	53494-70-5	0.05	mg/kg		----	----	<0.05	----	<0.05
Methoxychlor	72-43-5	0.2	mg/kg		----	----	<0.2	----	<0.2
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg		----	----	<0.05	----	<0.05
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-29-3	0.05	mg/kg		----	----	<0.05	----	<0.05
EP068B: Organophosphorus Pesticides (OP)									
Dichlorvos	62-73-7	0.05	mg/kg		----	----	<0.05	----	<0.05
Demeton-S-methyl	919-86-8	0.05	mg/kg		----	----	<0.05	----	<0.05



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP53-0.5	TP53-1.0	TP54-0.1	TP54-0.5	TP55-0.1
Sampling date / time					22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406402-037	EB2406402-038	EB2406402-039	EB2406402-040	EB2406402-042
					Result	Result	Result	Result	Result
EP068B: Organophosphorus Pesticides (OP) - Continued									
Monocrotophos	6923-22-4	0.2	mg/kg		----	----	<0.2	----	<0.2
Dimethoate	60-51-5	0.05	mg/kg		----	----	<0.05	----	<0.05
Diazinon	333-41-5	0.05	mg/kg		----	----	<0.05	----	<0.05
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg		----	----	<0.05	----	<0.05
Parathion-methyl	298-00-0	0.2	mg/kg		----	----	<0.2	----	<0.2
Malathion	121-75-5	0.05	mg/kg		----	----	<0.05	----	<0.05
Fenthion	55-38-9	0.05	mg/kg		----	----	<0.05	----	<0.05
Chlorpyrifos	2921-88-2	0.05	mg/kg		----	----	<0.05	----	<0.05
Parathion	56-38-2	0.2	mg/kg		----	----	<0.2	----	<0.2
Pirimphos-ethyl	23505-41-1	0.05	mg/kg		----	----	<0.05	----	<0.05
Chlorfenvinphos	470-90-6	0.05	mg/kg		----	----	<0.05	----	<0.05
Bromophos-ethyl	4824-78-6	0.05	mg/kg		----	----	<0.05	----	<0.05
Fenamiphos	22224-92-6	0.05	mg/kg		----	----	<0.05	----	<0.05
Prothiofos	34643-46-4	0.05	mg/kg		----	----	<0.05	----	<0.05
Ethion	563-12-2	0.05	mg/kg		----	----	<0.05	----	<0.05
Carbophenothion	786-19-6	0.05	mg/kg		----	----	<0.05	----	<0.05
Azinphos Methyl	86-50-0	0.05	mg/kg		----	----	<0.05	----	<0.05
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	0.5	mg/kg		----	----	<0.5	----	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg		----	----	<0.5	----	<0.5
Acenaphthene	83-32-9	0.5	mg/kg		----	----	<0.5	----	<0.5
Fluorene	86-73-7	0.5	mg/kg		----	----	<0.5	----	<0.5
Phenanthrene	85-01-8	0.5	mg/kg		----	----	<0.5	----	<0.5
Anthracene	120-12-7	0.5	mg/kg		----	----	<0.5	----	<0.5
Fluoranthene	206-44-0	0.5	mg/kg		----	----	<0.5	----	<0.5
Pyrene	129-00-0	0.5	mg/kg		----	----	<0.5	----	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg		----	----	<0.5	----	<0.5



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP53-0.5	TP53-1.0	TP54-0.1	TP54-0.5	TP55-0.1
Sampling date / time					22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00
Compound	CAS Number	LOR	Unit	EB2406402-037	EB2406402-038	EB2406402-039	EB2406402-040	EB2406402-042	
				Result	Result	Result	Result	Result	
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued									
Chrysene	218-01-9	0.5	mg/kg	----	----	<0.5	----	<0.5	
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	----	----	<0.5	----	<0.5	
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	----	----	<0.5	----	<0.5	
Benzo(a)pyrene	50-32-8	0.5	mg/kg	----	----	<0.5	----	<0.5	
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	----	----	<0.5	----	<0.5	
Dibenz(a,h)anthracene	53-70-3	0.5	mg/kg	----	----	<0.5	----	<0.5	
Benzo(g,h,i)perylene	191-24-2	0.5	mg/kg	----	----	<0.5	----	<0.5	
[^] Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	----	----	<0.5	----	<0.5	
[^] Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	----	----	<0.5	----	<0.5	
[^] Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	----	----	0.6	----	0.6	
[^] Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	----	----	1.2	----	1.2	
EP075A: Phenolic Compounds									
Phenol	108-95-2	0.5	mg/kg	----	<0.5	----	----	----	
2-Chlorophenol	95-57-8	0.5	mg/kg	----	<0.5	----	----	----	
2-Methylphenol	95-48-7	0.5	mg/kg	----	<0.5	----	----	----	
3- & 4-Methylphenol	1319-77-3	0.5	mg/kg	----	<0.5	----	----	----	
2-Nitrophenol	88-75-5	0.5	mg/kg	----	<0.5	----	----	----	
2,4-Dimethylphenol	105-67-9	0.5	mg/kg	----	<0.5	----	----	----	
2,4-Dichlorophenol	120-83-2	0.5	mg/kg	----	<0.5	----	----	----	
2,6-Dichlorophenol	87-65-0	0.5	mg/kg	----	<0.5	----	----	----	
4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg	----	<0.5	----	----	----	
2,4,6-Trichlorophenol	88-06-2	0.5	mg/kg	----	<0.5	----	----	----	
2,4,5-Trichlorophenol	95-95-4	0.5	mg/kg	----	<0.5	----	----	----	
Pentachlorophenol	87-86-5	1	mg/kg	----	<1	----	----	----	
EP075B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	0.5	mg/kg	----	<0.5	----	----	----	
2-Methylnaphthalene	91-57-6	0.5	mg/kg	----	<0.5	----	----	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP53-0.5	TP53-1.0	TP54-0.1	TP54-0.5	TP55-0.1
Sampling date / time					22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406402-037	EB2406402-038	EB2406402-039	EB2406402-040	EB2406402-042
					Result	Result	Result	Result	Result
EP075B: Polynuclear Aromatic Hydrocarbons - Continued									
2-Chloronaphthalene	91-58-7	0.5	mg/kg	----	<0.5	----	----	----	----
Acenaphthylene	208-96-8	0.5	mg/kg	----	<0.5	----	----	----	----
Acenaphthene	83-32-9	0.5	mg/kg	----	<0.5	----	----	----	----
Fluorene	86-73-7	0.5	mg/kg	----	<0.5	----	----	----	----
Phenanthrene	85-01-8	0.5	mg/kg	----	<0.5	----	----	----	----
Anthracene	120-12-7	0.5	mg/kg	----	<0.5	----	----	----	----
Fluoranthene	206-44-0	0.5	mg/kg	----	<0.5	----	----	----	----
Pyrene	129-00-0	0.5	mg/kg	----	<0.5	----	----	----	----
N-2-Fluorenyl Acetamide	53-96-3	0.5	mg/kg	----	<0.5	----	----	----	----
Benzo(a)anthracene	56-55-3	0.5	mg/kg	----	<0.5	----	----	----	----
Chrysene	218-01-9	0.5	mg/kg	----	<0.5	----	----	----	----
Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1	mg/kg	----	<1	----	----	----	----
7.12-Dimethylbenz(a)anthracene	57-97-6	0.5	mg/kg	----	<0.5	----	----	----	----
Benzo(a)pyrene	50-32-8	0.5	mg/kg	----	<0.5	----	----	----	----
3-Methylcholanthrene	56-49-5	0.5	mg/kg	----	<0.5	----	----	----	----
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	----	<0.5	----	----	----	----
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	----	<0.5	----	----	----	----
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	----	<0.5	----	----	----	----
^ Sum of PAHs	----	0.5	mg/kg	----	<0.5	----	----	----	----
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	----	<0.5	----	----	----	----
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	----	0.6	----	----	----	----
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	----	1.2	----	----	----	----
EP075C: Phthalate Esters									
Dimethyl phthalate	131-11-3	0.5	mg/kg	----	<0.5	----	----	----	----
Diethyl phthalate	84-66-2	0.5	mg/kg	----	<0.5	----	----	----	----
Di-n-butyl phthalate	84-74-2	0.5	mg/kg	----	<0.5	----	----	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP53-0.5	TP53-1.0	TP54-0.1	TP54-0.5	TP55-0.1
Sampling date / time				22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00
Compound	CAS Number	LOR	Unit	EB2406402-037	EB2406402-038	EB2406402-039	EB2406402-040	EB2406402-042	
				Result	Result	Result	Result	Result	
EP075C: Phthalate Esters - Continued									
Butyl benzyl phthalate	85-68-7	0.5	mg/kg	----	<0.5	----	----	----	
bis(2-ethylhexyl) phthalate	117-81-7	5.0	mg/kg	----	<5.0	----	----	----	
Di-n-octylphthalate	117-84-0	0.5	mg/kg	----	<0.5	----	----	----	
EP075D: Nitrosamines									
N-Nitrosomethylethylamine	10595-95-6	0.5	mg/kg	----	<0.5	----	----	----	
N-Nitrosodiethylamine	55-18-5	0.5	mg/kg	----	<0.5	----	----	----	
N-Nitrosopyrrolidine	930-55-2	1.0	mg/kg	----	<1.0	----	----	----	
N-Nitrosomorpholine	59-89-2	0.5	mg/kg	----	<0.5	----	----	----	
N-Nitrosodi-n-propylamine	621-64-7	0.5	mg/kg	----	<0.5	----	----	----	
N-Nitrosopiperidine	100-75-4	0.5	mg/kg	----	<0.5	----	----	----	
N-Nitrosodibutylamine	924-16-3	0.5	mg/kg	----	<0.5	----	----	----	
N-Nitrosodiphenyl & Diphenylamine	86-30-6 122-39-4	1.0	mg/kg	----	<1.0	----	----	----	
Methapyrilene	91-80-5	0.5	mg/kg	----	<0.5	----	----	----	
EP075E: Nitroaromatics and Ketones									
2-Picoline	109-06-8	0.5	mg/kg	----	<0.5	----	----	----	
Acetophenone	98-86-2	0.5	mg/kg	----	<0.5	----	----	----	
Nitrobenzene	98-95-3	0.5	mg/kg	----	<0.5	----	----	----	
Isophorone	78-59-1	0.5	mg/kg	----	<0.5	----	----	----	
2,6-Dinitrotoluene	606-20-2	1.0	mg/kg	----	<1.0	----	----	----	
2,4-Dinitrotoluene	121-14-2	1.0	mg/kg	----	<1.0	----	----	----	
1-Naphthylamine	134-32-7	0.5	mg/kg	----	<0.5	----	----	----	
4-Nitroquinoline-N-oxide	56-57-5	0.5	mg/kg	----	<0.5	----	----	----	
5-Nitro-o-toluidine	99-55-8	0.5	mg/kg	----	<0.5	----	----	----	
Azobenzene	103-33-3	1	mg/kg	----	<1	----	----	----	
1,3,5-Trinitrobenzene	99-35-4	0.5	mg/kg	----	<0.5	----	----	----	
Phenacetin	62-44-2	0.5	mg/kg	----	<0.5	----	----	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP53-0.5	TP53-1.0	TP54-0.1	TP54-0.5	TP55-0.1
Sampling date / time					22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406402-037	EB2406402-038	EB2406402-039	EB2406402-040	EB2406402-042
					Result	Result	Result	Result	Result
EP075E: Nitroaromatics and Ketones - Continued									
4-Aminobiphenyl	92-67-1	0.5	mg/kg	----	<0.5	----	----	----	----
Pentachloronitrobenzene	82-68-8	0.5	mg/kg	----	<0.5	----	----	----	----
Pronamide	23950-58-5	0.5	mg/kg	----	<0.5	----	----	----	----
Dimethylaminoazobenzene	60-11-7	0.5	mg/kg	----	<0.5	----	----	----	----
Chlorobenzilate	510-15-6	0.5	mg/kg	----	<0.5	----	----	----	----
EP075F: Haloethers									
Bis(2-chloroethyl) ether	111-44-4	0.5	mg/kg	----	<0.5	----	----	----	----
Bis(2-chloroethoxy) methane	111-91-1	0.5	mg/kg	----	<0.5	----	----	----	----
4-Chlorophenyl phenyl ether	7005-72-3	0.5	mg/kg	----	<0.5	----	----	----	----
4-Bromophenyl phenyl ether	101-55-3	0.5	mg/kg	----	<0.5	----	----	----	----
EP075G: Chlorinated Hydrocarbons									
1,3-Dichlorobenzene	541-73-1	0.5	mg/kg	----	<0.5	----	----	----	----
1,4-Dichlorobenzene	106-46-7	0.5	mg/kg	----	<0.5	----	----	----	----
1,2-Dichlorobenzene	95-50-1	0.5	mg/kg	----	<0.5	----	----	----	----
Hexachloroethane	67-72-1	0.5	mg/kg	----	<0.5	----	----	----	----
1,2,4-Trichlorobenzene	120-82-1	0.5	mg/kg	----	<0.5	----	----	----	----
Hexachloropropylene	1888-71-7	0.5	mg/kg	----	<0.5	----	----	----	----
Hexachlorobutadiene	87-68-3	0.5	mg/kg	----	<0.5	----	----	----	----
Hexachlorocyclopentadiene	77-47-4	2.5	mg/kg	----	<2.5	----	----	----	----
Pentachlorobenzene	608-93-5	0.5	mg/kg	----	<0.5	----	----	----	----
Hexachlorobenzene (HCB)	118-74-1	1.0	mg/kg	----	<1.0	----	----	----	----
EP075H: Anilines and Benzidines									
Aniline	62-53-3	0.5	mg/kg	----	<0.5	----	----	----	----
4-Chloroaniline	106-47-8	0.5	mg/kg	----	<0.5	----	----	----	----
2-Nitroaniline	88-74-4	1.0	mg/kg	----	<1.0	----	----	----	----
3-Nitroaniline	99-09-2	1.0	mg/kg	----	<1.0	----	----	----	----
Dibenzofuran	132-64-9	0.5	mg/kg	----	<0.5	----	----	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP53-0.5	TP53-1.0	TP54-0.1	TP54-0.5	TP55-0.1
Sampling date / time				22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2406402-037	EB2406402-038	EB2406402-039	EB2406402-040	EB2406402-042	
				Result	Result	Result	Result	Result	
EP075H: Anilines and Benzidines - Continued									
4-Nitroaniline	100-01-6	0.5	mg/kg	----	<0.5	----	----	----	
Carbazole	86-74-8	0.5	mg/kg	----	<0.5	----	----	----	
3,3'-Dichlorobenzidine	91-94-1	0.5	mg/kg	----	<0.5	----	----	----	
EP075I: Organochlorine Pesticides									
alpha-BHC	319-84-6	0.5	mg/kg	----	<0.5	----	----	----	
beta-BHC	319-85-7	0.5	mg/kg	----	<0.5	----	----	----	
gamma-BHC	58-89-9	0.5	mg/kg	----	<0.5	----	----	----	
delta-BHC	319-86-8	0.5	mg/kg	----	<0.5	----	----	----	
Heptachlor	76-44-8	0.5	mg/kg	----	<0.5	----	----	----	
Aldrin	309-00-2	0.5	mg/kg	----	<0.5	----	----	----	
Heptachlor epoxide	1024-57-3	0.5	mg/kg	----	<0.5	----	----	----	
alpha-Endosulfan	959-98-8	0.5	mg/kg	----	<0.5	----	----	----	
4,4'-DDE	72-55-9	0.5	mg/kg	----	<0.5	----	----	----	
Dieldrin	60-57-1	0.5	mg/kg	----	<0.5	----	----	----	
Endrin	72-20-8	0.5	mg/kg	----	<0.5	----	----	----	
beta-Endosulfan	33213-65-9	0.5	mg/kg	----	<0.5	----	----	----	
4,4'-DDD	72-54-8	0.5	mg/kg	----	<0.5	----	----	----	
Endosulfan sulfate	1031-07-8	0.5	mg/kg	----	<0.5	----	----	----	
4,4'-DDT	50-29-3	1.0	mg/kg	----	<1.0	----	----	----	
[^] Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.5	mg/kg	----	<0.5	----	----	----	
[^] Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.5	mg/kg	----	<0.5	----	----	----	
EP075J: Organophosphorus Pesticides									
Dichlorvos	62-73-7	0.5	mg/kg	----	<0.5	----	----	----	
Dimethoate	60-51-5	0.5	mg/kg	----	<0.5	----	----	----	
Diazinon	333-41-5	0.5	mg/kg	----	<0.5	----	----	----	
Chlorpyrifos-methyl	5598-13-0	0.5	mg/kg	----	<0.5	----	----	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP53-0.5	TP53-1.0	TP54-0.1	TP54-0.5	TP55-0.1
Sampling date / time					22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406402-037	EB2406402-038	EB2406402-039	EB2406402-040	EB2406402-042
					Result	Result	Result	Result	Result
EP075J: Organophosphorus Pesticides - Continued									
Malathion	121-75-5	0.5	mg/kg	----	<0.5	----	----	----	----
Fenthion	55-38-9	0.5	mg/kg	----	<0.5	----	----	----	----
Chlorpyrifos	2921-88-2	0.5	mg/kg	----	<0.5	----	----	----	----
Pirimphos-ethyl	23505-41-1	0.5	mg/kg	----	<0.5	----	----	----	----
Chlorfenvinphos	470-90-6	0.5	mg/kg	----	<0.5	----	----	----	----
Prothiofos	34643-46-4	0.5	mg/kg	----	<0.5	----	----	----	----
Ethion	563-12-2	0.5	mg/kg	----	<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	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg	<10	----	<10	----	<10	----
[^] C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<10	----	<10	----	<10	----
>C10 - C16 Fraction	----	50	mg/kg	<50	----	<50	----	<50	----
>C16 - C34 Fraction	----	100	mg/kg	<100	----	<100	----	<100	----
>C34 - C40 Fraction	----	100	mg/kg	<100	----	<100	----	<100	----
[^] >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	----	<50	----	<50	----
[^] >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	<50	----	<50	----	<50	----
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg	<0.2	----	<0.2	----	<0.2	----
Toluene	108-88-3	0.5	mg/kg	<0.5	----	<0.5	----	<0.5	----
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	----	<0.5	----	<0.5	----
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	----	<0.5	----	<0.5	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP53-0.5	TP53-1.0	TP54-0.1	TP54-0.5	TP55-0.1
Sampling date / time				22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2406402-037	EB2406402-038	EB2406402-039	EB2406402-040	EB2406402-042	
				Result	Result	Result	Result	Result	
EP080: BTEXN - Continued									
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	
EP066S: PCB Surrogate									
Decachlorobiphenyl	2051-24-3	0.1	%	----	----	123	----	124	
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.05	%	----	----	90.1	----	90.1	
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.05	%	----	----	76.6	----	78.2	
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	0.5	%	----	----	94.5	----	93.4	
2-Chlorophenol-D4	93951-73-6	0.5	%	----	----	92.9	----	92.9	
2,4,6-Tribromophenol	118-79-6	0.5	%	----	----	99.8	----	101	
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	0.5	%	----	----	80.4	----	82.3	
Anthracene-d10	1719-06-8	0.5	%	----	----	95.0	----	95.0	
4-Terphenyl-d14	1718-51-0	0.5	%	----	----	99.7	----	99.3	
EP075S: Acid Extractable Surrogates									
2-Fluorophenol	367-12-4	0.5	%	----	113	----	----	----	
Phenol-d6	13127-88-3	0.5	%	----	98.3	----	----	----	
2-Chlorophenol-D4	93951-73-6	0.5	%	----	97.4	----	----	----	
2,4,6-Tribromophenol	118-79-6	0.5	%	----	61.3	----	----	----	
EP075T: Base/Neutral Extractable Surrogates									
Nitrobenzene-D5	4165-60-0	0.5	%	----	84.0	----	----	----	
1,2-Dichlorobenzene-D4	2199-69-1	0.5	%	----	66.8	----	----	----	
2-Fluorobiphenyl	321-60-8	0.5	%	----	90.5	----	----	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP53-0.5	TP53-1.0	TP54-0.1	TP54-0.5	TP55-0.1
Sampling date / time				22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2406402-037	EB2406402-038	EB2406402-039	EB2406402-040	EB2406402-042	
				Result	Result	Result	Result	Result	
EP075T: Base/Neutral Extractable Surrogates - Continued									
Anthracene-d10	1719-06-8	0.5	%	----	88.2	----	----	----	
4-Terphenyl-d14	1718-51-0	0.5	%	----	98.0	----	----	----	
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	0.2	%	90.0	----	92.4	----	88.3	
Toluene-D8	2037-26-5	0.2	%	90.5	----	91.0	----	84.7	
4-Bromofluorobenzene	460-00-4	0.2	%	111	----	112	----	106	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP55-0.5	TP56-0.1	TP56-0.5	TP57-0.1	TP57-0.5
Sampling date / time				22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2406402-043	EB2406402-045	EB2406402-046	EB2406402-047	EB2406402-048	
				Result	Result	Result	Result	Result	
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	1.0	%	13.5	14.8	19.9	16.2	18.4	
EA200: AS 4964 - 2004 Identification of Asbestos in Soils									
Asbestos Detected	1332-21-4	0.1	g/kg	No	----	----	----	----	
Asbestos (Trace)	1332-21-4	-	-	No	----	----	----	----	
Asbestos Type	1332-21-4	-	--	-	----	----	----	----	
Sample weight (dry)	----	0.01	g	2.90	----	----	----	----	
APPROVED IDENTIFIER:	----	-	--	M. TRAN	----	----	----	----	
Synthetic Mineral Fibre	----	-	--	No	----	----	----	----	
Organic Fibre	----	-	--	Yes	----	----	----	----	
EG005(ED093)T: Total Metals by ICP-AES									
Arsenic	7440-38-2	5	mg/kg	<5	<5	7	<5	<5	
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1	
Chromium	7440-47-3	2	mg/kg	40	9	30	7	15	
Copper	7440-50-8	5	mg/kg	<5	<5	<5	<5	<5	
Lead	7439-92-1	5	mg/kg	5	6	6	22	<5	
Nickel	7440-02-0	2	mg/kg	<2	<2	<2	<2	<2	
Zinc	7440-66-6	5	mg/kg	9	12	<5	28	<5	
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	
EP066: Polychlorinated Biphenyls (PCB)									
Total Polychlorinated biphenyls	----	0.1	mg/kg	----	----	----	<0.1	<0.1	
EP068A: Organochlorine Pesticides (OC)									
alpha-BHC	319-84-6	0.05	mg/kg	----	----	----	<0.05	<0.05	
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	----	----	----	<0.05	<0.05	
beta-BHC	319-85-7	0.05	mg/kg	----	----	----	<0.05	<0.05	
gamma-BHC	58-89-9	0.05	mg/kg	----	----	----	<0.05	<0.05	
delta-BHC	319-86-8	0.05	mg/kg	----	----	----	<0.05	<0.05	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP55-0.5	TP56-0.1	TP56-0.5	TP57-0.1	TP57-0.5
Sampling date / time					22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406402-043	EB2406402-045	EB2406402-046	EB2406402-047	EB2406402-048
					Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued									
Heptachlor	76-44-8	0.05	mg/kg		----	----	----	<0.05	<0.05
Aldrin	309-00-2	0.05	mg/kg		----	----	----	<0.05	<0.05
Heptachlor epoxide	1024-57-3	0.05	mg/kg		----	----	----	<0.05	<0.05
[^] Total Chlordane (sum)	----	0.05	mg/kg		----	----	----	<0.05	<0.05
trans-Chlordane	5103-74-2	0.05	mg/kg		----	----	----	<0.05	<0.05
alpha-Endosulfan	959-98-8	0.05	mg/kg		----	----	----	<0.05	<0.05
cis-Chlordane	5103-71-9	0.05	mg/kg		----	----	----	<0.05	<0.05
Dieldrin	60-57-1	0.05	mg/kg		----	----	----	<0.05	<0.05
4,4'-DDE	72-55-9	0.05	mg/kg		----	----	----	<0.05	<0.05
Endrin	72-20-8	0.05	mg/kg		----	----	----	<0.05	<0.05
beta-Endosulfan	33213-65-9	0.05	mg/kg		----	----	----	<0.05	<0.05
[^] Endosulfan (sum)	115-29-7	0.05	mg/kg		----	----	----	<0.05	<0.05
4,4'-DDD	72-54-8	0.05	mg/kg		----	----	----	<0.05	<0.05
Endrin aldehyde	7421-93-4	0.05	mg/kg		----	----	----	<0.05	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg		----	----	----	<0.05	<0.05
4,4'-DDT	50-29-3	0.2	mg/kg		----	----	----	<0.2	<0.2
Endrin ketone	53494-70-5	0.05	mg/kg		----	----	----	<0.05	<0.05
Methoxychlor	72-43-5	0.2	mg/kg		----	----	----	<0.2	<0.2
[^] Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg		----	----	----	<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
EP068B: Organophosphorus Pesticides (OP)									
Dichlorvos	62-73-7	0.05	mg/kg		----	----	----	<0.05	<0.05
Demeton-S-methyl	919-86-8	0.05	mg/kg		----	----	----	<0.05	<0.05
Monocrotophos	6923-22-4	0.2	mg/kg		----	----	----	<0.2	<0.2
Dimethoate	60-51-5	0.05	mg/kg		----	----	----	<0.05	<0.05
Diazinon	333-41-5	0.05	mg/kg		----	----	----	<0.05	<0.05



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP55-0.5	TP56-0.1	TP56-0.5	TP57-0.1	TP57-0.5
Sampling date / time					22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406402-043	EB2406402-045	EB2406402-046	EB2406402-047	EB2406402-048
					Result	Result	Result	Result	Result
EP068B: Organophosphorus Pesticides (OP) - Continued									
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg		----	----	----	<0.05	<0.05
Parathion-methyl	298-00-0	0.2	mg/kg		----	----	----	<0.2	<0.2
Malathion	121-75-5	0.05	mg/kg		----	----	----	<0.05	<0.05
Fenthion	55-38-9	0.05	mg/kg		----	----	----	<0.05	<0.05
Chlorpyrifos	2921-88-2	0.05	mg/kg		----	----	----	<0.05	<0.05
Parathion	56-38-2	0.2	mg/kg		----	----	----	<0.2	<0.2
Pirimphos-ethyl	23505-41-1	0.05	mg/kg		----	----	----	<0.05	<0.05
Chlorfenvinphos	470-90-6	0.05	mg/kg		----	----	----	<0.05	<0.05
Bromophos-ethyl	4824-78-6	0.05	mg/kg		----	----	----	<0.05	<0.05
Fenamiphos	22224-92-6	0.05	mg/kg		----	----	----	<0.05	<0.05
Prothiofos	34643-46-4	0.05	mg/kg		----	----	----	<0.05	<0.05
Ethion	563-12-2	0.05	mg/kg		----	----	----	<0.05	<0.05
Carbophenothion	786-19-6	0.05	mg/kg		----	----	----	<0.05	<0.05
Azinphos Methyl	86-50-0	0.05	mg/kg		----	----	----	<0.05	<0.05
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	0.5	mg/kg		----	----	----	<0.5	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg		----	----	----	<0.5	<0.5
Acenaphthene	83-32-9	0.5	mg/kg		----	----	----	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg		----	----	----	<0.5	<0.5
Phenanthrene	85-01-8	0.5	mg/kg		----	----	----	<0.5	<0.5
Anthracene	120-12-7	0.5	mg/kg		----	----	----	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg		----	----	----	<0.5	<0.5
Pyrene	129-00-0	0.5	mg/kg		----	----	----	<0.5	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg		----	----	----	<0.5	<0.5
Chrysene	218-01-9	0.5	mg/kg		----	----	----	<0.5	<0.5
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg		----	----	----	<0.5	<0.5
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg		----	----	----	<0.5	<0.5



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP55-0.5	TP56-0.1	TP56-0.5	TP57-0.1	TP57-0.5
Sampling date / time				22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2406402-043	EB2406402-045	EB2406402-046	EB2406402-047	EB2406402-048	
				Result	Result	Result	Result	Result	
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued									
Benzo(a)pyrene	50-32-8	0.5	mg/kg	----	----	----	<0.5	<0.5	
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	----	----	----	<0.5	<0.5	
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	----	----	----	<0.5	<0.5	
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	----	----	----	<0.5	<0.5	
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	----	----	----	<0.5	<0.5	
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	----	----	----	<0.5	<0.5	
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	----	----	----	0.6	0.6	
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	----	----	----	1.2	1.2	
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	10	mg/kg	----	----	----	<10	<10	
C10 - C14 Fraction	----	50	mg/kg	----	----	----	<50	<50	
C15 - C28 Fraction	----	100	mg/kg	----	----	----	<100	<100	
C29 - C36 Fraction	----	100	mg/kg	----	----	----	<100	<100	
^ C10 - C36 Fraction (sum)	----	50	mg/kg	----	----	----	<50	<50	
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg	----	----	----	<10	<10	
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	----	----	----	<10	<10	
>C10 - C16 Fraction	----	50	mg/kg	----	----	----	<50	<50	
>C16 - C34 Fraction	----	100	mg/kg	----	----	----	<100	<100	
>C34 - C40 Fraction	----	100	mg/kg	----	----	----	<100	<100	
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	----	----	----	<50	<50	
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	----	----	----	<50	<50	
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg	----	----	----	<0.2	<0.2	
Toluene	108-88-3	0.5	mg/kg	----	----	----	<0.5	<0.5	
Ethylbenzene	100-41-4	0.5	mg/kg	----	----	----	<0.5	<0.5	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP55-0.5	TP56-0.1	TP56-0.5	TP57-0.1	TP57-0.5
Sampling date / time				22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2406402-043	EB2406402-045	EB2406402-046	EB2406402-047	EB2406402-048	
				Result	Result	Result	Result	Result	
EP080: BTEXN - Continued									
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	----	----	----	<0.5	<0.5	
ortho-Xylene	95-47-6	0.5	mg/kg	----	----	----	<0.5	<0.5	
^ Sum of BTEX	----	0.2	mg/kg	----	----	----	<0.2	<0.2	
^ Total Xylenes	----	0.5	mg/kg	----	----	----	<0.5	<0.5	
Naphthalene	91-20-3	1	mg/kg	----	----	----	<1	<1	
EP066S: PCB Surrogate									
Decachlorobiphenyl	2051-24-3	0.1	%	----	----	----	125	120	
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.05	%	----	----	----	96.3	93.7	
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.05	%	----	----	----	86.5	74.5	
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	0.5	%	----	----	----	95.2	95.1	
2-Chlorophenol-D4	93951-73-6	0.5	%	----	----	----	93.7	91.9	
2,4,6-Tribromophenol	118-79-6	0.5	%	----	----	----	102	101	
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	0.5	%	----	----	----	82.4	79.7	
Anthracene-d10	1719-06-8	0.5	%	----	----	----	93.6	97.0	
4-Terphenyl-d14	1718-51-0	0.5	%	----	----	----	98.7	101	
EP080S: TPH(V)/BTEX Surrogates									
1,2-Dichloroethane-D4	17060-07-0	0.2	%	----	----	----	85.7	86.9	
Toluene-D8	2037-26-5	0.2	%	----	----	----	82.1	86.4	
4-Bromofluorobenzene	460-00-4	0.2	%	----	----	----	101	105	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP58-0.1	TP58-0.5	TP59-0.2	TP59-0.5	TP60-0.1
Sampling date / time				22-Feb-2024 00:00	22-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	22-Feb-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2406402-050	EB2406402-051	EB2406402-052	EB2406402-053	EB2406402-055	
				Result	Result	Result	Result	Result	
EA055: Moisture Content									
Moisture Content	----	1.0	%	----	----	----	24.4	----	
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	1.0	%	16.7	23.0	19.2	----	18.0	
EA200: AS 4964 - 2004 Identification of Asbestos in Soils									
Asbestos Detected	1332-21-4	0.1	g/kg	No	----	----	----	No	
Asbestos (Trace)	1332-21-4	-	-	No	----	----	----	No	
Asbestos Type	1332-21-4	-	--	-	----	----	----	-	
Sample weight (dry)	----	0.01	g	4.70	----	----	----	7.90	
APPROVED IDENTIFIER:	----	-	--	M. TRAN	----	----	----	M. TRAN	
Synthetic Mineral Fibre	----	-	--	No	----	----	----	No	
Organic Fibre	----	-	--	Yes	----	----	----	Yes	
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	15	36	24	34	11	
Copper	7440-50-8	5	mg/kg	20	<5	<5	<5	<5	
Lead	7439-92-1	5	mg/kg	77	11	12	10	12	
Nickel	7440-02-0	2	mg/kg	3	<2	<2	<2	<2	
Zinc	7440-66-6	5	mg/kg	333	<5	<5	<5	35	
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	
EP066: Polychlorinated Biphenyls (PCB)									
Total Polychlorinated biphenyls	----	0.1	mg/kg	----	----	<0.1	----	----	
EP068A: Organochlorine Pesticides (OC)									
alpha-BHC	319-84-6	0.05	mg/kg	----	----	<0.05	----	----	
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	----	----	<0.05	----	----	
beta-BHC	319-85-7	0.05	mg/kg	----	----	<0.05	----	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP58-0.1	TP58-0.5	TP59-0.2	TP59-0.5	TP60-0.1
Sampling date / time					22-Feb-2024 00:00	22-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	22-Feb-2024 00:00
Compound	CAS Number	LOR	Unit	EB2406402-050	EB2406402-051	EB2406402-052	EB2406402-053	EB2406402-055	
				Result	Result	Result	Result	Result	
EP068A: Organochlorine Pesticides (OC) - Continued									
gamma-BHC	58-89-9	0.05	mg/kg	----	----	<0.05	----	----	
delta-BHC	319-86-8	0.05	mg/kg	----	----	<0.05	----	----	
Heptachlor	76-44-8	0.05	mg/kg	----	----	<0.05	----	----	
Aldrin	309-00-2	0.05	mg/kg	----	----	<0.05	----	----	
Heptachlor epoxide	1024-57-3	0.05	mg/kg	----	----	<0.05	----	----	
[^] Total Chlordane (sum)	----	0.05	mg/kg	----	----	<0.05	----	----	
trans-Chlordane	5103-74-2	0.05	mg/kg	----	----	<0.05	----	----	
alpha-Endosulfan	959-98-8	0.05	mg/kg	----	----	<0.05	----	----	
cis-Chlordane	5103-71-9	0.05	mg/kg	----	----	<0.05	----	----	
Dieldrin	60-57-1	0.05	mg/kg	----	----	<0.05	----	----	
4,4'-DDE	72-55-9	0.05	mg/kg	----	----	<0.05	----	----	
Endrin	72-20-8	0.05	mg/kg	----	----	<0.05	----	----	
beta-Endosulfan	33213-65-9	0.05	mg/kg	----	----	<0.05	----	----	
[^] Endosulfan (sum)	115-29-7	0.05	mg/kg	----	----	<0.05	----	----	
4,4'-DDD	72-54-8	0.05	mg/kg	----	----	<0.05	----	----	
Endrin aldehyde	7421-93-4	0.05	mg/kg	----	----	<0.05	----	----	
Endosulfan sulfate	1031-07-8	0.05	mg/kg	----	----	<0.05	----	----	
4,4'-DDT	50-29-3	0.2	mg/kg	----	----	<0.2	----	----	
Endrin ketone	53494-70-5	0.05	mg/kg	----	----	<0.05	----	----	
Methoxychlor	72-43-5	0.2	mg/kg	----	----	<0.2	----	----	
[^] Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	----	----	<0.05	----	----	
[^] Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-29-3	0.05	mg/kg	----	----	<0.05	----	----	
EP068B: Organophosphorus Pesticides (OP)									
Dichlorvos	62-73-7	0.05	mg/kg	----	----	<0.05	----	----	
Demeton-S-methyl	919-86-8	0.05	mg/kg	----	----	<0.05	----	----	
Monocrotophos	6923-22-4	0.2	mg/kg	----	----	<0.2	----	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP58-0.1	TP58-0.5	TP59-0.2	TP59-0.5	TP60-0.1
Sampling date / time					22-Feb-2024 00:00	22-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	22-Feb-2024 00:00
Compound	CAS Number	LOR	Unit	EB2406402-050	EB2406402-051	EB2406402-052	EB2406402-053	EB2406402-055	
				Result	Result	Result	Result	Result	
EP068B: Organophosphorus Pesticides (OP) - Continued									
Dimethoate	60-51-5	0.05	mg/kg	----	----	<0.05	----	----	
Diazinon	333-41-5	0.05	mg/kg	----	----	<0.05	----	----	
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	----	----	<0.05	----	----	
Parathion-methyl	298-00-0	0.2	mg/kg	----	----	<0.2	----	----	
Malathion	121-75-5	0.05	mg/kg	----	----	<0.05	----	----	
Fenthion	55-38-9	0.05	mg/kg	----	----	<0.05	----	----	
Chlorpyrifos	2921-88-2	0.05	mg/kg	----	----	<0.05	----	----	
Parathion	56-38-2	0.2	mg/kg	----	----	<0.2	----	----	
Pirimphos-ethyl	23505-41-1	0.05	mg/kg	----	----	<0.05	----	----	
Chlorfenvinphos	470-90-6	0.05	mg/kg	----	----	<0.05	----	----	
Bromophos-ethyl	4824-78-6	0.05	mg/kg	----	----	<0.05	----	----	
Fenamiphos	22224-92-6	0.05	mg/kg	----	----	<0.05	----	----	
Prothiofos	34643-46-4	0.05	mg/kg	----	----	<0.05	----	----	
Ethion	563-12-2	0.05	mg/kg	----	----	<0.05	----	----	
Carbophenothion	786-19-6	0.05	mg/kg	----	----	<0.05	----	----	
Azinphos Methyl	86-50-0	0.05	mg/kg	----	----	<0.05	----	----	
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	0.5	mg/kg	----	----	<0.5	----	----	
Acenaphthylene	208-96-8	0.5	mg/kg	----	----	<0.5	----	----	
Acenaphthene	83-32-9	0.5	mg/kg	----	----	<0.5	----	----	
Fluorene	86-73-7	0.5	mg/kg	----	----	<0.5	----	----	
Phenanthrene	85-01-8	0.5	mg/kg	----	----	<0.5	----	----	
Anthracene	120-12-7	0.5	mg/kg	----	----	<0.5	----	----	
Fluoranthene	206-44-0	0.5	mg/kg	----	----	<0.5	----	----	
Pyrene	129-00-0	0.5	mg/kg	----	----	<0.5	----	----	
Benz(a)anthracene	56-55-3	0.5	mg/kg	----	----	<0.5	----	----	
Chrysene	218-01-9	0.5	mg/kg	----	----	<0.5	----	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP58-0.1	TP58-0.5	TP59-0.2	TP59-0.5	TP60-0.1
Sampling date / time					22-Feb-2024 00:00	22-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	22-Feb-2024 00:00
Compound	CAS Number	LOR	Unit	EB2406402-050	EB2406402-051	EB2406402-052	EB2406402-053	EB2406402-055	
				Result	Result	Result	Result	Result	
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued									
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	----	----	<0.5	----	----	
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	----	----	<0.5	----	----	
Benzo(a)pyrene	50-32-8	0.5	mg/kg	----	----	<0.5	----	----	
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	----	----	<0.5	----	----	
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	----	----	<0.5	----	----	
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	----	----	<0.5	----	----	
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	----	----	<0.5	----	----	
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	----	----	<0.5	----	----	
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	----	----	0.6	----	----	
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	----	----	1.2	----	----	
EP075A: Phenolic Compounds									
Phenol	108-95-2	0.5	mg/kg	----	----	<0.5	<0.5	----	
2-Chlorophenol	95-57-8	0.5	mg/kg	----	----	<0.5	<0.5	----	
2-Methylphenol	95-48-7	0.5	mg/kg	----	----	<0.5	<0.5	----	
3- & 4-Methylphenol	1319-77-3	0.5	mg/kg	----	----	<0.5	<0.5	----	
2-Nitrophenol	88-75-5	0.5	mg/kg	----	----	<0.5	<0.5	----	
2.4-Dimethylphenol	105-67-9	0.5	mg/kg	----	----	<0.5	<0.5	----	
2.4-Dichlorophenol	120-83-2	0.5	mg/kg	----	----	<0.5	<0.5	----	
2.6-Dichlorophenol	87-65-0	0.5	mg/kg	----	----	<0.5	<0.5	----	
4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg	----	----	<0.5	<0.5	----	
2.4.6-Trichlorophenol	88-06-2	0.5	mg/kg	----	----	<0.5	<0.5	----	
2.4.5-Trichlorophenol	95-95-4	0.5	mg/kg	----	----	<0.5	<0.5	----	
Pentachlorophenol	87-86-5	1	mg/kg	----	----	<1	<1	----	
EP075B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	0.5	mg/kg	----	----	<0.5	<0.5	----	
2-Methylnaphthalene	91-57-6	0.5	mg/kg	----	----	<0.5	<0.5	----	
2-Chloronaphthalene	91-58-7	0.5	mg/kg	----	----	<0.5	<0.5	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP58-0.1	TP58-0.5	TP59-0.2	TP59-0.5	TP60-0.1
Sampling date / time					22-Feb-2024 00:00	22-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	22-Feb-2024 00:00
Compound	CAS Number	LOR	Unit	EB2406402-050	EB2406402-051	EB2406402-052	EB2406402-053	EB2406402-055	
				Result	Result	Result	Result	Result	
EP075B: Polynuclear Aromatic Hydrocarbons - Continued									
Acenaphthylene	208-96-8	0.5	mg/kg	----	----	<0.5	<0.5	----	
Acenaphthene	83-32-9	0.5	mg/kg	----	----	<0.5	<0.5	----	
Fluorene	86-73-7	0.5	mg/kg	----	----	<0.5	<0.5	----	
Phenanthrene	85-01-8	0.5	mg/kg	----	----	<0.5	<0.5	----	
Anthracene	120-12-7	0.5	mg/kg	----	----	<0.5	<0.5	----	
Fluoranthene	206-44-0	0.5	mg/kg	----	----	<0.5	<0.5	----	
Pyrene	129-00-0	0.5	mg/kg	----	----	<0.5	<0.5	----	
N-2-Fluorenyl Acetamide	53-96-3	0.5	mg/kg	----	----	<0.5	<0.5	----	
Benz(a)anthracene	56-55-3	0.5	mg/kg	----	----	<0.5	<0.5	----	
Chrysene	218-01-9	0.5	mg/kg	----	----	<0.5	<0.5	----	
Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1	mg/kg	----	----	<1	<1	----	
7.12-Dimethylbenz(a)anthracene	57-97-6	0.5	mg/kg	----	----	<0.5	<0.5	----	
Benzo(a)pyrene	50-32-8	0.5	mg/kg	----	----	<0.5	<0.5	----	
3-Methylcholanthrene	56-49-5	0.5	mg/kg	----	----	<0.5	<0.5	----	
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	----	----	<0.5	<0.5	----	
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	----	----	<0.5	<0.5	----	
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	----	----	<0.5	<0.5	----	
[^] Sum of PAHs	----	0.5	mg/kg	----	----	<0.5	<0.5	----	
[^] Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	----	----	<0.5	<0.5	----	
[^] Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	----	----	0.6	0.6	----	
[^] Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	----	----	1.2	1.2	----	
EP075C: Phthalate Esters									
Dimethyl phthalate	131-11-3	0.5	mg/kg	----	----	<0.5	<0.5	----	
Diethyl phthalate	84-66-2	0.5	mg/kg	----	----	<0.5	<0.5	----	
Di-n-butyl phthalate	84-74-2	0.5	mg/kg	----	----	<0.5	<0.5	----	
Butyl benzyl phthalate	85-68-7	0.5	mg/kg	----	----	<0.5	<0.5	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP58-0.1	TP58-0.5	TP59-0.2	TP59-0.5	TP60-0.1
Sampling date / time					22-Feb-2024 00:00	22-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	22-Feb-2024 00:00
Compound	CAS Number	LOR	Unit	EB2406402-050	EB2406402-051	EB2406402-052	EB2406402-053	EB2406402-055	
				Result	Result	Result	Result	Result	
EP075C: Phthalate Esters - Continued									
bis(2-ethylhexyl) phthalate	117-81-7	5.0	mg/kg	----	----	<5.0	<5.0	----	
Di-n-octylphthalate	117-84-0	0.5	mg/kg	----	----	<0.5	<0.5	----	
EP075D: Nitrosamines									
N-Nitrosomethylethylamine	10595-95-6	0.5	mg/kg	----	----	<0.5	<0.5	----	
N-Nitrosodiethylamine	55-18-5	0.5	mg/kg	----	----	<0.5	<0.5	----	
N-Nitrosopyrrolidine	930-55-2	1.0	mg/kg	----	----	<1.0	<1.0	----	
N-Nitrosomorpholine	59-89-2	0.5	mg/kg	----	----	<0.5	<0.5	----	
N-Nitrosodi-n-propylamine	621-64-7	0.5	mg/kg	----	----	<0.5	<0.5	----	
N-Nitrosopiperidine	100-75-4	0.5	mg/kg	----	----	<0.5	<0.5	----	
N-Nitrosodibutylamine	924-16-3	0.5	mg/kg	----	----	<0.5	<0.5	----	
N-Nitrosodiphenyl & Diphenylamine	86-30-6 122-39-4	1.0	mg/kg	----	----	<1.0	<1.0	----	
Methapyrilene	91-80-5	0.5	mg/kg	----	----	<0.5	<0.5	----	
EP075E: Nitroaromatics and Ketones									
2-Picoline	109-06-8	0.5	mg/kg	----	----	<0.5	<0.5	----	
Acetophenone	98-86-2	0.5	mg/kg	----	----	<0.5	<0.5	----	
Nitrobenzene	98-95-3	0.5	mg/kg	----	----	<0.5	<0.5	----	
Isophorone	78-59-1	0.5	mg/kg	----	----	<0.5	<0.5	----	
2,6-Dinitrotoluene	606-20-2	1.0	mg/kg	----	----	<1.0	<1.0	----	
2,4-Dinitrotoluene	121-14-2	1.0	mg/kg	----	----	<1.0	<1.0	----	
1-Naphthylamine	134-32-7	0.5	mg/kg	----	----	<0.5	<0.5	----	
4-Nitroquinoline-N-oxide	56-57-5	0.5	mg/kg	----	----	<0.5	<0.5	----	
5-Nitro-o-toluidine	99-55-8	0.5	mg/kg	----	----	<0.5	<0.5	----	
Azobenzene	103-33-3	1	mg/kg	----	----	<1	<1	----	
1,3,5-Trinitrobenzene	99-35-4	0.5	mg/kg	----	----	<0.5	<0.5	----	
Phenacetin	62-44-2	0.5	mg/kg	----	----	<0.5	<0.5	----	
4-Aminobiphenyl	92-67-1	0.5	mg/kg	----	----	<0.5	<0.5	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP58-0.1	TP58-0.5	TP59-0.2	TP59-0.5	TP60-0.1
Sampling date / time					22-Feb-2024 00:00	22-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	22-Feb-2024 00:00
Compound	CAS Number	LOR	Unit	EB2406402-050	EB2406402-051	EB2406402-052	EB2406402-053	EB2406402-055	
				Result	Result	Result	Result	Result	
EP075E: Nitroaromatics and Ketones - Continued									
Pentachloronitrobenzene	82-68-8	0.5	mg/kg	----	----	<0.5	<0.5	----	
Pronamide	23950-58-5	0.5	mg/kg	----	----	<0.5	<0.5	----	
Dimethylaminoazobenzene	60-11-7	0.5	mg/kg	----	----	<0.5	<0.5	----	
Chlorobenzilate	510-15-6	0.5	mg/kg	----	----	<0.5	<0.5	----	
EP075F: Haloethers									
Bis(2-chloroethyl) ether	111-44-4	0.5	mg/kg	----	----	<0.5	<0.5	----	
Bis(2-chloroethoxy) methane	111-91-1	0.5	mg/kg	----	----	<0.5	<0.5	----	
4-Chlorophenyl phenyl ether	7005-72-3	0.5	mg/kg	----	----	<0.5	<0.5	----	
4-Bromophenyl phenyl ether	101-55-3	0.5	mg/kg	----	----	<0.5	<0.5	----	
EP075G: Chlorinated Hydrocarbons									
1,3-Dichlorobenzene	541-73-1	0.5	mg/kg	----	----	<0.5	<0.5	----	
1,4-Dichlorobenzene	106-46-7	0.5	mg/kg	----	----	<0.5	<0.5	----	
1,2-Dichlorobenzene	95-50-1	0.5	mg/kg	----	----	<0.5	<0.5	----	
Hexachloroethane	67-72-1	0.5	mg/kg	----	----	<0.5	<0.5	----	
1,2,4-Trichlorobenzene	120-82-1	0.5	mg/kg	----	----	<0.5	<0.5	----	
Hexachloropropylene	1888-71-7	0.5	mg/kg	----	----	<0.5	<0.5	----	
Hexachlorobutadiene	87-68-3	0.5	mg/kg	----	----	<0.5	<0.5	----	
Hexachlorocyclopentadiene	77-47-4	2.5	mg/kg	----	----	<2.5	<2.5	----	
Pentachlorobenzene	608-93-5	0.5	mg/kg	----	----	<0.5	<0.5	----	
Hexachlorobenzene (HCB)	118-74-1	1.0	mg/kg	----	----	<1.0	<1.0	----	
EP075H: Anilines and Benzidines									
Aniline	62-53-3	0.5	mg/kg	----	----	<0.5	<0.5	----	
4-Chloroaniline	106-47-8	0.5	mg/kg	----	----	<0.5	<0.5	----	
2-Nitroaniline	88-74-4	1.0	mg/kg	----	----	<1.0	<1.0	----	
3-Nitroaniline	99-09-2	1.0	mg/kg	----	----	<1.0	<1.0	----	
Dibenzofuran	132-64-9	0.5	mg/kg	----	----	<0.5	<0.5	----	
4-Nitroaniline	100-01-6	0.5	mg/kg	----	----	<0.5	<0.5	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP58-0.1	TP58-0.5	TP59-0.2	TP59-0.5	TP60-0.1
Sampling date / time					22-Feb-2024 00:00	22-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	22-Feb-2024 00:00
Compound	CAS Number	LOR	Unit	EB2406402-050	EB2406402-051	EB2406402-052	EB2406402-053	EB2406402-055	
				Result	Result	Result	Result	Result	
EP075H: Anilines and Benzidines - Continued									
Carbazole	86-74-8	0.5	mg/kg	----	----	<0.5	<0.5	----	
3,3'-Dichlorobenzidine	91-94-1	0.5	mg/kg	----	----	<0.5	<0.5	----	
EP075I: Organochlorine Pesticides									
alpha-BHC	319-84-6	0.5	mg/kg	----	----	<0.5	<0.5	----	
beta-BHC	319-85-7	0.5	mg/kg	----	----	<0.5	<0.5	----	
gamma-BHC	58-89-9	0.5	mg/kg	----	----	<0.5	<0.5	----	
delta-BHC	319-86-8	0.5	mg/kg	----	----	<0.5	<0.5	----	
Heptachlor	76-44-8	0.5	mg/kg	----	----	<0.5	<0.5	----	
Aldrin	309-00-2	0.5	mg/kg	----	----	<0.5	<0.5	----	
Heptachlor epoxide	1024-57-3	0.5	mg/kg	----	----	<0.5	<0.5	----	
alpha-Endosulfan	959-98-8	0.5	mg/kg	----	----	<0.5	<0.5	----	
4,4'-DDE	72-55-9	0.5	mg/kg	----	----	<0.5	<0.5	----	
Dieldrin	60-57-1	0.5	mg/kg	----	----	<0.5	<0.5	----	
Endrin	72-20-8	0.5	mg/kg	----	----	<0.5	<0.5	----	
beta-Endosulfan	33213-65-9	0.5	mg/kg	----	----	<0.5	<0.5	----	
4,4'-DDD	72-54-8	0.5	mg/kg	----	----	<0.5	<0.5	----	
Endosulfan sulfat	1031-07-8	0.5	mg/kg	----	----	<0.5	<0.5	----	
4,4'-DDT	50-29-3	1.0	mg/kg	----	----	<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	----	
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.5	mg/kg	----	----	<0.5	<0.5	----	
EP075J: Organophosphorus Pesticides									
Dichlorvos	62-73-7	0.5	mg/kg	----	----	<0.5	<0.5	----	
Dimethoate	60-51-5	0.5	mg/kg	----	----	<0.5	<0.5	----	
Diazinon	333-41-5	0.5	mg/kg	----	----	<0.5	<0.5	----	
Chlorpyrifos-methyl	5598-13-0	0.5	mg/kg	----	----	<0.5	<0.5	----	
Malathion	121-75-5	0.5	mg/kg	----	----	<0.5	<0.5	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP58-0.1	TP58-0.5	TP59-0.2	TP59-0.5	TP60-0.1
Sampling date / time				22-Feb-2024 00:00	22-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	22-Feb-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2406402-050	EB2406402-051	EB2406402-052	EB2406402-053	EB2406402-055	
				Result	Result	Result	Result	Result	
EP075J: Organophosphorus Pesticides - Continued									
Fenthion	55-38-9	0.5	mg/kg	----	----	<0.5	<0.5	----	
Chlorpyrifos	2921-88-2	0.5	mg/kg	----	----	<0.5	<0.5	----	
Pirimphos-ethyl	23505-41-1	0.5	mg/kg	----	----	<0.5	<0.5	----	
Chlorfenvinphos	470-90-6	0.5	mg/kg	----	----	<0.5	<0.5	----	
Prothiofos	34643-46-4	0.5	mg/kg	----	----	<0.5	<0.5	----	
Ethion	563-12-2	0.5	mg/kg	----	----	<0.5	<0.5	----	
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	10	mg/kg	----	----	<10	<10	----	
C10 - C14 Fraction	----	50	mg/kg	----	----	<50	<50	----	
C15 - C28 Fraction	----	100	mg/kg	----	----	<100	<100	----	
C29 - C36 Fraction	----	100	mg/kg	----	----	<100	<100	----	
[^] C10 - C36 Fraction (sum)	----	50	mg/kg	----	----	<50	<50	----	
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg	----	----	<10	<10	----	
[^] C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	----	----	<10	<10	----	
>C10 - C16 Fraction	----	50	mg/kg	----	----	<50	<50	----	
>C16 - C34 Fraction	----	100	mg/kg	----	----	<100	<100	----	
>C34 - C40 Fraction	----	100	mg/kg	----	----	<100	<100	----	
[^] >C10 - C40 Fraction (sum)	----	50	mg/kg	----	----	<50	<50	----	
[^] >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	----	----	<50	<50	----	
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg	----	----	<0.2	<0.2	----	
Toluene	108-88-3	0.5	mg/kg	----	----	<0.5	<0.5	----	
Ethylbenzene	100-41-4	0.5	mg/kg	----	----	<0.5	<0.5	----	
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	----	----	<0.5	<0.5	----	
ortho-Xylene	95-47-6	0.5	mg/kg	----	----	<0.5	<0.5	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP58-0.1	TP58-0.5	TP59-0.2	TP59-0.5	TP60-0.1
Sampling date / time				22-Feb-2024 00:00	22-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	22-Feb-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2406402-050	EB2406402-051	EB2406402-052	EB2406402-053	EB2406402-055	
				Result	Result	Result	Result	Result	
EP080: BTEXN - Continued									
^ Sum of BTEX	----	0.2	mg/kg	----	----	<0.2	<0.2	----	
^ Total Xylenes	----	0.5	mg/kg	----	----	<0.5	<0.5	----	
Naphthalene	91-20-3	1	mg/kg	----	----	<1	<1	----	
EP066S: PCB Surrogate									
Decachlorobiphenyl	2051-24-3	0.1	%	----	----	115	----	----	
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.05	%	----	----	114	----	----	
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.05	%	----	----	98.0	----	----	
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	0.5	%	----	----	114	----	----	
2-Chlorophenol-D4	93951-73-6	0.5	%	----	----	111	----	----	
2,4,6-Tribromophenol	118-79-6	0.5	%	----	----	119	----	----	
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	0.5	%	----	----	97.4	----	----	
Anthracene-d10	1719-06-8	0.5	%	----	----	115	----	----	
4-Terphenyl-d14	1718-51-0	0.5	%	----	----	121	----	----	
EP075S: Acid Extractable Surrogates									
2-Fluorophenol	367-12-4	0.5	%	----	----	133	104	----	
Phenol-d6	13127-88-3	0.5	%	----	----	113	91.0	----	
2-Chlorophenol-D4	93951-73-6	0.5	%	----	----	118	93.4	----	
2,4,6-Tribromophenol	118-79-6	0.5	%	----	----	82.5	63.1	----	
EP075T: Base/Neutral Extractable Surrogates									
Nitrobenzene-D5	4165-60-0	0.5	%	----	----	103	80.8	----	
1,2-Dichlorobenzene-D4	2199-69-1	0.5	%	----	----	74.0	53.4	----	
2-Fluorobiphenyl	321-60-8	0.5	%	----	----	111	82.8	----	
Anthracene-d10	1719-06-8	0.5	%	----	----	108	94.4	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP58-0.1	TP58-0.5	TP59-0.2	TP59-0.5	TP60-0.1
Sampling date / time				22-Feb-2024 00:00	22-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	22-Feb-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2406402-050	EB2406402-051	EB2406402-052	EB2406402-053	EB2406402-055	
				Result	Result	Result	Result	Result	
EP075T: Base/Neutral Extractable Surrogates - Continued									
4-Terphenyl-d14	1718-51-0	0.5	%	----	----	126	116	----	
EP080S: TPH(V)/BTEX Surrogates									
1,2-Dichloroethane-D4	17060-07-0	0.2	%	----	----	86.3	89.3	----	
Toluene-D8	2037-26-5	0.2	%	----	----	87.9	88.0	----	
4-Bromofluorobenzene	460-00-4	0.2	%	----	----	106	107	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP60-0.5	TP61-0.1	TP62-0.1	TP62-0.5	TP63-0.1
Sampling date / time				22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00
Compound	CAS Number	LOR	Unit	EB2406402-056	EB2406402-057	EB2406402-058	EB2406402-059	EB2406402-060	
				Result	Result	Result	Result	Result	
EA055: Moisture Content									
Moisture Content	----	1.0	%	18.8	----	----	----	----	----
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	1.0	%	----	13.0	13.4	20.7	21.5	
EA200: AS 4964 - 2004 Identification of Asbestos in Soils									
Asbestos Detected	1332-21-4	0.1	g/kg	----	No	----	----	----	----
Asbestos (Trace)	1332-21-4	-	-	----	No	----	----	----	----
Asbestos Type	1332-21-4	-	--	----	-	----	----	----	----
Sample weight (dry)	----	0.01	g	----	10.8	----	----	----	----
APPROVED IDENTIFIER:	----	-	--	----	M. TRAN	----	----	----	----
Synthetic Mineral Fibre	----	-	--	----	No	----	----	----	----
Organic Fibre	----	-	--	----	Yes	----	----	----	----
EG005(ED093)T: Total Metals by ICP-AES									
Arsenic	7440-38-2	5	mg/kg	<5	<5	<5	<5	<5	<5
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1	<1
Chromium	7440-47-3	2	mg/kg	30	8	25	48	29	
Copper	7440-50-8	5	mg/kg	<5	<5	<5	<5	<5	<5
Lead	7439-92-1	5	mg/kg	<5	7	15	10	14	
Nickel	7440-02-0	2	mg/kg	<2	<2	<2	<2	<2	<2
Zinc	7440-66-6	5	mg/kg	<5	<5	<5	<5	5	
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EP066: Polychlorinated Biphenyls (PCB)									
Total Polychlorinated biphenyls	----	0.1	mg/kg	----	----	<0.1	----	----	----
EP068A: Organochlorine Pesticides (OC)									
alpha-BHC	319-84-6	0.05	mg/kg	----	----	<0.05	----	----	----
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	----	----	<0.05	----	----	----
beta-BHC	319-85-7	0.05	mg/kg	----	----	<0.05	----	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP60-0.5	TP61-0.1	TP62-0.1	TP62-0.5	TP63-0.1
Sampling date / time				22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2406402-056	EB2406402-057	EB2406402-058	EB2406402-059	EB2406402-060	
				Result	Result	Result	Result	Result	
EP068A: Organochlorine Pesticides (OC) - Continued									
gamma-BHC	58-89-9	0.05	mg/kg	----	----	<0.05	----	----	
delta-BHC	319-86-8	0.05	mg/kg	----	----	<0.05	----	----	
Heptachlor	76-44-8	0.05	mg/kg	----	----	<0.05	----	----	
Aldrin	309-00-2	0.05	mg/kg	----	----	<0.05	----	----	
Heptachlor epoxide	1024-57-3	0.05	mg/kg	----	----	<0.05	----	----	
[^] Total Chlordane (sum)	----	0.05	mg/kg	----	----	<0.05	----	----	
trans-Chlordane	5103-74-2	0.05	mg/kg	----	----	<0.05	----	----	
alpha-Endosulfan	959-98-8	0.05	mg/kg	----	----	<0.05	----	----	
cis-Chlordane	5103-71-9	0.05	mg/kg	----	----	<0.05	----	----	
Dieldrin	60-57-1	0.05	mg/kg	----	----	<0.05	----	----	
4,4'-DDE	72-55-9	0.05	mg/kg	----	----	<0.05	----	----	
Endrin	72-20-8	0.05	mg/kg	----	----	<0.05	----	----	
beta-Endosulfan	33213-65-9	0.05	mg/kg	----	----	<0.05	----	----	
[^] Endosulfan (sum)	115-29-7	0.05	mg/kg	----	----	<0.05	----	----	
4,4'-DDD	72-54-8	0.05	mg/kg	----	----	<0.05	----	----	
Endrin aldehyde	7421-93-4	0.05	mg/kg	----	----	<0.05	----	----	
Endosulfan sulfate	1031-07-8	0.05	mg/kg	----	----	<0.05	----	----	
4,4'-DDT	50-29-3	0.2	mg/kg	----	----	<0.2	----	----	
Endrin ketone	53494-70-5	0.05	mg/kg	----	----	<0.05	----	----	
Methoxychlor	72-43-5	0.2	mg/kg	----	----	<0.2	----	----	
[^] Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	----	----	<0.05	----	----	
[^] Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-29-3	0.05	mg/kg	----	----	<0.05	----	----	
EP068B: Organophosphorus Pesticides (OP)									
Dichlorvos	62-73-7	0.05	mg/kg	----	----	<0.05	----	----	
Demeton-S-methyl	919-86-8	0.05	mg/kg	----	----	<0.05	----	----	
Monocrotophos	6923-22-4	0.2	mg/kg	----	----	<0.2	----	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP60-0.5	TP61-0.1	TP62-0.1	TP62-0.5	TP63-0.1
Sampling date / time				22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00
Compound	CAS Number	LOR	Unit	EB2406402-056	EB2406402-057	EB2406402-058	EB2406402-059	EB2406402-060	
				Result	Result	Result	Result	Result	
EP068B: Organophosphorus Pesticides (OP) - Continued									
Dimethoate	60-51-5	0.05	mg/kg	----	----	<0.05	----	----	
Diazinon	333-41-5	0.05	mg/kg	----	----	<0.05	----	----	
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	----	----	<0.05	----	----	
Parathion-methyl	298-00-0	0.2	mg/kg	----	----	<0.2	----	----	
Malathion	121-75-5	0.05	mg/kg	----	----	<0.05	----	----	
Fenthion	55-38-9	0.05	mg/kg	----	----	<0.05	----	----	
Chlorpyrifos	2921-88-2	0.05	mg/kg	----	----	<0.05	----	----	
Parathion	56-38-2	0.2	mg/kg	----	----	<0.2	----	----	
Pirimphos-ethyl	23505-41-1	0.05	mg/kg	----	----	<0.05	----	----	
Chlorfenvinphos	470-90-6	0.05	mg/kg	----	----	<0.05	----	----	
Bromophos-ethyl	4824-78-6	0.05	mg/kg	----	----	<0.05	----	----	
Fenamiphos	22224-92-6	0.05	mg/kg	----	----	<0.05	----	----	
Prothiofos	34643-46-4	0.05	mg/kg	----	----	<0.05	----	----	
Ethion	563-12-2	0.05	mg/kg	----	----	<0.05	----	----	
Carbophenothion	786-19-6	0.05	mg/kg	----	----	<0.05	----	----	
Azinphos Methyl	86-50-0	0.05	mg/kg	----	----	<0.05	----	----	
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	0.5	mg/kg	----	----	<0.5	----	----	
Acenaphthylene	208-96-8	0.5	mg/kg	----	----	<0.5	----	----	
Acenaphthene	83-32-9	0.5	mg/kg	----	----	<0.5	----	----	
Fluorene	86-73-7	0.5	mg/kg	----	----	<0.5	----	----	
Phenanthrene	85-01-8	0.5	mg/kg	----	----	<0.5	----	----	
Anthracene	120-12-7	0.5	mg/kg	----	----	<0.5	----	----	
Fluoranthene	206-44-0	0.5	mg/kg	----	----	<0.5	----	----	
Pyrene	129-00-0	0.5	mg/kg	----	----	<0.5	----	----	
Benz(a)anthracene	56-55-3	0.5	mg/kg	----	----	<0.5	----	----	
Chrysene	218-01-9	0.5	mg/kg	----	----	<0.5	----	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP60-0.5	TP61-0.1	TP62-0.1	TP62-0.5	TP63-0.1
Sampling date / time					22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406402-056	EB2406402-057	EB2406402-058	EB2406402-059	EB2406402-060
					Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued									
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	----	----	----	<0.5	----	----
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	----	----	----	<0.5	----	----
Benzo(a)pyrene	50-32-8	0.5	mg/kg	----	----	----	<0.5	----	----
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	----	----	----	<0.5	----	----
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	----	----	----	<0.5	----	----
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	----	----	----	<0.5	----	----
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	----	----	----	<0.5	----	----
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	----	----	----	<0.5	----	----
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	----	----	----	0.6	----	----
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	----	----	----	1.2	----	----
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	10	mg/kg	<10	----	----	<10	----	----
C10 - C14 Fraction	----	50	mg/kg	<50	----	----	<50	----	----
C15 - C28 Fraction	----	100	mg/kg	140	----	----	<100	----	----
C29 - C36 Fraction	----	100	mg/kg	<100	----	----	<100	----	----
^ C10 - C36 Fraction (sum)	----	50	mg/kg	140	----	----	<50	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg	<10	----	----	<10	----	----
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<10	----	----	<10	----	----
>C10 - C16 Fraction	----	50	mg/kg	80	----	----	<50	----	----
>C16 - C34 Fraction	----	100	mg/kg	140	----	----	<100	----	----
>C34 - C40 Fraction	----	100	mg/kg	<100	----	----	<100	----	----
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	220	----	----	<50	----	----
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	80	----	----	<50	----	----
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg	<0.2	----	----	<0.2	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP60-0.5	TP61-0.1	TP62-0.1	TP62-0.5	TP63-0.1
Sampling date / time				22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2406402-056	EB2406402-057	EB2406402-058	EB2406402-059	EB2406402-060	
				Result	Result	Result	Result	Result	
EP080: BTEXN - Continued									
Toluene	108-88-3	0.5	mg/kg	<0.5	----	<0.5	----	----	
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	----	<0.5	----	----	
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	----	<0.5	----	----	
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	----	<0.5	----	----	
^ Sum of BTEX	----	0.2	mg/kg	<0.2	----	<0.2	----	----	
^ Total Xylenes	----	0.5	mg/kg	<0.5	----	<0.5	----	----	
Naphthalene	91-20-3	1	mg/kg	<1	----	<1	----	----	
EP066S: PCB Surrogate									
Decachlorobiphenyl	2051-24-3	0.1	%	----	----	120	----	----	
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.05	%	----	----	84.2	----	----	
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.05	%	----	----	72.5	----	----	
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	0.5	%	----	----	96.2	----	----	
2-Chlorophenol-D4	93951-73-6	0.5	%	----	----	93.6	----	----	
2,4,6-Tribromophenol	118-79-6	0.5	%	----	----	95.8	----	----	
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	0.5	%	----	----	80.7	----	----	
Anthracene-d10	1719-06-8	0.5	%	----	----	94.7	----	----	
4-Terphenyl-d14	1718-51-0	0.5	%	----	----	99.4	----	----	
EP080S: TPH(V)/BTEX Surrogates									
1,2-Dichloroethane-D4	17060-07-0	0.2	%	86.8	----	86.6	----	----	
Toluene-D8	2037-26-5	0.2	%	85.1	----	83.8	----	----	
4-Bromofluorobenzene	460-00-4	0.2	%	102	----	96.0	----	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP63-0.5	TP64-0.2	TP64-0.5	TP65-0.1	020930
Sampling date / time					22-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	22-Feb-2024 00:00	19-Feb-2024 00:00
Compound	CAS Number	LOR	Unit	EB2406402-061	EB2406402-062	EB2406402-063	EB2406402-065	EB2406402-069	
				Result	Result	Result	Result	Result	
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	0.1	%	----	----	----	----	----	17.6
Moisture Content	----	1.0	%	23.7	20.7	23.0	20.4	----	----
EA200: AS 4964 - 2004 Identification of Asbestos in Soils									
Asbestos Detected	1332-21-4	0.1	g/kg	----	----	----	No	----	----
Asbestos (Trace)	1332-21-4	-	-	----	----	----	No	----	----
Asbestos Type	1332-21-4	-	--	----	----	----	-	----	----
Sample weight (dry)	----	0.01	g	----	----	----	6.70	----	----
APPROVED IDENTIFIER:	----	-	--	----	----	----	M. TRAN	----	----
Synthetic Mineral Fibre	----	-	--	----	----	----	No	----	----
Organic Fibre	----	-	--	----	----	----	Yes	----	----
EG005(ED093)T: Total Metals by ICP-AES									
Arsenic	7440-38-2	5	mg/kg	6	<5	10	<5	----	----
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	----	----
Chromium	7440-47-3	2	mg/kg	77	17	39	16	----	----
Copper	7440-50-8	5	mg/kg	<5	<5	<5	<5	----	----
Lead	7439-92-1	5	mg/kg	13	19	9	15	----	----
Nickel	7440-02-0	2	mg/kg	<2	<2	<2	<2	----	----
Zinc	7440-66-6	5	mg/kg	<5	17	<5	<5	----	----
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	----	----
EP066: Polychlorinated Biphenyls (PCB)									
Total Polychlorinated biphenyls	----	0.1	mg/kg	----	----	----	<0.1	----	----
EP068A: Organochlorine Pesticides (OC)									
alpha-BHC	319-84-6	0.05	mg/kg	----	----	----	<0.05	----	----
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	----	----	----	<0.05	----	----
beta-BHC	319-85-7	0.05	mg/kg	----	----	----	<0.05	----	----
gamma-BHC	58-89-9	0.05	mg/kg	----	----	----	<0.05	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP63-0.5	TP64-0.2	TP64-0.5	TP65-0.1	020930
Sampling date / time					22-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	22-Feb-2024 00:00	19-Feb-2024 00:00
Compound	CAS Number	LOR	Unit	EB2406402-061	EB2406402-062	EB2406402-063	EB2406402-065	EB2406402-069	
				Result	Result	Result	Result	Result	
EP068A: Organochlorine Pesticides (OC) - Continued									
delta-BHC	319-86-8	0.05	mg/kg	----	----	----	<0.05	----	
Heptachlor	76-44-8	0.05	mg/kg	----	----	----	<0.05	----	
Aldrin	309-00-2	0.05	mg/kg	----	----	----	<0.05	----	
Heptachlor epoxide	1024-57-3	0.05	mg/kg	----	----	----	<0.05	----	
^ Total Chlordane (sum)	----	0.05	mg/kg	----	----	----	<0.05	----	
trans-Chlordane	5103-74-2	0.05	mg/kg	----	----	----	<0.05	----	
alpha-Endosulfan	959-98-8	0.05	mg/kg	----	----	----	<0.05	----	
cis-Chlordane	5103-71-9	0.05	mg/kg	----	----	----	<0.05	----	
Dieldrin	60-57-1	0.05	mg/kg	----	----	----	<0.05	----	
4.4'-DDE	72-55-9	0.05	mg/kg	----	----	----	<0.05	----	
Endrin	72-20-8	0.05	mg/kg	----	----	----	<0.05	----	
beta-Endosulfan	33213-65-9	0.05	mg/kg	----	----	----	<0.05	----	
^ Endosulfan (sum)	115-29-7	0.05	mg/kg	----	----	----	<0.05	----	
4.4'-DDD	72-54-8	0.05	mg/kg	----	----	----	<0.05	----	
Endrin aldehyde	7421-93-4	0.05	mg/kg	----	----	----	<0.05	----	
Endosulfan sulfate	1031-07-8	0.05	mg/kg	----	----	----	<0.05	----	
4.4'-DDT	50-29-3	0.2	mg/kg	----	----	----	<0.2	----	
Endrin ketone	53494-70-5	0.05	mg/kg	----	----	----	<0.05	----	
Methoxychlor	72-43-5	0.2	mg/kg	----	----	----	<0.2	----	
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	----	----	----	<0.05	----	
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.05	mg/kg	----	----	----	<0.05	----	
EP068B: Organophosphorus Pesticides (OP)									
Dichlorvos	62-73-7	0.05	mg/kg	----	----	----	<0.05	----	
Demeton-S-methyl	919-86-8	0.05	mg/kg	----	----	----	<0.05	----	
Monocrotophos	6923-22-4	0.2	mg/kg	----	----	----	<0.2	----	
Dimethoate	60-51-5	0.05	mg/kg	----	----	----	<0.05	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP63-0.5	TP64-0.2	TP64-0.5	TP65-0.1	020930
Sampling date / time					22-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	22-Feb-2024 00:00	19-Feb-2024 00:00
Compound	CAS Number	LOR	Unit	EB2406402-061	EB2406402-062	EB2406402-063	EB2406402-065	EB2406402-069	
				Result	Result	Result	Result	Result	
EP068B: Organophosphorus Pesticides (OP) - Continued									
Diazinon	333-41-5	0.05	mg/kg	----	----	----	<0.05	----	
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	----	----	----	<0.05	----	
Parathion-methyl	298-00-0	0.2	mg/kg	----	----	----	<0.2	----	
Malathion	121-75-5	0.05	mg/kg	----	----	----	<0.05	----	
Fenthion	55-38-9	0.05	mg/kg	----	----	----	<0.05	----	
Chlorpyrifos	2921-88-2	0.05	mg/kg	----	----	----	<0.05	----	
Parathion	56-38-2	0.2	mg/kg	----	----	----	<0.2	----	
Pirimphos-ethyl	23505-41-1	0.05	mg/kg	----	----	----	<0.05	----	
Chlorfenvinphos	470-90-6	0.05	mg/kg	----	----	----	<0.05	----	
Bromophos-ethyl	4824-78-6	0.05	mg/kg	----	----	----	<0.05	----	
Fenamiphos	22224-92-6	0.05	mg/kg	----	----	----	<0.05	----	
Prothiofos	34643-46-4	0.05	mg/kg	----	----	----	<0.05	----	
Ethion	563-12-2	0.05	mg/kg	----	----	----	<0.05	----	
Carbophenothion	786-19-6	0.05	mg/kg	----	----	----	<0.05	----	
Azinphos Methyl	86-50-0	0.05	mg/kg	----	----	----	<0.05	----	
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	0.5	mg/kg	----	----	----	<0.5	----	
Acenaphthylene	208-96-8	0.5	mg/kg	----	----	----	<0.5	----	
Acenaphthene	83-32-9	0.5	mg/kg	----	----	----	<0.5	----	
Fluorene	86-73-7	0.5	mg/kg	----	----	----	<0.5	----	
Phenanthrene	85-01-8	0.5	mg/kg	----	----	----	<0.5	----	
Anthracene	120-12-7	0.5	mg/kg	----	----	----	<0.5	----	
Fluoranthene	206-44-0	0.5	mg/kg	----	----	----	<0.5	----	
Pyrene	129-00-0	0.5	mg/kg	----	----	----	<0.5	----	
Benz(a)anthracene	56-55-3	0.5	mg/kg	----	----	----	<0.5	----	
Chrysene	218-01-9	0.5	mg/kg	----	----	----	<0.5	----	
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	----	----	----	<0.5	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP63-0.5	TP64-0.2	TP64-0.5	TP65-0.1	020930
Sampling date / time					22-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	22-Feb-2024 00:00	19-Feb-2024 00:00
Compound	CAS Number	LOR	Unit	EB2406402-061	EB2406402-062	EB2406402-063	EB2406402-065	EB2406402-069	
				Result	Result	Result	Result	Result	
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued									
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	----	----	----	<0.5	----	
Benzo(a)pyrene	50-32-8	0.5	mg/kg	----	----	----	<0.5	----	
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	----	----	----	<0.5	----	
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	----	----	----	<0.5	----	
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	----	----	----	<0.5	----	
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	----	----	----	<0.5	----	
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	----	----	----	<0.5	----	
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	----	----	----	0.6	----	
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	----	----	----	1.2	----	
EP075A: Phenolic Compounds									
Phenol	108-95-2	0.5	mg/kg	----	----	----	<0.5	----	
2-Chlorophenol	95-57-8	0.5	mg/kg	----	----	----	<0.5	----	
2-Methylphenol	95-48-7	0.5	mg/kg	----	----	----	<0.5	----	
3- & 4-Methylphenol	1319-77-3	0.5	mg/kg	----	----	----	<0.5	----	
2-Nitrophenol	88-75-5	0.5	mg/kg	----	----	----	<0.5	----	
2.4-Dimethylphenol	105-67-9	0.5	mg/kg	----	----	----	<0.5	----	
2.4-Dichlorophenol	120-83-2	0.5	mg/kg	----	----	----	<0.5	----	
2.6-Dichlorophenol	87-65-0	0.5	mg/kg	----	----	----	<0.5	----	
4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg	----	----	----	<0.5	----	
2.4.6-Trichlorophenol	88-06-2	0.5	mg/kg	----	----	----	<0.5	----	
2.4.5-Trichlorophenol	95-95-4	0.5	mg/kg	----	----	----	<0.5	----	
Pentachlorophenol	87-86-5	1	mg/kg	----	----	----	<1	----	
EP075B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	0.5	mg/kg	----	----	----	<0.5	----	
2-Methylnaphthalene	91-57-6	0.5	mg/kg	----	----	----	<0.5	----	
2-Chloronaphthalene	91-58-7	0.5	mg/kg	----	----	----	<0.5	----	
Acenaphthylene	208-96-8	0.5	mg/kg	----	----	----	<0.5	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP63-0.5	TP64-0.2	TP64-0.5	TP65-0.1	020930
Sampling date / time					22-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	22-Feb-2024 00:00	19-Feb-2024 00:00
Compound	CAS Number	LOR	Unit	EB2406402-061	EB2406402-062	EB2406402-063	EB2406402-065	EB2406402-069	EB2406402-069
				Result	Result	Result	Result	Result	Result
EP075B: Polynuclear Aromatic Hydrocarbons - Continued									
Acenaphthene	83-32-9	0.5	mg/kg	----	----	----	<0.5	----	----
Fluorene	86-73-7	0.5	mg/kg	----	----	----	<0.5	----	----
Phenanthrene	85-01-8	0.5	mg/kg	----	----	----	<0.5	----	----
Anthracene	120-12-7	0.5	mg/kg	----	----	----	<0.5	----	----
Fluoranthene	206-44-0	0.5	mg/kg	----	----	----	<0.5	----	----
Pyrene	129-00-0	0.5	mg/kg	----	----	----	<0.5	----	----
N-2-Fluorenyl Acetamide	53-96-3	0.5	mg/kg	----	----	----	<0.5	----	----
Benz(a)anthracene	56-55-3	0.5	mg/kg	----	----	----	<0.5	----	----
Chrysene	218-01-9	0.5	mg/kg	----	----	----	<0.5	----	----
Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1	mg/kg	----	----	----	<1	----	----
7.12-Dimethylbenz(a)anthracene	57-97-6	0.5	mg/kg	----	----	----	<0.5	----	----
Benzo(a)pyrene	50-32-8	0.5	mg/kg	----	----	----	<0.5	----	----
3-Methylcholanthrene	56-49-5	0.5	mg/kg	----	----	----	<0.5	----	----
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	----	----	----	<0.5	----	----
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	----	----	----	<0.5	----	----
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	----	----	----	<0.5	----	----
^ Sum of PAHs	----	0.5	mg/kg	----	----	----	<0.5	----	----
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	----	----	----	<0.5	----	----
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	----	----	----	0.6	----	----
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	----	----	----	1.2	----	----
EP075C: Phthalate Esters									
Dimethyl phthalate	131-11-3	0.5	mg/kg	----	----	----	<0.5	----	----
Diethyl phthalate	84-66-2	0.5	mg/kg	----	----	----	<0.5	----	----
Di-n-butyl phthalate	84-74-2	0.5	mg/kg	----	----	----	<0.5	----	----
Butyl benzyl phthalate	85-68-7	0.5	mg/kg	----	----	----	<0.5	----	----
bis(2-ethylhexyl) phthalate	117-81-7	5.0	mg/kg	----	----	----	<5.0	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP63-0.5	TP64-0.2	TP64-0.5	TP65-0.1	020930
Sampling date / time					22-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	22-Feb-2024 00:00	19-Feb-2024 00:00
Compound	CAS Number	LOR	Unit	EB2406402-061	EB2406402-062	EB2406402-063	EB2406402-065	EB2406402-069	EB2406402-069
				Result	Result	Result	Result	Result	Result
EP075C: Phthalate Esters - Continued									
Di-n-octylphthalate	117-84-0	0.5	mg/kg	----	----	----	<0.5	----	----
EP075D: Nitrosamines									
N-Nitrosomethylethylamine	10595-95-6	0.5	mg/kg	----	----	----	<0.5	----	----
N-Nitrosodiethylamine	55-18-5	0.5	mg/kg	----	----	----	<0.5	----	----
N-Nitrosopyrrolidine	930-55-2	1.0	mg/kg	----	----	----	<1.0	----	----
N-Nitrosomorpholine	59-89-2	0.5	mg/kg	----	----	----	<0.5	----	----
N-Nitrosodi-n-propylamine	621-64-7	0.5	mg/kg	----	----	----	<0.5	----	----
N-Nitrosopiperidine	100-75-4	0.5	mg/kg	----	----	----	<0.5	----	----
N-Nitrosodibutylamine	924-16-3	0.5	mg/kg	----	----	----	<0.5	----	----
N-Nitrosodiphenyl & Diphenylamine	86-30-6 122-39-4	1.0	mg/kg	----	----	----	<1.0	----	----
Methapyrilene	91-80-5	0.5	mg/kg	----	----	----	<0.5	----	----
EP075E: Nitroaromatics and Ketones									
2-Picoline	109-06-8	0.5	mg/kg	----	----	----	<0.5	----	----
Acetophenone	98-86-2	0.5	mg/kg	----	----	----	<0.5	----	----
Nitrobenzene	98-95-3	0.5	mg/kg	----	----	----	<0.5	----	----
Isophorone	78-59-1	0.5	mg/kg	----	----	----	<0.5	----	----
2,6-Dinitrotoluene	606-20-2	1.0	mg/kg	----	----	----	<1.0	----	----
2,4-Dinitrotoluene	121-14-2	1.0	mg/kg	----	----	----	<1.0	----	----
1-Naphthylamine	134-32-7	0.5	mg/kg	----	----	----	<0.5	----	----
4-Nitroquinoline-N-oxide	56-57-5	0.5	mg/kg	----	----	----	<0.5	----	----
5-Nitro-o-toluidine	99-55-8	0.5	mg/kg	----	----	----	<0.5	----	----
Azobenzene	103-33-3	1	mg/kg	----	----	----	<1	----	----
1,3,5-Trinitrobenzene	99-35-4	0.5	mg/kg	----	----	----	<0.5	----	----
Phenacetin	62-44-2	0.5	mg/kg	----	----	----	<0.5	----	----
4-Aminobiphenyl	92-67-1	0.5	mg/kg	----	----	----	<0.5	----	----
Pentachloronitrobenzene	82-68-8	0.5	mg/kg	----	----	----	<0.5	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP63-0.5	TP64-0.2	TP64-0.5	TP65-0.1	020930
Sampling date / time					22-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	22-Feb-2024 00:00	19-Feb-2024 00:00
Compound	CAS Number	LOR	Unit	EB2406402-061	EB2406402-062	EB2406402-063	EB2406402-065	EB2406402-069	
				Result	Result	Result	Result	Result	
EP075E: Nitroaromatics and Ketones - Continued									
Pronamide	23950-58-5	0.5	mg/kg	----	----	----	<0.5	----	
Dimethylaminoazobenzene	60-11-7	0.5	mg/kg	----	----	----	<0.5	----	
Chlorobenzilate	510-15-6	0.5	mg/kg	----	----	----	<0.5	----	
EP075F: Haloethers									
Bis(2-chloroethyl) ether	111-44-4	0.5	mg/kg	----	----	----	<0.5	----	
Bis(2-chloroethoxy) methane	111-91-1	0.5	mg/kg	----	----	----	<0.5	----	
4-Chlorophenyl phenyl ether	7005-72-3	0.5	mg/kg	----	----	----	<0.5	----	
4-Bromophenyl phenyl ether	101-55-3	0.5	mg/kg	----	----	----	<0.5	----	
EP075G: Chlorinated Hydrocarbons									
1,3-Dichlorobenzene	541-73-1	0.5	mg/kg	----	----	----	<0.5	----	
1,4-Dichlorobenzene	106-46-7	0.5	mg/kg	----	----	----	<0.5	----	
1,2-Dichlorobenzene	95-50-1	0.5	mg/kg	----	----	----	<0.5	----	
Hexachloroethane	67-72-1	0.5	mg/kg	----	----	----	<0.5	----	
1,2,4-Trichlorobenzene	120-82-1	0.5	mg/kg	----	----	----	<0.5	----	
Hexachloropropylene	1888-71-7	0.5	mg/kg	----	----	----	<0.5	----	
Hexachlorobutadiene	87-68-3	0.5	mg/kg	----	----	----	<0.5	----	
Hexachlorocyclopentadiene	77-47-4	2.5	mg/kg	----	----	----	<2.5	----	
Pentachlorobenzene	608-93-5	0.5	mg/kg	----	----	----	<0.5	----	
Hexachlorobenzene (HCB)	118-74-1	1.0	mg/kg	----	----	----	<1.0	----	
EP075H: Anilines and Benzidines									
Aniline	62-53-3	0.5	mg/kg	----	----	----	<0.5	----	
4-Chloroaniline	106-47-8	0.5	mg/kg	----	----	----	<0.5	----	
2-Nitroaniline	88-74-4	1.0	mg/kg	----	----	----	<1.0	----	
3-Nitroaniline	99-09-2	1.0	mg/kg	----	----	----	<1.0	----	
Dibenzofuran	132-64-9	0.5	mg/kg	----	----	----	<0.5	----	
4-Nitroaniline	100-01-6	0.5	mg/kg	----	----	----	<0.5	----	
Carbazole	86-74-8	0.5	mg/kg	----	----	----	<0.5	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP63-0.5	TP64-0.2	TP64-0.5	TP65-0.1	020930
Sampling date / time					22-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	22-Feb-2024 00:00	19-Feb-2024 00:00
Compound	CAS Number	LOR	Unit	EB2406402-061	EB2406402-062	EB2406402-063	EB2406402-065	EB2406402-069	
				Result	Result	Result	Result	Result	
EP075H: Anilines and Benzidines - Continued									
3,3'-Dichlorobenzidine	91-94-1	0.5	mg/kg	----	----	----	<0.5	----	
EP075I: Organochlorine Pesticides									
alpha-BHC	319-84-6	0.5	mg/kg	----	----	----	<0.5	----	
beta-BHC	319-85-7	0.5	mg/kg	----	----	----	<0.5	----	
gamma-BHC	58-89-9	0.5	mg/kg	----	----	----	<0.5	----	
delta-BHC	319-86-8	0.5	mg/kg	----	----	----	<0.5	----	
Heptachlor	76-44-8	0.5	mg/kg	----	----	----	<0.5	----	
Aldrin	309-00-2	0.5	mg/kg	----	----	----	<0.5	----	
Heptachlor epoxide	1024-57-3	0.5	mg/kg	----	----	----	<0.5	----	
alpha-Endosulfan	959-98-8	0.5	mg/kg	----	----	----	<0.5	----	
4,4'-DDE	72-55-9	0.5	mg/kg	----	----	----	<0.5	----	
Dieldrin	60-57-1	0.5	mg/kg	----	----	----	<0.5	----	
Endrin	72-20-8	0.5	mg/kg	----	----	----	<0.5	----	
beta-Endosulfan	33213-65-9	0.5	mg/kg	----	----	----	<0.5	----	
4,4'-DDD	72-54-8	0.5	mg/kg	----	----	----	<0.5	----	
Endosulfan sulfate	1031-07-8	0.5	mg/kg	----	----	----	<0.5	----	
4,4'-DDT	50-29-3	1.0	mg/kg	----	----	----	<1.0	----	
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.5	mg/kg	----	----	----	<0.5	----	
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.5	mg/kg	----	----	----	<0.5	----	
EP075J: Organophosphorus Pesticides									
Dichlorvos	62-73-7	0.5	mg/kg	----	----	----	<0.5	----	
Dimethoate	60-51-5	0.5	mg/kg	----	----	----	<0.5	----	
Diazinon	333-41-5	0.5	mg/kg	----	----	----	<0.5	----	
Chlorpyrifos-methyl	5598-13-0	0.5	mg/kg	----	----	----	<0.5	----	
Malathion	121-75-5	0.5	mg/kg	----	----	----	<0.5	----	
Fenthion	55-38-9	0.5	mg/kg	----	----	----	<0.5	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP63-0.5	TP64-0.2	TP64-0.5	TP65-0.1	020930
Sampling date / time					22-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	22-Feb-2024 00:00	19-Feb-2024 00:00
Compound	CAS Number	LOR	Unit	EB2406402-061	EB2406402-062	EB2406402-063	EB2406402-065	EB2406402-069	
				Result	Result	Result	Result	Result	
EP075J: Organophosphorus Pesticides - Continued									
Chlorpyrifos	2921-88-2	0.5	mg/kg	----	----	----	<0.5	----	
Pirimphos-ethyl	23505-41-1	0.5	mg/kg	----	----	----	<0.5	----	
Chlorfenvinphos	470-90-6	0.5	mg/kg	----	----	----	<0.5	----	
Prothiofos	34643-46-4	0.5	mg/kg	----	----	----	<0.5	----	
Ethion	563-12-2	0.5	mg/kg	----	----	----	<0.5	----	
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	10	mg/kg	----	----	----	<10	----	
C10 - C14 Fraction	----	50	mg/kg	----	----	----	<50	----	
C15 - C28 Fraction	----	100	mg/kg	----	----	----	<100	----	
C29 - C36 Fraction	----	100	mg/kg	----	----	----	<100	----	
[^] C10 - C36 Fraction (sum)	----	50	mg/kg	----	----	----	<50	----	
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg	----	----	----	<10	----	
[^] C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	----	----	----	<10	----	
>C10 - C16 Fraction	----	50	mg/kg	----	----	----	<50	----	
>C16 - C34 Fraction	----	100	mg/kg	----	----	----	<100	----	
>C34 - C40 Fraction	----	100	mg/kg	----	----	----	<100	----	
[^] >C10 - C40 Fraction (sum)	----	50	mg/kg	----	----	----	<50	----	
[^] >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	----	----	----	<50	----	
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg	----	----	----	<0.2	----	
Toluene	108-88-3	0.5	mg/kg	----	----	----	<0.5	----	
Ethylbenzene	100-41-4	0.5	mg/kg	----	----	----	<0.5	----	
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	----	----	----	<0.5	----	
ortho-Xylene	95-47-6	0.5	mg/kg	----	----	----	<0.5	----	
[^] Sum of BTEX	----	0.2	mg/kg	----	----	----	<0.2	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)		Sample ID		TP63-0.5	TP64-0.2	TP64-0.5	TP65-0.1	020930
Sampling date / time				22-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	22-Feb-2024 00:00	19-Feb-2024 00:00
Compound	CAS Number	LOR	Unit	EB2406402-061	EB2406402-062	EB2406402-063	EB2406402-065	EB2406402-069
				Result	Result	Result	Result	Result
EP080: BTEXN - Continued								
^ Total Xylenes	----	0.5	mg/kg	----	----	----	<0.5	----
Naphthalene	91-20-3	1	mg/kg	----	----	----	<1	----
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	----	----	----	----	<0.0002
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	----	----	----	----	<0.0002
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	----	----	----	----	<0.0002
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	----	----	----	----	<0.001
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	----	----	----	----	<0.0002
Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	----	----	----	----	<0.0002
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	----	----	----	----	<0.0002
Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	----	----	----	----	<0.0002
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	----	----	----	----	<0.0005
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	----	----	----	----	<0.0005
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	----	----	----	----	<0.0005
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	----	----	----	----	<0.0005
EP231P: PFAS Sums								
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg	----	----	----	----	<0.0002
Sum of PFAS (WA DER List)	----	0.0002	mg/kg	----	----	----	----	<0.0002
EP066S: PCB Surrogate								
Decachlorobiphenyl	2051-24-3	0.1	%	----	----	----	121	----
EP068S: Organochlorine Pesticide Surrogate								



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP63-0.5	TP64-0.2	TP64-0.5	TP65-0.1	020930
Sampling date / time					22-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	22-Feb-2024 00:00	19-Feb-2024 00:00
Compound	CAS Number	LOR	Unit	EB2406402-061	EB2406402-062	EB2406402-063	EB2406402-065	EB2406402-069	
				Result	Result	Result	Result	Result	
EP068S: Organochlorine Pesticide Surrogate - Continued									
Dibromo-DDE	21655-73-2	0.05	%	----	----	----	93.0	----	
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.05	%	----	----	----	74.1	----	
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	0.5	%	----	----	----	92.2	----	
2-Chlorophenol-D4	93951-73-6	0.5	%	----	----	----	89.8	----	
2,4,6-Tribromophenol	118-79-6	0.5	%	----	----	----	95.6	----	
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	0.5	%	----	----	----	76.3	----	
Anthracene-d10	1719-06-8	0.5	%	----	----	----	94.4	----	
4-Terphenyl-d14	1718-51-0	0.5	%	----	----	----	104	----	
EP075S: Acid Extractable Surrogates									
2-Fluorophenol	367-12-4	0.5	%	----	----	----	103	----	
Phenol-d6	13127-88-3	0.5	%	----	----	----	89.4	----	
2-Chlorophenol-D4	93951-73-6	0.5	%	----	----	----	92.4	----	
2,4,6-Tribromophenol	118-79-6	0.5	%	----	----	----	65.0	----	
EP075T: Base/Neutral Extractable Surrogates									
Nitrobenzene-D5	4165-60-0	0.5	%	----	----	----	76.5	----	
1,2-Dichlorobenzene-D4	2199-69-1	0.5	%	----	----	----	61.2	----	
2-Fluorobiphenyl	321-60-8	0.5	%	----	----	----	85.9	----	
Anthracene-d10	1719-06-8	0.5	%	----	----	----	87.6	----	
4-Terphenyl-d14	1718-51-0	0.5	%	----	----	----	110	----	
EP080S: TPH(V)/BTEX Surrogates									
1,2-Dichloroethane-D4	17060-07-0	0.2	%	----	----	----	86.0	----	
Toluene-D8	2037-26-5	0.2	%	----	----	----	80.4	----	
4-Bromofluorobenzene	460-00-4	0.2	%	----	----	----	99.4	----	
EP231S: PFAS Surrogate									



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP63-0.5	TP64-0.2	TP64-0.5	TP65-0.1	020930
Sampling date / time					22-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	22-Feb-2024 00:00	19-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406402-061	EB2406402-062	EB2406402-063	EB2406402-065	EB2406402-069
					Result	Result	Result	Result	Result
EP231S: PFAS Surrogate - Continued									
13C4-PFOS	----	0.0002	%		----	----	----	----	96.0
13C8-PFOA	----	0.0002	%		----	----	----	----	100



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	011745	D1	D2	D3	D4
Sampling date / time				19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	20-Feb-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2406402-070	EB2406402-071	EB2406402-072	EB2406402-073	EB2406402-074	
				Result	Result	Result	Result	Result	
EA055: Moisture Content									
Moisture Content	----	1.0	%	----	15.1	----	----	14.3	
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	1.0	%	----	----	14.2	15.6	----	
EG005(ED093)T: Total Metals by ICP-AES									
Arsenic	7440-38-2	5	mg/kg	----	<5	<5	<5	<5	
Cadmium	7440-43-9	1	mg/kg	----	<1	<1	<1	<1	
Chromium	7440-47-3	2	mg/kg	----	39	10	31	10	
Copper	7440-50-8	5	mg/kg	----	<5	<5	<5	<5	
Lead	7439-92-1	5	mg/kg	----	7	<5	7	<5	
Nickel	7440-02-0	2	mg/kg	----	4	<2	2	<2	
Zinc	7440-66-6	5	mg/kg	----	<5	9	<5	<5	
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.1	mg/kg	----	<0.1	<0.1	<0.1	<0.1	
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	10	mg/kg	<10	<10	----	----	<10	
C10 - C14 Fraction	----	50	mg/kg	----	<50	----	----	<50	
C15 - C28 Fraction	----	100	mg/kg	----	<100	----	----	<100	
C29 - C36 Fraction	----	100	mg/kg	----	<100	----	----	<100	
^ C10 - C36 Fraction (sum)	----	50	mg/kg	----	<50	----	----	<50	
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	----	----	<10	
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<10	<10	----	----	<10	
>C10 - C16 Fraction	----	50	mg/kg	----	<50	----	----	<50	
>C16 - C34 Fraction	----	100	mg/kg	----	<100	----	----	<100	
>C34 - C40 Fraction	----	100	mg/kg	----	<100	----	----	<100	
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	----	<50	----	----	<50	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	011745	D1	D2	D3	D4
Sampling date / time					19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	20-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406402-070	EB2406402-071	EB2406402-072	EB2406402-073	EB2406402-074
					Result	Result	Result	Result	Result
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions - Continued									
[^] >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	----	<50	----	----	----	<50
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	----	----	----	<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
EP080S: TPH(V)/BTEX Surrogates									
1,2-Dichloroethane-D4	17060-07-0	0.2	%	91.1	106	----	----	----	97.5
Toluene-D8	2037-26-5	0.2	%	89.4	93.0	----	----	----	88.6
4-Bromofluorobenzene	460-00-4	0.2	%	109	107	----	----	----	99.2



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	D5	D6	D7	D8	D9
Sampling date / time					20-Feb-2024 00:00	22-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	22-Feb-2024 00:00
Compound	CAS Number	LOR	Unit	EB2406402-075	EB2406402-076	EB2406402-077	EB2406402-078	EB2406402-079	
				Result	Result	Result	Result	Result	
EA055: Moisture Content									
Moisture Content	----	1.0	%	----	----	----	----	16.3	
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	1.0	%	7.7	19.2	22.3	19.4	----	
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	8	33	12	20	
Copper	7440-50-8	5	mg/kg	<5	<5	12	<5	<5	
Lead	7439-92-1	5	mg/kg	<5	15	12	13	7	
Nickel	7440-02-0	2	mg/kg	<2	<2	<2	<2	<2	
Zinc	7440-66-6	5	mg/kg	<5	40	14	96	<5	
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	
EP066: Polychlorinated Biphenyls (PCB)									
Total Polychlorinated biphenyls	----	0.1	mg/kg	----	<0.1	<0.1	----	----	
EP068A: Organochlorine Pesticides (OC)									
alpha-BHC	319-84-6	0.05	mg/kg	----	<0.05	<0.05	----	----	
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	----	<0.05	<0.05	----	----	
beta-BHC	319-85-7	0.05	mg/kg	----	<0.05	<0.05	----	----	
gamma-BHC	58-89-9	0.05	mg/kg	----	<0.05	<0.05	----	----	
delta-BHC	319-86-8	0.05	mg/kg	----	<0.05	<0.05	----	----	
Heptachlor	76-44-8	0.05	mg/kg	----	<0.05	<0.05	----	----	
Aldrin	309-00-2	0.05	mg/kg	----	<0.05	<0.05	----	----	
Heptachlor epoxide	1024-57-3	0.05	mg/kg	----	<0.05	<0.05	----	----	
^ Total Chlordane (sum)	----	0.05	mg/kg	----	<0.05	<0.05	----	----	
trans-Chlordane	5103-74-2	0.05	mg/kg	----	<0.05	<0.05	----	----	
alpha-Endosulfan	959-98-8	0.05	mg/kg	----	<0.05	<0.05	----	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	D5	D6	D7	D8	D9
Sampling date / time					20-Feb-2024 00:00	22-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	22-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406402-075	EB2406402-076	EB2406402-077	EB2406402-078	EB2406402-079
					Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued									
cis-Chlordane	5103-71-9	0.05	mg/kg		----	<0.05	<0.05	----	----
Dieldrin	60-57-1	0.05	mg/kg		----	<0.05	<0.05	----	----
4,4'-DDE	72-55-9	0.05	mg/kg		----	<0.05	<0.05	----	----
Endrin	72-20-8	0.05	mg/kg		----	<0.05	<0.05	----	----
beta-Endosulfan	33213-65-9	0.05	mg/kg		----	<0.05	<0.05	----	----
[^] Endosulfan (sum)	115-29-7	0.05	mg/kg		----	<0.05	<0.05	----	----
4,4'-DDD	72-54-8	0.05	mg/kg		----	<0.05	<0.05	----	----
Endrin aldehyde	7421-93-4	0.05	mg/kg		----	<0.05	<0.05	----	----
Endosulfan sulfate	1031-07-8	0.05	mg/kg		----	<0.05	<0.05	----	----
4,4'-DDT	50-29-3	0.2	mg/kg		----	<0.2	<0.2	----	----
Endrin ketone	53494-70-5	0.05	mg/kg		----	<0.05	<0.05	----	----
Methoxychlor	72-43-5	0.2	mg/kg		----	<0.2	<0.2	----	----
[^] Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg		----	<0.05	<0.05	----	----
[^] Sum of DDD + DDE + DDT	72-54-8/72-55-9/5-0-2	0.05	mg/kg		----	<0.05	<0.05	----	----
EP068B: Organophosphorus Pesticides (OP)									
Dichlorvos	62-73-7	0.05	mg/kg		----	<0.05	<0.05	----	----
Demeton-S-methyl	919-86-8	0.05	mg/kg		----	<0.05	<0.05	----	----
Monocrotophos	6923-22-4	0.2	mg/kg		----	<0.2	<0.2	----	----
Dimethoate	60-51-5	0.05	mg/kg		----	<0.05	<0.05	----	----
Diazinon	333-41-5	0.05	mg/kg		----	<0.05	<0.05	----	----
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg		----	<0.05	<0.05	----	----
Parathion-methyl	298-00-0	0.2	mg/kg		----	<0.2	<0.2	----	----
Malathion	121-75-5	0.05	mg/kg		----	<0.05	<0.05	----	----
Fenthion	55-38-9	0.05	mg/kg		----	<0.05	<0.05	----	----
Chlorpyrifos	2921-88-2	0.05	mg/kg		----	<0.05	<0.05	----	----
Parathion	56-38-2	0.2	mg/kg		----	<0.2	<0.2	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	D5	D6	D7	D8	D9
Sampling date / time					20-Feb-2024 00:00	22-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	22-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406402-075	EB2406402-076	EB2406402-077	EB2406402-078	EB2406402-079
					Result	Result	Result	Result	Result
EP068B: Organophosphorus Pesticides (OP) - Continued									
Pirimphos-ethyl	23505-41-1	0.05	mg/kg		----	<0.05	<0.05	----	----
Chlorfenvinphos	470-90-6	0.05	mg/kg		----	<0.05	<0.05	----	----
Bromophos-ethyl	4824-78-6	0.05	mg/kg		----	<0.05	<0.05	----	----
Fenamiphos	22224-92-6	0.05	mg/kg		----	<0.05	<0.05	----	----
Prothiofos	34643-46-4	0.05	mg/kg		----	<0.05	<0.05	----	----
Ethion	563-12-2	0.05	mg/kg		----	<0.05	<0.05	----	----
Carbophenothion	786-19-6	0.05	mg/kg		----	<0.05	<0.05	----	----
Azinphos Methyl	86-50-0	0.05	mg/kg		----	<0.05	<0.05	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	0.5	mg/kg		----	<0.5	<0.5	----	----
Acenaphthylene	208-96-8	0.5	mg/kg		----	<0.5	<0.5	----	----
Acenaphthene	83-32-9	0.5	mg/kg		----	<0.5	<0.5	----	----
Fluorene	86-73-7	0.5	mg/kg		----	<0.5	<0.5	----	----
Phenanthrene	85-01-8	0.5	mg/kg		----	<0.5	<0.5	----	----
Anthracene	120-12-7	0.5	mg/kg		----	<0.5	<0.5	----	----
Fluoranthene	206-44-0	0.5	mg/kg		----	<0.5	<0.5	----	----
Pyrene	129-00-0	0.5	mg/kg		----	<0.5	<0.5	----	----
Benz(a)anthracene	56-55-3	0.5	mg/kg		----	<0.5	<0.5	----	----
Chrysene	218-01-9	0.5	mg/kg		----	<0.5	<0.5	----	----
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg		----	<0.5	<0.5	----	----
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg		----	<0.5	<0.5	----	----
Benzo(a)pyrene	50-32-8	0.5	mg/kg		----	<0.5	<0.5	----	----
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg		----	<0.5	<0.5	----	----
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg		----	<0.5	<0.5	----	----
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg		----	<0.5	<0.5	----	----
[^] Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg		----	<0.5	<0.5	----	----
[^] Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg		----	<0.5	<0.5	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	D5	D6	D7	D8	D9
Sampling date / time					20-Feb-2024 00:00	22-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	22-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406402-075	EB2406402-076	EB2406402-077	EB2406402-078	EB2406402-079
					Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued									
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg		----	0.6	0.6	----	----
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg		----	1.2	1.2	----	----
EP075A: Phenolic Compounds									
Phenol	108-95-2	0.5	mg/kg		----	----	----	<0.5	----
2-Chlorophenol	95-57-8	0.5	mg/kg		----	----	----	<0.5	----
2-Methylphenol	95-48-7	0.5	mg/kg		----	----	----	<0.5	----
3- & 4-Methylphenol	1319-77-3	0.5	mg/kg		----	----	----	<0.5	----
2-Nitrophenol	88-75-5	0.5	mg/kg		----	----	----	<0.5	----
2,4-Dimethylphenol	105-67-9	0.5	mg/kg		----	----	----	<0.5	----
2,4-Dichlorophenol	120-83-2	0.5	mg/kg		----	----	----	<0.5	----
2,6-Dichlorophenol	87-65-0	0.5	mg/kg		----	----	----	<0.5	----
4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg		----	----	----	<0.5	----
2,4,6-Trichlorophenol	88-06-2	0.5	mg/kg		----	----	----	<0.5	----
2,4,5-Trichlorophenol	95-95-4	0.5	mg/kg		----	----	----	<0.5	----
Pentachlorophenol	87-86-5	1	mg/kg		----	----	----	<1	----
EP075B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	0.5	mg/kg		----	----	----	<0.5	----
2-Methylnaphthalene	91-57-6	0.5	mg/kg		----	----	----	<0.5	----
2-Chloronaphthalene	91-58-7	0.5	mg/kg		----	----	----	<0.5	----
Acenaphthylene	208-96-8	0.5	mg/kg		----	----	----	<0.5	----
Acenaphthene	83-32-9	0.5	mg/kg		----	----	----	<0.5	----
Fluorene	86-73-7	0.5	mg/kg		----	----	----	<0.5	----
Phenanthrene	85-01-8	0.5	mg/kg		----	----	----	<0.5	----
Anthracene	120-12-7	0.5	mg/kg		----	----	----	<0.5	----
Fluoranthene	206-44-0	0.5	mg/kg		----	----	----	<0.5	----
Pyrene	129-00-0	0.5	mg/kg		----	----	----	<0.5	----
N-2-Fluorenyl Acetamide	53-96-3	0.5	mg/kg		----	----	----	<0.5	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	D5	D6	D7	D8	D9
Sampling date / time					20-Feb-2024 00:00	22-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	22-Feb-2024 00:00
Compound	CAS Number	LOR	Unit	EB2406402-075	EB2406402-076	EB2406402-077	EB2406402-078	EB2406402-079	
				Result	Result	Result	Result	Result	
EP075B: Polynuclear Aromatic Hydrocarbons - Continued									
Benz(a)anthracene	56-55-3	0.5	mg/kg	----	----	----	<0.5	----	
Chrysene	218-01-9	0.5	mg/kg	----	----	----	<0.5	----	
Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1	mg/kg	----	----	----	<1	----	
7.12-Dimethylbenz(a)anthracene	57-97-6	0.5	mg/kg	----	----	----	<0.5	----	
Benzo(a)pyrene	50-32-8	0.5	mg/kg	----	----	----	<0.5	----	
3-Methylcholanthrene	56-49-5	0.5	mg/kg	----	----	----	<0.5	----	
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	----	----	----	<0.5	----	
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	----	----	----	<0.5	----	
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	----	----	----	<0.5	----	
^ Sum of PAHs	----	0.5	mg/kg	----	----	----	<0.5	----	
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	----	----	----	<0.5	----	
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	----	----	----	0.6	----	
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	----	----	----	1.2	----	
EP075C: Phthalate Esters									
Dimethyl phthalate	131-11-3	0.5	mg/kg	----	----	----	<0.5	----	
Diethyl phthalate	84-66-2	0.5	mg/kg	----	----	----	<0.5	----	
Di-n-butyl phthalate	84-74-2	0.5	mg/kg	----	----	----	<0.5	----	
Butyl benzyl phthalate	85-68-7	0.5	mg/kg	----	----	----	<0.5	----	
bis(2-ethylhexyl) phthalate	117-81-7	5.0	mg/kg	----	----	----	<5.0	----	
Di-n-octylphthalate	117-84-0	0.5	mg/kg	----	----	----	<0.5	----	
EP075D: Nitrosamines									
N-Nitrosomethylethylamine	10595-95-6	0.5	mg/kg	----	----	----	<0.5	----	
N-Nitrosodiethylamine	55-18-5	0.5	mg/kg	----	----	----	<0.5	----	
N-Nitrosopyrrolidine	930-55-2	1.0	mg/kg	----	----	----	<1.0	----	
N-Nitrosomorpholine	59-89-2	0.5	mg/kg	----	----	----	<0.5	----	
N-Nitrosodi-n-propylamine	621-64-7	0.5	mg/kg	----	----	----	<0.5	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	D5	D6	D7	D8	D9
Sampling date / time					20-Feb-2024 00:00	22-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	22-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406402-075	EB2406402-076	EB2406402-077	EB2406402-078	EB2406402-079
					Result	Result	Result	Result	Result
EP075D: Nitrosamines - Continued									
N-Nitrosopiperidine	100-75-4	0.5	mg/kg		----	----	----	<0.5	----
N-Nitrosodibutylamine	924-16-3	0.5	mg/kg		----	----	----	<0.5	----
N-Nitrosodiphenyl & Diphenylamine	86-30-6 122-39-4	1.0	mg/kg		----	----	----	<1.0	----
Methapyrilene	91-80-5	0.5	mg/kg		----	----	----	<0.5	----
EP075E: Nitroaromatics and Ketones									
2-Picoline	109-06-8	0.5	mg/kg		----	----	----	<0.5	----
Acetophenone	98-86-2	0.5	mg/kg		----	----	----	<0.5	----
Nitrobenzene	98-95-3	0.5	mg/kg		----	----	----	<0.5	----
Isophorone	78-59-1	0.5	mg/kg		----	----	----	<0.5	----
2,6-Dinitrotoluene	606-20-2	1.0	mg/kg		----	----	----	<1.0	----
2,4-Dinitrotoluene	121-14-2	1.0	mg/kg		----	----	----	<1.0	----
1-Naphthylamine	134-32-7	0.5	mg/kg		----	----	----	<0.5	----
4-Nitroquinoline-N-oxide	56-57-5	0.5	mg/kg		----	----	----	<0.5	----
5-Nitro-o-toluidine	99-55-8	0.5	mg/kg		----	----	----	<0.5	----
Azobenzene	103-33-3	1	mg/kg		----	----	----	<1	----
1,3,5-Trinitrobenzene	99-35-4	0.5	mg/kg		----	----	----	<0.5	----
Phenacetin	62-44-2	0.5	mg/kg		----	----	----	<0.5	----
4-Aminobiphenyl	92-67-1	0.5	mg/kg		----	----	----	<0.5	----
Pentachloronitrobenzene	82-68-8	0.5	mg/kg		----	----	----	<0.5	----
Pronamide	23950-58-5	0.5	mg/kg		----	----	----	<0.5	----
Dimethylaminoazobenzene	60-11-7	0.5	mg/kg		----	----	----	<0.5	----
Chlorobenzilate	510-15-6	0.5	mg/kg		----	----	----	<0.5	----
EP075F: Haloethers									
Bis(2-chloroethyl) ether	111-44-4	0.5	mg/kg		----	----	----	<0.5	----
Bis(2-chloroethoxy) methane	111-91-1	0.5	mg/kg		----	----	----	<0.5	----
4-Chlorophenyl phenyl ether	7005-72-3	0.5	mg/kg		----	----	----	<0.5	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	D5	D6	D7	D8	D9
Sampling date / time					20-Feb-2024 00:00	22-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	22-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406402-075	EB2406402-076	EB2406402-077	EB2406402-078	EB2406402-079
					Result	Result	Result	Result	Result
EP075F: Haloethers - Continued									
4-Bromophenyl phenyl ether	101-55-3	0.5	mg/kg		----	----	----	<0.5	----
EP075G: Chlorinated Hydrocarbons									
1.3-Dichlorobenzene	541-73-1	0.5	mg/kg		----	----	----	<0.5	----
1.4-Dichlorobenzene	106-46-7	0.5	mg/kg		----	----	----	<0.5	----
1.2-Dichlorobenzene	95-50-1	0.5	mg/kg		----	----	----	<0.5	----
Hexachloroethane	67-72-1	0.5	mg/kg		----	----	----	<0.5	----
1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg		----	----	----	<0.5	----
Hexachloropropylene	1888-71-7	0.5	mg/kg		----	----	----	<0.5	----
Hexachlorobutadiene	87-68-3	0.5	mg/kg		----	----	----	<0.5	----
Hexachlorocyclopentadiene	77-47-4	2.5	mg/kg		----	----	----	<2.5	----
Pentachlorobenzene	608-93-5	0.5	mg/kg		----	----	----	<0.5	----
Hexachlorobenzene (HCB)	118-74-1	1.0	mg/kg		----	----	----	<1.0	----
EP075H: Anilines and Benzidines									
Aniline	62-53-3	0.5	mg/kg		----	----	----	<0.5	----
4-Chloroaniline	106-47-8	0.5	mg/kg		----	----	----	<0.5	----
2-Nitroaniline	88-74-4	1.0	mg/kg		----	----	----	<1.0	----
3-Nitroaniline	99-09-2	1.0	mg/kg		----	----	----	<1.0	----
Dibenzofuran	132-64-9	0.5	mg/kg		----	----	----	<0.5	----
4-Nitroaniline	100-01-6	0.5	mg/kg		----	----	----	<0.5	----
Carbazole	86-74-8	0.5	mg/kg		----	----	----	<0.5	----
3,3'-Dichlorobenzidine	91-94-1	0.5	mg/kg		----	----	----	<0.5	----
EP075I: Organochlorine Pesticides									
alpha-BHC	319-84-6	0.5	mg/kg		----	----	----	<0.5	----
beta-BHC	319-85-7	0.5	mg/kg		----	----	----	<0.5	----
gamma-BHC	58-89-9	0.5	mg/kg		----	----	----	<0.5	----
delta-BHC	319-86-8	0.5	mg/kg		----	----	----	<0.5	----
Heptachlor	76-44-8	0.5	mg/kg		----	----	----	<0.5	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	D5	D6	D7	D8	D9
Sampling date / time					20-Feb-2024 00:00	22-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	22-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406402-075	EB2406402-076	EB2406402-077	EB2406402-078	EB2406402-079
					Result	Result	Result	Result	Result
EP075I: Organochlorine Pesticides - Continued									
Aldrin	309-00-2	0.5	mg/kg		----	----	----	<0.5	----
Heptachlor epoxide	1024-57-3	0.5	mg/kg		----	----	----	<0.5	----
alpha-Endosulfan	959-98-8	0.5	mg/kg		----	----	----	<0.5	----
4.4'-DDE	72-55-9	0.5	mg/kg		----	----	----	<0.5	----
Dieldrin	60-57-1	0.5	mg/kg		----	----	----	<0.5	----
Endrin	72-20-8	0.5	mg/kg		----	----	----	<0.5	----
beta-Endosulfan	33213-65-9	0.5	mg/kg		----	----	----	<0.5	----
4.4'-DDD	72-54-8	0.5	mg/kg		----	----	----	<0.5	----
Endosulfan sulfate	1031-07-8	0.5	mg/kg		----	----	----	<0.5	----
4.4'-DDT	50-29-3	1.0	mg/kg		----	----	----	<1.0	----
[^] Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.5	mg/kg		----	----	----	<0.5	----
[^] Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.5	mg/kg		----	----	----	<0.5	----
EP075J: Organophosphorus Pesticides									
Dichlorvos	62-73-7	0.5	mg/kg		----	----	----	<0.5	----
Dimethoate	60-51-5	0.5	mg/kg		----	----	----	<0.5	----
Diazinon	333-41-5	0.5	mg/kg		----	----	----	<0.5	----
Chlorpyrifos-methyl	5598-13-0	0.5	mg/kg		----	----	----	<0.5	----
Malathion	121-75-5	0.5	mg/kg		----	----	----	<0.5	----
Fenthion	55-38-9	0.5	mg/kg		----	----	----	<0.5	----
Chlorpyrifos	2921-88-2	0.5	mg/kg		----	----	----	<0.5	----
Pirimphos-ethyl	23505-41-1	0.5	mg/kg		----	----	----	<0.5	----
Chlorfenvinphos	470-90-6	0.5	mg/kg		----	----	----	<0.5	----
Prothiofos	34643-46-4	0.5	mg/kg		----	----	----	<0.5	----
Ethion	563-12-2	0.5	mg/kg		----	----	----	<0.5	----
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	10	mg/kg		----	<10	<10	----	<10



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	D5	D6	D7	D8	D9
Sampling date / time					20-Feb-2024 00:00	22-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	22-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406402-075	EB2406402-076	EB2406402-077	EB2406402-078	EB2406402-079
					Result	Result	Result	Result	Result
EP080/071: Total Petroleum Hydrocarbons - Continued									
C10 - C14 Fraction	----	50	mg/kg	----	<50	<50	<50	----	<50
C15 - C28 Fraction	----	100	mg/kg	----	<100	<100	<100	----	<100
C29 - C36 Fraction	----	100	mg/kg	----	<100	<100	<100	----	<100
[^] C10 - C36 Fraction (sum)	----	50	mg/kg	----	<50	<50	<50	----	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg	----	<10	<10	<10	----	<10
[^] C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	----	<10	<10	<10	----	<10
>C10 - C16 Fraction	----	50	mg/kg	----	<50	<50	<50	----	<50
>C16 - C34 Fraction	----	100	mg/kg	----	<100	<100	<100	----	<100
>C34 - C40 Fraction	----	100	mg/kg	----	<100	<100	<100	----	<100
[^] >C10 - C40 Fraction (sum)	----	50	mg/kg	----	<50	<50	<50	----	<50
[^] >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	----	<50	<50	<50	----	<50
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg	----	<0.2	<0.2	<0.2	----	<0.2
Toluene	108-88-3	0.5	mg/kg	----	<0.5	<0.5	<0.5	----	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg	----	<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
ortho-Xylene	95-47-6	0.5	mg/kg	----	<0.5	<0.5	<0.5	----	<0.5
[^] Sum of BTEX	----	0.2	mg/kg	----	<0.2	<0.2	<0.2	----	<0.2
[^] Total Xylenes	----	0.5	mg/kg	----	<0.5	<0.5	<0.5	----	<0.5
Naphthalene	91-20-3	1	mg/kg	----	<1	<1	<1	----	<1
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	<0.0002	----	----	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<0.0002	<0.0002	----	----	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<0.0002	<0.0002	----	----	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	D5	D6	D7	D8	D9
Sampling date / time					20-Feb-2024 00:00	22-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	22-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406402-075	EB2406402-076	EB2406402-077	EB2406402-078	EB2406402-079
					Result	Result	Result	Result	Result
EP231A: Perfluoroalkyl Sulfonic Acids - Continued									
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	<0.001	----	----	----	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	<0.0002	----	----	----	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<0.0002	<0.0002	----	----	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	<0.0002	----	----	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<0.0002	<0.0002	----	----	----	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	<0.0005	----	----	----	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	<0.0005	----	----	----	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0005	<0.0005	----	----	----	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	<0.0005	----	----	----	----
EP231P: PFAS Sums									
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg	<0.0002	<0.0002	----	----	----	----
Sum of PFAS (WA DER List)	----	0.0002	mg/kg	<0.0002	<0.0002	----	----	----	----
EP066S: PCB Surrogate									
Decachlorobiphenyl	2051-24-3	0.1	%	----	101	98.0	----	----	----
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.05	%	----	109	114	----	----	----
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.05	%	----	94.3	98.1	----	----	----
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	0.5	%	----	95.6	91.4	----	----	----
2-Chlorophenol-D4	93951-73-6	0.5	%	----	89.1	86.0	----	----	----
2,4,6-Tribromophenol	118-79-6	0.5	%	----	58.4	57.2	----	----	----
EP075(SIM)T: PAH Surrogates									



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	D5	D6	D7	D8	D9
Sampling date / time					20-Feb-2024 00:00	22-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	22-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2406402-075	EB2406402-076	EB2406402-077	EB2406402-078	EB2406402-079
					Result	Result	Result	Result	Result
EP075(SIM)T: PAH Surrogates - Continued									
2-Fluorobiphenyl	321-60-8	0.5	%		----	94.1	79.1	----	----
Anthracene-d10	1719-06-8	0.5	%		----	92.6	89.8	----	----
4-Terphenyl-d14	1718-51-0	0.5	%		----	104	107	----	----
EP075S: Acid Extractable Surrogates									
2-Fluorophenol	367-12-4	0.5	%		----	----	----	86.0	----
Phenol-d6	13127-88-3	0.5	%		----	----	----	86.8	----
2-Chlorophenol-D4	93951-73-6	0.5	%		----	----	----	93.0	----
2,4,6-Tribromophenol	118-79-6	0.5	%		----	----	----	33.8	----
EP075T: Base/Neutral Extractable Surrogates									
Nitrobenzene-D5	4165-60-0	0.5	%		----	----	----	84.2	----
1,2-Dichlorobenzene-D4	2199-69-1	0.5	%		----	----	----	69.6	----
2-Fluorobiphenyl	321-60-8	0.5	%		----	----	----	94.5	----
Anthracene-d10	1719-06-8	0.5	%		----	----	----	96.3	----
4-Terphenyl-d14	1718-51-0	0.5	%		----	----	----	141	----
EP080S: TPH(V)/BTEX Surrogates									
1,2-Dichloroethane-D4	17060-07-0	0.2	%		----	100	96.2	----	99.3
Toluene-D8	2037-26-5	0.2	%		----	91.3	88.5	----	88.5
4-Bromofluorobenzene	460-00-4	0.2	%		----	97.4	98.0	----	98.2
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.0002	%		94.0	98.0	----	----	----
13C8-PFOA	----	0.0002	%		98.0	95.0	----	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	D10	D11	D12	D13	----
Sampling date / time					22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	----
Compound	CAS Number	LOR	Unit	EB2406402-080	EB2406402-081	EB2406402-082	EB2406402-083	-----	----
				Result	Result	Result	Result		----
EA055: Moisture Content									
Moisture Content	----	1.0	%	----	18.8	----	----	----	----
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	1.0	%	14.1	----	19.1	13.1	----	----
EG005(ED093)T: Total Metals by ICP-AES									
Arsenic	7440-38-2	5	mg/kg	10	<5	<5	<5	----	----
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	----	----
Chromium	7440-47-3	2	mg/kg	22	35	21	8	----	----
Copper	7440-50-8	5	mg/kg	<5	<5	<5	<5	----	----
Lead	7439-92-1	5	mg/kg	9	5	18	9	----	----
Nickel	7440-02-0	2	mg/kg	<2	<2	<2	<2	----	----
Zinc	7440-66-6	5	mg/kg	<5	<5	<5	<5	----	----
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	----	----
EP066: Polychlorinated Biphenyls (PCB)									
Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	----	----	----	----	----
EP068A: Organochlorine Pesticides (OC)									
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	----	----	----	----	----
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	----	----	----	----	----
beta-BHC	319-85-7	0.05	mg/kg	<0.05	----	----	----	----	----
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	----	----	----	----	----
delta-BHC	319-86-8	0.05	mg/kg	<0.05	----	----	----	----	----
Heptachlor	76-44-8	0.05	mg/kg	<0.05	----	----	----	----	----
Aldrin	309-00-2	0.05	mg/kg	<0.05	----	----	----	----	----
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	----	----	----	----	----
^ Total Chlordane (sum)	----	0.05	mg/kg	<0.05	----	----	----	----	----
trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	----	----	----	----	----
alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	----	----	----	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	D10	D11	D12	D13	----
Sampling date / time					22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	----
Compound	CAS Number	LOR	Unit		EB2406402-080	EB2406402-081	EB2406402-082	EB2406402-083	-----
					Result	Result	Result	Result	----
EP068A: Organochlorine Pesticides (OC) - Continued									
cis-Chlordane	5103-71-9	0.05	mg/kg		<0.05	----	----	----	----
Dieldrin	60-57-1	0.05	mg/kg		<0.05	----	----	----	----
4,4'-DDE	72-55-9	0.05	mg/kg		<0.05	----	----	----	----
Endrin	72-20-8	0.05	mg/kg		<0.05	----	----	----	----
beta-Endosulfan	33213-65-9	0.05	mg/kg		<0.05	----	----	----	----
[^] Endosulfan (sum)	115-29-7	0.05	mg/kg		<0.05	----	----	----	----
4,4'-DDD	72-54-8	0.05	mg/kg		<0.05	----	----	----	----
Endrin aldehyde	7421-93-4	0.05	mg/kg		<0.05	----	----	----	----
Endosulfan sulfate	1031-07-8	0.05	mg/kg		<0.05	----	----	----	----
4,4'-DDT	50-29-3	0.2	mg/kg		<0.2	----	----	----	----
Endrin ketone	53494-70-5	0.05	mg/kg		<0.05	----	----	----	----
Methoxychlor	72-43-5	0.2	mg/kg		<0.2	----	----	----	----
[^] Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg		<0.05	----	----	----	----
[^] Sum of DDD + DDE + DDT	72-54-8/72-55-9/5-0-2	0.05	mg/kg		<0.05	----	----	----	----
EP068B: Organophosphorus Pesticides (OP)									
Dichlorvos	62-73-7	0.05	mg/kg		<0.05	----	----	----	----
Demeton-S-methyl	919-86-8	0.05	mg/kg		<0.05	----	----	----	----
Monocrotophos	6923-22-4	0.2	mg/kg		<0.2	----	----	----	----
Dimethoate	60-51-5	0.05	mg/kg		<0.05	----	----	----	----
Diazinon	333-41-5	0.05	mg/kg		<0.05	----	----	----	----
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg		<0.05	----	----	----	----
Parathion-methyl	298-00-0	0.2	mg/kg		<0.2	----	----	----	----
Malathion	121-75-5	0.05	mg/kg		<0.05	----	----	----	----
Fenthion	55-38-9	0.05	mg/kg		<0.05	----	----	----	----
Chlorpyrifos	2921-88-2	0.05	mg/kg		<0.05	----	----	----	----
Parathion	56-38-2	0.2	mg/kg		<0.2	----	----	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	D10	D11	D12	D13	----
Sampling date / time					22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	----
Compound	CAS Number	LOR	Unit		EB2406402-080	EB2406402-081	EB2406402-082	EB2406402-083	-----
					Result	Result	Result	Result	----
EP068B: Organophosphorus Pesticides (OP) - Continued									
Pirimphos-ethyl	23505-41-1	0.05	mg/kg		<0.05	----	----	----	----
Chlorfenvinphos	470-90-6	0.05	mg/kg		<0.05	----	----	----	----
Bromophos-ethyl	4824-78-6	0.05	mg/kg		<0.05	----	----	----	----
Fenamiphos	22224-92-6	0.05	mg/kg		<0.05	----	----	----	----
Prothiofos	34643-46-4	0.05	mg/kg		<0.05	----	----	----	----
Ethion	563-12-2	0.05	mg/kg		<0.05	----	----	----	----
Carbophenothion	786-19-6	0.05	mg/kg		<0.05	----	----	----	----
Azinphos Methyl	86-50-0	0.05	mg/kg		<0.05	----	----	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	0.5	mg/kg		<0.5	----	----	----	----
Acenaphthylene	208-96-8	0.5	mg/kg		<0.5	----	----	----	----
Acenaphthene	83-32-9	0.5	mg/kg		<0.5	----	----	----	----
Fluorene	86-73-7	0.5	mg/kg		<0.5	----	----	----	----
Phenanthrene	85-01-8	0.5	mg/kg		<0.5	----	----	----	----
Anthracene	120-12-7	0.5	mg/kg		<0.5	----	----	----	----
Fluoranthene	206-44-0	0.5	mg/kg		<0.5	----	----	----	----
Pyrene	129-00-0	0.5	mg/kg		<0.5	----	----	----	----
Benz(a)anthracene	56-55-3	0.5	mg/kg		<0.5	----	----	----	----
Chrysene	218-01-9	0.5	mg/kg		<0.5	----	----	----	----
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg		<0.5	----	----	----	----
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg		<0.5	----	----	----	----
Benzo(a)pyrene	50-32-8	0.5	mg/kg		<0.5	----	----	----	----
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg		<0.5	----	----	----	----
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg		<0.5	----	----	----	----
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg		<0.5	----	----	----	----
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg		<0.5	----	----	----	----
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg		<0.5	----	----	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	D10	D11	D12	D13	----
Sampling date / time					22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	----
Compound	CAS Number	LOR	Unit		EB2406402-080	EB2406402-081	EB2406402-082	EB2406402-083	-----
					Result	Result	Result	Result	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued									
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg		0.6	----	----	----	----
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg		1.2	----	----	----	----
EP075A: Phenolic Compounds									
Phenol	108-95-2	0.5	mg/kg		----	----	<0.5	----	----
2-Chlorophenol	95-57-8	0.5	mg/kg		----	----	<0.5	----	----
2-Methylphenol	95-48-7	0.5	mg/kg		----	----	<0.5	----	----
3- & 4-Methylphenol	1319-77-3	0.5	mg/kg		----	----	<0.5	----	----
2-Nitrophenol	88-75-5	0.5	mg/kg		----	----	<0.5	----	----
2,4-Dimethylphenol	105-67-9	0.5	mg/kg		----	----	<0.5	----	----
2,4-Dichlorophenol	120-83-2	0.5	mg/kg		----	----	<0.5	----	----
2,6-Dichlorophenol	87-65-0	0.5	mg/kg		----	----	<0.5	----	----
4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg		----	----	<0.5	----	----
2,4,6-Trichlorophenol	88-06-2	0.5	mg/kg		----	----	<0.5	----	----
2,4,5-Trichlorophenol	95-95-4	0.5	mg/kg		----	----	<0.5	----	----
Pentachlorophenol	87-86-5	1	mg/kg		----	----	<1	----	----
EP075B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	0.5	mg/kg		----	----	<0.5	----	----
2-Methylnaphthalene	91-57-6	0.5	mg/kg		----	----	<0.5	----	----
2-Chloronaphthalene	91-58-7	0.5	mg/kg		----	----	<0.5	----	----
Acenaphthylene	208-96-8	0.5	mg/kg		----	----	<0.5	----	----
Acenaphthene	83-32-9	0.5	mg/kg		----	----	<0.5	----	----
Fluorene	86-73-7	0.5	mg/kg		----	----	<0.5	----	----
Phenanthrene	85-01-8	0.5	mg/kg		----	----	<0.5	----	----
Anthracene	120-12-7	0.5	mg/kg		----	----	<0.5	----	----
Fluoranthene	206-44-0	0.5	mg/kg		----	----	<0.5	----	----
Pyrene	129-00-0	0.5	mg/kg		----	----	<0.5	----	----
N-2-Fluorenyl Acetamide	53-96-3	0.5	mg/kg		----	----	<0.5	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	D10	D11	D12	D13	----
Sampling date / time					22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	----
Compound	CAS Number	LOR	Unit		EB2406402-080	EB2406402-081	EB2406402-082	EB2406402-083	-----
					Result	Result	Result	Result	----
EP075B: Polynuclear Aromatic Hydrocarbons - Continued									
Benz(a)anthracene	56-55-3	0.5	mg/kg		----	----	<0.5	----	----
Chrysene	218-01-9	0.5	mg/kg		----	----	<0.5	----	----
Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1	mg/kg		----	----	<1	----	----
7.12-Dimethylbenz(a)anthracene	57-97-6	0.5	mg/kg		----	----	<0.5	----	----
Benzo(a)pyrene	50-32-8	0.5	mg/kg		----	----	<0.5	----	----
3-Methylcholanthrene	56-49-5	0.5	mg/kg		----	----	<0.5	----	----
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg		----	----	<0.5	----	----
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg		----	----	<0.5	----	----
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg		----	----	<0.5	----	----
[^] Sum of PAHs	----	0.5	mg/kg		----	----	<0.5	----	----
[^] Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg		----	----	<0.5	----	----
[^] Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg		----	----	0.6	----	----
[^] Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg		----	----	1.2	----	----
EP075C: Phthalate Esters									
Dimethyl phthalate	131-11-3	0.5	mg/kg		----	----	<0.5	----	----
Diethyl phthalate	84-66-2	0.5	mg/kg		----	----	<0.5	----	----
Di-n-butyl phthalate	84-74-2	0.5	mg/kg		----	----	<0.5	----	----
Butyl benzyl phthalate	85-68-7	0.5	mg/kg		----	----	<0.5	----	----
bis(2-ethylhexyl) phthalate	117-81-7	5.0	mg/kg		----	----	<5.0	----	----
Di-n-octylphthalate	117-84-0	0.5	mg/kg		----	----	<0.5	----	----
EP075D: Nitrosamines									
N-Nitrosomethylethylamine	10595-95-6	0.5	mg/kg		----	----	<0.5	----	----
N-Nitrosodiethylamine	55-18-5	0.5	mg/kg		----	----	<0.5	----	----
N-Nitrosopyrrolidine	930-55-2	1.0	mg/kg		----	----	<1.0	----	----
N-Nitrosomorpholine	59-89-2	0.5	mg/kg		----	----	<0.5	----	----
N-Nitrosodi-n-propylamine	621-64-7	0.5	mg/kg		----	----	<0.5	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	D10	D11	D12	D13	----
Sampling date / time					22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	----
Compound	CAS Number	LOR	Unit		EB2406402-080	EB2406402-081	EB2406402-082	EB2406402-083	-----
					Result	Result	Result	Result	----
EP075D: Nitrosamines - Continued									
N-Nitrosopiperidine	100-75-4	0.5	mg/kg		----	----	<0.5	----	----
N-Nitrosodibutylamine	924-16-3	0.5	mg/kg		----	----	<0.5	----	----
N-Nitrosodiphenyl & Diphenylamine	86-30-6 122-39-4	1.0	mg/kg		----	----	<1.0	----	----
Methapyrilene	91-80-5	0.5	mg/kg		----	----	<0.5	----	----
EP075E: Nitroaromatics and Ketones									
2-Picoline	109-06-8	0.5	mg/kg		----	----	<0.5	----	----
Acetophenone	98-86-2	0.5	mg/kg		----	----	<0.5	----	----
Nitrobenzene	98-95-3	0.5	mg/kg		----	----	<0.5	----	----
Isophorone	78-59-1	0.5	mg/kg		----	----	<0.5	----	----
2,6-Dinitrotoluene	606-20-2	1.0	mg/kg		----	----	<1.0	----	----
2,4-Dinitrotoluene	121-14-2	1.0	mg/kg		----	----	<1.0	----	----
1-Naphthylamine	134-32-7	0.5	mg/kg		----	----	<0.5	----	----
4-Nitroquinoline-N-oxide	56-57-5	0.5	mg/kg		----	----	<0.5	----	----
5-Nitro-o-toluidine	99-55-8	0.5	mg/kg		----	----	<0.5	----	----
Azobenzene	103-33-3	1	mg/kg		----	----	<1	----	----
1,3,5-Trinitrobenzene	99-35-4	0.5	mg/kg		----	----	<0.5	----	----
Phenacetin	62-44-2	0.5	mg/kg		----	----	<0.5	----	----
4-Aminobiphenyl	92-67-1	0.5	mg/kg		----	----	<0.5	----	----
Pentachloronitrobenzene	82-68-8	0.5	mg/kg		----	----	<0.5	----	----
Pronamide	23950-58-5	0.5	mg/kg		----	----	<0.5	----	----
Dimethylaminoazobenzene	60-11-7	0.5	mg/kg		----	----	<0.5	----	----
Chlorobenzilate	510-15-6	0.5	mg/kg		----	----	<0.5	----	----
EP075F: Haloethers									
Bis(2-chloroethyl) ether	111-44-4	0.5	mg/kg		----	----	<0.5	----	----
Bis(2-chloroethoxy) methane	111-91-1	0.5	mg/kg		----	----	<0.5	----	----
4-Chlorophenyl phenyl ether	7005-72-3	0.5	mg/kg		----	----	<0.5	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	D10	D11	D12	D13	----
Sampling date / time					22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	----
Compound	CAS Number	LOR	Unit	EB2406402-080	EB2406402-081	EB2406402-082	EB2406402-083	-----	
				Result	Result	Result	Result	----	
EP075F: Haloethers - Continued									
4-Bromophenyl phenyl ether	101-55-3	0.5	mg/kg	----	----	<0.5	----	----	
EP075G: Chlorinated Hydrocarbons									
1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	----	----	<0.5	----	----	
1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	----	----	<0.5	----	----	
1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	----	----	<0.5	----	----	
Hexachloroethane	67-72-1	0.5	mg/kg	----	----	<0.5	----	----	
1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	----	----	<0.5	----	----	
Hexachloropropylene	1888-71-7	0.5	mg/kg	----	----	<0.5	----	----	
Hexachlorobutadiene	87-68-3	0.5	mg/kg	----	----	<0.5	----	----	
Hexachlorocyclopentadiene	77-47-4	2.5	mg/kg	----	----	<2.5	----	----	
Pentachlorobenzene	608-93-5	0.5	mg/kg	----	----	<0.5	----	----	
Hexachlorobenzene (HCB)	118-74-1	1.0	mg/kg	----	----	<1.0	----	----	
EP075H: Anilines and Benzidines									
Aniline	62-53-3	0.5	mg/kg	----	----	<0.5	----	----	
4-Chloroaniline	106-47-8	0.5	mg/kg	----	----	<0.5	----	----	
2-Nitroaniline	88-74-4	1.0	mg/kg	----	----	<1.0	----	----	
3-Nitroaniline	99-09-2	1.0	mg/kg	----	----	<1.0	----	----	
Dibenzofuran	132-64-9	0.5	mg/kg	----	----	<0.5	----	----	
4-Nitroaniline	100-01-6	0.5	mg/kg	----	----	<0.5	----	----	
Carbazole	86-74-8	0.5	mg/kg	----	----	<0.5	----	----	
3,3'-Dichlorobenzidine	91-94-1	0.5	mg/kg	----	----	<0.5	----	----	
EP075I: Organochlorine Pesticides									
alpha-BHC	319-84-6	0.5	mg/kg	----	----	<0.5	----	----	
beta-BHC	319-85-7	0.5	mg/kg	----	----	<0.5	----	----	
gamma-BHC	58-89-9	0.5	mg/kg	----	----	<0.5	----	----	
delta-BHC	319-86-8	0.5	mg/kg	----	----	<0.5	----	----	
Heptachlor	76-44-8	0.5	mg/kg	----	----	<0.5	----	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	D10	D11	D12	D13	----
Sampling date / time					22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	----
Compound	CAS Number	LOR	Unit		EB2406402-080	EB2406402-081	EB2406402-082	EB2406402-083	-----
					Result	Result	Result	Result	----
EP075I: Organochlorine Pesticides - Continued									
Aldrin	309-00-2	0.5	mg/kg		----	----	<0.5	----	----
Heptachlor epoxide	1024-57-3	0.5	mg/kg		----	----	<0.5	----	----
alpha-Endosulfan	959-98-8	0.5	mg/kg		----	----	<0.5	----	----
4.4'-DDE	72-55-9	0.5	mg/kg		----	----	<0.5	----	----
Dieldrin	60-57-1	0.5	mg/kg		----	----	<0.5	----	----
Endrin	72-20-8	0.5	mg/kg		----	----	<0.5	----	----
beta-Endosulfan	33213-65-9	0.5	mg/kg		----	----	<0.5	----	----
4.4'-DDD	72-54-8	0.5	mg/kg		----	----	<0.5	----	----
Endosulfan sulfate	1031-07-8	0.5	mg/kg		----	----	<0.5	----	----
4.4'-DDT	50-29-3	1.0	mg/kg		----	----	<1.0	----	----
[^] Sum of DDD + DDE + DDT	72-54-8/72-55-9/5 0-2	0.5	mg/kg		----	----	<0.5	----	----
[^] Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.5	mg/kg		----	----	<0.5	----	----
EP075J: Organophosphorus Pesticides									
Dichlorvos	62-73-7	0.5	mg/kg		----	----	<0.5	----	----
Dimethoate	60-51-5	0.5	mg/kg		----	----	<0.5	----	----
Diazinon	333-41-5	0.5	mg/kg		----	----	<0.5	----	----
Chlorpyrifos-methyl	5598-13-0	0.5	mg/kg		----	----	<0.5	----	----
Malathion	121-75-5	0.5	mg/kg		----	----	<0.5	----	----
Fenthion	55-38-9	0.5	mg/kg		----	----	<0.5	----	----
Chlorpyrifos	2921-88-2	0.5	mg/kg		----	----	<0.5	----	----
Pirimphos-ethyl	23505-41-1	0.5	mg/kg		----	----	<0.5	----	----
Chlorfenvinphos	470-90-6	0.5	mg/kg		----	----	<0.5	----	----
Prothiofos	34643-46-4	0.5	mg/kg		----	----	<0.5	----	----
Ethion	563-12-2	0.5	mg/kg		----	----	<0.5	----	----
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	10	mg/kg		<10	<10	----	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	D10	D11	D12	D13	----
Sampling date / time					22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	----
Compound	CAS Number	LOR	Unit		EB2406402-080	EB2406402-081	EB2406402-082	EB2406402-083	-----
					Result	Result	Result	Result	----
EP080/071: Total Petroleum Hydrocarbons - Continued									
C10 - C14 Fraction	----	50	mg/kg		<50	<50	----	----	----
C15 - C28 Fraction	----	100	mg/kg		<100	<100	----	----	----
C29 - C36 Fraction	----	100	mg/kg		<100	<100	----	----	----
[^] C10 - C36 Fraction (sum)	----	50	mg/kg		<50	<50	----	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg		<10	<10	----	----	----
[^] C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg		<10	<10	----	----	----
>C10 - C16 Fraction	----	50	mg/kg		<50	<50	----	----	----
>C16 - C34 Fraction	----	100	mg/kg		<100	<100	----	----	----
>C34 - C40 Fraction	----	100	mg/kg		<100	<100	----	----	----
[^] >C10 - C40 Fraction (sum)	----	50	mg/kg		<50	<50	----	----	----
[^] >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg		<50	<50	----	----	----
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg		<0.2	<0.2	----	----	----
Toluene	108-88-3	0.5	mg/kg		<0.5	<0.5	----	----	----
Ethylbenzene	100-41-4	0.5	mg/kg		<0.5	<0.5	----	----	----
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		<0.5	<0.5	----	----	----
ortho-Xylene	95-47-6	0.5	mg/kg		<0.5	<0.5	----	----	----
[^] Sum of BTEX	----	0.2	mg/kg		<0.2	<0.2	----	----	----
[^] Total Xylenes	----	0.5	mg/kg		<0.5	<0.5	----	----	----
Naphthalene	91-20-3	1	mg/kg		<1	<1	----	----	----
EP066S: PCB Surrogate									
Decachlorobiphenyl	2051-24-3	0.1	%		119	----	----	----	----
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.05	%		125	----	----	----	----
EP068T: Organophosphorus Pesticide Surrogate									



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	D10	D11	D12	D13	----
Sampling date / time					22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	----
Compound	CAS Number	LOR	Unit		EB2406402-080	EB2406402-081	EB2406402-082	EB2406402-083	-----
					Result	Result	Result	Result	----
EP068T: Organophosphorus Pesticide Surrogate - Continued									
DEF	78-48-8	0.05	%		107	----	----	----	----
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	0.5	%		115	----	----	----	----
2-Chlorophenol-D4	93951-73-6	0.5	%		108	----	----	----	----
2.4.6-Tribromophenol	118-79-6	0.5	%		73.8	----	----	----	----
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	0.5	%		111	----	----	----	----
Anthracene-d10	1719-06-8	0.5	%		110	----	----	----	----
4-Terphenyl-d14	1718-51-0	0.5	%		127	----	----	----	----
EP075S: Acid Extractable Surrogates									
2-Fluorophenol	367-12-4	0.5	%		----	----	82.6	----	----
Phenol-d6	13127-88-3	0.5	%		----	----	85.6	----	----
2-Chlorophenol-D4	93951-73-6	0.5	%		----	----	90.6	----	----
2.4.6-Tribromophenol	118-79-6	0.5	%		----	----	33.4	----	----
EP075T: Base/Neutral Extractable Surrogates									
Nitrobenzene-D5	4165-60-0	0.5	%		----	----	81.3	----	----
1.2-Dichlorobenzene-D4	2199-69-1	0.5	%		----	----	69.9	----	----
2-Fluorobiphenyl	321-60-8	0.5	%		----	----	90.1	----	----
Anthracene-d10	1719-06-8	0.5	%		----	----	94.0	----	----
4-Terphenyl-d14	1718-51-0	0.5	%		----	----	127	----	----
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	0.2	%		100	104	----	----	----
Toluene-D8	2037-26-5	0.2	%		90.4	94.0	----	----	----
4-Bromofluorobenzene	460-00-4	0.2	%		97.8	99.6	----	----	----



Analytical Results

Sub-Matrix: SOLID (Matrix: SOLID)				Sample ID	TP38-B1	TP55-B1	----	----	----
Sampling date / time				21-Feb-2024 00:00	22-Feb-2024 00:00	----	----	----	
Compound	CAS Number	LOR	Unit	EB2406402-067	EB2406402-068	-----	-----	-----	
				Result	Result	----	----	----	
EA200: AS 4964 - 2004 Identification of Asbestos in bulk samples									
Asbestos Detected	1332-21-4	0.1	g/kg	Yes	Yes	----	----	----	
Asbestos Type	1332-21-4	-	--	Ch	Ch	----	----	----	
Asbestos (Trace)	1332-21-4	-	-	N/A	N/A	----	----	----	
Sample weight (dry)	----	0.01	g	1.40	2.50	----	----	----	
Synthetic Mineral Fibre	----	-	-	No	No	----	----	----	
Organic Fibre	----	-	-	No	No	----	----	----	
APPROVED IDENTIFIER:	----	-	--	M. TRAN	M. TRAN	----	----	----	



Analytical Results

Descriptive Results

Sub-Matrix: SOIL

Method: Compound	Sample ID - Sampling date / time	Analytical Results
EA200: AS 4964 - 2004 Identification of Asbestos in Soils		
EA200: Description	TP43-0.3 - 21-Feb-2024 00:00	Grey soil.
EA200: Description	TP45-0.1 - 21-Feb-2024 00:00	Grey soil with organic matter.
EA200: Description	TP47-0.2 - 21-Feb-2024 00:00	Grey soil with organic matter.
EA200: Description	TP48-0.2 - 21-Feb-2024 00:00	Grey soil with organic matter.
EA200: Description	TP48-0.5 - 21-Feb-2024 00:00	Grey soil.
EA200: Description	TP49-0.2 - 22-Feb-2024 00:00	Grey soil with organic matter.
EA200: Description	TP50-0.1 - 22-Feb-2024 00:00	Grey soil with organic matter.
EA200: Description	TP52-0.1 - 22-Feb-2024 00:00	Grey soil with organic matter.
EA200: Description	TP53-0.2 - 22-Feb-2024 00:00	Grey soil with rock and organic matter.
EA200: Description	TP54-0.1 - 22-Feb-2024 00:00	Grey soil with organic matter.
EA200: Description	TP55-0.1 - 22-Feb-2024 00:00	Grey soil with organic matter.
EA200: Description	TP55-0.5 - 22-Feb-2024 00:00	Tan clay like soil with organic matter.
EA200: Description	TP58-0.1 - 22-Feb-2024 00:00	Grey soil with organic matter.
EA200: Description	TP60-0.1 - 22-Feb-2024 00:00	Grey soil with organic matter.
EA200: Description	TP61-0.1 - 22-Feb-2024 00:00	Grey soil with organic matter.
EA200: Description	TP65-0.1 - 22-Feb-2024 00:00	Grey soil with organic matter.

Sub-Matrix: SOLID

Method: Compound	Sample ID - Sampling date / time	Analytical Results
EA200: AS 4964 - 2004 Identification of Asbestos in bulk samples		
EA200: Description	TP38-B1 - 21-Feb-2024 00:00	Asbestos fibre sheet with attached soil matter approx 50 x 20 x 1mm.
EA200: Description	TP55-B1 - 22-Feb-2024 00:00	Asbestos sheeting fragment approx 20 x 20 x 5mm.



Surrogate Control Limits

Sub-Matrix: SOIL		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP066S: PCB Surrogate			
Decachlorobiphenyl	2051-24-3	16	134
EP068S: Organochlorine Pesticide Surrogate			
Dibromo-DDE	21655-73-2	10	138
EP068T: Organophosphorus Pesticide Surrogate			
DEF	78-48-8	23	134
EP075(SIM)S: Phenolic Compound Surrogates			
Phenol-d6	13127-88-3	35	154
2-Chlorophenol-D4	93951-73-6	42	153
2,4,6-Tribromophenol	118-79-6	26	157
EP075(SIM)T: PAH Surrogates			
2-Fluorobiphenyl	321-60-8	34	156
Anthracene-d10	1719-06-8	37	153
4-Terphenyl-d14	1718-51-0	42	172
EP075S: Acid Extractable Surrogates			
2-Fluorophenol	367-12-4	10	150
Phenol-d6	13127-88-3	19	134
2-Chlorophenol-D4	93951-73-6	21	127
2,4,6-Tribromophenol	118-79-6	17	143
EP075T: Base/Neutral Extractable Surrogates			
Nitrobenzene-D5	4165-60-0	10	147
1,2-Dichlorobenzene-D4	2199-69-1	10	154
2-Fluorobiphenyl	321-60-8	10	128
Anthracene-d10	1719-06-8	10	137
4-Terphenyl-d14	1718-51-0	10	157
EP080S: TPH(V)/BTEX Surrogates			
1,2-Dichloroethane-D4	17060-07-0	53	134
Toluene-D8	2037-26-5	60	131
4-Bromofluorobenzene	460-00-4	59	127
EP231S: PFAS Surrogate			
13C4-PFOS	----	76	136
13C8-PFOA	----	78	131

Inter-Laboratory Testing

Analysis conducted by ALS Melbourne, NATA accreditation no. 825, site no. 13778 (Chemistry).

(SOIL) EA200: AS 4964 - 2004 Identification of Asbestos in Soils

(SOLID) EA200: AS 4964 - 2004 Identification of Asbestos in bulk samples



QUALITY CONTROL REPORT

Work Order	: EB2406402	Page	: 1 of 54
Client	: ENVIRONMENTAL ADVISORS	Laboratory	: Environmental Division Brisbane
Contact	: ANDREW WINTERS	Contact	: Customer Services EB
Address	: PO BOX 505 BUDDINA QLD 4575	Address	: 2 Byth Street Stafford QLD Australia 4053
Telephone	: ----	Telephone	: +61 7 3243 7222
Project	: 125 NSC LAKE McDONALD DVE, COOROY	Date Samples Received	: 24-Feb-2024
Order number	: ----	Date Analysis Commenced	: 27-Feb-2024
C-O-C number	: ----	Issue Date	: 08-Mar-2024
Sampler	: ANDREW WINTERS		
Site	: ----		
Quote number	: EB23ENVADV0001 V2		
No. of samples received	: 83		
No. of samples analysed	: 71		



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.

<i>Signatories</i>	<i>Position</i>	<i>Accreditation Category</i>
Beatriz Llarinas	Senior Chemist - Inorganics	Brisbane Inorganics, Stafford, QLD
Beatriz Llarinas	Senior Chemist - Inorganics	Brisbane Soil Preparation, Stafford, QLD
Kirsty Watson	Senior Chemist - Organics	Brisbane Organics, Stafford, QLD
MINNIE TRAN	Approved Asbestos Identifier	Melbourne Asbestos, Springvale, VIC
Timothy Creagh	Senior Chemist - Organics	Brisbane Organics, Stafford, QLD



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: 5627901)									
EB2406372-072	Anonymous	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	3	8	90.8	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
		EG005T: Zinc	7440-66-6	5	mg/kg	<5	<5	0.0	No Limit
EB2406372-088	Anonymous	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	17	24	34.6	0% - 50%
		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	7	26.9	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	15	14	0.0	No Limit
EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 5627909)									
EB2406372-099	Anonymous	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	21	22	9.1	0% - 50%
		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	9	8	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: 5627909) - continued									
EB2406372-099	Anonymous	EG005T: Zinc	7440-66-6	5	mg/kg	<5	<5	0.0	No Limit
EB2406402-010	TP44-1.0	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	18	16	12.7	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	<2	<2	0.0	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	8	7	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	7	6	0.0	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	<5	<5	0.0	No Limit
EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 5627910)									
EB2406402-026	TP50-0.1	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	13	12	0.0	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	24	30	19.7	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	42	61	37.1	0% - 50%
		EG005T: Zinc	7440-66-6	5	mg/kg	111	129	15.3	0% - 20%
EB2406402-051	TP58-0.5	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	36	37	4.7	0% - 50%
		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	11	11	0.0	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	<5	<5	0.0	No Limit
EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 5627929)									
EB2406402-020	TP48-0.2	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	11	10	0.0	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	9	5	53.0	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	5	5	0.0	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	32	23	32.0	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	216	# 155	33.1	0% - 20%
		EG005T: Zinc	7440-66-6	5	mg/kg	581	# 453	24.8	0% - 20%
EB2406402-047	TP57-0.1	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	7	8	17.1	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	22	18	19.8	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: 5627929) - continued									
EB2406402-047	TP57-0.1	EG005T: Zinc	7440-66-6	5	mg/kg	28	21	28.2	No Limit
EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 5627935)									
EB2406402-071	D1	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	39	37	5.1	0% - 50%
		EG005T: Nickel	7440-02-0	2	mg/kg	4	3	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	7	7	0.0	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	<5	<5	0.0	No Limit
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 5627906)									
EB2406372-071	Anonymous	EA055: Moisture Content	----	0.1 (1.0)*	%	9.0	9.3	3.1	No Limit
EB2406372-085	Anonymous	EA055: Moisture Content	----	0.1 (1.0)*	%	14.7	14.7	0.0	0% - 50%
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 5627921)									
EB2406372-099	Anonymous	EA055: Moisture Content	----	0.1 (1.0)*	%	20.8	20.2	2.7	0% - 20%
EB2406402-010	TP44-1.0	EA055: Moisture Content	----	0.1 (1.0)*	%	25.1	26.5	5.5	0% - 20%
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 5627922)									
EB2406402-026	TP50-0.1	EA055: Moisture Content	----	0.1 (1.0)*	%	11.6	11.6	0.0	0% - 50%
EB2406402-051	TP58-0.5	EA055: Moisture Content	----	0.1 (1.0)*	%	23.0	23.4	1.6	0% - 20%
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 5627932)									
EB2406402-020	TP48-0.2	EA055: Moisture Content	----	0.1 (1.0)*	%	19.6	20.6	4.8	0% - 20%
EB2406402-042	TP55-0.1	EA055: Moisture Content	----	0.1 (1.0)*	%	14.8	14.6	1.3	0% - 50%
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 5627933)									
EB2406402-083	D13	EA055: Moisture Content	----	0.1 (1.0)*	%	13.1	12.9	1.1	0% - 50%
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 5627943)									
EB2406402-071	D1	EA055: Moisture Content	----	0.1 (1.0)*	%	15.1	15.1	0.0	0% - 50%
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 5627902)									
EB2406372-072	Anonymous	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EB2406372-088	Anonymous	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: 5627908)									
EB2406372-099	Anonymous	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EB2406402-010	TP44-1.0	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: 5627911)									
EB2406402-026	TP50-0.1	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EB2406402-051	TP58-0.5	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: 5627930)									
EB2406402-020	TP48-0.2	EG035T: Mercury	7439-97-6	0.1	mg/kg	0.7	0.3	85.9	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 (%)
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 5627930) - continued									
EB2406402-047	TP57-0.1	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: 5627934)									
EB2406402-071	D1	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EP066: Polychlorinated Biphenyls (PCB) (QC Lot: 5627918)									
EB2406372-101	Anonymous	EP066: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EP066: Polychlorinated Biphenyls (PCB) (QC Lot: 5627926)									
EB2406402-052	TP59-0.2	EP066: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EB2406402-020	TP48-0.2	EP066: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EP066: Polychlorinated Biphenyls (PCB) (QC Lot: 5627940)									
EB2406402-076	D6	EP066: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EP068A: Organochlorine Pesticides (OC) (QC Lot: 5627917)									
EB2406372-101	Anonymous	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	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	<0.05	<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		



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: 5627917) - continued									
EB2406372-101	Anonymous	EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
EP068A: Organochlorine Pesticides (OC) (QC Lot: 5627925)									
EB2406402-052	TP59-0.2	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	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	<0.05	<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		
EB2406402-020	TP48-0.2	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	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



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: 5627925) - continued									
EB2406402-020	TP48-0.2	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		
EP068A: Organochlorine Pesticides (OC) (QC Lot: 5627939)									
EB2406402-076	D6	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	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	<0.05	<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



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: 5627939) - continued									
EB2406402-076	D6	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: 5627917)									
EB2406372-101	Anonymous	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	56-38-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit		
EP068B: Organophosphorus Pesticides (OP) (QC Lot: 5627925)									
EB2406402-052	TP59-0.2	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



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: 5627925) - continued									
EB2406402-052	TP59-0.2	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	56-38-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
EB2406402-020	TP48-0.2	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	56-38-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
EP068B: Organophosphorus Pesticides (OP) (QC Lot: 5627939)									
EB2406402-076	D6	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



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: 5627939) - continued									
EB2406402-076	D6	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	56-38-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 5627914)									
EB2406372-101	Anonymous	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	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
		EP075(SIM): Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 5627924)									
EB2406402-052	TP59-0.2	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



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: 5627924) - continued										
EB2406402-052	TP59-0.2	EP075(SIM): Benzo(b+j)fluoranthene	205-99-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit	
			205-82-3							
		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	
	EP075(SIM): Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit		
EB2406402-020	TP48-0.2	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	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
				205-82-3						
			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
	EP075(SIM): Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit		
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 5627938)										
EB2406402-076	D6	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	



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: 5627938) - continued									
EB2406402-076	D6	EP075(SIM): Benzo(b+j)fluoranthene	205-99-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
			205-82-3						
		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
		EP075(SIM): Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP075A: Phenolic Compounds (QC Lot: 5627919)									
EB2406402-001	TP42-0.2	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
EP075A: Phenolic Compounds (QC Lot: 5627927)									
EB2406402-023	TP49-0.2	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
EP075A: Phenolic Compounds (QC Lot: 5627941)									
EB2406402-078	D8	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



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: 5627941) - continued											
EB2406402-078	D8	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: 5627919)											
EB2406402-001	TP42-0.2	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: Dibenzo(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: Sum of PAHs	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit		
		EP075: Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit		
		EP075: Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	0.6	0.6	0.0	No Limit		
		EP075: Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	1.2	1.2	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: 5627927)									
		EB2406402-023	TP49-0.2	EP075: Naphthalene	91-20-3	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: 5627927) - continued									
EB2406402-023	TP49-0.2	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
		EP075: Sum of PAHs	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP075: Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	0.6	0.6	0.0	No Limit		
EP075: Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	1.2	1.2	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: 5627941)									
EB2406402-078	D8	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



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: 5627941) - continued									
EB2406402-078	D8	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: Sum of PAHs	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	0.6	0.6	0.0	No Limit
		EP075: Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	1.2	1.2	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
EP075C: Phthalate Esters (QC Lot: 5627919)									
EB2406402-001	TP42-0.2	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: 5627927)									
EB2406402-023	TP49-0.2	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: 5627941)									
EB2406402-078	D8	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: 5627919)									
EB2406402-001	TP42-0.2	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



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: 5627919) - continued									
EB2406402-001	TP42-0.2	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: 5627927)									
EB2406402-023	TP49-0.2	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: 5627941)									
EB2406402-078	D8	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: 5627919)									
EB2406402-001	TP42-0.2	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: 5627919) - continued									
EB2406402-001	TP42-0.2	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: 5627927)									
EB2406402-023	TP49-0.2	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: 5627941)									
EB2406402-078	D8	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



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: 5627941) - continued									
EB2406402-078	D8	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: 5627919)									
EB2406402-001	TP42-0.2	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: 5627927)									
EB2406402-023	TP49-0.2	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: 5627941)									
EB2406402-078	D8	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: 5627919)									
EB2406402-001	TP42-0.2	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: 5627927)									
EB2406402-023	TP49-0.2	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



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: 5627927) - continued									
EB2406402-023	TP49-0.2	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: 5627941)									
EB2406402-078	D8	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: 5627919)									
EB2406402-001	TP42-0.2	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: 5627927)									
EB2406402-023	TP49-0.2	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



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: 5627941)									
EB2406402-078	D8	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: 5627919)									
EB2406402-001	TP42-0.2	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	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
		EP075: Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP075I: Organochlorine Pesticides (QC Lot: 5627927)									
EB2406402-023	TP49-0.2	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	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



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: 5627927) - continued									
EB2406402-023	TP49-0.2	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
		EP075: Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP075I: Organochlorine Pesticides (QC Lot: 5627941)									
EB2406402-078	D8	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	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
		EP075: Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075J: Organophosphorus Pesticides (QC Lot: 5627919)							
EB2406402-001	TP42-0.2	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: 5627919) - continued									
EB2406402-001	TP42-0.2	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: 5627927)									
EB2406402-023	TP49-0.2	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: 5627941)									
EB2406402-078	D8	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		
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 5627912)									
EB2406372-099	Anonymous	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
EB2406402-011	TP45-0.1	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 5627913)									
EB2406402-011	TP45-0.1	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
EB2406372-101	Anonymous	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



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 (%)
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 5627913) - continued									
EB2406372-101	Anonymous	EP071: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 5627923)									
EB2406402-047	TP57-0.1	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
EB2406402-020	TP48-0.2	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 Petroleum Hydrocarbons (QC Lot: 5627928)									
EB2406402-020	TP48-0.2	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
EB2406402-047	TP57-0.1	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 5627936)									
EB2406402-071	D1	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 5627937)									
EB2406402-071	D1	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: 5627912)									
EB2406372-099	Anonymous	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.0	No Limit
EB2406402-011	TP45-0.1	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: 5627913)									
EB2406402-011	TP45-0.1	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
EB2406372-101	Anonymous	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
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 5627923)									
EB2406402-047	TP57-0.1	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
EB2406402-020	TP48-0.2	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
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 5627928)									
EB2406402-020	TP48-0.2	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	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 (%)
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 5627928) - continued									
EB2406402-047	TP57-0.1	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: 5627936)									
EB2406402-071	D1	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: 5627937)									
EB2406402-071	D1	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: 5627912)									
EB2406372-099	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
EB2406402-011	TP45-0.1	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: 5627928)									
EB2406402-020	TP48-0.2	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
EB2406402-047	TP57-0.1	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: 5627936)									



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 (%)
EP080: BTEXN (QC Lot: 5627936) - continued									
EB2406402-071	D1	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
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 5627981)									
EB2406372-001	Anonymous	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
EB2406372-074	Anonymous	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 5627990)									
EB2406402-075	D5	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 5627981)									
EB2406372-001	Anonymous	EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	<0.001	0.0	No Limit
EB2406372-074	Anonymous	EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	<0.001	0.0	No Limit
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 5627990)									
EB2406402-075	D5	EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	<0.001	0.0	No Limit
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 5627981)									



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 (%)
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 5627981) - continued									
EB2406372-001	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
EB2406372-074	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 5627990)									
EB2406402-075	D5	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	<0.0005	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			
					Result	Spike Concentration	Spike Recovery (%) LCS	Acceptable Limits (%)
Method: Compound	CAS Number	LOR	Unit	Low				High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 5627901)								
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	65.3 mg/kg	97.3	84.0	123
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	----	----	----	----
EG005T: Chromium	7440-47-3	2	mg/kg	<2	14.5 mg/kg	102	83.0	125
EG005T: Copper	7440-50-8	5	mg/kg	<5	37.4 mg/kg	103	86.0	122
EG005T: Lead	7439-92-1	5	mg/kg	<5	45.3 mg/kg	95.8	84.0	119
EG005T: Nickel	7440-02-0	2	mg/kg	<2	12.4 mg/kg	102	81.5	118
EG005T: Zinc	7440-66-6	5	mg/kg	<5	150.2 mg/kg	103	80.0	120
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 5627909)								
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	65.3 mg/kg	110	84.0	123
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	----	----	----	----
EG005T: Chromium	7440-47-3	2	mg/kg	<2	14.5 mg/kg	114	83.0	125
EG005T: Copper	7440-50-8	5	mg/kg	<5	37.4 mg/kg	117	86.0	122
EG005T: Lead	7439-92-1	5	mg/kg	<5	45.3 mg/kg	115	84.0	119
EG005T: Nickel	7440-02-0	2	mg/kg	<2	12.4 mg/kg	115	81.5	118
EG005T: Zinc	7440-66-6	5	mg/kg	<5	150.2 mg/kg	118	80.0	120
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 5627910)								
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	65.3 mg/kg	98.0	84.0	123
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	----	----	----	----
EG005T: Chromium	7440-47-3	2	mg/kg	<2	14.5 mg/kg	108	83.0	125
EG005T: Copper	7440-50-8	5	mg/kg	<5	37.4 mg/kg	102	86.0	122
EG005T: Lead	7439-92-1	5	mg/kg	<5	45.3 mg/kg	101	84.0	119
EG005T: Nickel	7440-02-0	2	mg/kg	<2	12.4 mg/kg	105	81.5	118
EG005T: Zinc	7440-66-6	5	mg/kg	<5	150.2 mg/kg	108	80.0	120
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 5627929)								
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	65.3 mg/kg	92.1	84.0	123
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	----	----	----	----
EG005T: Chromium	7440-47-3	2	mg/kg	<2	14.5 mg/kg	103	83.0	125
EG005T: Copper	7440-50-8	5	mg/kg	<5	37.4 mg/kg	103	86.0	122
EG005T: Lead	7439-92-1	5	mg/kg	<5	45.3 mg/kg	101	84.0	119
EG005T: Nickel	7440-02-0	2	mg/kg	<2	12.4 mg/kg	102	81.5	118



Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report Result	Laboratory Control Spike (LCS) Report			
					Spike Concentration	Spike Recovery (%)	Acceptable Limits (%)	
						LCS	Low	High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 5627929) - continued								
EG005T: Zinc	7440-66-6	5	mg/kg	<5	150.2 mg/kg	101	80.0	120
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 5627935)								
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	65.3 mg/kg	102	84.0	123
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	----	----	----	----
EG005T: Chromium	7440-47-3	2	mg/kg	<2	14.5 mg/kg	107	83.0	125
EG005T: Copper	7440-50-8	5	mg/kg	<5	37.4 mg/kg	115	86.0	122
EG005T: Lead	7439-92-1	5	mg/kg	<5	45.3 mg/kg	108	84.0	119
EG005T: Nickel	7440-02-0	2	mg/kg	<2	12.4 mg/kg	107	81.5	118
EG005T: Zinc	7440-66-6	5	mg/kg	<5	150.2 mg/kg	114	80.0	120
EG035T: Total Recoverable Mercury by FIMS (QCLot: 5627902)								
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.09199 mg/kg	110	70.0	125
EG035T: Total Recoverable Mercury by FIMS (QCLot: 5627908)								
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.09199 mg/kg	106	70.0	125
EG035T: Total Recoverable Mercury by FIMS (QCLot: 5627911)								
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.09199 mg/kg	99.1	70.0	125
EG035T: Total Recoverable Mercury by FIMS (QCLot: 5627930)								
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.09199 mg/kg	104	70.0	125
EG035T: Total Recoverable Mercury by FIMS (QCLot: 5627934)								
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.09199 mg/kg	110	70.0	125
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 5627918)								
EP066: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	1 mg/kg	101	71.6	155
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 5627926)								
EP066: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	1 mg/kg	87.8	71.6	155
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 5627940)								
EP066: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	1 mg/kg	124	71.6	155
EP068A: Organochlorine Pesticides (OC) (QCLot: 5627917)								
EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	0.5 mg/kg	110	72.8	127
EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	0.5 mg/kg	112	71.0	127
EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	0.5 mg/kg	93.6	67.5	126
EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	0.5 mg/kg	99.0	72.7	127
EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	0.5 mg/kg	95.0	70.6	122
EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	0.5 mg/kg	96.2	64.8	127
EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	0.5 mg/kg	103	72.4	122
EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	0.5 mg/kg	79.1	67.4	125



Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
				Result	Spike	Spike Recovery (%)	Acceptable Limits (%)	
					Concentration	LCS	Low	High
EP068A: Organochlorine Pesticides (OC) (QCLot: 5627917) - continued								
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	77.5	65.6	124
EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	0.5 mg/kg	87.6	70.4	122
EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	0.5 mg/kg	78.8	65.6	125
EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	0.5 mg/kg	92.4	69.1	124
EP068: 4.4'-DDE	72-55-9	0.05	mg/kg	<0.05	0.5 mg/kg	103	72.4	125
EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	0.5 mg/kg	89.0	63.2	127
EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	0.5 mg/kg	105	69.7	120
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	104	61.2	124
EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	0.5 mg/kg	100	55.5	125
EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	0.5 mg/kg	89.0	57.1	117
EP068: 4.4'-DDT	50-29-3	0.2	mg/kg	<0.2	0.5 mg/kg	93.4	51.9	125
EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	0.5 mg/kg	105	46.5	122
EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	0.5 mg/kg	87.8	34.0	130
EP068: Sum of DDD + DDE + DDT	72-54-8/72-5-9/50-2	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: 5627925)								
EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	0.5 mg/kg	108	72.8	127
EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	0.5 mg/kg	110	71.0	127
EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	0.5 mg/kg	96.0	67.5	126
EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	0.5 mg/kg	103	72.7	127
EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	0.5 mg/kg	95.2	70.6	122
EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	0.5 mg/kg	94.5	64.8	127
EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	0.5 mg/kg	97.6	72.4	122
EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	0.5 mg/kg	85.5	67.4	125
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	74.3	65.6	124
EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	0.5 mg/kg	98.8	70.4	122
EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	0.5 mg/kg	79.5	65.6	125
EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	0.5 mg/kg	96.0	69.1	124
EP068: 4.4'-DDE	72-55-9	0.05	mg/kg	<0.05	0.5 mg/kg	101	72.4	125
EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	0.5 mg/kg	93.8	63.2	127



Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
				Result	Spike	Spike Recovery (%)	Acceptable Limits (%)	
					Concentration	LCS	Low	High
EP068A: Organochlorine Pesticides (OC) (QCLot: 5627925) - continued								
EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	0.5 mg/kg	95.6	69.7	120
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	85.2	61.2	124
EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	0.5 mg/kg	77.4	55.5	125
EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	0.5 mg/kg	91.9	57.1	117
EP068: 4.4'-DDT	50-29-3	0.2	mg/kg	<0.2	0.5 mg/kg	75.7	51.9	125
EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	0.5 mg/kg	79.2	46.5	122
EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	0.5 mg/kg	86.5	34.0	130
EP068: Sum of DDD + DDE + DDT	72-54-8/72-5-9/50-2	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: 5627939)								
EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	0.5 mg/kg	104	72.8	127
EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	0.5 mg/kg	104	71.0	127
EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	0.5 mg/kg	88.0	67.5	126
EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	0.5 mg/kg	92.7	72.7	127
EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	0.5 mg/kg	88.9	70.6	122
EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	0.5 mg/kg	90.8	64.8	127
EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	0.5 mg/kg	96.0	72.4	122
EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	0.5 mg/kg	72.6	67.4	125
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	73.1	65.6	124
EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	0.5 mg/kg	76.8	70.4	122
EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	0.5 mg/kg	75.1	65.6	125
EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	0.5 mg/kg	86.7	69.1	124
EP068: 4.4'-DDE	72-55-9	0.05	mg/kg	<0.05	0.5 mg/kg	96.9	72.4	125
EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	0.5 mg/kg	83.4	63.2	127
EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	0.5 mg/kg	98.9	69.7	120
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	98.6	61.2	124
EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	0.5 mg/kg	101	55.5	125
EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	0.5 mg/kg	83.6	57.1	117
EP068: 4.4'-DDT	50-29-3	0.2	mg/kg	<0.2	0.5 mg/kg	85.2	51.9	125
EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	0.5 mg/kg	94.9	46.5	122



Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
				Result	Spike Concentration	Spike Recovery (%)	Acceptable Limits (%)	
					LCS	Low	High	
EP068A: Organochlorine Pesticides (OC) (QCLot: 5627939) - continued								
EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	0.5 mg/kg	80.3	34.0	130
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: 5627917)								
EP068: Dichlorvos	62-73-7	0.05	mg/kg	<0.05	0.5 mg/kg	93.3	55.8	126
EP068: Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	0.5 mg/kg	84.4	45.9	136
EP068: Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	0.5 mg/kg	# 17.6	20.0	147
EP068: Dimethoate	60-51-5	0.05	mg/kg	<0.05	0.5 mg/kg	76.4	44.1	125
EP068: Diazinon	333-41-5	0.05	mg/kg	<0.05	0.5 mg/kg	104	70.3	125
EP068: Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	0.5 mg/kg	106	63.2	124
EP068: Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	0.5 mg/kg	83.0	44.2	129
EP068: Malathion	121-75-5	0.05	mg/kg	<0.05	0.5 mg/kg	82.5	52.3	133
EP068: Fenthion	55-38-9	0.05	mg/kg	<0.05	0.5 mg/kg	108	62.9	126
EP068: Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	0.5 mg/kg	102	69.2	123
EP068: Parathion	56-38-2	0.2	mg/kg	<0.2	0.5 mg/kg	86.0	37.6	138
EP068: Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	0.5 mg/kg	82.5	59.6	131
EP068: Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	0.5 mg/kg	100	46.4	144
EP068: Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	0.5 mg/kg	92.3	56.8	128
EP068: Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	0.5 mg/kg	99.2	24.4	135
EP068: Prothiofos	34643-46-4	0.05	mg/kg	<0.05	0.5 mg/kg	90.4	55.9	123
EP068: Ethion	563-12-2	0.05	mg/kg	<0.05	0.5 mg/kg	93.8	45.0	138
EP068: Carbophenothion	786-19-6	0.05	mg/kg	<0.05	0.5 mg/kg	101	41.6	141
EP068: Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	0.5 mg/kg	# 19.8	20.0	145
EP068B: Organophosphorus Pesticides (OP) (QCLot: 5627925)								
EP068: Dichlorvos	62-73-7	0.05	mg/kg	<0.05	0.5 mg/kg	89.4	55.8	126
EP068: Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	0.5 mg/kg	90.8	45.9	136
EP068: Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	0.5 mg/kg	106	20.0	147
EP068: Dimethoate	60-51-5	0.05	mg/kg	<0.05	0.5 mg/kg	93.2	44.1	125
EP068: Diazinon	333-41-5	0.05	mg/kg	<0.05	0.5 mg/kg	87.7	70.3	125
EP068: Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	0.5 mg/kg	92.6	63.2	124
EP068: Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	0.5 mg/kg	75.6	44.2	129
EP068: Malathion	121-75-5	0.05	mg/kg	<0.05	0.5 mg/kg	77.0	52.3	133
EP068: Fenthion	55-38-9	0.05	mg/kg	<0.05	0.5 mg/kg	97.3	62.9	126



Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
				Result	Spike Concentration	Spike Recovery (%)	Acceptable Limits (%)	
					LCS	Low	High	
EP068B: Organophosphorus Pesticides (OP) (QCLot: 5627925) - continued								
EP068: Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	0.5 mg/kg	92.9	69.2	123
EP068: Parathion	56-38-2	0.2	mg/kg	<0.2	0.5 mg/kg	78.0	37.6	138
EP068: Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	0.5 mg/kg	76.4	59.6	131
EP068: Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	0.5 mg/kg	73.6	46.4	144
EP068: Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	0.5 mg/kg	91.9	56.8	128
EP068: Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	0.5 mg/kg	64.8	24.4	135
EP068: Prothiofos	34643-46-4	0.05	mg/kg	<0.05	0.5 mg/kg	84.7	55.9	123
EP068: Ethion	563-12-2	0.05	mg/kg	<0.05	0.5 mg/kg	72.9	45.0	138
EP068: Carbophenothion	786-19-6	0.05	mg/kg	<0.05	0.5 mg/kg	74.5	41.6	141
EP068: Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	0.5 mg/kg	69.0	20.0	145
EP068B: Organophosphorus Pesticides (OP) (QCLot: 5627939)								
EP068: Dichlorvos	62-73-7	0.05	mg/kg	<0.05	0.5 mg/kg	86.0	55.8	126
EP068: Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	0.5 mg/kg	79.2	45.9	136
EP068: Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	0.5 mg/kg	# 9.2	20.0	147
EP068: Dimethoate	60-51-5	0.05	mg/kg	<0.05	0.5 mg/kg	69.7	44.1	125
EP068: Diazinon	333-41-5	0.05	mg/kg	<0.05	0.5 mg/kg	101	70.3	125
EP068: Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	0.5 mg/kg	101	63.2	124
EP068: Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	0.5 mg/kg	85.7	44.2	129
EP068: Malathion	121-75-5	0.05	mg/kg	<0.05	0.5 mg/kg	82.8	52.3	133
EP068: Fenthion	55-38-9	0.05	mg/kg	<0.05	0.5 mg/kg	104	62.9	126
EP068: Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	0.5 mg/kg	100	69.2	123
EP068: Parathion	56-38-2	0.2	mg/kg	<0.2	0.5 mg/kg	88.5	37.6	138
EP068: Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	0.5 mg/kg	78.4	59.6	131
EP068: Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	0.5 mg/kg	96.6	46.4	144
EP068: Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	0.5 mg/kg	88.5	56.8	128
EP068: Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	0.5 mg/kg	97.3	24.4	135
EP068: Prothiofos	34643-46-4	0.05	mg/kg	<0.05	0.5 mg/kg	88.3	55.9	123
EP068: Ethion	563-12-2	0.05	mg/kg	<0.05	0.5 mg/kg	92.3	45.0	138
EP068: Carbophenothion	786-19-6	0.05	mg/kg	<0.05	0.5 mg/kg	93.3	41.6	141
EP068: Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	0.5 mg/kg	22.3	20.0	145
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 5627914)								
EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	1.5 mg/kg	85.2	72.6	133
EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	1.5 mg/kg	89.6	63.2	144
EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	1.5 mg/kg	86.5	66.0	132



Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
				Result	Spike	Spike Recovery (%)		
					Concentration	LCS	Acceptable Limits (%)	
						Low	High	
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 5627914) - continued								
EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	1.5 mg/kg	84.7	76.2	134
EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	1.5 mg/kg	92.6	71.8	137
EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	1.5 mg/kg	99.4	77.1	143
EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	1.5 mg/kg	88.2	74.1	140
EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	1.5 mg/kg	86.3	72.0	139
EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	1.5 mg/kg	85.6	58.0	145
EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	1.5 mg/kg	87.7	63.0	147
EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	1.5 mg/kg	89.9	70.5	142
EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	1.5 mg/kg	99.4	75.5	138
EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	1.5 mg/kg	90.6	68.5	140
EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	1.5 mg/kg	93.0	58.4	143
EP075(SIM): Dibenz(a,h)anthracene	53-70-3	0.5	mg/kg	<0.5	1.5 mg/kg	103	52.1	149
EP075(SIM): Benzo(g,h,i)perylene	191-24-2	0.5	mg/kg	<0.5	1.5 mg/kg	107	64.6	140
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 5627924)								
EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	1.5 mg/kg	78.3	72.6	133
EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	1.5 mg/kg	90.2	63.2	144
EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	1.5 mg/kg	86.3	66.0	132
EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	1.5 mg/kg	86.8	76.2	134
EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	1.5 mg/kg	93.1	71.8	137
EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	1.5 mg/kg	92.0	77.1	143
EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	1.5 mg/kg	90.5	74.1	140
EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	1.5 mg/kg	90.1	72.0	139
EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	1.5 mg/kg	92.4	58.0	145
EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	1.5 mg/kg	96.3	63.0	147
EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	1.5 mg/kg	77.4	70.5	142
EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	1.5 mg/kg	87.4	75.5	138
EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	1.5 mg/kg	84.4	68.5	140
EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	1.5 mg/kg	71.7	58.4	143
EP075(SIM): Dibenz(a,h)anthracene	53-70-3	0.5	mg/kg	<0.5	1.5 mg/kg	78.7	52.1	149
EP075(SIM): Benzo(g,h,i)perylene	191-24-2	0.5	mg/kg	<0.5	1.5 mg/kg	80.3	64.6	140
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 5627938)								
EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	1.5 mg/kg	89.4	72.6	133
EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	1.5 mg/kg	86.5	63.2	144



Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report				
				Result	Spike	Spike Recovery (%)		Acceptable Limits (%)	
					Concentration	LCS	Low	High	
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 5627938) - continued									
EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	1.5 mg/kg	85.7	66.0	132	
EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	1.5 mg/kg	85.8	76.2	134	
EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	1.5 mg/kg	91.6	71.8	137	
EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	1.5 mg/kg	93.1	77.1	143	
EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	1.5 mg/kg	91.1	74.1	140	
EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	1.5 mg/kg	91.6	72.0	139	
EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	1.5 mg/kg	83.7	58.0	145	
EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	1.5 mg/kg	97.7	63.0	147	
EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	1.5 mg/kg	85.1	70.5	142	
EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	1.5 mg/kg	86.4	75.5	138	
EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	1.5 mg/kg	83.5	68.5	140	
EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	1.5 mg/kg	92.6	58.4	143	
EP075(SIM): Dibenz(a,h)anthracene	53-70-3	0.5	mg/kg	<0.5	1.5 mg/kg	91.3	52.1	149	
EP075(SIM): Benzo(g,h,i)perylene	191-24-2	0.5	mg/kg	<0.5	1.5 mg/kg	94.4	64.6	140	
EP075A: Phenolic Compounds (QCLot: 5627919)									
EP075: Phenol	108-95-2	0.5	mg/kg	<0.5	1 mg/kg	90.9	50.0	159	
EP075: 2-Chlorophenol	95-57-8	0.5	mg/kg	<0.5	1 mg/kg	93.2	79.9	120	
EP075: 2-Methylphenol	95-48-7	0.5	mg/kg	<0.5	1 mg/kg	93.2	80.9	138	
EP075: 3- & 4-Methylphenol	1319-77-3	0.5	mg/kg	<0.5	1 mg/kg	90.2	75.0	139	
EP075: 2-Nitrophenol	88-75-5	0.5	mg/kg	<0.5	1 mg/kg	96.7	59.8	154	
EP075: 2,4-Dimethylphenol	105-67-9	0.5	mg/kg	<0.5	1 mg/kg	89.3	80.0	131	
EP075: 2,4-Dichlorophenol	120-83-2	0.5	mg/kg	<0.5	1 mg/kg	90.2	67.2	137	
EP075: 2,6-Dichlorophenol	87-65-0	0.5	mg/kg	<0.5	1 mg/kg	90.2	76.2	148	
EP075: 4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg	<0.5	1 mg/kg	81.2	56.0	132	
EP075: 2,4,6-Trichlorophenol	88-06-2	0.5	mg/kg	<0.5	1 mg/kg	# 58.0	58.5	148	
EP075: 2,4,5-Trichlorophenol	95-95-4	0.5	mg/kg	<0.5	1 mg/kg	59.1	51.2	145	
EP075: Pentachlorophenol	87-86-5	1	mg/kg	<1	1 mg/kg	# 13.8	21.0	130	
EP075A: Phenolic Compounds (QCLot: 5627927)									
EP075: Phenol	108-95-2	0.5	mg/kg	<0.5	1 mg/kg	101	50.0	159	
EP075: 2-Chlorophenol	95-57-8	0.5	mg/kg	<0.5	1 mg/kg	98.8	79.9	120	
EP075: 2-Methylphenol	95-48-7	0.5	mg/kg	<0.5	1 mg/kg	91.9	80.9	138	
EP075: 3- & 4-Methylphenol	1319-77-3	0.5	mg/kg	<0.5	1 mg/kg	86.4	75.0	139	
EP075: 2-Nitrophenol	88-75-5	0.5	mg/kg	<0.5	1 mg/kg	90.9	59.8	154	



Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report				
				Result	Spike	Spike Recovery (%)		Acceptable Limits (%)	
					Concentration	LCS	Low	High	
EP075A: Phenolic Compounds (QCLot: 5627927) - continued									
EP075: 2,4-Dimethylphenol	105-67-9	0.5	mg/kg	<0.5	1 mg/kg	95.4	80.0	131	
EP075: 2,4-Dichlorophenol	120-83-2	0.5	mg/kg	<0.5	1 mg/kg	89.2	67.2	137	
EP075: 2,6-Dichlorophenol	87-65-0	0.5	mg/kg	<0.5	1 mg/kg	95.4	76.2	148	
EP075: 4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg	<0.5	1 mg/kg	97.2	56.0	132	
EP075: 2,4,6-Trichlorophenol	88-06-2	0.5	mg/kg	<0.5	1 mg/kg	90.3	58.5	148	
EP075: 2,4,5-Trichlorophenol	95-95-4	0.5	mg/kg	<0.5	1 mg/kg	87.6	51.2	145	
EP075: Pentachlorophenol	87-86-5	1	mg/kg	<1	1 mg/kg	72.9	21.0	130	
EP075A: Phenolic Compounds (QCLot: 5627941)									
EP075: Phenol	108-95-2	0.5	mg/kg	<0.5	1 mg/kg	93.3	50.0	159	
EP075: 2-Chlorophenol	95-57-8	0.5	mg/kg	<0.5	1 mg/kg	97.9	79.9	120	
EP075: 2-Methylphenol	95-48-7	0.5	mg/kg	<0.5	1 mg/kg	97.1	80.9	138	
EP075: 3- & 4-Methylphenol	1319-77-3	0.5	mg/kg	<0.5	1 mg/kg	96.0	75.0	139	
EP075: 2-Nitrophenol	88-75-5	0.5	mg/kg	<0.5	1 mg/kg	103	59.8	154	
EP075: 2,4-Dimethylphenol	105-67-9	0.5	mg/kg	<0.5	1 mg/kg	94.9	80.0	131	
EP075: 2,4-Dichlorophenol	120-83-2	0.5	mg/kg	<0.5	1 mg/kg	103	67.2	137	
EP075: 2,6-Dichlorophenol	87-65-0	0.5	mg/kg	<0.5	1 mg/kg	104	76.2	148	
EP075: 4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg	<0.5	1 mg/kg	103	56.0	132	
EP075: 2,4,6-Trichlorophenol	88-06-2	0.5	mg/kg	<0.5	1 mg/kg	94.4	58.5	148	
EP075: 2,4,5-Trichlorophenol	95-95-4	0.5	mg/kg	<0.5	1 mg/kg	96.6	51.2	145	
EP075: Pentachlorophenol	87-86-5	1	mg/kg	<1	1 mg/kg	47.1	21.0	130	
EP075B: Polynuclear Aromatic Hydrocarbons (QCLot: 5627919)									
EP075: Naphthalene	91-20-3	0.5	mg/kg	<0.5	1 mg/kg	97.8	85.0	150	
EP075: 2-Methylnaphthalene	91-57-6	0.5	mg/kg	<0.5	1 mg/kg	99.7	80.2	154	
EP075: 2-Chloronaphthalene	91-58-7	0.5	mg/kg	<0.5	1 mg/kg	101	76.7	156	
EP075: Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	1 mg/kg	90.9	70.4	155	
EP075: Acenaphthene	83-32-9	0.5	mg/kg	<0.5	1 mg/kg	95.3	81.2	120	
EP075: Fluorene	86-73-7	0.5	mg/kg	<0.5	1 mg/kg	94.5	70.6	140	
EP075: Phenanthrene	85-01-8	0.5	mg/kg	<0.5	1 mg/kg	99.4	85.0	128	
EP075: Anthracene	120-12-7	0.5	mg/kg	<0.5	1 mg/kg	102	83.4	129	
EP075: Fluoranthene	206-44-0	0.5	mg/kg	<0.5	1 mg/kg	101	81.7	129	
EP075: Pyrene	129-00-0	0.5	mg/kg	<0.5	1 mg/kg	106	83.5	131	
EP075: N-2-Fluorenyl Acetamide	53-96-3	0.5	mg/kg	<0.5	1 mg/kg	92.8	61.0	129	
EP075: Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	1 mg/kg	99.6	69.7	140	
EP075: Chrysene	218-01-9	0.5	mg/kg	<0.5	1 mg/kg	102	75.5	142	



Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report				
				Result	Spike Concentration	Spike Recovery (%)		Acceptable Limits (%)	
						LCS	Low	High	
EP075B: Polynuclear Aromatic Hydrocarbons (QCLot: 5627919) - continued									
EP075: Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1	mg/kg	<1	2 mg/kg	96.1	39.2	169	
EP075: 7.12-Dimethylbenz(a)anthracene	57-97-6	0.5	mg/kg	<0.5	1 mg/kg	98.5	63.0	136	
EP075: Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	1 mg/kg	96.9	69.4	153	
EP075: 3-Methylcholanthrene	56-49-5	0.5	mg/kg	<0.5	1 mg/kg	99.0	62.9	145	
EP075: Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	1 mg/kg	93.5	49.6	131	
EP075: Dibenz(a,h)anthracene	53-70-3	0.5	mg/kg	<0.5	1 mg/kg	94.4	45.8	132	
EP075: Benzo(g,h,i)perylene	191-24-2	0.5	mg/kg	<0.5	1 mg/kg	94.3	56.5	130	
EP075B: Polynuclear Aromatic Hydrocarbons (QCLot: 5627927)									
EP075: Naphthalene	91-20-3	0.5	mg/kg	<0.5	1 mg/kg	103	85.0	150	
EP075: 2-Methylnaphthalene	91-57-6	0.5	mg/kg	<0.5	1 mg/kg	103	80.2	154	
EP075: 2-Chloronaphthalene	91-58-7	0.5	mg/kg	<0.5	1 mg/kg	82.7	76.7	156	
EP075: Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	1 mg/kg	106	70.4	155	
EP075: Acenaphthene	83-32-9	0.5	mg/kg	<0.5	1 mg/kg	99.5	81.2	120	
EP075: Fluorene	86-73-7	0.5	mg/kg	<0.5	1 mg/kg	98.6	70.6	140	
EP075: Phenanthrene	85-01-8	0.5	mg/kg	<0.5	1 mg/kg	101	85.0	128	
EP075: Anthracene	120-12-7	0.5	mg/kg	<0.5	1 mg/kg	103	83.4	129	
EP075: Fluoranthene	206-44-0	0.5	mg/kg	<0.5	1 mg/kg	99.1	81.7	129	
EP075: Pyrene	129-00-0	0.5	mg/kg	<0.5	1 mg/kg	99.7	83.5	131	
EP075: N-2-Fluorenyl Acetamide	53-96-3	0.5	mg/kg	<0.5	1 mg/kg	71.0	61.0	129	
EP075: Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	1 mg/kg	97.4	69.7	140	
EP075: Chrysene	218-01-9	0.5	mg/kg	<0.5	1 mg/kg	104	75.5	142	
EP075: Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1	mg/kg	<1	2 mg/kg	110	39.2	169	
EP075: 7.12-Dimethylbenz(a)anthracene	57-97-6	0.5	mg/kg	<0.5	1 mg/kg	113	63.0	136	
EP075: Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	1 mg/kg	105	69.4	153	
EP075: 3-Methylcholanthrene	56-49-5	0.5	mg/kg	<0.5	1 mg/kg	108	62.9	145	
EP075: Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	1 mg/kg	97.8	49.6	131	
EP075: Dibenz(a,h)anthracene	53-70-3	0.5	mg/kg	<0.5	1 mg/kg	96.5	45.8	132	
EP075: Benzo(g,h,i)perylene	191-24-2	0.5	mg/kg	<0.5	1 mg/kg	98.0	56.5	130	
EP075B: Polynuclear Aromatic Hydrocarbons (QCLot: 5627941)									
EP075: Naphthalene	91-20-3	0.5	mg/kg	<0.5	1 mg/kg	101	85.0	150	
EP075: 2-Methylnaphthalene	91-57-6	0.5	mg/kg	<0.5	1 mg/kg	104	80.2	154	
EP075: 2-Chloronaphthalene	91-58-7	0.5	mg/kg	<0.5	1 mg/kg	103	76.7	156	
EP075: Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	1 mg/kg	104	70.4	155	



Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
				Result	Spike	Spike Recovery (%)	Acceptable Limits (%)	
					Concentration	LCS	Low	High
EP075B: Polynuclear Aromatic Hydrocarbons (QCLot: 5627941) - continued								
EP075: Acenaphthene	83-32-9	0.5	mg/kg	<0.5	1 mg/kg	99.3	81.2	120
EP075: Fluorene	86-73-7	0.5	mg/kg	<0.5	1 mg/kg	101	70.6	140
EP075: Phenanthrene	85-01-8	0.5	mg/kg	<0.5	1 mg/kg	102	85.0	128
EP075: Anthracene	120-12-7	0.5	mg/kg	<0.5	1 mg/kg	108	83.4	129
EP075: Fluoranthene	206-44-0	0.5	mg/kg	<0.5	1 mg/kg	105	81.7	129
EP075: Pyrene	129-00-0	0.5	mg/kg	<0.5	1 mg/kg	112	83.5	131
EP075: N-2-Fluorenyl Acetamide	53-96-3	0.5	mg/kg	<0.5	1 mg/kg	97.4	61.0	129
EP075: Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	1 mg/kg	104	69.7	140
EP075: Chrysene	218-01-9	0.5	mg/kg	<0.5	1 mg/kg	110	75.5	142
EP075: Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1	mg/kg	<1	2 mg/kg	100	39.2	169
EP075: 7,12-Dimethylbenz(a)anthracene	57-97-6	0.5	mg/kg	<0.5	1 mg/kg	105	63.0	136
EP075: Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	1 mg/kg	101	69.4	153
EP075: 3-Methylcholanthrene	56-49-5	0.5	mg/kg	<0.5	1 mg/kg	105	62.9	145
EP075: Indeno(1,2,3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	1 mg/kg	100	49.6	131
EP075: Dibenz(a,h)anthracene	53-70-3	0.5	mg/kg	<0.5	1 mg/kg	98.4	45.8	132
EP075: Benzo(g,h,i)perylene	191-24-2	0.5	mg/kg	<0.5	1 mg/kg	102	56.5	130
EP075C: Phthalate Esters (QCLot: 5627919)								
EP075: Dimethyl phthalate	131-11-3	0.5	mg/kg	<0.5	1 mg/kg	89.2	71.0	160
EP075: Diethyl phthalate	84-66-2	0.5	mg/kg	<0.5	1 mg/kg	102	75.3	139
EP075: Di-n-butyl phthalate	84-74-2	0.5	mg/kg	<0.5	1 mg/kg	99.5	78.6	129
EP075: Butyl benzyl phthalate	85-68-7	0.5	mg/kg	<0.5	1 mg/kg	106	75.7	131
EP075: bis(2-ethylhexyl) phthalate	117-81-7	0.5	mg/kg	<0.5	1 mg/kg	99.4	69.4	139
EP075: Di-n-octylphthalate	117-84-0	0.5	mg/kg	<0.5	1 mg/kg	95.4	65.4	141
EP075C: Phthalate Esters (QCLot: 5627927)								
EP075: Dimethyl phthalate	131-11-3	0.5	mg/kg	<0.5	1 mg/kg	102	71.0	160
EP075: Diethyl phthalate	84-66-2	0.5	mg/kg	<0.5	1 mg/kg	100	75.3	139
EP075: Di-n-butyl phthalate	84-74-2	0.5	mg/kg	<0.5	1 mg/kg	101	78.6	129
EP075: Butyl benzyl phthalate	85-68-7	0.5	mg/kg	<0.5	1 mg/kg	104	75.7	131
EP075: bis(2-ethylhexyl) phthalate	117-81-7	0.5	mg/kg	<0.5	1 mg/kg	104	69.4	139
EP075: Di-n-octylphthalate	117-84-0	0.5	mg/kg	<0.5	1 mg/kg	103	65.4	141
EP075C: Phthalate Esters (QCLot: 5627941)								
EP075: Dimethyl phthalate	131-11-3	0.5	mg/kg	<0.5	1 mg/kg	99.9	71.0	160
EP075: Diethyl phthalate	84-66-2	0.5	mg/kg	<0.5	1 mg/kg	98.1	75.3	139



Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report				
				Result	Spike	Spike Recovery (%)		Acceptable Limits (%)	
					Concentration	LCS	Low	High	
EP075C: Phthalate Esters (QCLot: 5627941) - continued									
EP075: Di-n-butyl phthalate	84-74-2	0.5	mg/kg	<0.5	1 mg/kg	102	78.6	129	
EP075: Butyl benzyl phthalate	85-68-7	0.5	mg/kg	<0.5	1 mg/kg	112	75.7	131	
EP075: bis(2-ethylhexyl) phthalate	117-81-7	0.5	mg/kg	<0.5	1 mg/kg	103	69.4	139	
EP075: Di-n-octylphthalate	117-84-0	0.5	mg/kg	<0.5	1 mg/kg	109	65.4	141	
EP075D: Nitrosamines (QCLot: 5627919)									
EP075: N-Nitrosomethylethylamine	10595-95-6	0.5	mg/kg	<0.5	1 mg/kg	88.6	70.1	150	
EP075: N-Nitrosodiethylamine	55-18-5	0.5	mg/kg	<0.5	1 mg/kg	104	75.9	147	
EP075: N-Nitrosopyrrolidine	930-55-2	0.5	mg/kg	<0.5	1 mg/kg	111	65.8	160	
EP075: N-Nitrosomorpholine	59-89-2	0.5	mg/kg	<0.5	1 mg/kg	97.7	78.7	149	
EP075: N-Nitrosodi-n-propylamine	621-64-7	0.5	mg/kg	<0.5	1 mg/kg	99.3	53.0	144	
EP075: N-Nitrosopiperidine	100-75-4	0.5	mg/kg	<0.5	1 mg/kg	98.8	83.6	134	
EP075: N-Nitrosodibutylamine	924-16-3	0.5	mg/kg	<0.5	1 mg/kg	100	71.0	153	
EP075: N-Nitrosodiphenyl & Diphenylamine	86-30-6 122-39-4	0.5	mg/kg	<0.5	1 mg/kg	97.6	71.8	133	
EP075: Methapyrilene	91-80-5	0.5	mg/kg	<0.5	1 mg/kg	102	1.72	147	
EP075D: Nitrosamines (QCLot: 5627927)									
EP075: N-Nitrosomethylethylamine	10595-95-6	0.5	mg/kg	<0.5	1 mg/kg	96.9	70.1	150	
EP075: N-Nitrosodiethylamine	55-18-5	0.5	mg/kg	<0.5	1 mg/kg	100	75.9	147	
EP075: N-Nitrosopyrrolidine	930-55-2	0.5	mg/kg	<0.5	1 mg/kg	102	65.8	160	
EP075: N-Nitrosomorpholine	59-89-2	0.5	mg/kg	<0.5	1 mg/kg	106	78.7	149	
EP075: N-Nitrosodi-n-propylamine	621-64-7	0.5	mg/kg	<0.5	1 mg/kg	104	53.0	144	
EP075: N-Nitrosopiperidine	100-75-4	0.5	mg/kg	<0.5	1 mg/kg	104	83.6	134	
EP075: N-Nitrosodibutylamine	924-16-3	0.5	mg/kg	<0.5	1 mg/kg	105	71.0	153	
EP075: N-Nitrosodiphenyl & Diphenylamine	86-30-6 122-39-4	0.5	mg/kg	<0.5	1 mg/kg	99.2	71.8	133	
EP075: Methapyrilene	91-80-5	0.5	mg/kg	<0.5	1 mg/kg	54.0	1.72	147	
EP075D: Nitrosamines (QCLot: 5627941)									
EP075: N-Nitrosomethylethylamine	10595-95-6	0.5	mg/kg	<0.5	1 mg/kg	81.6	70.1	150	
EP075: N-Nitrosodiethylamine	55-18-5	0.5	mg/kg	<0.5	1 mg/kg	94.6	75.9	147	
EP075: N-Nitrosopyrrolidine	930-55-2	0.5	mg/kg	<0.5	1 mg/kg	80.8	65.8	160	
EP075: N-Nitrosomorpholine	59-89-2	0.5	mg/kg	<0.5	1 mg/kg	93.1	78.7	149	
EP075: N-Nitrosodi-n-propylamine	621-64-7	0.5	mg/kg	<0.5	1 mg/kg	87.2	53.0	144	
EP075: N-Nitrosopiperidine	100-75-4	0.5	mg/kg	<0.5	1 mg/kg	91.2	83.6	134	
EP075: N-Nitrosodibutylamine	924-16-3	0.5	mg/kg	<0.5	1 mg/kg	87.5	71.0	153	



Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
				Result	Spike Concentration	Spike Recovery (%)	Acceptable Limits (%)	
					LCS	Low	High	
EP075D: Nitrosamines (QCLot: 5627941) - continued								
EP075: N-Nitrosodiphenyl & Diphenylamine	86-30-6 122-39-4	0.5	mg/kg	<0.5	1 mg/kg	90.9	71.8	133
EP075: Methapyrilene	91-80-5	0.5	mg/kg	<0.5	1 mg/kg	87.7	1.72	147
EP075E: Nitroaromatics and Ketones (QCLot: 5627919)								
EP075: 2-Picoline	109-06-8	0.5	mg/kg	<0.5	1 mg/kg	86.6	74.8	139
EP075: Acetophenone	98-86-2	0.5	mg/kg	<0.5	1 mg/kg	91.5	85.2	132
EP075: Nitrobenzene	98-95-3	0.5	mg/kg	<0.5	1 mg/kg	87.8	83.0	140
EP075: Isophorone	78-59-1	0.5	mg/kg	<0.5	1 mg/kg	84.5	79.6	138
EP075: 2,6-Dinitrotoluene	606-20-2	0.5	mg/kg	<0.5	1 mg/kg	85.5	56.9	159
EP075: 2,4-Dinitrotoluene	121-14-2	0.5	mg/kg	<0.5	1 mg/kg	95.5	35.0	136
EP075: 1-Naphthylamine	134-32-7	0.5	mg/kg	<0.5	1 mg/kg	67.6	21.5	121
EP075: 4-Nitroquinoline-N-oxide	56-57-5	0.5	mg/kg	<0.5	1 mg/kg	43.2	36.0	140
EP075: 5-Nitro-o-toluidine	99-55-8	0.5	mg/kg	<0.5	1 mg/kg	104	35.6	139
EP075: Azobenzene	103-33-3	1	mg/kg	<1	1 mg/kg	82.4	74.4	134
EP075: 1,3,5-Trinitrobenzene	99-35-4	0.5	mg/kg	<0.5	1 mg/kg	60.8	8.41	157
EP075: Phenacetin	62-44-2	0.5	mg/kg	<0.5	1 mg/kg	80.0	38.4	129
EP075: 4-Aminobiphenyl	92-67-1	0.5	mg/kg	<0.5	1 mg/kg	106	58.0	109
EP075: Pentachloronitrobenzene	82-68-8	0.5	mg/kg	<0.5	1 mg/kg	95.8	71.2	148
EP075: Pronamide	23950-58-5	0.5	mg/kg	<0.5	1 mg/kg	90.5	77.4	130
EP075: Dimethylaminoazobenzene	60-11-7	0.5	mg/kg	<0.5	1 mg/kg	87.8	57.7	127
EP075: Chlorobenzilate	510-15-6	0.5	mg/kg	<0.5	1 mg/kg	87.7	74.3	141
EP075E: Nitroaromatics and Ketones (QCLot: 5627927)								
EP075: 2-Picoline	109-06-8	0.5	mg/kg	<0.5	1 mg/kg	92.9	74.8	139
EP075: Acetophenone	98-86-2	0.5	mg/kg	<0.5	1 mg/kg	99.0	85.2	132
EP075: Nitrobenzene	98-95-3	0.5	mg/kg	<0.5	1 mg/kg	99.7	83.0	140
EP075: Isophorone	78-59-1	0.5	mg/kg	<0.5	1 mg/kg	98.5	79.6	138
EP075: 2,6-Dinitrotoluene	606-20-2	0.5	mg/kg	<0.5	1 mg/kg	112	56.9	159
EP075: 2,4-Dinitrotoluene	121-14-2	0.5	mg/kg	<0.5	1 mg/kg	74.9	35.0	136
EP075: 1-Naphthylamine	134-32-7	0.5	mg/kg	<0.5	1 mg/kg	63.0	21.5	121
EP075: 4-Nitroquinoline-N-oxide	56-57-5	0.5	mg/kg	<0.5	1 mg/kg	55.0	36.0	140
EP075: 5-Nitro-o-toluidine	99-55-8	0.5	mg/kg	<0.5	1 mg/kg	95.5	35.6	139
EP075: Azobenzene	103-33-3	1	mg/kg	<1	1 mg/kg	96.4	74.4	134
EP075: 1,3,5-Trinitrobenzene	99-35-4	0.5	mg/kg	<0.5	1 mg/kg	64.9	8.41	157
EP075: Phenacetin	62-44-2	0.5	mg/kg	<0.5	1 mg/kg	96.4	38.4	129



Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report				
				Result	Spike Concentration	Spike Recovery (%)		Acceptable Limits (%)	
						LCS	Low	High	
EP075E: Nitroaromatics and Ketones (QCLot: 5627927) - continued									
EP075: 4-Aminobiphenyl	92-67-1	0.5	mg/kg	<0.5	1 mg/kg	99.7	58.0	109	
EP075: Pentachloronitrobenzene	82-68-8	0.5	mg/kg	<0.5	1 mg/kg	97.4	71.2	148	
EP075: Pronamide	23950-58-5	0.5	mg/kg	<0.5	1 mg/kg	98.0	77.4	130	
EP075: Dimethylaminoazobenzene	60-11-7	0.5	mg/kg	<0.5	1 mg/kg	105	57.7	127	
EP075: Chlorobenzilate	510-15-6	0.5	mg/kg	<0.5	1 mg/kg	106	74.3	141	
EP075E: Nitroaromatics and Ketones (QCLot: 5627941)									
EP075: 2-Picoline	109-06-8	0.5	mg/kg	<0.5	1 mg/kg	90.2	74.8	139	
EP075: Acetophenone	98-86-2	0.5	mg/kg	<0.5	1 mg/kg	94.6	85.2	132	
EP075: Nitrobenzene	98-95-3	0.5	mg/kg	<0.5	1 mg/kg	92.1	83.0	140	
EP075: Isophorone	78-59-1	0.5	mg/kg	<0.5	1 mg/kg	89.5	79.6	138	
EP075: 2,6-Dinitrotoluene	606-20-2	0.5	mg/kg	<0.5	1 mg/kg	106	56.9	159	
EP075: 2,4-Dinitrotoluene	121-14-2	0.5	mg/kg	<0.5	1 mg/kg	95.2	35.0	136	
EP075: 1-Naphthylamine	134-32-7	0.5	mg/kg	<0.5	1 mg/kg	57.5	21.5	121	
EP075: 4-Nitroquinoline-N-oxide	56-57-5	0.5	mg/kg	<0.5	1 mg/kg	59.2	36.0	140	
EP075: 5-Nitro-o-toluidine	99-55-8	0.5	mg/kg	<0.5	1 mg/kg	111	35.6	139	
EP075: Azobenzene	103-33-3	1	mg/kg	<1	1 mg/kg	85.9	74.4	134	
EP075: 1,3,5-Trinitrobenzene	99-35-4	0.5	mg/kg	<0.5	1 mg/kg	76.4	8.41	157	
EP075: Phenacetin	62-44-2	0.5	mg/kg	<0.5	1 mg/kg	82.0	38.4	129	
EP075: 4-Aminobiphenyl	92-67-1	0.5	mg/kg	<0.5	1 mg/kg	97.9	58.0	109	
EP075: Pentachloronitrobenzene	82-68-8	0.5	mg/kg	<0.5	1 mg/kg	91.8	71.2	148	
EP075: Pronamide	23950-58-5	0.5	mg/kg	<0.5	1 mg/kg	96.7	77.4	130	
EP075: Dimethylaminoazobenzene	60-11-7	0.5	mg/kg	<0.5	1 mg/kg	91.7	57.7	127	
EP075: Chlorobenzilate	510-15-6	0.5	mg/kg	<0.5	1 mg/kg	94.2	74.3	141	
EP075F: Haloethers (QCLot: 5627919)									
EP075: Bis(2-chloroethyl) ether	111-44-4	0.5	mg/kg	<0.5	1 mg/kg	86.2	74.3	136	
EP075: Bis(2-chloroethoxy) methane	111-91-1	0.5	mg/kg	<0.5	1 mg/kg	88.6	80.8	136	
EP075: 4-Chlorophenyl phenyl ether	7005-72-3	0.5	mg/kg	<0.5	1 mg/kg	89.9	67.4	146	
EP075: 4-Bromophenyl phenyl ether	101-55-3	0.5	mg/kg	<0.5	1 mg/kg	92.7	72.5	139	
EP075F: Haloethers (QCLot: 5627927)									
EP075: Bis(2-chloroethyl) ether	111-44-4	0.5	mg/kg	<0.5	1 mg/kg	92.0	74.3	136	
EP075: Bis(2-chloroethoxy) methane	111-91-1	0.5	mg/kg	<0.5	1 mg/kg	97.1	80.8	136	
EP075: 4-Chlorophenyl phenyl ether	7005-72-3	0.5	mg/kg	<0.5	1 mg/kg	99.4	67.4	146	
EP075: 4-Bromophenyl phenyl ether	101-55-3	0.5	mg/kg	<0.5	1 mg/kg	95.2	72.5	139	
EP075F: Haloethers (QCLot: 5627941)									



Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
				Result	Spike Concentration	Spike Recovery (%)	Acceptable Limits (%)	
						LCS	Low	High
EP075F: Haloethers (QCLot: 5627941) - continued								
EP075: Bis(2-chloroethyl) ether	111-44-4	0.5	mg/kg	<0.5	1 mg/kg	90.8	74.3	136
EP075: Bis(2-chloroethoxy) methane	111-91-1	0.5	mg/kg	<0.5	1 mg/kg	93.7	80.8	136
EP075: 4-Chlorophenyl phenyl ether	7005-72-3	0.5	mg/kg	<0.5	1 mg/kg	99.5	67.4	146
EP075: 4-Bromophenyl phenyl ether	101-55-3	0.5	mg/kg	<0.5	1 mg/kg	91.9	72.5	139
EP075G: Chlorinated Hydrocarbons (QCLot: 5627919)								
EP075: 1,3-Dichlorobenzene	541-73-1	0.5	mg/kg	<0.5	1 mg/kg	83.9	82.0	137
EP075: 1,4-Dichlorobenzene	106-46-7	0.5	mg/kg	<0.5	1 mg/kg	86.7	70.5	119
EP075: 1,2-Dichlorobenzene	95-50-1	0.5	mg/kg	<0.5	1 mg/kg	89.8	85.3	135
EP075: Hexachloroethane	67-72-1	0.5	mg/kg	<0.5	1 mg/kg	84.7	78.4	144
EP075: 1,2,4-Trichlorobenzene	120-82-1	0.5	mg/kg	<0.5	1 mg/kg	92.2	79.5	120
EP075: Hexachloropropylene	1888-71-7	0.5	mg/kg	<0.5	1 mg/kg	88.2	40.4	183
EP075: Hexachlorobutadiene	87-68-3	0.5	mg/kg	<0.5	1 mg/kg	90.7	81.7	154
EP075: Hexachlorocyclopentadiene	77-47-4	2.5	mg/kg	<2.5	1 mg/kg	# 7.7	26.0	126
EP075: Pentachlorobenzene	608-93-5	0.5	mg/kg	<0.5	1 mg/kg	88.3	77.3	130
EP075: Hexachlorobenzene (HCB)	118-74-1	0.5	mg/kg	<0.5	1 mg/kg	87.8	60.4	138
EP075G: Chlorinated Hydrocarbons (QCLot: 5627927)								
EP075: 1,3-Dichlorobenzene	541-73-1	0.5	mg/kg	<0.5	1 mg/kg	98.6	82.0	137
EP075: 1,4-Dichlorobenzene	106-46-7	0.5	mg/kg	<0.5	1 mg/kg	96.6	70.5	119
EP075: 1,2-Dichlorobenzene	95-50-1	0.5	mg/kg	<0.5	1 mg/kg	100	85.3	135
EP075: Hexachloroethane	67-72-1	0.5	mg/kg	<0.5	1 mg/kg	99.1	78.4	144
EP075: 1,2,4-Trichlorobenzene	120-82-1	0.5	mg/kg	<0.5	1 mg/kg	98.2	79.5	120
EP075: Hexachloropropylene	1888-71-7	0.5	mg/kg	<0.5	1 mg/kg	103	40.4	183
EP075: Hexachlorobutadiene	87-68-3	0.5	mg/kg	<0.5	1 mg/kg	105	81.7	154
EP075: Hexachlorocyclopentadiene	77-47-4	2.5	mg/kg	<2.5	1 mg/kg	62.3	26.0	126
EP075: Pentachlorobenzene	608-93-5	0.5	mg/kg	<0.5	1 mg/kg	102	77.3	130
EP075: Hexachlorobenzene (HCB)	118-74-1	0.5	mg/kg	<0.5	1 mg/kg	96.8	60.4	138
EP075G: Chlorinated Hydrocarbons (QCLot: 5627941)								
EP075: 1,3-Dichlorobenzene	541-73-1	0.5	mg/kg	<0.5	1 mg/kg	85.0	82.0	137
EP075: 1,4-Dichlorobenzene	106-46-7	0.5	mg/kg	<0.5	1 mg/kg	88.2	70.5	119
EP075: 1,2-Dichlorobenzene	95-50-1	0.5	mg/kg	<0.5	1 mg/kg	89.8	85.3	135
EP075: Hexachloroethane	67-72-1	0.5	mg/kg	<0.5	1 mg/kg	85.1	78.4	144
EP075: 1,2,4-Trichlorobenzene	120-82-1	0.5	mg/kg	<0.5	1 mg/kg	97.8	79.5	120
EP075: Hexachloropropylene	1888-71-7	0.5	mg/kg	<0.5	1 mg/kg	94.2	40.4	183
EP075: Hexachlorobutadiene	87-68-3	0.5	mg/kg	<0.5	1 mg/kg	91.7	81.7	154



Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report				
				Result	Spike Concentration	Spike Recovery (%)		Acceptable Limits (%)	
						LCS	Low	High	
EP075G: Chlorinated Hydrocarbons (QCLot: 5627941) - continued									
EP075: Hexachlorocyclopentadiene	77-47-4	2.5	mg/kg	<2.5	1 mg/kg	# 5.1	26.0	126	
EP075: Pentachlorobenzene	608-93-5	0.5	mg/kg	<0.5	1 mg/kg	96.1	77.3	130	
EP075: Hexachlorobenzene (HCB)	118-74-1	0.5	mg/kg	<0.5	1 mg/kg	86.0	60.4	138	
EP075H: Anilines and Benzidines (QCLot: 5627919)									
EP075: Aniline	62-53-3	0.5	mg/kg	<0.5	1 mg/kg	82.0	62.6	134	
EP075: 4-Chloroaniline	106-47-8	0.5	mg/kg	<0.5	1 mg/kg	84.4	52.9	142	
EP075: 2-Nitroaniline	88-74-4	0.5	mg/kg	<0.5	1 mg/kg	90.9	29.3	147	
EP075: 3-Nitroaniline	99-09-2	0.5	mg/kg	<0.5	1 mg/kg	107	24.0	132	
EP075: Dibenzofuran	132-64-9	0.5	mg/kg	<0.5	1 mg/kg	94.0	78.6	125	
EP075: 4-Nitroaniline	100-01-6	0.5	mg/kg	<0.5	1 mg/kg	104	38.0	169	
EP075: Carbazole	86-74-8	0.5	mg/kg	<0.5	1 mg/kg	102	71.2	133	
EP075: 3,3'-Dichlorobenzidine	91-94-1	0.5	mg/kg	<0.5	1 mg/kg	111	28.4	165	
EP075H: Anilines and Benzidines (QCLot: 5627927)									
EP075: Aniline	62-53-3	0.5	mg/kg	<0.5	1 mg/kg	88.4	62.6	134	
EP075: 4-Chloroaniline	106-47-8	0.5	mg/kg	<0.5	1 mg/kg	79.4	52.9	142	
EP075: 2-Nitroaniline	88-74-4	0.5	mg/kg	<0.5	1 mg/kg	111	29.3	147	
EP075: 3-Nitroaniline	99-09-2	0.5	mg/kg	<0.5	1 mg/kg	76.3	24.0	132	
EP075: Dibenzofuran	132-64-9	0.5	mg/kg	<0.5	1 mg/kg	98.3	78.6	125	
EP075: 4-Nitroaniline	100-01-6	0.5	mg/kg	<0.5	1 mg/kg	94.0	38.0	169	
EP075: Carbazole	86-74-8	0.5	mg/kg	<0.5	1 mg/kg	108	71.2	133	
EP075: 3,3'-Dichlorobenzidine	91-94-1	0.5	mg/kg	<0.5	1 mg/kg	105	28.4	165	
EP075H: Anilines and Benzidines (QCLot: 5627941)									
EP075: Aniline	62-53-3	0.5	mg/kg	<0.5	1 mg/kg	78.9	62.6	134	
EP075: 4-Chloroaniline	106-47-8	0.5	mg/kg	<0.5	1 mg/kg	80.4	52.9	142	
EP075: 2-Nitroaniline	88-74-4	0.5	mg/kg	<0.5	1 mg/kg	117	29.3	147	
EP075: 3-Nitroaniline	99-09-2	0.5	mg/kg	<0.5	1 mg/kg	109	24.0	132	
EP075: Dibenzofuran	132-64-9	0.5	mg/kg	<0.5	1 mg/kg	104	78.6	125	
EP075: 4-Nitroaniline	100-01-6	0.5	mg/kg	<0.5	1 mg/kg	107	38.0	169	
EP075: Carbazole	86-74-8	0.5	mg/kg	<0.5	1 mg/kg	110	71.2	133	
EP075: 3,3'-Dichlorobenzidine	91-94-1	0.5	mg/kg	<0.5	1 mg/kg	110	28.4	165	
EP075I: Organochlorine Pesticides (QCLot: 5627919)									
EP075: alpha-BHC	319-84-6	0.5	mg/kg	<0.5	1 mg/kg	98.0	69.7	153	
EP075: beta-BHC	319-85-7	0.5	mg/kg	<0.5	1 mg/kg	90.9	65.7	157	
EP075: gamma-BHC	58-89-9	0.5	mg/kg	<0.5	1 mg/kg	106	71.1	152	



Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report				
				Result	Spike	Spike Recovery (%)		Acceptable Limits (%)	
					Concentration	LCS	Low	High	
EP075I: Organochlorine Pesticides (QCLot: 5627919) - continued									
EP075: delta-BHC	319-86-8	0.5	mg/kg	<0.5	1 mg/kg	101	70.3	146	
EP075: Heptachlor	76-44-8	0.5	mg/kg	<0.5	1 mg/kg	86.7	77.6	135	
EP075: Aldrin	309-00-2	0.5	mg/kg	<0.5	1 mg/kg	102	70.3	142	
EP075: Heptachlor epoxide	1024-57-3	0.5	mg/kg	<0.5	1 mg/kg	95.9	66.1	154	
EP075: alpha-Endosulfan	959-98-8	0.5	mg/kg	<0.5	1 mg/kg	102	71.4	157	
EP075: 4,4'-DDE	72-55-9	0.5	mg/kg	<0.5	1 mg/kg	100	76.8	141	
EP075: Dieldrin	60-57-1	0.5	mg/kg	<0.5	1 mg/kg	90.8	50.6	147	
EP075: Endrin	72-20-8	0.5	mg/kg	<0.5	1 mg/kg	81.5	54.3	157	
EP075: beta-Endosulfan	33213-65-9	0.5	mg/kg	<0.5	1 mg/kg	107	72.9	150	
EP075: 4,4'-DDD	72-54-8	0.5	mg/kg	<0.5	1 mg/kg	101	72.6	154	
EP075: Endosulfan sulfate	1031-07-8	0.5	mg/kg	<0.5	1 mg/kg	85.4	60.1	155	
EP075: 4,4'-DDT	50-29-3	0.5	mg/kg	<0.5	1 mg/kg	82.4	36.4	155	
EP075I: Organochlorine Pesticides (QCLot: 5627927)									
EP075: alpha-BHC	319-84-6	0.5	mg/kg	<0.5	1 mg/kg	101	69.7	153	
EP075: beta-BHC	319-85-7	0.5	mg/kg	<0.5	1 mg/kg	95.2	65.7	157	
EP075: gamma-BHC	58-89-9	0.5	mg/kg	<0.5	1 mg/kg	97.7	71.1	152	
EP075: delta-BHC	319-86-8	0.5	mg/kg	<0.5	1 mg/kg	108	70.3	146	
EP075: Heptachlor	76-44-8	0.5	mg/kg	<0.5	1 mg/kg	101	77.6	135	
EP075: Aldrin	309-00-2	0.5	mg/kg	<0.5	1 mg/kg	104	70.3	142	
EP075: Heptachlor epoxide	1024-57-3	0.5	mg/kg	<0.5	1 mg/kg	95.6	66.1	154	
EP075: alpha-Endosulfan	959-98-8	0.5	mg/kg	<0.5	1 mg/kg	127	71.4	157	
EP075: 4,4'-DDE	72-55-9	0.5	mg/kg	<0.5	1 mg/kg	96.3	76.8	141	
EP075: Dieldrin	60-57-1	0.5	mg/kg	<0.5	1 mg/kg	109	50.6	147	
EP075: Endrin	72-20-8	0.5	mg/kg	<0.5	1 mg/kg	105	54.3	157	
EP075: beta-Endosulfan	33213-65-9	0.5	mg/kg	<0.5	1 mg/kg	118	72.9	150	
EP075: 4,4'-DDD	72-54-8	0.5	mg/kg	<0.5	1 mg/kg	104	72.6	154	
EP075: Endosulfan sulfate	1031-07-8	0.5	mg/kg	<0.5	1 mg/kg	119	60.1	155	
EP075: 4,4'-DDT	50-29-3	0.5	mg/kg	<0.5	1 mg/kg	102	36.4	155	
EP075I: Organochlorine Pesticides (QCLot: 5627941)									
EP075: alpha-BHC	319-84-6	0.5	mg/kg	<0.5	1 mg/kg	93.2	69.7	153	
EP075: beta-BHC	319-85-7	0.5	mg/kg	<0.5	1 mg/kg	88.8	65.7	157	
EP075: gamma-BHC	58-89-9	0.5	mg/kg	<0.5	1 mg/kg	100	71.1	152	
EP075: delta-BHC	319-86-8	0.5	mg/kg	<0.5	1 mg/kg	109	70.3	146	
EP075: Heptachlor	76-44-8	0.5	mg/kg	<0.5	1 mg/kg	93.4	77.6	135	



Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report				
				Result	Spike	Spike Recovery (%)		Acceptable Limits (%)	
					Concentration	LCS	Low	High	
EP075I: Organochlorine Pesticides (QCLot: 5627941) - continued									
EP075: Aldrin	309-00-2	0.5	mg/kg	<0.5	1 mg/kg	104	70.3	142	
EP075: Heptachlor epoxide	1024-57-3	0.5	mg/kg	<0.5	1 mg/kg	97.2	66.1	154	
EP075: alpha-Endosulfan	959-98-8	0.5	mg/kg	<0.5	1 mg/kg	108	71.4	157	
EP075: 4,4'-DDE	72-55-9	0.5	mg/kg	<0.5	1 mg/kg	102	76.8	141	
EP075: Dieldrin	60-57-1	0.5	mg/kg	<0.5	1 mg/kg	93.4	50.6	147	
EP075: Endrin	72-20-8	0.5	mg/kg	<0.5	1 mg/kg	93.4	54.3	157	
EP075: beta-Endosulfan	33213-65-9	0.5	mg/kg	<0.5	1 mg/kg	105	72.9	150	
EP075: 4,4'-DDD	72-54-8	0.5	mg/kg	<0.5	1 mg/kg	102	72.6	154	
EP075: Endosulfan sulfate	1031-07-8	0.5	mg/kg	<0.5	1 mg/kg	90.0	60.1	155	
EP075: 4,4'-DDT	50-29-3	0.5	mg/kg	<0.5	1 mg/kg	103	36.4	155	
EP075J: Organophosphorus Pesticides (QCLot: 5627919)									
EP075: Dichlorvos	62-73-7	0.5	mg/kg	<0.5	1 mg/kg	84.1	49.2	136	
EP075: Dimethoate	60-51-5	0.5	mg/kg	<0.5	1 mg/kg	72.6	46.6	126	
EP075: Diazinon	333-41-5	0.5	mg/kg	<0.5	1 mg/kg	102	57.4	134	
EP075: Chlorpyrifos-methyl	5598-13-0	0.5	mg/kg	<0.5	1 mg/kg	81.6	60.4	134	
EP075: Malathion	121-75-5	0.5	mg/kg	<0.5	1 mg/kg	91.8	49.4	141	
EP075: Fenthion	55-38-9	0.5	mg/kg	<0.5	1 mg/kg	81.7	56.3	135	
EP075: Chlorpyrifos	2921-88-2	0.5	mg/kg	<0.5	1 mg/kg	97.5	65.1	134	
EP075: Pirimphos-ethyl	23505-41-1	0.5	mg/kg	<0.5	1 mg/kg	101	63.7	133	
EP075: Chlorfenvinphos	470-90-6	0.5	mg/kg	<0.5	1 mg/kg	74.6	16.1	160	
EP075: Prothiofos	34643-46-4	0.5	mg/kg	<0.5	1 mg/kg	110	63.9	132	
EP075: Ethion	563-12-2	0.5	mg/kg	<0.5	1 mg/kg	86.5	51.8	140	
EP075J: Organophosphorus Pesticides (QCLot: 5627927)									
EP075: Dichlorvos	62-73-7	0.5	mg/kg	<0.5	1 mg/kg	96.4	49.2	136	
EP075: Dimethoate	60-51-5	0.5	mg/kg	<0.5	1 mg/kg	92.8	46.6	126	
EP075: Diazinon	333-41-5	0.5	mg/kg	<0.5	1 mg/kg	103	57.4	134	
EP075: Chlorpyrifos-methyl	5598-13-0	0.5	mg/kg	<0.5	1 mg/kg	98.8	60.4	134	
EP075: Malathion	121-75-5	0.5	mg/kg	<0.5	1 mg/kg	100	49.4	141	
EP075: Fenthion	55-38-9	0.5	mg/kg	<0.5	1 mg/kg	99.3	56.3	135	
EP075: Chlorpyrifos	2921-88-2	0.5	mg/kg	<0.5	1 mg/kg	100	65.1	134	
EP075: Pirimphos-ethyl	23505-41-1	0.5	mg/kg	<0.5	1 mg/kg	97.7	63.7	133	
EP075: Chlorfenvinphos	470-90-6	0.5	mg/kg	<0.5	1 mg/kg	99.9	16.1	160	
EP075: Prothiofos	34643-46-4	0.5	mg/kg	<0.5	1 mg/kg	103	63.9	132	
EP075: Ethion	563-12-2	0.5	mg/kg	<0.5	1 mg/kg	104	51.8	140	



Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report Result	Laboratory Control Spike (LCS) Report			
					Spike Concentration	Spike Recovery (%)	Acceptable Limits (%)	
						LCS	Low	High
EP075J: Organophosphorus Pesticides (QCLot: 5627941)								
EP075: Dichlorvos	62-73-7	0.5	mg/kg	<0.5	1 mg/kg	92.1	49.2	136
EP075: Dimethoate	60-51-5	0.5	mg/kg	<0.5	1 mg/kg	75.4	46.6	126
EP075: Diazinon	333-41-5	0.5	mg/kg	<0.5	1 mg/kg	111	57.4	134
EP075: Chlorpyrifos-methyl	5598-13-0	0.5	mg/kg	<0.5	1 mg/kg	84.8	60.4	134
EP075: Malathion	121-75-5	0.5	mg/kg	<0.5	1 mg/kg	98.3	49.4	141
EP075: Fenthion	55-38-9	0.5	mg/kg	<0.5	1 mg/kg	83.8	56.3	135
EP075: Chlorpyrifos	2921-88-2	0.5	mg/kg	<0.5	1 mg/kg	98.9	65.1	134
EP075: Pirimphos-ethyl	23505-41-1	0.5	mg/kg	<0.5	1 mg/kg	106	63.7	133
EP075: Chlorfenvinphos	470-90-6	0.5	mg/kg	<0.5	1 mg/kg	84.6	16.1	160
EP075: Prothiofos	34643-46-4	0.5	mg/kg	<0.5	1 mg/kg	110	63.9	132
EP075: Ethion	563-12-2	0.5	mg/kg	<0.5	1 mg/kg	95.2	51.8	140
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5627912)								
EP080: C6 - C9 Fraction	----	10	mg/kg	<10	18 mg/kg	120	64.0	120
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5627913)								
EP071: C10 - C14 Fraction	----	50	mg/kg	<50	378 mg/kg	93.2	63.3	125
EP071: C15 - C28 Fraction	----	100	mg/kg	<100	407 mg/kg	92.9	56.1	122
EP071: C29 - C36 Fraction	----	100	mg/kg	<100	----	----	----	----
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5627923)								
EP071: C10 - C14 Fraction	----	50	mg/kg	<50	378 mg/kg	111	63.3	125
EP071: C15 - C28 Fraction	----	100	mg/kg	<100	407 mg/kg	116	56.1	122
EP071: C29 - C36 Fraction	----	100	mg/kg	<100	----	----	----	----
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5627928)								
EP080: C6 - C9 Fraction	----	10	mg/kg	<10	18 mg/kg	99.8	64.0	120
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5627936)								
EP080: C6 - C9 Fraction	----	10	mg/kg	<10	18 mg/kg	90.0	64.0	120
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5627937)								
EP071: C10 - C14 Fraction	----	50	mg/kg	<50	378 mg/kg	87.9	63.3	125
EP071: C15 - C28 Fraction	----	100	mg/kg	<100	407 mg/kg	86.5	56.1	122
EP071: C29 - C36 Fraction	----	100	mg/kg	<100	----	----	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5627912)								
EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	22.5 mg/kg	124	58.1	124
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5627913)								
EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	502 mg/kg	92.0	61.2	132
EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	268 mg/kg	97.5	52.6	130



Sub-Matrix: SOIL

Method: Compound				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike Concentration	Spike Recovery (%)		Acceptable Limits (%)
CAS Number	LOR	Unit	Result	LCS		Low	High	
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5627913) - continued								
EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	----	----	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5627923)								
EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	502 mg/kg	112	61.2	132
EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	268 mg/kg	117	52.6	130
EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	----	----	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5627928)								
EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	22.5 mg/kg	102	58.1	124
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5627936)								
EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	22.5 mg/kg	93.7	58.1	124
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5627937)								
EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	502 mg/kg	87.2	61.2	132
EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	268 mg/kg	86.2	52.6	130
EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	----	----	----	----
EP080: BTEXN (QCLot: 5627912)								
EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	1 mg/kg	99.1	68.0	107
EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	1 mg/kg	# 109	69.0	108
EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	1 mg/kg	# 114	68.0	109
EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	2 mg/kg	# 118	70.0	114
EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	1 mg/kg	116	74.0	116
EP080: Naphthalene	91-20-3	1	mg/kg	<1	1 mg/kg	# 110	74.0	109
EP080: BTEXN (QCLot: 5627928)								
EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	1 mg/kg	90.7	68.0	107
EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	1 mg/kg	89.5	69.0	108
EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	1 mg/kg	90.8	68.0	109
EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	2 mg/kg	95.5	70.0	114
EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	1 mg/kg	96.4	74.0	116
EP080: Naphthalene	91-20-3	1	mg/kg	<1	1 mg/kg	93.3	74.0	109
EP080: BTEXN (QCLot: 5627936)								
EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	1 mg/kg	88.5	68.0	107
EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	1 mg/kg	86.8	69.0	108
EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	1 mg/kg	88.6	68.0	109
EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	2 mg/kg	89.6	70.0	114



Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report Result	Laboratory Control Spike (LCS) Report			
					Spike Concentration	Spike Recovery (%)	Acceptable Limits (%)	
						LCS	Low	High
EP080: BTEXN (QCLot: 5627936) - continued								
EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	1 mg/kg	90.4	74.0	116
EP080: Naphthalene	91-20-3	1	mg/kg	<1	1 mg/kg	83.6	74.0	109
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 5627981)								
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	0.0011 mg/kg	107	72.0	128
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<0.0002	0.00118 mg/kg	101	67.0	130
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<0.0002	0.00116 mg/kg	112	68.0	136
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 5627990)								
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	0.0011 mg/kg	114	72.0	128
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<0.0002	0.00118 mg/kg	94.5	67.0	130
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<0.0002	0.00116 mg/kg	102	68.0	136
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 5627981)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	0.00625 mg/kg	103	71.0	135
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	0.00125 mg/kg	112	69.0	132
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<0.0002	0.00125 mg/kg	110	70.0	132
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	116	71.0	131
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	106	69.0	133
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 5627990)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	0.00625 mg/kg	99.9	71.0	135
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	0.00125 mg/kg	110	69.0	132
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<0.0002	0.00125 mg/kg	107	70.0	132
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	111	71.0	131
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	102	69.0	133
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5627981)								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	0.00117 mg/kg	125	62.0	145
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	0.00118 mg/kg	104	64.0	140
EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0005	0.0012 mg/kg	113	65.0	137
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	0.0012 mg/kg	124	54.8	124
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5627990)								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	0.00117 mg/kg	119	62.0	145
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	0.00118 mg/kg	115	64.0	140
EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0005	0.0012 mg/kg	124	65.0	137
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	0.0012 mg/kg	118	54.8	124



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	SpikeRecovery(%)	Acceptable Limits (%)	
				Concentration	MS	Low	High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 5627901)							
EB2406372-074	Anonymous	EG005T: Arsenic	7440-38-2	50 mg/kg	93.7	70.0	130
		EG005T: Cadmium	7440-43-9	50 mg/kg	98.4	70.0	130
		EG005T: Chromium	7440-47-3	50 mg/kg	98.6	70.0	130
		EG005T: Copper	7440-50-8	250 mg/kg	96.8	70.0	130
		EG005T: Lead	7439-92-1	250 mg/kg	92.7	70.0	130
		EG005T: Nickel	7440-02-0	50 mg/kg	99.0	70.0	130
		EG005T: Zinc	7440-66-6	250 mg/kg	95.2	70.0	130
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 5627909)							
EB2406372-100	Anonymous	EG005T: Arsenic	7440-38-2	50 mg/kg	90.4	70.0	130
		EG005T: Cadmium	7440-43-9	50 mg/kg	103	70.0	130
		EG005T: Chromium	7440-47-3	50 mg/kg	104	70.0	130
		EG005T: Copper	7440-50-8	250 mg/kg	100	70.0	130
		EG005T: Lead	7439-92-1	250 mg/kg	93.8	70.0	130
		EG005T: Nickel	7440-02-0	50 mg/kg	101	70.0	130
		EG005T: Zinc	7440-66-6	250 mg/kg	104	70.0	130
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 5627910)							
EB2406402-027	TP50-0.5	EG005T: Arsenic	7440-38-2	50 mg/kg	75.6	70.0	130
		EG005T: Cadmium	7440-43-9	50 mg/kg	99.0	70.0	130
		EG005T: Chromium	7440-47-3	50 mg/kg	102	70.0	130
		EG005T: Copper	7440-50-8	250 mg/kg	95.2	70.0	130
		EG005T: Lead	7439-92-1	250 mg/kg	90.6	70.0	130
		EG005T: Nickel	7440-02-0	50 mg/kg	96.9	70.0	130
		EG005T: Zinc	7440-66-6	250 mg/kg	98.0	70.0	130
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 5627929)							
EB2406402-021	TP48-0.5	EG005T: Arsenic	7440-38-2	50 mg/kg	87.4	70.0	130
		EG005T: Cadmium	7440-43-9	50 mg/kg	93.9	70.0	130
		EG005T: Chromium	7440-47-3	50 mg/kg	91.8	70.0	130
		EG005T: Copper	7440-50-8	250 mg/kg	93.8	70.0	130
		EG005T: Lead	7439-92-1	250 mg/kg	86.3	70.0	130
		EG005T: Nickel	7440-02-0	50 mg/kg	94.3	70.0	130
		EG005T: Zinc	7440-66-6	250 mg/kg	72.8	70.0	130
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 5627935)							
EB2406402-074	D4	EG005T: Arsenic	7440-38-2	50 mg/kg	80.2	70.0	130
		EG005T: Cadmium	7440-43-9	50 mg/kg	99.6	70.0	130
		EG005T: Chromium	7440-47-3	50 mg/kg	91.9	70.0	130
		EG005T: Copper	7440-50-8	250 mg/kg	100	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
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 5627935) - continued							
EB2406402-074	D4	EG005T: Lead	7439-92-1	250 mg/kg	89.7	70.0	130
		EG005T: Nickel	7440-02-0	50 mg/kg	101	70.0	130
		EG005T: Zinc	7440-66-6	250 mg/kg	98.3	70.0	130
EG035T: Total Recoverable Mercury by FIMS (QCLot: 5627902)							
EB2406372-074	Anonymous	EG035T: Mercury	7439-97-6	0.5 mg/kg	89.7	70.0	130
EG035T: Total Recoverable Mercury by FIMS (QCLot: 5627908)							
EB2406372-100	Anonymous	EG035T: Mercury	7439-97-6	0.5 mg/kg	79.2	70.0	130
EG035T: Total Recoverable Mercury by FIMS (QCLot: 5627911)							
EB2406402-027	TP50-0.5	EG035T: Mercury	7439-97-6	0.5 mg/kg	87.2	70.0	130
EG035T: Total Recoverable Mercury by FIMS (QCLot: 5627930)							
EB2406402-021	TP48-0.5	EG035T: Mercury	7439-97-6	0.5 mg/kg	84.4	70.0	130
EG035T: Total Recoverable Mercury by FIMS (QCLot: 5627934)							
EB2406402-074	D4	EG035T: Mercury	7439-97-6	0.5 mg/kg	87.5	70.0	130
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 5627918)							
EB2406402-005	TP43-0.3	EP066: Total Polychlorinated biphenyls	----	1 mg/kg	123	70.0	130
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 5627926)							
EB2406402-021	TP48-0.5	EP066: Total Polychlorinated biphenyls	----	1 mg/kg	84.5	70.0	130
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 5627940)							
EB2406402-077	D7	EP066: Total Polychlorinated biphenyls	----	1 mg/kg	103	70.0	130
EP068A: Organochlorine Pesticides (OC) (QCLot: 5627917)							
EB2406402-005	TP43-0.3	EP068: gamma-BHC	58-89-9	0.5 mg/kg	102	70.0	136
		EP068: Heptachlor	76-44-8	0.5 mg/kg	100	65.0	130
		EP068: Aldrin	309-00-2	0.5 mg/kg	106	70.0	130
		EP068: Dieldrin	60-57-1	0.5 mg/kg	95.6	67.0	129
		EP068: Endrin	72-20-8	0.5 mg/kg	82.6	60.0	137
		EP068: 4.4'-DDT	50-29-3	0.5 mg/kg	92.6	70.0	130
EP068A: Organochlorine Pesticides (OC) (QCLot: 5627925)							
EB2406402-021	TP48-0.5	EP068: gamma-BHC	58-89-9	0.5 mg/kg	111	70.0	136
		EP068: Heptachlor	76-44-8	0.5 mg/kg	103	65.0	130
		EP068: Aldrin	309-00-2	0.5 mg/kg	108	70.0	130
		EP068: Dieldrin	60-57-1	0.5 mg/kg	105	67.0	129
		EP068: Endrin	72-20-8	0.5 mg/kg	105	60.0	137
		EP068: 4.4'-DDT	50-29-3	0.5 mg/kg	90.8	70.0	130
EP068A: Organochlorine Pesticides (OC) (QCLot: 5627939)							
EB2406402-077	D7	EP068: gamma-BHC	58-89-9	0.5 mg/kg	93.9	70.0	136



Sub-Matrix: SOIL				Matrix Spike (MS) Report			
				Spike Concentration	Spike Recovery(%) MS	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP068A: Organochlorine Pesticides (OC) (QCLot: 5627939) - continued							
EB2406402-077	D7	EP068: Heptachlor	76-44-8	0.5 mg/kg	93.2	65.0	130
		EP068: Aldrin	309-00-2	0.5 mg/kg	98.8	70.0	130
		EP068: Dieldrin	60-57-1	0.5 mg/kg	90.2	67.0	129
		EP068: Endrin	72-20-8	0.5 mg/kg	89.3	60.0	137
		EP068: 4.4'-DDT	50-29-3	0.5 mg/kg	90.8	70.0	130
EP068B: Organophosphorus Pesticides (OP) (QCLot: 5627917)							
EB2406402-005	TP43-0.3	EP068: Diazinon	333-41-5	0.5 mg/kg	107	70.0	131
		EP068: Chlorpyrifos-methyl	5598-13-0	0.5 mg/kg	108	70.0	130
		EP068: Pirimphos-ethyl	23505-41-1	0.5 mg/kg	81.7	70.0	130
		EP068: Bromophos-ethyl	4824-78-6	0.5 mg/kg	97.0	70.0	130
		EP068: Prothiofos	34643-46-4	0.5 mg/kg	98.7	70.0	134
EP068B: Organophosphorus Pesticides (OP) (QCLot: 5627925)							
EB2406402-021	TP48-0.5	EP068: Diazinon	333-41-5	0.5 mg/kg	94.8	70.0	131
		EP068: Chlorpyrifos-methyl	5598-13-0	0.5 mg/kg	103	70.0	130
		EP068: Pirimphos-ethyl	23505-41-1	0.5 mg/kg	83.8	70.0	130
		EP068: Bromophos-ethyl	4824-78-6	0.5 mg/kg	113	70.0	130
		EP068: Prothiofos	34643-46-4	0.5 mg/kg	98.2	70.0	134
EP068B: Organophosphorus Pesticides (OP) (QCLot: 5627939)							
EB2406402-077	D7	EP068: Diazinon	333-41-5	0.5 mg/kg	102	70.0	131
		EP068: Chlorpyrifos-methyl	5598-13-0	0.5 mg/kg	103	70.0	130
		EP068: Pirimphos-ethyl	23505-41-1	0.5 mg/kg	78.9	70.0	130
		EP068: Bromophos-ethyl	4824-78-6	0.5 mg/kg	91.2	70.0	130
		EP068: Prothiofos	34643-46-4	0.5 mg/kg	108	70.0	134
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 5627914)							
EB2406402-005	TP43-0.3	EP075(SIM): Acenaphthene	83-32-9	1.5 mg/kg	78.5	66.0	132
		EP075(SIM): Pyrene	129-00-0	1.5 mg/kg	78.3	70.0	130
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 5627924)							
EB2406402-021	TP48-0.5	EP075(SIM): Acenaphthene	83-32-9	1.5 mg/kg	85.5	66.0	132
		EP075(SIM): Pyrene	129-00-0	1.5 mg/kg	89.3	70.0	130
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 5627938)							
EB2406402-077	D7	EP075(SIM): Acenaphthene	83-32-9	1.5 mg/kg	72.8	66.0	132
		EP075(SIM): Pyrene	129-00-0	1.5 mg/kg	79.7	70.0	130
EP075A: Phenolic Compounds (QCLot: 5627919)							
EB2406402-004	TP43-0.1	EP075: Phenol	108-95-2	1 mg/kg	90.5	50.0	159
		EP075: 2-Chlorophenol	95-57-8	1 mg/kg	98.4	70.0	130
		EP075: 2-Nitrophenol	88-75-5	1 mg/kg	106	59.8	154
		EP075: 4-Chloro-3-methylphenol	59-50-7	1 mg/kg	83.0	56.0	132



Sub-Matrix: SOIL

				Matrix Spike (MS) Report			
Laboratory sample ID		Sample ID	Method: Compound	CAS Number	Spike Concentration	Spike Recovery(%) MS	Acceptable Limits (%) Low High
EP075A: Phenolic Compounds (QCLot: 5627919) - continued							
EB2406402-004	TP43-0.1	EP075: Pentachlorophenol	87-86-5	1 mg/kg	52.6	21.0	130
EP075A: Phenolic Compounds (QCLot: 5627927)							
EB2406402-036	TP53-0.2	EP075: Phenol	108-95-2	1 mg/kg	99.5	50.0	159
		EP075: 2-Chlorophenol	95-57-8	1 mg/kg	97.4	70.0	130
		EP075: 2-Nitrophenol	88-75-5	1 mg/kg	91.6	59.8	154
		EP075: 4-Chloro-3-methylphenol	59-50-7	1 mg/kg	95.2	56.0	132
		EP075: Pentachlorophenol	87-86-5	1 mg/kg	108	21.0	130
EP075A: Phenolic Compounds (QCLot: 5627941)							
EB2406402-082	D12	EP075: Phenol	108-95-2	1 mg/kg	92.0	50.0	159
		EP075: 2-Chlorophenol	95-57-8	1 mg/kg	98.3	70.0	130
		EP075: 2-Nitrophenol	88-75-5	1 mg/kg	106	59.8	154
		EP075: 4-Chloro-3-methylphenol	59-50-7	1 mg/kg	59.7	56.0	132
		EP075: Pentachlorophenol	87-86-5	1 mg/kg	32.2	21.0	130
EP075B: Polynuclear Aromatic Hydrocarbons (QCLot: 5627919)							
EB2406402-004	TP43-0.1	EP075: Acenaphthene	83-32-9	1 mg/kg	93.1	70.0	130
		EP075: Pyrene	129-00-0	1 mg/kg	106	70.0	130
EP075B: Polynuclear Aromatic Hydrocarbons (QCLot: 5627927)							
EB2406402-036	TP53-0.2	EP075: Acenaphthene	83-32-9	1 mg/kg	96.8	70.0	130
		EP075: Pyrene	129-00-0	1 mg/kg	95.8	70.0	130
EP075B: Polynuclear Aromatic Hydrocarbons (QCLot: 5627941)							
EB2406402-082	D12	EP075: Acenaphthene	83-32-9	1 mg/kg	94.0	70.0	130
		EP075: Pyrene	129-00-0	1 mg/kg	126	70.0	130
EP075D: Nitrosamines (QCLot: 5627919)							
EB2406402-004	TP43-0.1	EP075: N-Nitrosodi-n-propylamine	621-64-7	1 mg/kg	101	53.0	144
EP075D: Nitrosamines (QCLot: 5627927)							
EB2406402-036	TP53-0.2	EP075: N-Nitrosodi-n-propylamine	621-64-7	1 mg/kg	107	53.0	144
EP075D: Nitrosamines (QCLot: 5627941)							
EB2406402-082	D12	EP075: N-Nitrosodi-n-propylamine	621-64-7	1 mg/kg	96.5	53.0	144
EP075E: Nitroaromatics and Ketones (QCLot: 5627919)							
EB2406402-004	TP43-0.1	EP075: 2,4-Dinitrotoluene	121-14-2	1 mg/kg	91.3	35.0	136
EP075E: Nitroaromatics and Ketones (QCLot: 5627927)							
EB2406402-036	TP53-0.2	EP075: 2,4-Dinitrotoluene	121-14-2	1 mg/kg	76.4	35.0	136
EP075E: Nitroaromatics and Ketones (QCLot: 5627941)							
EB2406402-082	D12	EP075: 2,4-Dinitrotoluene	121-14-2	1 mg/kg	59.6	35.0	136
EP075G: Chlorinated Hydrocarbons (QCLot: 5627919)							



Sub-Matrix: SOIL

				Matrix Spike (MS) Report			
Laboratory sample ID		Sample ID	Method: Compound	CAS Number	Spike Concentration	Spike Recovery(%) MS	Acceptable Limits (%) Low High
EP075G: Chlorinated Hydrocarbons (QCLot: 5627919) - continued							
EB2406402-004	TP43-0.1	EP075: 1.4-Dichlorobenzene	106-46-7	1 mg/kg	88.2	70.0	130
		EP075: 1.2.4-Trichlorobenzene	120-82-1	1 mg/kg	96.1	70.0	130
EP075G: Chlorinated Hydrocarbons (QCLot: 5627927)							
EB2406402-036	TP53-0.2	EP075: 1.4-Dichlorobenzene	106-46-7	1 mg/kg	92.1	70.0	130
		EP075: 1.2.4-Trichlorobenzene	120-82-1	1 mg/kg	99.7	70.0	130
EP075G: Chlorinated Hydrocarbons (QCLot: 5627941)							
EB2406402-082	D12	EP075: 1.4-Dichlorobenzene	106-46-7	1 mg/kg	95.8	70.0	130
		EP075: 1.2.4-Trichlorobenzene	120-82-1	1 mg/kg	97.8	70.0	130
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5627912)							
EB2406372-100	Anonymous	EP080: C6 - C9 Fraction	----	8 mg/kg	92.9	70.0	130
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5627913)							
EB2406372-100	Anonymous	EP071: C10 - C14 Fraction	----	379 mg/kg	88.7	70.0	130
		EP071: C15 - C28 Fraction	----	407 mg/kg	90.0	70.0	130
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5627923)							
EB2406402-021	TP48-0.5	EP071: C10 - C14 Fraction	----	379 mg/kg	109	70.0	130
		EP071: C15 - C28 Fraction	----	407 mg/kg	117	70.0	130
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5627928)							
EB2406402-021	TP48-0.5	EP080: C6 - C9 Fraction	----	8 mg/kg	93.9	70.0	130
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5627936)							
EB2406402-074	D4	EP080: C6 - C9 Fraction	----	8 mg/kg	83.7	70.0	130
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5627937)							
EB2406402-074	D4	EP071: C10 - C14 Fraction	----	379 mg/kg	86.6	70.0	130
		EP071: C15 - C28 Fraction	----	407 mg/kg	85.1	70.0	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5627912)							
EB2406372-100	Anonymous	EP080: C6 - C10 Fraction	C6_C10	8 mg/kg	92.4	70.0	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5627913)							
EB2406372-100	Anonymous	EP071: >C10 - C16 Fraction	----	502 mg/kg	88.0	70.0	130
		EP071: >C16 - C34 Fraction	----	268 mg/kg	94.8	70.0	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5627923)							
EB2406402-021	TP48-0.5	EP071: >C10 - C16 Fraction	----	502 mg/kg	110	70.0	130
		EP071: >C16 - C34 Fraction	----	268 mg/kg	120	70.0	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5627928)							
EB2406402-021	TP48-0.5	EP080: C6 - C10 Fraction	C6_C10	8 mg/kg	# 67.2	70.0	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5627936)							



Sub-Matrix: SOIL				Matrix Spike (MS) Report			
				Spike Concentration	SpikeRecovery(%) MS	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5627936) - continued							
EB2406402-074	D4	EP080: C6 - C10 Fraction	C6_C10	8 mg/kg	82.8	70.0	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5627937)							
EB2406402-074	D4	EP071: >C10 - C16 Fraction	----	502 mg/kg	86.1	70.0	130
		EP071: >C16 - C34 Fraction	----	268 mg/kg	85.0	70.0	130
EP080: BTEXN (QCLot: 5627912)							
EB2406372-100	Anonymous	EP080: Benzene	71-43-2	2 mg/kg	88.4	70.0	130
		EP080: Toluene	108-88-3	2 mg/kg	84.0	70.0	130
EP080: BTEXN (QCLot: 5627928)							
EB2406402-021	TP48-0.5	EP080: Benzene	71-43-2	2 mg/kg	93.3	70.0	130
		EP080: Toluene	108-88-3	2 mg/kg	93.4	70.0	130
EP080: BTEXN (QCLot: 5627936)							
EB2406402-074	D4	EP080: Benzene	71-43-2	2 mg/kg	80.6	70.0	130
		EP080: Toluene	108-88-3	2 mg/kg	81.1	70.0	130
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 5627981)							
EB2406372-008	Anonymous	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0011 mg/kg	109	72.0	128
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.00118 mg/kg	102	67.0	130
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.00116 mg/kg	113	68.0	136
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 5627990)							
EB2406402-076	D6	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0011 mg/kg	110	72.0	128
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.00118 mg/kg	104	67.0	130
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.00116 mg/kg	101	68.0	136
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 5627981)							
EB2406372-008	Anonymous	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.00625 mg/kg	108	71.0	135
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.00125 mg/kg	120	69.0	132
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.00125 mg/kg	120	70.0	132
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.00125 mg/kg	128	71.0	131
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.00125 mg/kg	116	69.0	133
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 5627990)							
EB2406402-076	D6	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.00625 mg/kg	91.9	71.0	135
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.00125 mg/kg	101	69.0	132
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.00125 mg/kg	104	70.0	132
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.00125 mg/kg	106	71.0	131
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.00125 mg/kg	94.8	69.0	133
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5627981)							
EB2406372-008	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.00117 mg/kg	126	62.0	145
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.00118 mg/kg	125	64.0	140

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 Work Order : EB2406402
 Client : ENVIRONMENTAL ADVISORS
 Project : 125 NSC LAKE McDONALD DVE, COOROY



Sub-Matrix: SOIL				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5627981) - continued							
EB2406372-008	Anonymous	EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0012 mg/kg	120	65.0	137
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0012 mg/kg	128	70.0	130
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5627990)							
EB2406402-076	D6	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.00117 mg/kg	83.8	62.0	145
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.00118 mg/kg	114	64.0	140
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0012 mg/kg	96.2	65.0	137
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0012 mg/kg	118	70.0	130



QA/QC Compliance Assessment to assist with Quality Review

Work Order	: EB2406402	Page	: 1 of 24
Client	: ENVIRONMENTAL ADVISORS	Laboratory	: Environmental Division Brisbane
Contact	: ANDREW WINTERS	Telephone	: +61 7 3243 7222
Project	: 125 NSC LAKE McDONALD DVE, COOROY	Date Samples Received	: 24-Feb-2024
Site	: ----	Issue Date	: 08-Mar-2024
Sampler	: ANDREW WINTERS	No. of samples received	: 83
Order number	: ----	No. of samples analysed	: 71

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.
- Duplicate outliers exist - please see following pages for full details.
- Laboratory Control outliers exist - please see following pages for full details.
- Matrix Spike 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

- **NO** Quality Control Sample Frequency Outliers exist.



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
Duplicate (DUP) RPDs							
EG005(ED093)T: Total Metals by ICP-AES	EB2406402--020	TP48-0.2	Lead	7439-92-1	33.1 %	0% - 20%	RPD exceeds LOR based limits
EG005(ED093)T: Total Metals by ICP-AES	EB2406402--020	TP48-0.2	Zinc	7440-66-6	24.8 %	0% - 20%	RPD exceeds LOR based limits
Laboratory Control Spike (LCS) Recoveries							
EP068B: Organophosphorus Pesticides (OP)	QC-5627917-002	----	Monocrotophos	6923-22-4	17.6 %	20.0-147%	Recovery less than lower control limit
EP068B: Organophosphorus Pesticides (OP)	QC-5627939-002	----	Monocrotophos	6923-22-4	9.2 %	20.0-147%	Recovery less than lower control limit
EP068B: Organophosphorus Pesticides (OP)	QC-5627917-002	----	Azinphos Methyl	86-50-0	19.8 %	20.0-145%	Recovery less than lower control limit
EP075A: Phenolic Compounds	QC-5627919-002	----	2,4,6-Trichlorophenol	88-06-2	58.0 %	58.5-148%	Recovery less than lower control limit
EP075A: Phenolic Compounds	QC-5627919-002	----	Pentachlorophenol	87-86-5	13.8 %	21.0-130%	Recovery less than lower control limit
EP075G: Chlorinated Hydrocarbons	QC-5627919-002	----	Hexachlorocyclopentadiene	77-47-4	7.7 %	26.0-126%	Recovery less than lower control limit
EP075G: Chlorinated Hydrocarbons	QC-5627941-002	----	Hexachlorocyclopentadiene	77-47-4	5.1 %	26.0-126%	Recovery less than lower control limit
EP080: BTEXN	QC-5627912-002	----	Toluene	108-88-3	109 %	69.0-108%	Recovery greater than upper control limit
EP080: BTEXN	QC-5627912-002	----	Ethylbenzene	100-41-4	114 %	68.0-109%	Recovery greater than upper control limit
EP080: BTEXN	QC-5627912-002	----	meta- & para-Xylene	108-38-3 106-42-3	118 %	70.0-114%	Recovery greater than upper control limit
EP080: BTEXN	QC-5627912-002	----	Naphthalene	91-20-3	110 %	74.0-109%	Recovery greater than upper control limit
Matrix Spike (MS) Recoveries							
EP080/071: Total Recoverable Hydrocarbons - NEPM 2	EB2406402--021	TP48-0.5	C6 - C10 Fraction	C6_C10	67.2 %	70.0-130%	Recovery less than lower data quality objective

Regular Sample Surrogates

Sub-Matrix: **SOIL**

Compound Group Name	Laboratory Sample ID	Client Sample ID	Analyte	CAS Number	Data	Limits	Comment
Samples Submitted							
EP068S: Organochlorine Pesticide Surrogate	EB2406402-014	TP46-0.2	Dibromo-DDE	21655-73-2	155 %	10.0-138 %	Recovery greater than upper data quality objective

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							
Soil Glass Jar - Unpreserved (EA055) D1	19-Feb-2024	----	----	----	27-Feb-2024	04-Mar-2024	✔
Soil Glass Jar - Unpreserved (EA055) D4	20-Feb-2024	----	----	----	27-Feb-2024	05-Mar-2024	✔
Soil Glass Jar - Unpreserved (EA055) TP43-0.1, TP43-1.0, TP45-0.1, TP46-1.0, TP47-1.0, TP43-0.5, TP44-0.1, TP45-1.0, TP47-0.5, TP59-0.5	21-Feb-2024	----	----	----	27-Feb-2024	06-Mar-2024	✔
Soil Glass Jar - Unpreserved (EA055) TP49-0.2, TP60-0.5, D11, TP53-0.5, D9,	22-Feb-2024	----	----	----	27-Feb-2024	07-Mar-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
EA055: Moisture Content (Dried @ 105-110°C)							
HDPE Soil Jar (EA055) 020930	19-Feb-2024	----	----	----	27-Feb-2024	04-Mar-2024	✓
Soil Glass Jar - Unpreserved (EA055) D2, D3	19-Feb-2024	----	----	----	27-Feb-2024	04-Mar-2024	✓
Soil Glass Jar - Unpreserved (EA055) D5	20-Feb-2024	----	----	----	27-Feb-2024	05-Mar-2024	✓
Soil Glass Jar - Unpreserved (EA055) TP42-0.2, TP43-0.3, TP44-1.0, TP46-0.2, TP47-0.2, TP48-0.5, TP64-0.2, D7, TP42-1.0, TP44-0.5, TP45-0.5, TP46-0.5, TP48-0.2, TP59-0.2, TP64-0.5, D8	21-Feb-2024	----	----	----	27-Feb-2024	06-Mar-2024	✓
Soil Glass Jar - Unpreserved (EA055) TP49-1.0, TP50-0.5, TP51-0.5, TP52-0.1, TP53-0.2, TP54-0.1, TP55-0.1, TP56-0.1, TP57-0.1, TP58-0.1, TP60-0.1, TP62-0.1, TP63-0.1, TP65-0.1, D10, D13 TP50-0.1, TP51-0.2, TP51-1.4, TP52-0.5, TP53-1.0, TP54-0.5, TP55-0.5, TP56-0.5, TP57-0.5, TP58-0.5, TP61-0.1, TP62-0.5, TP63-0.5, D6, D12,	22-Feb-2024	----	----	----	27-Feb-2024	07-Mar-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
EA200: AS 4964 - 2004 Identification of Asbestos in Soils							
Snap Lock Bag - ACM/Asbestos Grab Bag (EA200) TP43-0.3, TP47-0.2, TP48-0.5	TP45-0.1, TP48-0.2, 21-Feb-2024	----	----	----	28-Feb-2024	19-Aug-2024	✓
Snap Lock Bag - ACM/Asbestos Grab Bag (EA200) TP49-0.2, TP52-0.1, TP54-0.1, TP55-0.5, TP60-0.1, TP65-0.1	TP50-0.1, TP53-0.2, TP55-0.1, TP58-0.1, TP61-0.1, 22-Feb-2024	----	----	----	28-Feb-2024	20-Aug-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) D2, D3	19-Feb-2024	01-Mar-2024	17-Aug-2024	✓	04-Mar-2024	17-Aug-2024	✓
Soil Glass Jar - Unpreserved (EG005T) D1	19-Feb-2024	28-Feb-2024	17-Aug-2024	✓	29-Feb-2024	17-Aug-2024	✓
Soil Glass Jar - Unpreserved (EG005T) D4, D5	20-Feb-2024	28-Feb-2024	18-Aug-2024	✓	29-Feb-2024	18-Aug-2024	✓
Soil Glass Jar - Unpreserved (EG005T) TP42-0.2, TP43-0.3, TP43-1.0, TP44-0.5, TP45-0.1, TP45-1.0, TP46-0.5, TP47-0.2, TP47-1.0, TP64-0.5 TP43-0.1, TP43-0.5, TP44-0.1, TP44-1.0, TP45-0.5, TP46-0.2, TP46-1.0, TP47-0.5, TP64-0.2	21-Feb-2024	01-Mar-2024	19-Aug-2024	✓	04-Mar-2024	19-Aug-2024	✓
Soil Glass Jar - Unpreserved (EG005T) TP42-1.0, TP48-0.5, TP59-0.5, D8 TP48-0.2, TP59-0.2, D7	21-Feb-2024	28-Feb-2024	19-Aug-2024	✓	29-Feb-2024	19-Aug-2024	✓
Soil Glass Jar - Unpreserved (EG005T) TP50-0.1, TP51-0.2, TP52-0.5, TP55-0.5, TP56-0.5, TP58-0.5, TP61-0.1, TP63-0.1 TP50-0.5, TP51-0.5, TP54-0.5, TP56-0.1, TP58-0.1, TP60-0.1, TP62-0.5, TP63-0.5	22-Feb-2024	01-Mar-2024	20-Aug-2024	✓	04-Mar-2024	20-Aug-2024	✓
Soil Glass Jar - Unpreserved (EG005T) TP49-0.2, TP51-1.4, TP53-0.2, TP54-0.1, TP57-0.1, TP60-0.5, TP65-0.1, D9, D11, D13 TP49-1.0, TP52-0.1, TP53-0.5, TP55-0.1, TP57-0.5, TP62-0.1, D6, D10, D12	22-Feb-2024	28-Feb-2024	20-Aug-2024	✓	29-Feb-2024	20-Aug-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	
EG035T: Total Recoverable Mercury by FIMS								
Soil Glass Jar - Unpreserved (EG035T) D2,	D3	19-Feb-2024	01-Mar-2024	18-Mar-2024	✓	04-Mar-2024	18-Mar-2024	✓
Soil Glass Jar - Unpreserved (EG035T) D1		19-Feb-2024	28-Feb-2024	18-Mar-2024	✓	01-Mar-2024	18-Mar-2024	✓
Soil Glass Jar - Unpreserved (EG035T) D4,	D5	20-Feb-2024	28-Feb-2024	19-Mar-2024	✓	01-Mar-2024	19-Mar-2024	✓
Soil Glass Jar - Unpreserved (EG035T) TP42-0.2, TP43-0.3, TP43-1.0, TP44-0.5, TP45-0.1, TP45-1.0, TP46-0.5, TP47-0.2, TP47-1.0, TP64-0.5	TP43-0.1, TP43-0.5, TP44-0.1, TP44-1.0, TP45-0.5, TP46-0.2, TP46-1.0, TP47-0.5, TP64-0.2,	21-Feb-2024	01-Mar-2024	20-Mar-2024	✓	04-Mar-2024	20-Mar-2024	✓
Soil Glass Jar - Unpreserved (EG035T) TP42-1.0, TP48-0.5, TP59-0.5, D8	TP48-0.2, TP59-0.2, D7,	21-Feb-2024	28-Feb-2024	20-Mar-2024	✓	01-Mar-2024	20-Mar-2024	✓
Soil Glass Jar - Unpreserved (EG035T) TP50-0.1, TP51-0.2, TP52-0.5, TP55-0.5, TP56-0.5, TP58-0.5, TP61-0.1, TP63-0.1,	TP50-0.5, TP51-0.5, TP54-0.5, TP56-0.1, TP58-0.1, TP60-0.1, TP62-0.5, TP63-0.5	22-Feb-2024	01-Mar-2024	21-Mar-2024	✓	04-Mar-2024	21-Mar-2024	✓
Soil Glass Jar - Unpreserved (EG035T) TP49-0.2, TP51-1.4, TP53-0.2, TP54-0.1, TP57-0.1, TP60-0.5, TP65-0.1, D9, D11, D13	TP49-1.0, TP52-0.1, TP53-0.5, TP55-0.1, TP57-0.5, TP62-0.1, D6, D10, D12,	22-Feb-2024	28-Feb-2024	21-Mar-2024	✓	01-Mar-2024	21-Mar-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	
EP066: Polychlorinated Biphenyls (PCB)								
Soil Glass Jar - Unpreserved (EP066) D7	21-Feb-2024	01-Mar-2024	06-Mar-2024	✔	02-Mar-2024	10-Apr-2024	✔	
Soil Glass Jar - Unpreserved (EP066) TP48-0.2, TP59-0.2	TP48-0.5,	21-Feb-2024	01-Mar-2024	06-Mar-2024	✔	06-Mar-2024	10-Apr-2024	✔
Soil Glass Jar - Unpreserved (EP066) TP43-0.3, TP44-1.0, TP46-0.2, TP47-0.2	TP44-0.5, TP45-0.5, TP46-0.5,	21-Feb-2024	02-Mar-2024	06-Mar-2024	✔	05-Mar-2024	11-Apr-2024	✔
Soil Glass Jar - Unpreserved (EP066) D6,	D10	22-Feb-2024	01-Mar-2024	07-Mar-2024	✔	02-Mar-2024	10-Apr-2024	✔
Soil Glass Jar - Unpreserved (EP066) TP49-1.0, TP52-0.1, TP54-0.1, TP57-0.1, TP62-0.1	TP51-1.4, TP53-0.2, TP55-0.1, TP57-0.5,	22-Feb-2024	01-Mar-2024	07-Mar-2024	✔	06-Mar-2024	10-Apr-2024	✔
Soil Glass Jar - Unpreserved (EP066) TP65-0.1		22-Feb-2024	01-Mar-2024	07-Mar-2024	✔	07-Mar-2024	10-Apr-2024	✔
EP068A: Organochlorine Pesticides (OC)								
Soil Glass Jar - Unpreserved (EP068) D7		21-Feb-2024	01-Mar-2024	06-Mar-2024	✔	01-Mar-2024	10-Apr-2024	✔
Soil Glass Jar - Unpreserved (EP068) TP48-0.2, TP59-0.2	TP48-0.5,	21-Feb-2024	01-Mar-2024	06-Mar-2024	✔	06-Mar-2024	10-Apr-2024	✔
Soil Glass Jar - Unpreserved (EP068) TP43-0.3, TP44-1.0, TP46-0.2, TP47-0.2	TP44-0.5, TP45-0.5, TP46-0.5,	21-Feb-2024	02-Mar-2024	06-Mar-2024	✔	04-Mar-2024	11-Apr-2024	✔
Soil Glass Jar - Unpreserved (EP068) D6,	D10	22-Feb-2024	01-Mar-2024	07-Mar-2024	✔	01-Mar-2024	10-Apr-2024	✔
Soil Glass Jar - Unpreserved (EP068) TP49-1.0, TP52-0.1, TP54-0.1, TP57-0.1, TP62-0.1	TP51-1.4, TP53-0.2, TP55-0.1, TP57-0.5, TP65-0.1	22-Feb-2024	01-Mar-2024	07-Mar-2024	✔	06-Mar-2024	10-Apr-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) D7	21-Feb-2024	01-Mar-2024	06-Mar-2024	✓	01-Mar-2024	10-Apr-2024	✓
Soil Glass Jar - Unpreserved (EP068) TP48-0.2, TP59-0.2	TP48-0.5, 21-Feb-2024	01-Mar-2024	06-Mar-2024	✓	06-Mar-2024	10-Apr-2024	✓
Soil Glass Jar - Unpreserved (EP068) TP43-0.3, TP44-1.0, TP46-0.2, TP47-0.2	TP44-0.5, TP45-0.5, TP46-0.5, 21-Feb-2024	02-Mar-2024	06-Mar-2024	✓	04-Mar-2024	11-Apr-2024	✓
Soil Glass Jar - Unpreserved (EP068) D6,	D10 22-Feb-2024	01-Mar-2024	07-Mar-2024	✓	01-Mar-2024	10-Apr-2024	✓
Soil Glass Jar - Unpreserved (EP068) TP49-1.0, TP52-0.1, TP54-0.1, TP57-0.1, TP62-0.1,	TP51-1.4, TP53-0.2, TP55-0.1, TP57-0.5, TP65-0.1 22-Feb-2024	01-Mar-2024	07-Mar-2024	✓	06-Mar-2024	10-Apr-2024	✓
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons							
Soil Glass Jar - Unpreserved (EP075(SIM)) D7	21-Feb-2024	01-Mar-2024	06-Mar-2024	✓	01-Mar-2024	10-Apr-2024	✓
Soil Glass Jar - Unpreserved (EP075(SIM)) TP48-0.2, TP59-0.2	TP48-0.5, 21-Feb-2024	01-Mar-2024	06-Mar-2024	✓	06-Mar-2024	10-Apr-2024	✓
Soil Glass Jar - Unpreserved (EP075(SIM)) TP43-0.3, TP44-1.0, TP46-0.2, TP47-0.2	TP44-0.5, TP45-0.5, TP46-0.5, 21-Feb-2024	02-Mar-2024	06-Mar-2024	✓	04-Mar-2024	11-Apr-2024	✓
Soil Glass Jar - Unpreserved (EP075(SIM)) D6,	D10 22-Feb-2024	01-Mar-2024	07-Mar-2024	✓	01-Mar-2024	10-Apr-2024	✓
Soil Glass Jar - Unpreserved (EP075(SIM)) TP49-1.0, TP52-0.1, TP54-0.1, TP57-0.1, TP62-0.1,	TP51-1.4, TP53-0.2, TP55-0.1, TP57-0.5, TP65-0.1 22-Feb-2024	01-Mar-2024	07-Mar-2024	✓	06-Mar-2024	10-Apr-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) D8	21-Feb-2024	01-Mar-2024	06-Mar-2024	✔	03-Mar-2024	10-Apr-2024	✔
Soil Glass Jar - Unpreserved (EP075) TP59-0.2, TP59-0.5	21-Feb-2024	01-Mar-2024	06-Mar-2024	✔	07-Mar-2024	10-Apr-2024	✔
Soil Glass Jar - Unpreserved (EP075) TP42-0.2, TP43-0.5, TP43-0.1, TP47-0.2	21-Feb-2024	02-Mar-2024	06-Mar-2024	✔	04-Mar-2024	11-Apr-2024	✔
Soil Glass Jar - Unpreserved (EP075) TP47-0.5	21-Feb-2024	02-Mar-2024	06-Mar-2024	✔	05-Mar-2024	11-Apr-2024	✔
Soil Glass Jar - Unpreserved (EP075) D12	22-Feb-2024	01-Mar-2024	07-Mar-2024	✔	03-Mar-2024	10-Apr-2024	✔
Soil Glass Jar - Unpreserved (EP075) TP49-0.2, TP53-1.0, TP53-0.2, TP65-0.1	22-Feb-2024	01-Mar-2024	07-Mar-2024	✔	07-Mar-2024	10-Apr-2024	✔
EP075B: Polynuclear Aromatic Hydrocarbons							
Soil Glass Jar - Unpreserved (EP075) D8	21-Feb-2024	01-Mar-2024	06-Mar-2024	✔	03-Mar-2024	10-Apr-2024	✔
Soil Glass Jar - Unpreserved (EP075) TP59-0.2, TP59-0.5	21-Feb-2024	01-Mar-2024	06-Mar-2024	✔	07-Mar-2024	10-Apr-2024	✔
Soil Glass Jar - Unpreserved (EP075) TP42-0.2, TP43-0.5, TP43-0.1, TP47-0.2	21-Feb-2024	02-Mar-2024	06-Mar-2024	✔	04-Mar-2024	11-Apr-2024	✔
Soil Glass Jar - Unpreserved (EP075) TP47-0.5	21-Feb-2024	02-Mar-2024	06-Mar-2024	✔	05-Mar-2024	11-Apr-2024	✔
Soil Glass Jar - Unpreserved (EP075) D12	22-Feb-2024	01-Mar-2024	07-Mar-2024	✔	03-Mar-2024	10-Apr-2024	✔
Soil Glass Jar - Unpreserved (EP075) TP49-0.2, TP53-1.0, TP53-0.2, TP65-0.1	22-Feb-2024	01-Mar-2024	07-Mar-2024	✔	07-Mar-2024	10-Apr-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) D8	21-Feb-2024	01-Mar-2024	06-Mar-2024	✔	03-Mar-2024	10-Apr-2024	✔
Soil Glass Jar - Unpreserved (EP075) TP59-0.2, TP59-0.5	21-Feb-2024	01-Mar-2024	06-Mar-2024	✔	07-Mar-2024	10-Apr-2024	✔
Soil Glass Jar - Unpreserved (EP075) TP42-0.2, TP43-0.5, TP43-0.1, TP47-0.2	21-Feb-2024	02-Mar-2024	06-Mar-2024	✔	04-Mar-2024	11-Apr-2024	✔
Soil Glass Jar - Unpreserved (EP075) TP47-0.5	21-Feb-2024	02-Mar-2024	06-Mar-2024	✔	05-Mar-2024	11-Apr-2024	✔
Soil Glass Jar - Unpreserved (EP075) D12	22-Feb-2024	01-Mar-2024	07-Mar-2024	✔	03-Mar-2024	10-Apr-2024	✔
Soil Glass Jar - Unpreserved (EP075) TP49-0.2, TP53-1.0, TP53-0.2, TP65-0.1	22-Feb-2024	01-Mar-2024	07-Mar-2024	✔	07-Mar-2024	10-Apr-2024	✔
EP075D: Nitrosamines							
Soil Glass Jar - Unpreserved (EP075) D8	21-Feb-2024	01-Mar-2024	06-Mar-2024	✔	03-Mar-2024	10-Apr-2024	✔
Soil Glass Jar - Unpreserved (EP075) TP59-0.2, TP59-0.5	21-Feb-2024	01-Mar-2024	06-Mar-2024	✔	07-Mar-2024	10-Apr-2024	✔
Soil Glass Jar - Unpreserved (EP075) TP42-0.2, TP43-0.5, TP43-0.1, TP47-0.2	21-Feb-2024	02-Mar-2024	06-Mar-2024	✔	04-Mar-2024	11-Apr-2024	✔
Soil Glass Jar - Unpreserved (EP075) TP47-0.5	21-Feb-2024	02-Mar-2024	06-Mar-2024	✔	05-Mar-2024	11-Apr-2024	✔
Soil Glass Jar - Unpreserved (EP075) D12	22-Feb-2024	01-Mar-2024	07-Mar-2024	✔	03-Mar-2024	10-Apr-2024	✔
Soil Glass Jar - Unpreserved (EP075) TP49-0.2, TP53-1.0, TP53-0.2, TP65-0.1	22-Feb-2024	01-Mar-2024	07-Mar-2024	✔	07-Mar-2024	10-Apr-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) D8	21-Feb-2024	01-Mar-2024	06-Mar-2024	✔	03-Mar-2024	10-Apr-2024	✔
Soil Glass Jar - Unpreserved (EP075) TP59-0.2, TP59-0.5	21-Feb-2024	01-Mar-2024	06-Mar-2024	✔	07-Mar-2024	10-Apr-2024	✔
Soil Glass Jar - Unpreserved (EP075) TP42-0.2, TP43-0.5, TP43-0.1, TP47-0.2	21-Feb-2024	02-Mar-2024	06-Mar-2024	✔	04-Mar-2024	11-Apr-2024	✔
Soil Glass Jar - Unpreserved (EP075) TP47-0.5	21-Feb-2024	02-Mar-2024	06-Mar-2024	✔	05-Mar-2024	11-Apr-2024	✔
Soil Glass Jar - Unpreserved (EP075) D12	22-Feb-2024	01-Mar-2024	07-Mar-2024	✔	03-Mar-2024	10-Apr-2024	✔
Soil Glass Jar - Unpreserved (EP075) TP49-0.2, TP53-1.0, TP53-0.2, TP65-0.1	22-Feb-2024	01-Mar-2024	07-Mar-2024	✔	07-Mar-2024	10-Apr-2024	✔
EP075F: Haloethers							
Soil Glass Jar - Unpreserved (EP075) D8	21-Feb-2024	01-Mar-2024	06-Mar-2024	✔	03-Mar-2024	10-Apr-2024	✔
Soil Glass Jar - Unpreserved (EP075) TP59-0.2, TP59-0.5	21-Feb-2024	01-Mar-2024	06-Mar-2024	✔	07-Mar-2024	10-Apr-2024	✔
Soil Glass Jar - Unpreserved (EP075) TP42-0.2, TP43-0.5, TP43-0.1, TP47-0.2	21-Feb-2024	02-Mar-2024	06-Mar-2024	✔	04-Mar-2024	11-Apr-2024	✔
Soil Glass Jar - Unpreserved (EP075) TP47-0.5	21-Feb-2024	02-Mar-2024	06-Mar-2024	✔	05-Mar-2024	11-Apr-2024	✔
Soil Glass Jar - Unpreserved (EP075) D12	22-Feb-2024	01-Mar-2024	07-Mar-2024	✔	03-Mar-2024	10-Apr-2024	✔
Soil Glass Jar - Unpreserved (EP075) TP49-0.2, TP53-1.0, TP53-0.2, TP65-0.1	22-Feb-2024	01-Mar-2024	07-Mar-2024	✔	07-Mar-2024	10-Apr-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) D8	21-Feb-2024	01-Mar-2024	06-Mar-2024	✔	03-Mar-2024	10-Apr-2024	✔
Soil Glass Jar - Unpreserved (EP075) TP59-0.2, TP59-0.5	21-Feb-2024	01-Mar-2024	06-Mar-2024	✔	07-Mar-2024	10-Apr-2024	✔
Soil Glass Jar - Unpreserved (EP075) TP42-0.2, TP43-0.5, TP43-0.1, TP47-0.2	21-Feb-2024	02-Mar-2024	06-Mar-2024	✔	04-Mar-2024	11-Apr-2024	✔
Soil Glass Jar - Unpreserved (EP075) TP47-0.5	21-Feb-2024	02-Mar-2024	06-Mar-2024	✔	05-Mar-2024	11-Apr-2024	✔
Soil Glass Jar - Unpreserved (EP075) D12	22-Feb-2024	01-Mar-2024	07-Mar-2024	✔	03-Mar-2024	10-Apr-2024	✔
Soil Glass Jar - Unpreserved (EP075) TP49-0.2, TP53-1.0, TP53-0.2, TP65-0.1	22-Feb-2024	01-Mar-2024	07-Mar-2024	✔	07-Mar-2024	10-Apr-2024	✔
EP075H: Anilines and Benzidines							
Soil Glass Jar - Unpreserved (EP075) D8	21-Feb-2024	01-Mar-2024	06-Mar-2024	✔	03-Mar-2024	10-Apr-2024	✔
Soil Glass Jar - Unpreserved (EP075) TP59-0.2, TP59-0.5	21-Feb-2024	01-Mar-2024	06-Mar-2024	✔	07-Mar-2024	10-Apr-2024	✔
Soil Glass Jar - Unpreserved (EP075) TP42-0.2, TP43-0.5, TP43-0.1, TP47-0.2	21-Feb-2024	02-Mar-2024	06-Mar-2024	✔	04-Mar-2024	11-Apr-2024	✔
Soil Glass Jar - Unpreserved (EP075) TP47-0.5	21-Feb-2024	02-Mar-2024	06-Mar-2024	✔	05-Mar-2024	11-Apr-2024	✔
Soil Glass Jar - Unpreserved (EP075) D12	22-Feb-2024	01-Mar-2024	07-Mar-2024	✔	03-Mar-2024	10-Apr-2024	✔
Soil Glass Jar - Unpreserved (EP075) TP49-0.2, TP53-1.0, TP53-0.2, TP65-0.1	22-Feb-2024	01-Mar-2024	07-Mar-2024	✔	07-Mar-2024	10-Apr-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
EP075I: Organochlorine Pesticides							
Soil Glass Jar - Unpreserved (EP075) D8	21-Feb-2024	01-Mar-2024	06-Mar-2024	✔	03-Mar-2024	10-Apr-2024	✔
Soil Glass Jar - Unpreserved (EP075) TP59-0.2, TP59-0.5	21-Feb-2024	01-Mar-2024	06-Mar-2024	✔	07-Mar-2024	10-Apr-2024	✔
Soil Glass Jar - Unpreserved (EP075) TP42-0.2, TP43-0.5, TP43-0.1, TP47-0.2	21-Feb-2024	02-Mar-2024	06-Mar-2024	✔	04-Mar-2024	11-Apr-2024	✔
Soil Glass Jar - Unpreserved (EP075) TP47-0.5	21-Feb-2024	02-Mar-2024	06-Mar-2024	✔	05-Mar-2024	11-Apr-2024	✔
Soil Glass Jar - Unpreserved (EP075) D12	22-Feb-2024	01-Mar-2024	07-Mar-2024	✔	03-Mar-2024	10-Apr-2024	✔
Soil Glass Jar - Unpreserved (EP075) TP49-0.2, TP53-1.0, TP53-0.2, TP65-0.1	22-Feb-2024	01-Mar-2024	07-Mar-2024	✔	07-Mar-2024	10-Apr-2024	✔
EP075J: Organophosphorus Pesticides							
Soil Glass Jar - Unpreserved (EP075) D8	21-Feb-2024	01-Mar-2024	06-Mar-2024	✔	03-Mar-2024	10-Apr-2024	✔
Soil Glass Jar - Unpreserved (EP075) TP59-0.2, TP59-0.5	21-Feb-2024	01-Mar-2024	06-Mar-2024	✔	07-Mar-2024	10-Apr-2024	✔
Soil Glass Jar - Unpreserved (EP075) TP42-0.2, TP43-0.5, TP43-0.1, TP47-0.2	21-Feb-2024	02-Mar-2024	06-Mar-2024	✔	04-Mar-2024	11-Apr-2024	✔
Soil Glass Jar - Unpreserved (EP075) TP47-0.5	21-Feb-2024	02-Mar-2024	06-Mar-2024	✔	05-Mar-2024	11-Apr-2024	✔
Soil Glass Jar - Unpreserved (EP075) D12	22-Feb-2024	01-Mar-2024	07-Mar-2024	✔	03-Mar-2024	10-Apr-2024	✔
Soil Glass Jar - Unpreserved (EP075) TP49-0.2, TP53-1.0, TP53-0.2, TP65-0.1	22-Feb-2024	01-Mar-2024	07-Mar-2024	✔	07-Mar-2024	10-Apr-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 (EP071) D1	19-Feb-2024	01-Mar-2024	04-Mar-2024	✓	02-Mar-2024	10-Apr-2024	✓
Soil Glass Jar - Unpreserved (EP080) 011745, D1	19-Feb-2024	28-Feb-2024	04-Mar-2024	✓	29-Feb-2024	04-Mar-2024	✓
Soil Glass Jar - Unpreserved (EP071) D4	20-Feb-2024	01-Mar-2024	05-Mar-2024	✓	02-Mar-2024	10-Apr-2024	✓
Soil Glass Jar - Unpreserved (EP080) D4	20-Feb-2024	28-Feb-2024	05-Mar-2024	✓	29-Feb-2024	05-Mar-2024	✓
Soil Glass Jar - Unpreserved (EP071) D7	21-Feb-2024	01-Mar-2024	06-Mar-2024	✓	02-Mar-2024	10-Apr-2024	✓
Soil Glass Jar - Unpreserved (EP071) TP48-0.2, TP59-0.2, TP48-0.5, TP59-0.5	21-Feb-2024	01-Mar-2024	06-Mar-2024	✓	06-Mar-2024	10-Apr-2024	✓
Soil Glass Jar - Unpreserved (EP071) TP43-0.1, TP43-0.5, TP44-0.1, TP44-1.0, TP45-0.5, TP46-0.2, TP46-1.0, TP43-0.3, TP43-1.0, TP44-0.5, TP45-0.1, TP45-1.0, TP46-0.5, TP47-0.2	21-Feb-2024	02-Mar-2024	06-Mar-2024	✓	04-Mar-2024	11-Apr-2024	✓
Soil Glass Jar - Unpreserved (EP071) TP47-0.5, TP47-1.0	21-Feb-2024	02-Mar-2024	06-Mar-2024	✓	05-Mar-2024	11-Apr-2024	✓
Soil Glass Jar - Unpreserved (EP080) TP48-0.2, TP48-0.5	21-Feb-2024	28-Feb-2024	06-Mar-2024	✓	28-Feb-2024	06-Mar-2024	✓
Soil Glass Jar - Unpreserved (EP080) TP59-0.2, D7, TP59-0.5	21-Feb-2024	28-Feb-2024	06-Mar-2024	✓	29-Feb-2024	06-Mar-2024	✓
Soil Glass Jar - Unpreserved (EP080) TP43-0.1, TP43-0.5, TP44-0.1, TP44-1.0, TP45-0.5, TP46-0.2, TP46-1.0, TP47-0.5, TP43-0.3, TP43-1.0, TP44-0.5, TP45-0.1, TP45-1.0, TP46-0.5, TP47-0.2, TP47-1.0	21-Feb-2024	29-Feb-2024	06-Mar-2024	✓	29-Feb-2024	06-Mar-2024	✓
Soil Glass Jar - Unpreserved (EP071) D6, D10, D9, D11	22-Feb-2024	01-Mar-2024	07-Mar-2024	✓	02-Mar-2024	10-Apr-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								
TP49-0.2, TP51-1.4, TP53-0.2, TP54-0.1, TP57-0.1, TP60-0.5, TP65-0.1	TP49-1.0, TP52-0.1, TP53-0.5, TP55-0.1, TP57-0.5, TP62-0.1,	22-Feb-2024	01-Mar-2024	07-Mar-2024	✓	06-Mar-2024	10-Apr-2024	✓
Soil Glass Jar - Unpreserved (EP080) TP49-0.2, TP51-1.4	TP49-1.0,	22-Feb-2024	28-Feb-2024	07-Mar-2024	✓	28-Feb-2024	07-Mar-2024	✓
Soil Glass Jar - Unpreserved (EP080) TP52-0.1, TP53-0.5, TP55-0.1, TP57-0.5, TP62-0.1, D6, D10,	TP53-0.2, TP54-0.1, TP57-0.1, TP60-0.5, TP65-0.1, D9, D11	22-Feb-2024	28-Feb-2024	07-Mar-2024	✓	29-Feb-2024	07-Mar-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 (EP071) D1	19-Feb-2024	01-Mar-2024	04-Mar-2024	✓	02-Mar-2024	10-Apr-2024	✓
Soil Glass Jar - Unpreserved (EP080) 011745, D1	19-Feb-2024	28-Feb-2024	04-Mar-2024	✓	29-Feb-2024	04-Mar-2024	✓
Soil Glass Jar - Unpreserved (EP071) D4	20-Feb-2024	01-Mar-2024	05-Mar-2024	✓	02-Mar-2024	10-Apr-2024	✓
Soil Glass Jar - Unpreserved (EP080) D4	20-Feb-2024	28-Feb-2024	05-Mar-2024	✓	29-Feb-2024	05-Mar-2024	✓
Soil Glass Jar - Unpreserved (EP071) D7	21-Feb-2024	01-Mar-2024	06-Mar-2024	✓	02-Mar-2024	10-Apr-2024	✓
Soil Glass Jar - Unpreserved (EP071) TP48-0.2, TP59-0.2, TP48-0.5, TP59-0.5	21-Feb-2024	01-Mar-2024	06-Mar-2024	✓	06-Mar-2024	10-Apr-2024	✓
Soil Glass Jar - Unpreserved (EP071) TP43-0.1, TP43-0.5, TP44-0.1, TP44-1.0, TP45-0.5, TP46-0.2, TP46-1.0, TP43-0.3, TP43-1.0, TP44-0.5, TP45-0.1, TP45-1.0, TP46-0.5, TP47-0.2	21-Feb-2024	02-Mar-2024	06-Mar-2024	✓	04-Mar-2024	11-Apr-2024	✓
Soil Glass Jar - Unpreserved (EP071) TP47-0.5, TP47-1.0	21-Feb-2024	02-Mar-2024	06-Mar-2024	✓	05-Mar-2024	11-Apr-2024	✓
Soil Glass Jar - Unpreserved (EP080) TP48-0.2, TP48-0.5	21-Feb-2024	28-Feb-2024	06-Mar-2024	✓	28-Feb-2024	06-Mar-2024	✓
Soil Glass Jar - Unpreserved (EP080) TP59-0.2, D7, TP59-0.5	21-Feb-2024	28-Feb-2024	06-Mar-2024	✓	29-Feb-2024	06-Mar-2024	✓
Soil Glass Jar - Unpreserved (EP080) TP43-0.1, TP43-0.5, TP44-0.1, TP44-1.0, TP45-0.5, TP46-0.2, TP46-1.0, TP47-0.5, TP43-0.3, TP43-1.0, TP44-0.5, TP45-0.1, TP45-1.0, TP46-0.5, TP47-0.2, TP47-1.0	21-Feb-2024	29-Feb-2024	06-Mar-2024	✓	29-Feb-2024	06-Mar-2024	✓
Soil Glass Jar - Unpreserved (EP071) D6, D10, D9, D11	22-Feb-2024	01-Mar-2024	07-Mar-2024	✓	02-Mar-2024	10-Apr-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								
TP49-0.2, TP51-1.4, TP53-0.2, TP54-0.1, TP57-0.1, TP60-0.5, TP65-0.1	TP49-1.0, TP52-0.1, TP53-0.5, TP55-0.1, TP57-0.5, TP62-0.1,	22-Feb-2024	01-Mar-2024	07-Mar-2024	✓	06-Mar-2024	10-Apr-2024	✓
Soil Glass Jar - Unpreserved (EP080) TP49-0.2, TP51-1.4	TP49-1.0,	22-Feb-2024	28-Feb-2024	07-Mar-2024	✓	28-Feb-2024	07-Mar-2024	✓
Soil Glass Jar - Unpreserved (EP080) TP52-0.1, TP53-0.5, TP55-0.1, TP57-0.5, TP62-0.1, D6, D10,	TP53-0.2, TP54-0.1, TP57-0.1, TP60-0.5, TP65-0.1, D9, D11	22-Feb-2024	28-Feb-2024	07-Mar-2024	✓	29-Feb-2024	07-Mar-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: BTEXN							
Soil Glass Jar - Unpreserved (EP080) 011745, D1	19-Feb-2024	28-Feb-2024	04-Mar-2024	✓	29-Feb-2024	04-Mar-2024	✓
Soil Glass Jar - Unpreserved (EP080) D4	20-Feb-2024	28-Feb-2024	05-Mar-2024	✓	29-Feb-2024	05-Mar-2024	✓
Soil Glass Jar - Unpreserved (EP080) TP48-0.2, TP48-0.5	21-Feb-2024	28-Feb-2024	06-Mar-2024	✓	28-Feb-2024	06-Mar-2024	✓
Soil Glass Jar - Unpreserved (EP080) TP59-0.2, D7, TP59-0.5,	21-Feb-2024	28-Feb-2024	06-Mar-2024	✓	29-Feb-2024	06-Mar-2024	✓
Soil Glass Jar - Unpreserved (EP080) TP43-0.1, TP43-0.5, TP43-1.0, TP44-0.1, TP44-1.0, TP45-0.5, TP45-1.0, TP46-0.2, TP46-1.0, TP47-0.5, TP47-1.0, TP44-0.5, TP45-0.1, TP46-0.5, TP47-0.2, TP47-1.0	21-Feb-2024	29-Feb-2024	06-Mar-2024	✓	29-Feb-2024	06-Mar-2024	✓
Soil Glass Jar - Unpreserved (EP080) TP49-0.2, TP51-1.4, TP49-1.0,	22-Feb-2024	28-Feb-2024	07-Mar-2024	✓	28-Feb-2024	07-Mar-2024	✓
Soil Glass Jar - Unpreserved (EP080) TP52-0.1, TP53-0.5, TP55-0.1, TP57-0.5, TP62-0.1, D6, D10, TP53-0.2, TP54-0.1, TP57-0.1, TP60-0.5, TP65-0.1, D9, D11	22-Feb-2024	28-Feb-2024	07-Mar-2024	✓	29-Feb-2024	07-Mar-2024	✓
EP231A: Perfluoroalkyl Sulfonic Acids							
HDPE Soil Jar (EP231X) 020930	19-Feb-2024	28-Feb-2024	17-Aug-2024	✓	04-Mar-2024	08-Apr-2024	✓
HDPE Soil Jar (EP231X) D5	20-Feb-2024	28-Feb-2024	18-Aug-2024	✓	04-Mar-2024	08-Apr-2024	✓
HDPE Soil Jar (EP231X) TP42-0.2, TP45-0.1, TP48-0.5, TP43-0.3, TP48-0.2,	21-Feb-2024	28-Feb-2024	19-Aug-2024	✓	04-Mar-2024	08-Apr-2024	✓
HDPE Soil Jar (EP231X) TP49-0.2, D6	22-Feb-2024	28-Feb-2024	20-Aug-2024	✓	04-Mar-2024	08-Apr-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
EP231B: Perfluoroalkyl Carboxylic Acids							
HDPE Soil Jar (EP231X) 020930	19-Feb-2024	28-Feb-2024	17-Aug-2024	✓	04-Mar-2024	08-Apr-2024	✓
HDPE Soil Jar (EP231X) D5	20-Feb-2024	28-Feb-2024	18-Aug-2024	✓	04-Mar-2024	08-Apr-2024	✓
HDPE Soil Jar (EP231X) TP42-0.2, TP45-0.1, TP48-0.5	TP43-0.3, TP48-0.2, 21-Feb-2024	28-Feb-2024	19-Aug-2024	✓	04-Mar-2024	08-Apr-2024	✓
HDPE Soil Jar (EP231X) TP49-0.2, D6	22-Feb-2024	28-Feb-2024	20-Aug-2024	✓	04-Mar-2024	08-Apr-2024	✓
EP231D: (n:2) Fluorotelomer Sulfonic Acids							
HDPE Soil Jar (EP231X) 020930	19-Feb-2024	28-Feb-2024	17-Aug-2024	✓	04-Mar-2024	08-Apr-2024	✓
HDPE Soil Jar (EP231X) D5	20-Feb-2024	28-Feb-2024	18-Aug-2024	✓	04-Mar-2024	08-Apr-2024	✓
HDPE Soil Jar (EP231X) TP42-0.2, TP45-0.1, TP48-0.5	TP43-0.3, TP48-0.2, 21-Feb-2024	28-Feb-2024	19-Aug-2024	✓	04-Mar-2024	08-Apr-2024	✓
HDPE Soil Jar (EP231X) TP49-0.2, D6	22-Feb-2024	28-Feb-2024	20-Aug-2024	✓	04-Mar-2024	08-Apr-2024	✓
EP231P: PFAS Sums							
HDPE Soil Jar (EP231X) 020930	19-Feb-2024	28-Feb-2024	17-Aug-2024	✓	04-Mar-2024	08-Apr-2024	✓
HDPE Soil Jar (EP231X) D5	20-Feb-2024	28-Feb-2024	18-Aug-2024	✓	04-Mar-2024	08-Apr-2024	✓
HDPE Soil Jar (EP231X) TP42-0.2, TP45-0.1, TP48-0.5	TP43-0.3, TP48-0.2, 21-Feb-2024	28-Feb-2024	19-Aug-2024	✓	04-Mar-2024	08-Apr-2024	✓
HDPE Soil Jar (EP231X) TP49-0.2, D6	22-Feb-2024	28-Feb-2024	20-Aug-2024	✓	04-Mar-2024	08-Apr-2024	✓

Matrix: SOLID

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
EA200: AS 4964 - 2004 Identification of Asbestos in bulk samples							
Snap Lock Bag - Friable Asbestos/PSD Bag (EA200) TP38-B1	21-Feb-2024	----	----	----	04-Mar-2024	19-Aug-2024	✓
Snap Lock Bag - Friable Asbestos/PSD Bag (EA200) TP55-B1	22-Feb-2024	----	----	----	04-Mar-2024	20-Aug-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	Method	Count		Rate (%)			Quality Control Specification
		QC	Reaular	Actual	Expected	Evaluation	
Analytical Methods							
Laboratory Duplicates (DUP)							
Moisture Content	EA055	10	90	11.11	10.00	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (SIM)	EP075(SIM)	4	24	16.67	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	3	22	13.64	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	4	24	16.67	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	4	24	16.67	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Semivolatile Organic Compounds	EP075	3	13	23.08	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	9	87	10.34	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	9	87	10.34	10.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	5	43	11.63	10.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	5	44	11.36	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
PAH/Phenols (SIM)	EP075(SIM)	3	24	12.50	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	2	22	9.09	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	3	24	12.50	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	3	24	12.50	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Semivolatile Organic Compounds	EP075	3	13	23.08	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	5	87	5.75	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	5	87	5.75	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	3	43	6.98	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	3	44	6.82	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
PAH/Phenols (SIM)	EP075(SIM)	3	24	12.50	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	2	22	9.09	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	3	24	12.50	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	3	24	12.50	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Semivolatile Organic Compounds	EP075	3	13	23.08	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	5	87	5.75	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	5	87	5.75	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	3	43	6.98	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	3	44	6.82	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
PAH/Phenols (SIM)	EP075(SIM)	3	24	12.50	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	2	22	9.09	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	3	24	12.50	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	3	24	12.50	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Semivolatile Organic Compounds	EP075	3	13	23.08	5.00	✓	NEPM 2013 B3 & ALS QC Standard

Page : 22 of 24
 Work Order : EB2406402
 Client : ENVIRONMENTAL ADVISORS
 Project : 125 NSC LAKE McDONALD DVE, COOROY



Matrix: **SOIL**

Evaluation: ✖ = Quality Control frequency not within specification ; ✔ = Quality Control frequency within specification.

Quality Control Sample Type	Method	Count		Rate (%)			Quality Control Specification
		QC	Regular	Actual	Expected	Evaluation	
Matrix Spikes (MS) - Continued							
Total Mercury by FIMS	EG035T	5	87	5.75	5.00	✔	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	5	87	5.75	5.00	✔	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	3	43	6.98	5.00	✔	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	3	44	6.82	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).
Asbestos Identification in Soils	EA200	SOIL	AS 4964 Method for the qualitative identification of asbestos in bulk samples Analysis by Polarised Light Microscopy including dispersion staining
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 (SnCl ₂) (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 SnCl ₂ 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)
Polychlorinated Biphenyls (PCB)	EP066	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 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.
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	SOIL	In-house: Analysis of soils by solvent extraction followed by LC-Electrospray-MS-MS, Negative Mode using MRM using internal standard quantitation. Isotopically labelled analogues of target analytes used as internal standards and surrogates are added to a portion of soil which is then extracted with MTBE and an ion pairing reagent. A portion of extract is exchanged into the analytical solvent mixture, combined with an equal volume reagent water and filtered for analysis. Method procedures and data quality objectives conform to US DoD QSM 5.3, table B-15 requirements.



<i>Analytical Methods</i>	<i>Method</i>	<i>Matrix</i>	<i>Method Descriptions</i>
Asbestos Identification in Bulk Solids	EA200	SOLID	In house: Referenced to AS 4964 Method for the qualitative identification of asbestos in bulk samples Analysis by Polarised Light Microscopy including dispersion staining
<i>Preparation Methods</i>	<i>Method</i>	<i>Matrix</i>	<i>Method Descriptions</i>
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, Na ₂ SO ₄ 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.
QuEChERS Extraction of Solids	ORG71	SOIL	In house: Sequential extractions with Acetonitrile/Methanol by shaking. Extraction efficiency aided by the addition of salts under acidic conditions. Where relevant, interferences from co-extracted organics are removed with dispersive clean-up media (dSPE). The extract is either diluted or concentrated and exchanged into the analytical solvent.



CHAIN OF CUSTODY

ALS Laboratory, please tick →

Sydney: 277 Wondree Rd, Sandfield NSW 2176
 Ph: 02 9746 8500, Fax: 02 9746 8501, Email: enquiries@als.com.au
 Newcastle: 5 Riverside Rd, Merewether NSW 2304
 Ph: 02 4958 9433, Fax: 02 4958 9434, Email: newcastle@als.com.au

Brisbane: 12 Shrewsbury St, St. Lawrence QLD 4053
 Ph: 07 5241 7722, Fax: 07 5241 7723, Email: brisbane@als.com.au
 Adelaide: 2-11 Berry Rd, Parafield SA 5046
 Ph: 08 8389 8690, Email: adelaide@als.com.au

Perth: 10 RoadView, Malaga WA 6090
 Ph: 08 9296 7655, Email: perth@als.com.au
 Launceston: 27 Wellington St, Launceston TAS 7250
 Ph: 03 6331 2158, Email: launceston@als.com.au



CLIENT: Environmental Advisors Pty Ltd
OFFICE: Sunshine Coast
PROJECT: 125 NSC LAKE McDONALD DVE, COOROY
ORDER NUMBER:
PROJECT MANAGER: Andrew Winters
SAMPLER: Andrew Winters
COC emailed to ALS? Yes
Email Reports to (will default to PM if no other addresses are listed): andrew@environmentaladvisors.com.au
Email Invoice to (will default to PM if no other addresses are listed): admin@environmentaladvisors.com.au

TURNAROUND REQUIREMENTS: Standard TAT (List due date): 4 March 24
 Non Standard or urgent TAT (List due date):
ALS QUOTE NO.: EB23ENVADV0001 V2
CONTACT PH: 0408 682 747
SAMPLER MOBILE: 0408 682 747
EDD FORMAT: Default
RECEIVED BY: Andrew Winters
DATE/TIME: 24/2/24

FOR LABORATORY USE ONLY (Circle)
 Curbody Seal Intact? Yes No N/A
 Free low / frozen ice bricks present upon receipt? Yes No N/A
 Random Sample Temperature on Receipt: °C
 Other comment:
RECEIVED BY: [Signature]
DATE/TIME: 28/2/24 1:30p

RELINQUISHED BY: [Signature]
DATE/TIME: 27/2

COC SEQUENCE NUMBER: 15 of 15

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

ALS USE ONLY	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL CONTAINERS	ANALYSIS REQUIRED including SUITES (NB: Suite Codes must be listed to attract suite price) <small>Where Metals are required, specify Total (unfiltered bottles required) or Disolved (leak filtered bottle required).</small>	Additional Information
D11		22/02/2024	Soil	Jar	1	S-02 (8 Metals) x S-16 (TRH/BTEXN/PAH OC/OP/PCB/8 metals) x EA200G Asbestos (presence/absence in soil/bulk sample) S-05 (TRH/BTEXN/8 metals) x EP231 (PFAS Short Suite) x EP075 (SVOC) x S-18 TRH(c6-c10)/BTEXN	<div style="border: 2px solid black; padding: 10px; text-align: center; font-size: 2em; font-weight: bold;">TAT</div>
D12		22/02/2024	Soil	Jar	1	S-02 (8 Metals) x	
D13		22/02/2024	Soil	Jar	1	S-02 (8 Metals) x	
D14		19/02/2024	Soil	Jar	1	S-02 (8 Metals) x	
D15		19/02/2024	Soil	Jar	1	S-02 (8 Metals) x	
D16		20/02/2024	Soil	Jar + PFAS	2	S-02 (8 Metals) x S-16 (TRH/BTEXN/PAH OC/OP/PCB/8 metals) x EA200G Asbestos (presence/absence in soil/bulk sample) S-05 (TRH/BTEXN/8 metals) x EP231 (PFAS Short Suite) x EP075 (SVOC) x S-18 TRH(c6-c10)/BTEXN	
D17		21/02/2024	Soil	Jar + PFAS	2	S-02 (8 Metals) x S-16 (TRH/BTEXN/PAH OC/OP/PCB/8 metals) x EA200G Asbestos (presence/absence in soil/bulk sample) S-05 (TRH/BTEXN/8 metals) x EP231 (PFAS Short Suite) x EP075 (SVOC) x S-18 TRH(c6-c10)/BTEXN	
D18		21/02/2024	Soil	Jar	1	S-02 (8 Metals) x	
D19		22/02/2024	Soil	Jar	1	S-02 (8 Metals) x	
D20		22/02/2024	Soil	Jar	1	S-02 (8 Metals) x	
D21		22/02/2024	Soil	Jar	1	S-02 (8 Metals) x	
TOTAL					13	6 2 0 3 1	

Environmental Division
Sydney
Work Order Reference
ES2406465

Telephone: + 61-2-9764 8555

Water Container Codes: P = Unpreserved Plastic; N = Nitric Preserved Plastic; ORG = Nitric Preserved Plastic; S = Sodium Hydroxide Preserved Plastic; AG = Amber Glass Unpreserved; AP = Airfreight Unpreserved; V = VOA Vial HCl Preserved; VB = VOA Vial Sodium Bisphosphate Preserved; VS = VOA Vial Sulfuric Preserved; AV = Airfreight Unpreserved Vial; SG = Sulfuric Preserved Amber Glass; H = HCl Preserved Plastic; HS = HCl Preserved Speciation Bottle; Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bag for Acid Sulphate Solids; B = Unpreserved Bag.



SAMPLE RECEIPT NOTIFICATION (SRN)

Work Order : **ES2406465**

Client	: ENVIRONMENTAL ADVISORS	Laboratory	: Environmental Division Sydney
Contact	: ANDREW WINTERS	Contact	: Customer Services ES
Address	: 168 FLAXTON DRIVE MAPLETON 4560	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
E-mail	: andrew@environmentaladvisors.com.au	E-mail	: ALSEnviro.Sydney@ALSGlobal.com
Telephone	: ----	Telephone	: +61-2-8784 8555
Facsimile	: ----	Facsimile	: +61-2-8784 8500
Project	: 125 NSC LAKE McDONALD DVE, COOROY	Page	: 1 of 2
Order number	: ----	Quote number	: EB2023ENVADV0001 (EB23ENVADV0001 V2)
C-O-C number	: 15 of 15	QC Level	: NEPM 2013 B3 & ALS QC Standard
Site	: ----		
Sampler	: ANDREW WINTERS		

Dates

Date Samples Received	: 28-Feb-2024 13:30	Issue Date	: 28-Feb-2024
Client Requested Due Date	: 04-Mar-2024	Scheduled Reporting Date	: 04-Mar-2024

Delivery Details

Mode of Delivery	: Carrier	Security Seal	: Intact.
No. of coolers/boxes	: 1	Temperature	: 8.4°C - Ice present
Receipt Detail	: HARD ESKY	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 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.**
- **Sample(s) requiring volatile organic compound analysis received in airtight containers (ZHE).**
- Please direct any queries you have regarding this work order to the above ALS laboratory contact.
- Analytical work for this work order will be conducted at ALS Sydney.
- Sample Disposal - Aqueous (3 weeks), Solid (2 months ± 1 week) from receipt of samples.
- 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	SOIL - EA055-103 Moisture Content	SOIL - EP231 (solids) PFAS - Short Suite (12 analytes)	SOIL - S-02 8 Metals (incl. Digestion)	SOIL - S-05 TRH/BTEXN/8 Metals	SOIL - S-16 TRH/BTEXN/PAH/OC/OP/PCB/8Metals
ES2406465-001	19-Feb-2024 00:00	T1	✓		✓		
ES2406465-002	19-Feb-2024 00:00	T2	✓		✓		
ES2406465-003	20-Feb-2024 00:00	T3	✓	✓	✓		
ES2406465-004	21-Feb-2024 00:00	T4	✓				✓
ES2406465-005	21-Feb-2024 00:00	T5	✓		✓		
ES2406465-006	22-Feb-2024 00:00	T6	✓			✓	
ES2406465-007	22-Feb-2024 00:00	T7	✓				✓
ES2406465-008	22-Feb-2024 00:00	T8	✓			✓	

Proactive Holding Time Report

Sample(s) have been received within the recommended holding times for the requested analysis.

Requested Deliverables

ALL INVOICES

- A4 - AU Tax Invoice (INV) Email admin@environmentaladvisors.com.au

ANDREW WINTERS

- *AU Certificate of Analysis - NATA (COA) Email andrew@environmentaladvisors.com.au
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI) Email andrew@environmentaladvisors.com.au
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC) Email andrew@environmentaladvisors.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN) Email andrew@environmentaladvisors.com.au
- Chain of Custody (CoC) (COC) Email andrew@environmentaladvisors.com.au
- EDI Format - XTab (XTAB) Email andrew@environmentaladvisors.com.au



CERTIFICATE OF ANALYSIS

Work Order : **ES2406465**
Client : **ENVIRONMENTAL ADVISORS**
Contact : ANDREW WINTERS
Address : 168 FLAXTON DRIVE
MAPLETON 4560
Telephone : ----
Project : 125 NSC LAKE McDONALD DVE, COOROY
Order number : ----
C-O-C number : 15 of 15
Sampler : ANDREW WINTERS
Site : ----
Quote number : EB23ENVADV0001 V2
No. of samples received : 8
No. of samples analysed : 8

Page : 1 of 14
Laboratory : Environmental Division Sydney
Contact : Customer Services ES
Address : 277-289 Woodpark Road Smithfield NSW Australia 2164
Telephone : +61-2-8784 8555
Date Samples Received : 28-Feb-2024 13:30
Date Analysis Commenced : 28-Feb-2024
Issue Date : 04-Mar-2024 13:36



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.

<i>Signatories</i>	<i>Position</i>	<i>Accreditation Category</i>
Ankit Joshi	Senior Chemist - Inorganics	Sydney Inorganics, Smithfield, NSW
Edwandy Fadjjar	Organic Coordinator	Sydney Organics, Smithfield, NSW
Franco Lentini	LCMS Coordinator	Sydney Inorganics, Smithfield, NSW
Franco Lentini	LCMS Coordinator	Sydney Organics, Smithfield, NSW



General Comments

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

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

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

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contract for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting
ø = ALS is not NATA accredited for these tests.
~ = Indicates an estimated value.

- Benzo(a)pyrene Toxicity Equivalent Quotient (TEQ) per the NEPM (2013) is the sum total of the concentration of the eight carcinogenic PAHs multiplied by their Toxicity Equivalence Factor (TEF) relative to Benzo(a)pyrene. TEF values are provided in brackets as follows: Benz(a)anthracene (0.1), Chrysene (0.01), Benzo(b+j) & Benzo(k)fluoranthene (0.1), Benzo(a)pyrene (1.0), Indeno(1.2.3.cd)pyrene (0.1), Dibenz(a,h)anthracene (1.0), Benzo(g,h,i)perylene (0.01). Less than LOR results for 'TEQ Zero' are treated as zero, for 'TEQ 1/2LOR' are treated as half the reported LOR, and for 'TEQ LOR' are treated as being equal to the reported LOR. Note: TEQ 1/2LOR and TEQ LOR will calculate as 0.6mg/Kg and 1.2mg/Kg respectively for samples with non-detects for all of the eight TEQ PAHs.
- EP080: Where reported, Total Xylenes is the sum of the reported concentrations of m&p-Xylene and o-Xylene at or above the LOR.
- EP068: Where reported, Total Chlordane (sum) is the sum of the reported concentrations of cis-Chlordane and trans-Chlordane at or above the LOR.
- EP068: Where reported, Total OCP is the sum of the reported concentrations of all Organochlorine Pesticides at or above LOR.
- EP075(SIM): Where reported, Total Cresol is the sum of the reported concentrations of 2-Methylphenol and 3- & 4-Methylphenol at or above the LOR.
- EP231: Stable isotope enriched internal standards are added to samples prior to extraction. Target compounds have a direct analogous internal standard with the exception of PFPeS, PFHpA, PFDS, PFTrDA and 10:2 FTS. These compounds use an internal standard that is chemically related and has a retention time close to that of the target compound. The DQO for internal standard response is 50-150% of that established at initial calibration. PFOS is quantified using a certified, traceable standard consisting of linear and branched PFOS isomers. These practices are in line with recommendations in the National Environmental Management Plan for PFAS (Australian HEPA) and also conform to QSM 5.3 (US DoD) requirements.



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	T1	T2	T3	T4	T5
Sampling date / time					19-Feb-2024 00:00	19-Feb-2024 00:00	20-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00
Compound	CAS Number	LOR	Unit	ES2406465-001	ES2406465-002	ES2406465-003	ES2406465-004	ES2406465-005	
				Result	Result	Result	Result	Result	
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	1.0	%	14.3	15.9	8.5	18.2	21.3	
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	42	49	4	10	16	
Copper	7440-50-8	5	mg/kg	<5	<5	<5	<5	<5	
Lead	7439-92-1	5	mg/kg	6	9	5	19	20	
Nickel	7440-02-0	2	mg/kg	4	2	<2	<2	<2	
Zinc	7440-66-6	5	mg/kg	<5	<5	<5	44	85	
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	
EP066: Polychlorinated Biphenyls (PCB)									
Total Polychlorinated biphenyls	----	0.1	mg/kg	----	----	----	<0.1	----	
EP068A: Organochlorine Pesticides (OC)									
alpha-BHC	319-84-6	0.05	mg/kg	----	----	----	<0.05	----	
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	----	----	----	<0.05	----	
beta-BHC	319-85-7	0.05	mg/kg	----	----	----	<0.05	----	
gamma-BHC	58-89-9	0.05	mg/kg	----	----	----	<0.05	----	
delta-BHC	319-86-8	0.05	mg/kg	----	----	----	<0.05	----	
Heptachlor	76-44-8	0.05	mg/kg	----	----	----	<0.05	----	
Aldrin	309-00-2	0.05	mg/kg	----	----	----	<0.05	----	
Heptachlor epoxide	1024-57-3	0.05	mg/kg	----	----	----	<0.05	----	
^ Total Chlordane (sum)	----	0.05	mg/kg	----	----	----	<0.05	----	
trans-Chlordane	5103-74-2	0.05	mg/kg	----	----	----	<0.05	----	
alpha-Endosulfan	959-98-8	0.05	mg/kg	----	----	----	<0.05	----	
cis-Chlordane	5103-71-9	0.05	mg/kg	----	----	----	<0.05	----	
Dieldrin	60-57-1	0.05	mg/kg	----	----	----	<0.05	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	T1	T2	T3	T4	T5
Sampling date / time					19-Feb-2024 00:00	19-Feb-2024 00:00	20-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		ES2406465-001	ES2406465-002	ES2406465-003	ES2406465-004	ES2406465-005
					Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued									
4.4'-DDE	72-55-9	0.05	mg/kg		----	----	----	<0.05	----
Endrin	72-20-8	0.05	mg/kg		----	----	----	<0.05	----
beta-Endosulfan	33213-65-9	0.05	mg/kg		----	----	----	<0.05	----
[^] Endosulfan (sum)	115-29-7	0.05	mg/kg		----	----	----	<0.05	----
4.4'-DDD	72-54-8	0.05	mg/kg		----	----	----	<0.05	----
Endrin aldehyde	7421-93-4	0.05	mg/kg		----	----	----	<0.05	----
Endosulfan sulfate	1031-07-8	0.05	mg/kg		----	----	----	<0.05	----
4.4'-DDT	50-29-3	0.2	mg/kg		----	----	----	<0.2	----
Endrin ketone	53494-70-5	0.05	mg/kg		----	----	----	<0.05	----
Methoxychlor	72-43-5	0.2	mg/kg		----	----	----	<0.2	----
[^] Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg		----	----	----	<0.05	----
[^] Sum of DDD + DDE + DDT	72-54-8/72-55-9/5-0-2	0.05	mg/kg		----	----	----	<0.05	----
EP068B: Organophosphorus Pesticides (OP)									
Dichlorvos	62-73-7	0.05	mg/kg		----	----	----	<0.05	----
Demeton-S-methyl	919-86-8	0.05	mg/kg		----	----	----	<0.05	----
Monocrotophos	6923-22-4	0.2	mg/kg		----	----	----	<0.2	----
Dimethoate	60-51-5	0.05	mg/kg		----	----	----	<0.05	----
Diazinon	333-41-5	0.05	mg/kg		----	----	----	<0.05	----
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg		----	----	----	<0.05	----
Parathion-methyl	298-00-0	0.2	mg/kg		----	----	----	<0.2	----
Malathion	121-75-5	0.05	mg/kg		----	----	----	<0.05	----
Fenthion	55-38-9	0.05	mg/kg		----	----	----	<0.05	----
Chlorpyrifos	2921-88-2	0.05	mg/kg		----	----	----	<0.05	----
Parathion	56-38-2	0.2	mg/kg		----	----	----	<0.2	----
Pirimphos-ethyl	23505-41-1	0.05	mg/kg		----	----	----	<0.05	----
Chlorfenvinphos	470-90-6	0.05	mg/kg		----	----	----	<0.05	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	T1	T2	T3	T4	T5
Sampling date / time					19-Feb-2024 00:00	19-Feb-2024 00:00	20-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00
Compound	CAS Number	LOR	Unit	ES2406465-001	ES2406465-002	ES2406465-003	ES2406465-004	ES2406465-005	
				Result	Result	Result	Result	Result	
EP068B: Organophosphorus Pesticides (OP) - Continued									
Bromophos-ethyl	4824-78-6	0.05	mg/kg	----	----	----	<0.05	----	
Fenamiphos	22224-92-6	0.05	mg/kg	----	----	----	<0.05	----	
Prothiofos	34643-46-4	0.05	mg/kg	----	----	----	<0.05	----	
Ethion	563-12-2	0.05	mg/kg	----	----	----	<0.05	----	
Carbophenothion	786-19-6	0.05	mg/kg	----	----	----	<0.05	----	
Azinphos Methyl	86-50-0	0.05	mg/kg	----	----	----	<0.05	----	
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	0.5	mg/kg	----	----	----	<0.5	----	
Acenaphthylene	208-96-8	0.5	mg/kg	----	----	----	<0.5	----	
Acenaphthene	83-32-9	0.5	mg/kg	----	----	----	<0.5	----	
Fluorene	86-73-7	0.5	mg/kg	----	----	----	<0.5	----	
Phenanthrene	85-01-8	0.5	mg/kg	----	----	----	<0.5	----	
Anthracene	120-12-7	0.5	mg/kg	----	----	----	<0.5	----	
Fluoranthene	206-44-0	0.5	mg/kg	----	----	----	<0.5	----	
Pyrene	129-00-0	0.5	mg/kg	----	----	----	<0.5	----	
Benzo(a)anthracene	56-55-3	0.5	mg/kg	----	----	----	<0.5	----	
Chrysene	218-01-9	0.5	mg/kg	----	----	----	<0.5	----	
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	----	----	----	<0.5	----	
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	----	----	----	<0.5	----	
Benzo(a)pyrene	50-32-8	0.5	mg/kg	----	----	----	<0.5	----	
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	----	----	----	<0.5	----	
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	----	----	----	<0.5	----	
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	----	----	----	<0.5	----	
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	----	----	----	<0.5	----	
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	----	----	----	<0.5	----	
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	----	----	----	0.6	----	
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	----	----	----	1.2	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	T1	T2	T3	T4	T5
Sampling date / time					19-Feb-2024 00:00	19-Feb-2024 00:00	20-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		ES2406465-001	ES2406465-002	ES2406465-003	ES2406465-004	ES2406465-005
					Result	Result	Result	Result	Result
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	10	mg/kg		----	----	----	<10	----
C10 - C14 Fraction	----	50	mg/kg		----	----	----	<50	----
C15 - C28 Fraction	----	100	mg/kg		----	----	----	<100	----
C29 - C36 Fraction	----	100	mg/kg		----	----	----	<100	----
[^] C10 - C36 Fraction (sum)	----	50	mg/kg		----	----	----	<50	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg		----	----	----	<10	----
[^] C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg		----	----	----	<10	----
>C10 - C16 Fraction	----	50	mg/kg		----	----	----	<50	----
>C16 - C34 Fraction	----	100	mg/kg		----	----	----	<100	----
>C34 - C40 Fraction	----	100	mg/kg		----	----	----	<100	----
[^] >C10 - C40 Fraction (sum)	----	50	mg/kg		----	----	----	<50	----
[^] >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg		----	----	----	<50	----
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg		----	----	----	<0.2	----
Toluene	108-88-3	0.5	mg/kg		----	----	----	<0.5	----
Ethylbenzene	100-41-4	0.5	mg/kg		----	----	----	<0.5	----
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		----	----	----	<0.5	----
ortho-Xylene	95-47-6	0.5	mg/kg		----	----	----	<0.5	----
[^] Sum of BTEX	----	0.2	mg/kg		----	----	----	<0.2	----
[^] Total Xylenes	----	0.5	mg/kg		----	----	----	<0.5	----
Naphthalene	91-20-3	1	mg/kg		----	----	----	<1	----
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg		----	----	<0.0002	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg		----	----	<0.0002	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	T1	T2	T3	T4	T5
Sampling date / time					19-Feb-2024 00:00	19-Feb-2024 00:00	20-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00
Compound	CAS Number	LOR	Unit	ES2406465-001	ES2406465-002	ES2406465-003	ES2406465-004	ES2406465-005	
				Result	Result	Result	Result	Result	
EP231A: Perfluoroalkyl Sulfonic Acids - Continued									
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	----	----	<0.0002	----	----	
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	----	----	<0.001	----	----	
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	----	----	<0.0002	----	----	
Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	----	----	<0.0002	----	----	
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	----	----	<0.0002	----	----	
Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	----	----	<0.0002	----	----	
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	----	----	<0.0005	----	----	
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	----	----	<0.0005	----	----	
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	----	----	<0.0005	----	----	
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	----	----	<0.0005	----	----	
EP231P: PFAS Sums									
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg	----	----	<0.0002	----	----	
Sum of PFAS (WA DER List)	----	0.0002	mg/kg	----	----	<0.0002	----	----	
EP066S: PCB Surrogate									
Decachlorobiphenyl	2051-24-3	0.1	%	----	----	----	116	----	
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.05	%	----	----	----	110	----	
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.05	%	----	----	----	53.1	----	
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	0.5	%	----	----	----	86.2	----	
2-Chlorophenol-D4	93951-73-6	0.5	%	----	----	----	85.1	----	
2,4,6-Tribromophenol	118-79-6	0.5	%	----	----	----	90.4	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	T1	T2	T3	T4	T5
Sampling date / time					19-Feb-2024 00:00	19-Feb-2024 00:00	20-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		ES2406465-001	ES2406465-002	ES2406465-003	ES2406465-004	ES2406465-005
					Result	Result	Result	Result	Result
EP075(SIM)S: Phenolic Compound Surrogates - Continued									
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	0.5	%		----	----	----	86.9	----
Anthracene-d10	1719-06-8	0.5	%		----	----	----	95.8	----
4-Terphenyl-d14	1718-51-0	0.5	%		----	----	----	86.4	----
EP080S: TPH(V)/BTEX Surrogates									
1,2-Dichloroethane-D4	17060-07-0	0.2	%		----	----	----	87.5	----
Toluene-D8	2037-26-5	0.2	%		----	----	----	88.9	----
4-Bromofluorobenzene	460-00-4	0.2	%		----	----	----	102	----
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.0002	%		----	----	101	----	----
13C8-PFOA	----	0.0002	%		----	----	102	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	T6	T7	T8	----	----
Sampling date / time					22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	----	----
Compound	CAS Number	LOR	Unit		ES2406465-006	ES2406465-007	ES2406465-008	-----	-----
					Result	Result	Result	----	----
EA055: Moisture Content									
Moisture Content	----	1.0	%		17.0	----	15.5	----	----
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	1.0	%		----	13.2	----	----	----
EG005(ED093)T: Total Metals by ICP-AES									
Arsenic	7440-38-2	5	mg/kg		<5	6	10	----	----
Cadmium	7440-43-9	1	mg/kg		<1	<1	<1	----	----
Chromium	7440-47-3	2	mg/kg		22	21	54	----	----
Copper	7440-50-8	5	mg/kg		<5	<5	<5	----	----
Lead	7439-92-1	5	mg/kg		9	14	7	----	----
Nickel	7440-02-0	2	mg/kg		<2	<2	<2	----	----
Zinc	7440-66-6	5	mg/kg		<5	<5	6	----	----
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.1	mg/kg		<0.1	<0.1	<0.1	----	----
EP066: Polychlorinated Biphenyls (PCB)									
Total Polychlorinated biphenyls	----	0.1	mg/kg		----	<0.1	----	----	----
EP068A: Organochlorine Pesticides (OC)									
alpha-BHC	319-84-6	0.05	mg/kg		----	<0.05	----	----	----
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg		----	<0.05	----	----	----
beta-BHC	319-85-7	0.05	mg/kg		----	<0.05	----	----	----
gamma-BHC	58-89-9	0.05	mg/kg		----	<0.05	----	----	----
delta-BHC	319-86-8	0.05	mg/kg		----	<0.05	----	----	----
Heptachlor	76-44-8	0.05	mg/kg		----	<0.05	----	----	----
Aldrin	309-00-2	0.05	mg/kg		----	<0.05	----	----	----
Heptachlor epoxide	1024-57-3	0.05	mg/kg		----	<0.05	----	----	----
^ Total Chlordane (sum)	----	0.05	mg/kg		----	<0.05	----	----	----
trans-Chlordane	5103-74-2	0.05	mg/kg		----	<0.05	----	----	----
alpha-Endosulfan	959-98-8	0.05	mg/kg		----	<0.05	----	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	T6	T7	T8	----	----
Sampling date / time					22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	----	----
Compound	CAS Number	LOR	Unit		ES2406465-006	ES2406465-007	ES2406465-008	-----	-----
					Result	Result	Result	----	----
EP068A: Organochlorine Pesticides (OC) - Continued									
cis-Chlordane	5103-71-9	0.05	mg/kg		----	<0.05	----	----	----
Dieldrin	60-57-1	0.05	mg/kg		----	<0.05	----	----	----
4,4'-DDE	72-55-9	0.05	mg/kg		----	<0.05	----	----	----
Endrin	72-20-8	0.05	mg/kg		----	<0.05	----	----	----
beta-Endosulfan	33213-65-9	0.05	mg/kg		----	<0.05	----	----	----
[^] Endosulfan (sum)	115-29-7	0.05	mg/kg		----	<0.05	----	----	----
4,4'-DDD	72-54-8	0.05	mg/kg		----	<0.05	----	----	----
Endrin aldehyde	7421-93-4	0.05	mg/kg		----	<0.05	----	----	----
Endosulfan sulfate	1031-07-8	0.05	mg/kg		----	<0.05	----	----	----
4,4'-DDT	50-29-3	0.2	mg/kg		----	<0.2	----	----	----
Endrin ketone	53494-70-5	0.05	mg/kg		----	<0.05	----	----	----
Methoxychlor	72-43-5	0.2	mg/kg		----	<0.2	----	----	----
[^] Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg		----	<0.05	----	----	----
[^] Sum of DDD + DDE + DDT	72-54-8/72-55-9/5 0-2	0.05	mg/kg		----	<0.05	----	----	----
EP068B: Organophosphorus Pesticides (OP)									
Dichlorvos	62-73-7	0.05	mg/kg		----	<0.05	----	----	----
Demeton-S-methyl	919-86-8	0.05	mg/kg		----	<0.05	----	----	----
Monocrotophos	6923-22-4	0.2	mg/kg		----	<0.2	----	----	----
Dimethoate	60-51-5	0.05	mg/kg		----	<0.05	----	----	----
Diazinon	333-41-5	0.05	mg/kg		----	<0.05	----	----	----
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg		----	<0.05	----	----	----
Parathion-methyl	298-00-0	0.2	mg/kg		----	<0.2	----	----	----
Malathion	121-75-5	0.05	mg/kg		----	<0.05	----	----	----
Fenthion	55-38-9	0.05	mg/kg		----	<0.05	----	----	----
Chlorpyrifos	2921-88-2	0.05	mg/kg		----	<0.05	----	----	----
Parathion	56-38-2	0.2	mg/kg		----	<0.2	----	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	T6	T7	T8	----	----
Sampling date / time					22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	----	----
Compound	CAS Number	LOR	Unit		ES2406465-006	ES2406465-007	ES2406465-008	-----	-----
					Result	Result	Result	----	----
EP068B: Organophosphorus Pesticides (OP) - Continued									
Pirimphos-ethyl	23505-41-1	0.05	mg/kg		----	<0.05	----	----	----
Chlorfenvinphos	470-90-6	0.05	mg/kg		----	<0.05	----	----	----
Bromophos-ethyl	4824-78-6	0.05	mg/kg		----	<0.05	----	----	----
Fenamiphos	22224-92-6	0.05	mg/kg		----	<0.05	----	----	----
Prothiofos	34643-46-4	0.05	mg/kg		----	<0.05	----	----	----
Ethion	563-12-2	0.05	mg/kg		----	<0.05	----	----	----
Carbophenothion	786-19-6	0.05	mg/kg		----	<0.05	----	----	----
Azinphos Methyl	86-50-0	0.05	mg/kg		----	<0.05	----	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	0.5	mg/kg		----	<0.5	----	----	----
Acenaphthylene	208-96-8	0.5	mg/kg		----	<0.5	----	----	----
Acenaphthene	83-32-9	0.5	mg/kg		----	<0.5	----	----	----
Fluorene	86-73-7	0.5	mg/kg		----	<0.5	----	----	----
Phenanthrene	85-01-8	0.5	mg/kg		----	<0.5	----	----	----
Anthracene	120-12-7	0.5	mg/kg		----	<0.5	----	----	----
Fluoranthene	206-44-0	0.5	mg/kg		----	<0.5	----	----	----
Pyrene	129-00-0	0.5	mg/kg		----	<0.5	----	----	----
Benz(a)anthracene	56-55-3	0.5	mg/kg		----	<0.5	----	----	----
Chrysene	218-01-9	0.5	mg/kg		----	<0.5	----	----	----
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg		----	<0.5	----	----	----
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg		----	<0.5	----	----	----
Benzo(a)pyrene	50-32-8	0.5	mg/kg		----	<0.5	----	----	----
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg		----	<0.5	----	----	----
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg		----	<0.5	----	----	----
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg		----	<0.5	----	----	----
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg		----	<0.5	----	----	----
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg		----	<0.5	----	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	T6	T7	T8	----	----
Sampling date / time					22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	----	----
Compound	CAS Number	LOR	Unit		ES2406465-006	ES2406465-007	ES2406465-008	-----	-----
					Result	Result	Result	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued									
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg		----	0.6	----	----	----
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg		----	1.2	----	----	----
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	10	mg/kg		<10	<10	<10	----	----
C10 - C14 Fraction	----	50	mg/kg		<50	<50	<50	----	----
C15 - C28 Fraction	----	100	mg/kg		<100	<100	<100	----	----
C29 - C36 Fraction	----	100	mg/kg		<100	<100	<100	----	----
^ C10 - C36 Fraction (sum)	----	50	mg/kg		<50	<50	<50	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg		<10	<10	<10	----	----
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg		<10	<10	<10	----	----
>C10 - C16 Fraction	----	50	mg/kg		<50	<50	<50	----	----
>C16 - C34 Fraction	----	100	mg/kg		<100	<100	<100	----	----
>C34 - C40 Fraction	----	100	mg/kg		<100	<100	<100	----	----
^ >C10 - C40 Fraction (sum)	----	50	mg/kg		<50	<50	<50	----	----
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg		<50	<50	<50	----	----
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg		<0.2	<0.2	<0.2	----	----
Toluene	108-88-3	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Ethylbenzene	100-41-4	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
ortho-Xylene	95-47-6	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
^ Sum of BTEX	----	0.2	mg/kg		<0.2	<0.2	<0.2	----	----
^ Total Xylenes	----	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Naphthalene	91-20-3	1	mg/kg		<1	<1	<1	----	----
EP066S: PCB Surrogate									



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	T6	T7	T8	----	----
Sampling date / time				22-Feb-2024 00:00	22-Feb-2024 00:00	22-Feb-2024 00:00	----	----	
Compound	CAS Number	LOR	Unit	ES2406465-006	ES2406465-007	ES2406465-008	-----	-----	
				Result	Result	Result	----	----	
EP066S: PCB Surrogate - Continued									
Decachlorobiphenyl	2051-24-3	0.1	%	----	114	----	----	----	
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.05	%	----	96.5	----	----	----	
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.05	%	----	51.7	----	----	----	
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	0.5	%	----	83.8	----	----	----	
2-Chlorophenol-D4	93951-73-6	0.5	%	----	83.8	----	----	----	
2.4.6-Tribromophenol	118-79-6	0.5	%	----	87.0	----	----	----	
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	0.5	%	----	85.9	----	----	----	
Anthracene-d10	1719-06-8	0.5	%	----	94.6	----	----	----	
4-Terphenyl-d14	1718-51-0	0.5	%	----	84.5	----	----	----	
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	0.2	%	64.3	77.6	70.1	----	----	
Toluene-D8	2037-26-5	0.2	%	68.9	76.4	71.6	----	----	
4-Bromofluorobenzene	460-00-4	0.2	%	71.2	84.4	80.3	----	----	



Surrogate Control Limits

Sub-Matrix: SOIL		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP066S: PCB Surrogate			
Decachlorobiphenyl	2051-24-3	39	149
EP068S: Organochlorine Pesticide Surrogate			
Dibromo-DDE	21655-73-2	49	147
EP068T: Organophosphorus Pesticide Surrogate			
DEF	78-48-8	35	143
EP075(SIM)S: Phenolic Compound Surrogates			
Phenol-d6	13127-88-3	63	123
2-Chlorophenol-D4	93951-73-6	66	122
2,4,6-Tribromophenol	118-79-6	40	138
EP075(SIM)T: PAH Surrogates			
2-Fluorobiphenyl	321-60-8	70	122
Anthracene-d10	1719-06-8	66	128
4-Terphenyl-d14	1718-51-0	65	129
EP080S: TPH(V)/BTEX Surrogates			
1,2-Dichloroethane-D4	17060-07-0	63	125
Toluene-D8	2037-26-5	67	124
4-Bromofluorobenzene	460-00-4	66	131
EP231S: PFAS Surrogate			
13C4-PFOS	----	60	120
13C8-PFOA	----	60	120



QUALITY CONTROL REPORT

Work Order	: ES2406465	Page	: 1 of 11
Client	: ENVIRONMENTAL ADVISORS	Laboratory	: Environmental Division Sydney
Contact	: ANDREW WINTERS	Contact	: Customer Services ES
Address	: 168 FLAXTON DRIVE MAPLETON 4560	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
Telephone	: ----	Telephone	: +61-2-8784 8555
Project	: 125 NSC LAKE McDONALD DVE, COOROY	Date Samples Received	: 28-Feb-2024
Order number	: ----	Date Analysis Commenced	: 28-Feb-2024
C-O-C number	: 15 of 15	Issue Date	: 04-Mar-2024
Sampler	: ANDREW WINTERS		
Site	: ----		
Quote number	: EB23ENVADV0001 V2		
No. of samples received	: 8		
No. of samples analysed	: 8		



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
Ankit Joshi	Senior Chemist - Inorganics	Sydney Inorganics, Smithfield, NSW
Edwandy Fadjar	Organic Coordinator	Sydney Organics, Smithfield, NSW
Franco Lentini	LCMS Coordinator	Sydney Inorganics, Smithfield, NSW
Franco Lentini	LCMS Coordinator	Sydney Organics, Smithfield, NSW



General Comments

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

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

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis. Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

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: 5633361)									
ES2404940-001	Anonymous	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
		EG005T: Zinc	7440-66-6	5	mg/kg	156	155	0.0	0% - 20%
ES2406465-005	T5	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	16	20	20.2	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	20	17	15.7	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	85	98	14.2	0% - 50%
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 5633369)									
ES2406440-004	Anonymous	EA055: Moisture Content	----	0.1 (1.0)*	%	10.4	12.1	15.6	0% - 50%
ES2406465-008	T8	EA055: Moisture Content	----	0.1 (1.0)*	%	15.5	18.0	14.9	0% - 50%
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 5633362)									
ES2404940-001	Anonymous	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
ES2406465-005	T5	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	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 (%)
EP066: Polychlorinated Biphenyls (PCB) (QC Lot: 5630465)									
ES2406444-001	Anonymous	EP066: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EP068A: Organochlorine Pesticides (OC) (QC Lot: 5630464)									
ES2406444-001	Anonymous	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	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: 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: 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: 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: 5630464)									
ES2406444-001	Anonymous	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



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: 5630464) - continued									
ES2406444-001	Anonymous	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: 5630462)									
ES2406444-001	Anonymous	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	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
		EP075(SIM): Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 5630463)									
ES2406444-001	Anonymous	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 Petroleum Hydrocarbons (QC Lot: 5630613)									
ES2406280-001	Anonymous	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
ES2406444-001	Anonymous	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 5630463)									
ES2406444-001	Anonymous	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



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 (%)	
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 5630463) - continued										
ES2406444-001	Anonymous	EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit	
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 5630613)										
ES2406280-001	Anonymous	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.0	No Limit	
ES2406444-001	Anonymous	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.0	No Limit	
EP080: BTEXN (QC Lot: 5630613)										
ES2406280-001	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	0.5	mg/kg	<0.5	<0.5	0.0	No Limit	
			106-42-3							
			95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit	
ES2406444-001	Anonymous	EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit	
		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	0.5	mg/kg	<0.5	<0.5	0.0	No Limit	
			106-42-3							
	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit			
	91-20-3	1	mg/kg	<1	<1	0.0	No Limit			
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 5634686)										
ES2406465-003	T3	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit	
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit	
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit	
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 5634686)										
ES2406465-003	T3	EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit	
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit	
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit	
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit	
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	<0.001	0.0	No Limit	
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 5634686)										
ES2406465-003	T3	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit	
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit	
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit	
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	<0.0005	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: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
				Result	Spike Concentration	Spike Recovery (%) LCS	Acceptable Limits (%) Low	High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 5633361)								
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	121.1 mg/kg	92.6	88.0	113
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	0.74 mg/kg	99.6	70.0	130
EG005T: Chromium	7440-47-3	2	mg/kg	<2	19.6 mg/kg	119	68.0	132
EG005T: Copper	7440-50-8	5	mg/kg	<5	52.9 mg/kg	98.2	89.0	111
EG005T: Lead	7439-92-1	5	mg/kg	<5	60.8 mg/kg	96.6	82.0	119
EG005T: Nickel	7440-02-0	2	mg/kg	<2	15.3 mg/kg	92.2	80.0	120
EG005T: Zinc	7440-66-6	5	mg/kg	<5	139.3 mg/kg	85.7	66.0	133
EG035T: Total Recoverable Mercury by FIMS (QCLot: 5633362)								
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.087 mg/kg	98.0	70.0	125
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 5630465)								
EP066: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	1 mg/kg	102	62.0	126
EP068A: Organochlorine Pesticides (OC) (QCLot: 5630464)								
EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	0.5 mg/kg	105	69.0	113
EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	0.5 mg/kg	102	65.0	117
EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	0.5 mg/kg	94.0	67.0	119
EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	0.5 mg/kg	97.6	68.0	116
EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	0.5 mg/kg	92.8	65.0	117
EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	0.5 mg/kg	107	67.0	115
EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	0.5 mg/kg	106	69.0	115
EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	0.5 mg/kg	107	62.0	118
EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	0.5 mg/kg	106	63.0	117
EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	0.5 mg/kg	89.2	66.0	116
EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	0.5 mg/kg	105	64.0	116
EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	0.5 mg/kg	106	66.0	116
EP068: 4,4'-DDE	72-55-9	0.05	mg/kg	<0.05	0.5 mg/kg	108	67.0	115
EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	0.5 mg/kg	96.4	67.0	123
EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	0.5 mg/kg	90.2	69.0	115
EP068: 4,4'-DDD	72-54-8	0.05	mg/kg	<0.05	0.5 mg/kg	104	69.0	121
EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	0.5 mg/kg	103	56.0	120
EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	0.5 mg/kg	94.3	62.0	124



Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report				
				Result	Spike	Spike Recovery (%)		Acceptable Limits (%)	
					Concentration	LCS	Low	High	
EP068A: Organochlorine Pesticides (OC) (QCLot: 5630464) - continued									
EP068: 4,4'-DDT	50-29-3	0.2	mg/kg	<0.2	0.5 mg/kg	95.3	66.0	120	
EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	0.5 mg/kg	93.2	64.0	122	
EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	0.5 mg/kg	97.1	54.0	130	
EP068B: Organophosphorus Pesticides (OP) (QCLot: 5630464)									
EP068: Dichlorvos	62-73-7	0.05	mg/kg	<0.05	0.5 mg/kg	79.8	59.0	119	
EP068: Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	0.5 mg/kg	97.3	62.0	128	
EP068: Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	0.5 mg/kg	75.1	54.0	126	
EP068: Dimethoate	60-51-5	0.05	mg/kg	<0.05	0.5 mg/kg	96.5	67.0	119	
EP068: Diazinon	333-41-5	0.05	mg/kg	<0.05	0.5 mg/kg	97.8	70.0	120	
EP068: Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	0.5 mg/kg	102	72.0	120	
EP068: Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	0.5 mg/kg	104	68.0	120	
EP068: Malathion	121-75-5	0.05	mg/kg	<0.05	0.5 mg/kg	101	68.0	122	
EP068: Fenthion	55-38-9	0.05	mg/kg	<0.05	0.5 mg/kg	106	69.0	117	
EP068: Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	0.5 mg/kg	105	76.0	118	
EP068: Parathion	56-38-2	0.2	mg/kg	<0.2	0.5 mg/kg	103	64.0	122	
EP068: Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	0.5 mg/kg	108	70.0	116	
EP068: Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	0.5 mg/kg	105	69.0	121	
EP068: Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	0.5 mg/kg	106	66.0	118	
EP068: Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	0.5 mg/kg	104	68.0	124	
EP068: Prothiofos	34643-46-4	0.05	mg/kg	<0.05	0.5 mg/kg	99.1	62.0	112	
EP068: Ethion	563-12-2	0.05	mg/kg	<0.05	0.5 mg/kg	105	68.0	120	
EP068: Carbophenothion	786-19-6	0.05	mg/kg	<0.05	0.5 mg/kg	94.8	65.0	127	
EP068: Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	0.5 mg/kg	86.2	41.0	123	
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 5630462)									
EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	6 mg/kg	99.0	77.0	125	
EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	6 mg/kg	97.4	72.0	124	
EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	6 mg/kg	100	73.0	127	
EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	6 mg/kg	97.9	72.0	126	
EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	6 mg/kg	102	75.0	127	
EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	6 mg/kg	104	77.0	127	
EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	6 mg/kg	102	73.0	127	
EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	6 mg/kg	104	74.0	128	
EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	6 mg/kg	93.2	69.0	123	
EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	6 mg/kg	99.7	75.0	127	



Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report				
				Result	Spike	Spike Recovery (%)		Acceptable Limits (%)	
					Concentration	LCS	Low	High	
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 5630462) - continued									
EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	6 mg/kg	92.1	68.0	116	
EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	6 mg/kg	99.5	74.0	126	
EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	6 mg/kg	95.6	70.0	126	
EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	6 mg/kg	95.3	61.0	121	
EP075(SIM): Dibenz(a,h)anthracene	53-70-3	0.5	mg/kg	<0.5	6 mg/kg	95.7	62.0	118	
EP075(SIM): Benzo(g,h,i)perylene	191-24-2	0.5	mg/kg	<0.5	6 mg/kg	92.0	63.0	121	
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5630463)									
EP071: C10 - C14 Fraction	----	50	mg/kg	<50	300 mg/kg	99.7	75.0	129	
EP071: C15 - C28 Fraction	----	100	mg/kg	<100	450 mg/kg	102	77.0	131	
EP071: C29 - C36 Fraction	----	100	mg/kg	<100	300 mg/kg	99.2	71.0	129	
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5630613)									
EP080: C6 - C9 Fraction	----	10	mg/kg	<10	26 mg/kg	95.0	72.2	131	
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5630463)									
EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	375 mg/kg	103	77.0	125	
EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	525 mg/kg	100	74.0	138	
EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	225 mg/kg	96.5	63.0	131	
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5630613)									
EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	31 mg/kg	98.3	72.4	133	
EP080: BTEXN (QCLot: 5630613)									
EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	1 mg/kg	114	76.0	124	
EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	1 mg/kg	97.8	78.5	121	
EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	1 mg/kg	95.8	77.4	121	
EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	2 mg/kg	98.6	78.2	121	
EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	1 mg/kg	96.4	81.3	121	
EP080: Naphthalene	91-20-3	1	mg/kg	<1	1 mg/kg	105	78.8	122	
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 5634686)									
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	0.00125 mg/kg	100	72.0	128	
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<0.0002	0.00125 mg/kg	87.4	67.0	130	
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	101	68.0	136	
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 5634686)									
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	0.00625 mg/kg	93.4	71.0	135	
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	0.00125 mg/kg	94.7	69.0	132	
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<0.0002	0.00125 mg/kg	91.1	70.0	132	



Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report Result	Laboratory Control Spike (LCS) Report			
					Spike Concentration	Spike Recovery (%)	Acceptable Limits (%)	
						LCS	Low	High
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 5634686) - continued								
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	102	71.0	131
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	101	69.0	133
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5634686)								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	0.00125 mg/kg	79.0	62.0	145
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	0.00125 mg/kg	117	64.0	140
EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0005	0.00125 mg/kg	102	65.0	137
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	0.00125 mg/kg	98.8	69.2	143

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	Spike Recovery (%) MS	Low	High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 5633361)							
ES2404940-001	Anonymous	EG005T: Arsenic	7440-38-2	50 mg/kg	97.2	70.0	130
		EG005T: Cadmium	7440-43-9	50 mg/kg	92.8	70.0	130
		EG005T: Chromium	7440-47-3	50 mg/kg	102	68.0	132
		EG005T: Copper	7440-50-8	250 mg/kg	88.9	70.0	130
		EG005T: Lead	7439-92-1	250 mg/kg	93.6	70.0	130
		EG005T: Nickel	7440-02-0	50 mg/kg	93.6	70.0	130
		EG005T: Zinc	7440-66-6	250 mg/kg	75.0	66.0	133
EG035T: Total Recoverable Mercury by FIMS (QCLot: 5633362)							
ES2404940-001	Anonymous	EG035T: Mercury	7439-97-6	5 mg/kg	79.7	70.0	130
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 5630465)							
ES2406444-001	Anonymous	EP066: Total Polychlorinated biphenyls	----	1 mg/kg	98.0	70.0	130
EP068A: Organochlorine Pesticides (OC) (QCLot: 5630464)							
ES2406444-001	Anonymous	EP068: gamma-BHC	58-89-9	0.5 mg/kg	79.1	70.0	130
		EP068: Heptachlor	76-44-8	0.5 mg/kg	93.2	70.0	130
		EP068: Aldrin	309-00-2	0.5 mg/kg	85.5	70.0	130
		EP068: Dieldrin	60-57-1	0.5 mg/kg	87.2	70.0	130
		EP068: Endrin	72-20-8	2 mg/kg	78.0	70.0	130
		EP068: 4,4'-DDT	50-29-3	2 mg/kg	86.0	70.0	130
EP068B: Organophosphorus Pesticides (OP) (QCLot: 5630464)							
ES2406444-001	Anonymous	EP068: Diazinon	333-41-5	0.5 mg/kg	76.1	70.0	130



Sub-Matrix: SOIL

				Matrix Spike (MS) Report			
				Spike	Spike Recovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP068B: Organophosphorus Pesticides (OP) (QCLot: 5630464) - continued							
ES2406444-001	Anonymous	EP068: Chlorpyrifos-methyl	5598-13-0	0.5 mg/kg	92.4	70.0	130
		EP068: Pirimphos-ethyl	23505-41-1	0.5 mg/kg	94.8	70.0	130
		EP068: Bromophos-ethyl	4824-78-6	0.5 mg/kg	89.7	70.0	130
		EP068: Prothiofos	34643-46-4	0.5 mg/kg	78.0	70.0	130
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 5630462)							
ES2406444-001	Anonymous	EP075(SIM): Acenaphthene	83-32-9	10 mg/kg	102	70.0	130
		EP075(SIM): Pyrene	129-00-0	10 mg/kg	106	70.0	130
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5630463)							
ES2406444-001	Anonymous	EP071: C10 - C14 Fraction	----	480 mg/kg	119	73.0	137
		EP071: C15 - C28 Fraction	----	3100 mg/kg	119	53.0	131
		EP071: C29 - C36 Fraction	----	2060 mg/kg	126	52.0	132
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5630613)							
ES2406444-001	Anonymous	EP080: C6 - C9 Fraction	----	32.5 mg/kg	100	60.4	142
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5630463)							
ES2406444-001	Anonymous	EP071: >C10 - C16 Fraction	----	860 mg/kg	116	73.0	137
		EP071: >C16 - C34 Fraction	----	4320 mg/kg	121	53.0	131
		EP071: >C34 - C40 Fraction	----	890 mg/kg	123	52.0	132
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5630613)							
ES2406444-001	Anonymous	EP080: C6 - C10 Fraction	C6_C10	37.5 mg/kg	103	61.1	142
EP080: BTEXN (QCLot: 5630613)							
ES2406444-001	Anonymous	EP080: Benzene	71-43-2	2.5 mg/kg	113	62.1	122
		EP080: Toluene	108-88-3	2.5 mg/kg	96.7	66.6	119
		EP080: Ethylbenzene	100-41-4	2.5 mg/kg	98.7	67.4	123
		EP080: meta- & para-Xylene	108-38-3 106-42-3	2.5 mg/kg	99.6	66.4	121
		EP080: ortho-Xylene	95-47-6	2.5 mg/kg	98.3	70.7	121
		EP080: Naphthalene	91-20-3	2.5 mg/kg	110	61.1	115
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 5634686)							
ES2406465-003	T3	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.00125 mg/kg	81.0	72.0	128
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.00125 mg/kg	84.5	67.0	130
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.00125 mg/kg	96.0	68.0	136
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 5634686)							
ES2406465-003	T3	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.00625 mg/kg	91.8	71.0	135
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.00125 mg/kg	87.8	69.0	132
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.00125 mg/kg	93.1	70.0	132
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.00125 mg/kg	94.7	71.0	131

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Sub-Matrix: SOIL				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 5634686) - continued							
ES2406465-003	T3	EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.00125 mg/kg	95.0	69.0	133
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5634686)							
ES2406465-003	T3	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.00125 mg/kg	78.4	62.0	145
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.00125 mg/kg	100	64.0	140
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.00125 mg/kg	116	65.0	137
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.00125 mg/kg	89.2	69.2	143



QA/QC Compliance Assessment to assist with Quality Review

Work Order	: ES2406465	Page	: 1 of 8
Client	: ENVIRONMENTAL ADVISORS	Laboratory	: Environmental Division Sydney
Contact	: ANDREW WINTERS	Telephone	: +61-2-8784 8555
Project	: 125 NSC LAKE McDONALD DVE, COOROY	Date Samples Received	: 28-Feb-2024
Site	: ----	Issue Date	: 04-Mar-2024
Sampler	: ANDREW WINTERS	No. of samples received	: 8
Order number	: ----	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** Laboratory Control outliers occur.
- **NO** Matrix Spike outliers occur.
- For all regular sample matrices, **NO** surrogate recovery outliers occur.

Outliers : Analysis Holding Time Compliance

- **NO** Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- **NO** Quality Control Sample Frequency Outliers exist.



Analysis Holding Time Compliance

If samples are identified below as having been analysed or extracted outside of recommended holding times, this should be taken into consideration when interpreting results.

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times (referencing USEPA SW 846, APHA, AS and NEPM) based on the sample container provided. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. A listing of breaches (if any) is provided herein.

Holding time for leachate methods (e.g. TCLP) vary according to the analytes reported. Assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These are: organics 14 days, mercury 28 days & other metals 180 days. A recorded breach does not guarantee a breach for all non-volatile parameters.

Holding times for **VOC in soils** vary according to analytes of interest. Vinyl Chloride and Styrene holding time is 7 days; others 14 days. A recorded breach does not guarantee a breach for all VOC analytes and should be verified in case the reported breach is a false positive or Vinyl Chloride and Styrene are not key analytes of interest/concern.

Matrix: **SOIL**

Evaluation: * = Holding time breach ; ✓ = Within holding time.

Method Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis			
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation	
EA055: Moisture Content								
Soil Glass Jar - Unpreserved (EA055) T6,	T8	22-Feb-2024	----	----	----	29-Feb-2024	07-Mar-2024	✓
EA055: Moisture Content (Dried @ 105-110°C)								
Soil Glass Jar - Unpreserved (EA055) T1,	T2	19-Feb-2024	----	----	----	29-Feb-2024	04-Mar-2024	✓
Soil Glass Jar - Unpreserved (EA055) T3		20-Feb-2024	----	----	----	29-Feb-2024	05-Mar-2024	✓
Soil Glass Jar - Unpreserved (EA055) T4,	T5	21-Feb-2024	----	----	----	29-Feb-2024	06-Mar-2024	✓
Soil Glass Jar - Unpreserved (EA055) T7		22-Feb-2024	----	----	----	29-Feb-2024	07-Mar-2024	✓
EG005(ED093)T: Total Metals by ICP-AES								
Soil Glass Jar - Unpreserved (EG005T) T1,	T2	19-Feb-2024	29-Feb-2024	17-Aug-2024	✓	01-Mar-2024	17-Aug-2024	✓
Soil Glass Jar - Unpreserved (EG005T) T3		20-Feb-2024	29-Feb-2024	18-Aug-2024	✓	01-Mar-2024	18-Aug-2024	✓
Soil Glass Jar - Unpreserved (EG005T) T4,	T5	21-Feb-2024	29-Feb-2024	19-Aug-2024	✓	01-Mar-2024	19-Aug-2024	✓
Soil Glass Jar - Unpreserved (EG005T) T6, T8	T7,	22-Feb-2024	29-Feb-2024	20-Aug-2024	✓	01-Mar-2024	20-Aug-2024	✓
EG035T: Total Recoverable Mercury by FIMS								
Soil Glass Jar - Unpreserved (EG035T) T1,	T2	19-Feb-2024	29-Feb-2024	18-Mar-2024	✓	01-Mar-2024	18-Mar-2024	✓
Soil Glass Jar - Unpreserved (EG035T) T3		20-Feb-2024	29-Feb-2024	19-Mar-2024	✓	01-Mar-2024	19-Mar-2024	✓
Soil Glass Jar - Unpreserved (EG035T) T4,	T5	21-Feb-2024	29-Feb-2024	20-Mar-2024	✓	01-Mar-2024	20-Mar-2024	✓
Soil Glass Jar - Unpreserved (EG035T) T6, T8	T7,	22-Feb-2024	29-Feb-2024	21-Mar-2024	✓	01-Mar-2024	21-Mar-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
EP066: Polychlorinated Biphenyls (PCB)							
Soil Glass Jar - Unpreserved (EP066) T4	21-Feb-2024	29-Feb-2024	06-Mar-2024	✓	02-Mar-2024	09-Apr-2024	✓
Soil Glass Jar - Unpreserved (EP066) T7	22-Feb-2024	29-Feb-2024	07-Mar-2024	✓	02-Mar-2024	09-Apr-2024	✓
EP068A: Organochlorine Pesticides (OC)							
Soil Glass Jar - Unpreserved (EP068) T4	21-Feb-2024	29-Feb-2024	06-Mar-2024	✓	02-Mar-2024	09-Apr-2024	✓
Soil Glass Jar - Unpreserved (EP068) T7	22-Feb-2024	29-Feb-2024	07-Mar-2024	✓	02-Mar-2024	09-Apr-2024	✓
EP068B: Organophosphorus Pesticides (OP)							
Soil Glass Jar - Unpreserved (EP068) T4	21-Feb-2024	29-Feb-2024	06-Mar-2024	✓	02-Mar-2024	09-Apr-2024	✓
Soil Glass Jar - Unpreserved (EP068) T7	22-Feb-2024	29-Feb-2024	07-Mar-2024	✓	02-Mar-2024	09-Apr-2024	✓
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons							
Soil Glass Jar - Unpreserved (EP075(SIM)) T4	21-Feb-2024	29-Feb-2024	06-Mar-2024	✓	02-Mar-2024	09-Apr-2024	✓
Soil Glass Jar - Unpreserved (EP075(SIM)) T7	22-Feb-2024	29-Feb-2024	07-Mar-2024	✓	02-Mar-2024	09-Apr-2024	✓
EP080/071: Total Petroleum Hydrocarbons							
Soil Glass Jar - Unpreserved (EP080) T4	21-Feb-2024	28-Feb-2024	06-Mar-2024	✓	01-Mar-2024	06-Mar-2024	✓
Soil Glass Jar - Unpreserved (EP071) T4	21-Feb-2024	29-Feb-2024	06-Mar-2024	✓	29-Feb-2024	09-Apr-2024	✓
Soil Glass Jar - Unpreserved (EP080) T6, T8	22-Feb-2024	28-Feb-2024	07-Mar-2024	✓	01-Mar-2024	07-Mar-2024	✓
Soil Glass Jar - Unpreserved (EP071) T6, T8	22-Feb-2024	29-Feb-2024	07-Mar-2024	✓	29-Feb-2024	09-Apr-2024	✓
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions							
Soil Glass Jar - Unpreserved (EP080) T4	21-Feb-2024	28-Feb-2024	06-Mar-2024	✓	01-Mar-2024	06-Mar-2024	✓
Soil Glass Jar - Unpreserved (EP071) T4	21-Feb-2024	29-Feb-2024	06-Mar-2024	✓	29-Feb-2024	09-Apr-2024	✓
Soil Glass Jar - Unpreserved (EP080) T6, T8	22-Feb-2024	28-Feb-2024	07-Mar-2024	✓	01-Mar-2024	07-Mar-2024	✓
Soil Glass Jar - Unpreserved (EP071) T6, T8	22-Feb-2024	29-Feb-2024	07-Mar-2024	✓	29-Feb-2024	09-Apr-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: BTEXN							
Soil Glass Jar - Unpreserved (EP080) T4	21-Feb-2024	28-Feb-2024	06-Mar-2024	✓	01-Mar-2024	06-Mar-2024	✓
Soil Glass Jar - Unpreserved (EP080) T6, T8	22-Feb-2024	28-Feb-2024	07-Mar-2024	✓	01-Mar-2024	07-Mar-2024	✓
EP231A: Perfluoroalkyl Sulfonic Acids							
HDPE Soil Jar (EP231X) T3	20-Feb-2024	01-Mar-2024	18-Aug-2024	✓	04-Mar-2024	10-Apr-2024	✓
EP231B: Perfluoroalkyl Carboxylic Acids							
HDPE Soil Jar (EP231X) T3	20-Feb-2024	01-Mar-2024	18-Aug-2024	✓	04-Mar-2024	10-Apr-2024	✓
EP231D: (n:2) Fluorotelomer Sulfonic Acids							
HDPE Soil Jar (EP231X) T3	20-Feb-2024	01-Mar-2024	18-Aug-2024	✓	04-Mar-2024	10-Apr-2024	✓
EP231P: PFAS Sums							
HDPE Soil Jar (EP231X) T3	20-Feb-2024	01-Mar-2024	18-Aug-2024	✓	04-Mar-2024	10-Apr-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	Method	Count		Rate (%)			Quality Control Specification
		QC	Reaular	Actual	Expected	Evaluation	
Laboratory Duplicates (DUP)							
Moisture Content	EA055	2	20	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (SIM)	EP075(SIM)	1	6	16.67	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	2	50.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	1	7	14.29	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	1	7	14.29	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	2	20	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	2	20	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	8	12.50	10.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	2	19	10.53	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
PAH/Phenols (SIM)	EP075(SIM)	1	6	16.67	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	2	50.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	1	7	14.29	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	1	7	14.29	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	8	12.50	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	19	5.26	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
PAH/Phenols (SIM)	EP075(SIM)	1	6	16.67	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	2	50.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	1	7	14.29	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	1	7	14.29	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	8	12.50	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	19	5.26	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
PAH/Phenols (SIM)	EP075(SIM)	1	6	16.67	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	2	50.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	1	7	14.29	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	1	7	14.29	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	8	12.50	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	19	5.26	5.00	✓	NEPM 2013 B3 & ALS QC Standard

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Matrix: **SOIL** Evaluation: ✖ = Quality Control frequency not within specification ; ✔ = Quality Control frequency within specification.

Quality Control Sample Type	Method	Count		Rate (%)			Quality Control Specification
		QC	Regular	Actual	Expected	Evaluation	
Analytical Methods							



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 (SnCl ₂) (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 SnCl ₂ 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)
Polychlorinated Biphenyls (PCB)	EP066	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 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 - Semivolatle 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).
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.
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	SOIL	In-house: Analysis of soils by solvent extraction followed by LC-Electrospray-MS-MS, Negative Mode using MRM using internal standard quantitation. Isotopically labelled analogues of target analytes used as internal standards and surrogates are added to a portion of soil which is then extracted with MTBE and an ion pairing reagent. A portion of extract is exchanged into the analytical solvent mixture, combined with an equal volume reagent water and filtered for analysis. Method procedures and data quality objectives conform to US DoD QSM 5.3, table B-15 requirements.

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).

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<i>Preparation Methods</i>	<i>Method</i>	<i>Matrix</i>	<i>Method Descriptions</i>
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, Na ₂ SO ₄ 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.
QuEChERS Extraction of Solids	ORG71	SOIL	In house: Sequential extractions with Acetonitrile/Methanol by shaking. Extraction efficiency aided by the addition of salts under acidic conditions. Where relevant, interferences from co-extracted organics are removed with dispersive clean-up media (dSPE). The extract is either diluted or concentrated and exchanged into the analytical solvent.



From: Andrew Winters <Andrew@environmentaladvisors.com.au>
Sent: Tuesday, March 12, 2024 9:30 AM
To: ALSEnviro Brisbane <ALSEnviro.Brisbane@alsglobal.com>
Subject: [EXTERNAL] - Additional analyses request

Hi ALS

Further to our project 125 Cooroy that was split into two batches, could you please perform the additional analyses as follows:

EB2406372

- 1 - TP12-1.0 Chromium speciation
- 2 - TP14-3.3 Chromium speciation
- 3 - TP13-0.1 - TCLP and ASLP for zinc - 16
- 4 - TP14-1.0 - TCLP and ASLP for zinc - 17
- 5 - TP21-0.1 - TCLP and ASLP for zinc - 18
- 6 - TP38-0.1 - TCLP for lead and zinc
- 7 - TP40-0.5 - TCLP for copper, lead, nickel and zinc

EB2406402

- 8 - TP63-0.5 - Chromium speciation
- 9 - TP42-0.2 - TCLP for zinc
- 10 - TP45-0.1 - TCLP for lead
- 11 - TP46-0.2 - TCLP for zinc
- 12 - TP47-0.2 - TCLP for copper and zinc
- 13 - TP48-0.2 - TCLP nickel and zinc
- 14 - TP48-0.5 - TCLP for zinc
- 15 - TP54-0.1 - TCLP for zinc

Also, as previously provided for the last project where our samples were split into two batches, could you please provide a single excel spreadsheet combining all soil results to date for the above two batches.

Regards



Andrew Winters
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Environmental Division
Brisbane
Work Order Reference
EB2408662



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Telephone + 61-7-3243 7222



SAMPLE RECEIPT NOTIFICATION (SRN)

Work Order : **EB2408662**

Client	: ENVIRONMENTAL ADVISORS	Laboratory	: Environmental Division Brisbane
Contact	: ANDREW WINTERS	Contact	: Customer Services EB
Address	: 168 FLAXTON DRIVE MAPLETON 4560	Address	: 2 Byth Street Stafford QLD Australia 4053
E-mail	: andrew@environmentaladvisors.com.au	E-mail	: ALSEnviro.Brisbane@alsglobal.com
Telephone	: ----	Telephone	: +61 7 3243 7222
Facsimile	: ----	Facsimile	: +61-7-3243 7218
Project	: 125 NSC LAKE McDONALD DVE, COOROY	Page	: 1 of 3
Order number	: ----	Quote number	: EB2023ENVADV0001 (EB23ENVADV0001 V2)
C-O-C number	: ----	QC Level	: NEPM 2013 B3 & ALS QC Standard
Site	: ----		
Sampler	: ANDREW WINTERS		

Dates

Date Samples Received	: 12-Mar-2024 09:44	Issue Date	: 15-Mar-2024
Client Requested Due Date	: 22-Mar-2024	Scheduled Reporting Date	: 22-Mar-2024

Delivery Details

Mode of Delivery	: Samples On Hand	Security Seal	: Not Available
No. of coolers/boxes	: ----	Temperature	: ----
Receipt Detail	: REBATCH	No. of samples received / analysed	: 18 / 18

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
- **Samples #16 to 18 were created to report the results of ASLP leachate for samples #3 to 5.**
- **This workorder was created to rebatch samples from EB2406372 and EB2406402.**
- Discounted Package Prices apply only when specific ALS Group Codes ('W', 'S', 'NT' suites) are referenced on COCs.
- Please direct any turn around / technical queries to the laboratory contact designated above.
- Sample Disposal - Aqueous (3 weeks), Solid (2 months ± 1 week) from receipt of samples.
- Analysis will be conducted by ALS Environmental, Brisbane, NATA accreditation no. 825, Site No. 818 (Micro site no. 18958).
- **Breaches in recommended extraction / analysis holding times (if any) are displayed overleaf in the Proactive Holding Time Report table.**
- 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.
- **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.**



Sample Container(s)/Preservation Non-Compliances

All comparisons are made against pretreatment/preservation AS, APHA, USEPA standards.

Method Sample ID	Sample Container Received	Preferred Sample Container for Analysis
Hexavalent Chromium by Alkaline Digestion and DA Finish : EG048G		
TP14-3.3	- HDPE Soil Jar	- Soil Glass Jar - Unpreserved

Any sample identifications that cannot be displayed entirely in the analysis summary table will be listed below.

EB2408662-016 : [19-Feb-2024] : TP13-0.1 - ASLP LEACHATE
EB2408662-017 : [19-Feb-2024] : TP14-1.0 - ASLP LEACHATE
EB2408662-018 : [19-Feb-2024] : TP21-0.1 - ASLP LEACHATE

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	SOIL - EA055-103 Moisture Content	SOIL - EG005C Leachable Metals by ICPAES	SOIL - EG020C Leachable Metals by ICPMS	SOIL - EG049G-Alk Trivalent Chromium by Discrete Analyser	SOIL - EN33a-G TCLP Leachate - Glass Leaching Vessel	SOIL - EN60a-G ASLP Leachate Procedure - Glass Leaching
EB2408662-001	19-Feb-2024 00:00	TP12-1.0	✓			✓		
EB2408662-002	19-Feb-2024 00:00	TP14-3.3	✓			✓		
EB2408662-003	19-Feb-2024 00:00	TP13-0.1		✓			✓	
EB2408662-004	19-Feb-2024 00:00	TP14-1.0		✓			✓	
EB2408662-005	19-Feb-2024 00:00	TP21-0.1		✓			✓	
EB2408662-006	21-Feb-2024 00:00	TP38-0.1		✓			✓	
EB2408662-007	21-Feb-2024 00:00	TP40-0.5		✓			✓	
EB2408662-008	22-Feb-2024 00:00	TP63-0.5	✓			✓		
EB2408662-009	21-Feb-2024 00:00	TP42-0.2		✓			✓	
EB2408662-010	21-Feb-2024 00:00	TP45-0.1		✓			✓	
EB2408662-011	21-Feb-2024 00:00	TP46-0.2		✓			✓	
EB2408662-012	21-Feb-2024 00:00	TP47-0.2		✓			✓	
EB2408662-013	21-Feb-2024 00:00	TP48-0.2		✓			✓	
EB2408662-014	21-Feb-2024 00:00	TP48-0.5		✓			✓	
EB2408662-015	22-Feb-2024 00:00	TP54-0.1		✓			✓	
EB2408662-016	19-Feb-2024 00:00	TP13-0.1 ASLP LEACH...			✓			✓
EB2408662-017	19-Feb-2024 00:00	TP14-1.0 ASLP LEACH...			✓			✓
EB2408662-018	19-Feb-2024 00:00	TP21-0.1 ASLP LEACH...			✓			✓

Proactive Holding Time Report

The following table summarises breaches of recommended holding times that have occurred prior to samples/instructions being received at the laboratory.

Matrix: SOIL

Evaluation: ✗ = Holding time breach ; ✓ = Within holding time.

Method Client Sample ID(s)	Container	Due for extraction	Due for analysis	Samples Received		Instructions Received	
				Date	Evaluation	Date	Evaluation
EA055: Moisture Content							
TP12-1.0	Soil Glass Jar - Unpreserved	----	04-Mar-2024	12-Mar-2024	✗	14-Mar-2024	✗
TP14-3.3	HDPE Soil Jar	----	04-Mar-2024	12-Mar-2024	✗	14-Mar-2024	✗
TP63-0.5	Soil Glass Jar - Unpreserved	----	07-Mar-2024	12-Mar-2024	✗	14-Mar-2024	✗



CERTIFICATE OF ANALYSIS

Work Order : **EB2408662**
Client : **ENVIRONMENTAL ADVISORS**
Contact : ANDREW WINTERS
Address : 168 FLAXTON DRIVE
MAPLETON 4560
Telephone : ----
Project : 125 NSC LAKE McDONALD DVE, COOROY
Order number : ----
C-O-C number : ----
Sampler : ANDREW WINTERS
Site : ----
Quote number : EB23ENVADV0001 V2
No. of samples received : 18
No. of samples analysed : 18

Page : 1 of 10
Laboratory : Environmental Division Brisbane
Contact : Customer Services EB
Address : 2 Byth Street Stafford QLD Australia 4053
Telephone : +61 7 3243 7222
Date Samples Received : 12-Mar-2024 09:44
Date Analysis Commenced : 15-Mar-2024
Issue Date : 20-Mar-2024 18:00



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

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.

<i>Signatories</i>	<i>Position</i>	<i>Accreditation Category</i>
Beatriz Llarinas	Senior Chemist - Inorganics	Brisbane Inorganics, Stafford, QLD
Beatriz Llarinas	Senior Chemist - Inorganics	Brisbane Soil Preparation, Stafford, QLD



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.



Analytical Results

Sub-Matrix: ASLP LEACHATE
 (Matrix: WATER)

Sample ID

				TP13-0.1 ASLP LEACHATE	TP14-1.0 ASLP LEACHATE	TP21-0.1 ASLP LEACHATE	----	----
Sampling date / time				19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	----	----
Compound	CAS Number	LOR	Unit	EB2408662-016	EB2408662-017	EB2408662-018	-----	-----
				Result	Result	Result	----	----
EG020C: Leachable Metals by ICPMS								
Zinc	7440-66-6	0.1	mg/L	0.1	0.3	0.2	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP12-1.0	TP14-3.3	TP13-0.1	TP14-1.0	TP21-0.1
Sampling date / time				19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2408662-001	EB2408662-002	EB2408662-003	EB2408662-004	EB2408662-005	
				Result	Result	Result	Result	Result	
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	0.1	%	14.0	18.1	----	----	----	
EG005(ED093)T: Total Metals by ICP-AES									
Chromium	7440-47-3	2	mg/kg	32	50	----	----	----	
EG048: Hexavalent Chromium (Alkaline Digest)									
Hexavalent Chromium	18540-29-9	0.5	mg/kg	<0.5	<0.5	----	----	----	
EG049: Trivalent Chromium									
Trivalent Chromium	16065-83-1	2	mg/kg	32	50	----	----	----	
EN33: TCLP Leach - Inorganics/Non-Volatile Organics (Glass Vessel)									
Initial pH	----	0.1	pH Unit	----	----	5.2	5.4	5.3	
After HCl pH	----	0.1	pH Unit	----	----	1.4	1.4	1.4	
Extraction Fluid Number	----	1	-	----	----	1	1	1	
Final pH	----	0.1	pH Unit	----	----	5.3	5.2	5.1	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP38-0.1	TP40-0.5	TP63-0.5	TP42-0.2	TP45-0.1
Sampling date / time				21-Feb-2024 00:00	21-Feb-2024 00:00	22-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2408662-006	EB2408662-007	EB2408662-008	EB2408662-009	EB2408662-010	
				Result	Result	Result	Result	Result	
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	0.1	%	----	----	24.2	----	----	
EG005(ED093)T: Total Metals by ICP-AES									
Chromium	7440-47-3	2	mg/kg	----	----	47	----	----	
EG048: Hexavalent Chromium (Alkaline Digest)									
Hexavalent Chromium	18540-29-9	0.5	mg/kg	----	----	<0.5	----	----	
EG049: Trivalent Chromium									
Trivalent Chromium	16065-83-1	2	mg/kg	----	----	47	----	----	
EN33: TCLP Leach - Inorganics/Non-Volatile Organics (Glass Vessel)									
Initial pH	----	0.1	pH Unit	4.9	4.5	----	4.6	5.0	
After HCl pH	----	0.1	pH Unit	1.4	1.4	----	1.4	1.4	
Extraction Fluid Number	----	1	-	1	1	----	1	1	
Final pH	----	0.1	pH Unit	5.0	5.0	----	5.0	5.0	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP46-0.2	TP47-0.2	TP48-0.2	TP48-0.5	TP54-0.1
Sampling date / time				21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	22-Feb-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2408662-011	EB2408662-012	EB2408662-013	EB2408662-014	EB2408662-015	
				Result	Result	Result	Result	Result	
EN33: TCLP Leach - Inorganics/Non-Volatile Organics (Glass Vessel)									
Initial pH	----	0.1	pH Unit	5.2	5.0	5.1	5.0	5.5	
After HCl pH	----	0.1	pH Unit	1.4	1.4	1.4	1.4	1.4	
Extraction Fluid Number	----	1	-	1	1	1	1	1	
Final pH	----	0.1	pH Unit	5.0	5.0	5.0	5.0	5.0	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP13-0.1 ASLP LEACHATE	TP14-1.0 ASLP LEACHATE	TP21-0.1 ASLP LEACHATE	----	----
Sampling date / time				19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	----	----	
Compound	CAS Number	LOR	Unit	EB2408662-016	EB2408662-017	EB2408662-018	-----	-----	
				Result	Result	Result	----	----	
EN60: ASLP Leaching Procedure - Inorganics/Non-Volatile Organics (Glass Vessel)									
Final pH	----	0.1	pH Unit	5.5	5.1	5.6	----	----	



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

				Sample ID	TP13-0.1	TP14-1.0	TP21-0.1	TP38-0.1	TP40-0.5
				Sampling date / time	19-Feb-2024 00:00	19-Feb-2024 00:00	19-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00
Compound	CAS Number	LOR	Unit		EB2408662-003	EB2408662-004	EB2408662-005	EB2408662-006	EB2408662-007
					Result	Result	Result	Result	Result
EG005(ED093)C: Leachable Metals by ICPAES									
Copper	7440-50-8	0.1	mg/L		----	----	----	----	<0.1
Lead	7439-92-1	0.1	mg/L		----	----	----	1.2	<0.1
Nickel	7440-02-0	0.1	mg/L		----	----	----	----	<0.1
Zinc	7440-66-6	0.1	mg/L		0.7	2.1	3.2	3.2	1.2



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

				TP42-0.2	TP45-0.1	TP46-0.2	TP47-0.2	TP48-0.2
Sample ID				21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00
Sampling date / time				21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00	21-Feb-2024 00:00
Compound	CAS Number	LOR	Unit	EB2408662-009	EB2408662-010	EB2408662-011	EB2408662-012	EB2408662-013
				Result	Result	Result	Result	Result
EG005(ED093)C: Leachable Metals by ICPAES								
Copper	7440-50-8	0.1	mg/L	----	----	----	0.1	----
Lead	7439-92-1	0.1	mg/L	----	1.0	----	----	----
Nickel	7440-02-0	0.1	mg/L	----	----	----	----	<0.1
Zinc	7440-66-6	0.1	mg/L	1.0	----	2.8	3.7	3.8



Analytical Results

Sub-Matrix: **TCLP LEACHATE**
 (Matrix: **WATER**)

				Sample ID	TP48-0.5	TP54-0.1	----	----	----
				Sampling date / time	21-Feb-2024 00:00	22-Feb-2024 00:00	----	----	----
Compound	CAS Number	LOR	Unit	EB2408662-014	EB2408662-015	-----	-----	-----	
				Result	Result	----	----	----	
EG005(ED093)C: Leachable Metals by ICPAES									
Zinc	7440-66-6	0.1	mg/L	3.4	7.0	----	----	----	



QUALITY CONTROL REPORT

Work Order	: EB2408662	Page	: 1 of 4
Client	: ENVIRONMENTAL ADVISORS	Laboratory	: Environmental Division Brisbane
Contact	: ANDREW WINTERS	Contact	: Customer Services EB
Address	: 168 FLAXTON DRIVE MAPLETON 4560	Address	: 2 Byth Street Stafford QLD Australia 4053
Telephone	: ----	Telephone	: +61 7 3243 7222
Project	: 125 NSC LAKE McDONALD DVE, COOROY	Date Samples Received	: 12-Mar-2024
Order number	: ----	Date Analysis Commenced	: 15-Mar-2024
C-O-C number	: ----	Issue Date	: 20-Mar-2024
Sampler	: ANDREW WINTERS		
Site	: ----		
Quote number	: EB23ENVADV0001 V2		
No. of samples received	: 18		
No. of samples analysed	: 18		



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
Beatriz Llarinas	Senior Chemist - Inorganics	Brisbane Inorganics, Stafford, QLD
Beatriz Llarinas	Senior Chemist - Inorganics	Brisbane Soil Preparation, Stafford, QLD



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

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: 5664648)									
EB2408662-001	TP12-1.0	EG005T: Chromium	7440-47-3	2	mg/kg	32	31	3.6	0% - 50%
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 5664653)									
EB2408574-001	Anonymous	EA055: Moisture Content	----	0.1	%	0.2	0.2	0.0	No Limit
EG048: Hexavalent Chromium (Alkaline Digest) (QC Lot: 5664649)									
EB2408662-001	TP12-1.0	EG048G: Hexavalent Chromium	18540-29-9	0.5	mg/kg	<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 (%)
EG005(ED093)C: Leachable Metals by ICPAES (QC Lot: 5671797)									
EB2408662-003	TP13-0.1	EG005C: Copper	7440-50-8	0.1	mg/L	<0.1	<0.1	0.0	No Limit
		EG005C: Lead	7439-92-1	0.1	mg/L	<0.1	<0.1	0.0	No Limit
		EG005C: Nickel	7440-02-0	0.1	mg/L	<0.1	<0.1	0.0	No Limit
		EG005C: Zinc	7440-66-6	0.1	mg/L	0.7	0.7	0.0	No Limit
EB2408662-013	TP48-0.2	EG005C: Copper	7440-50-8	0.1	mg/L	<0.1	<0.1	0.0	No Limit
		EG005C: Lead	7439-92-1	0.1	mg/L	<0.1	<0.1	0.0	No Limit
		EG005C: Nickel	7440-02-0	0.1	mg/L	<0.1	<0.1	0.0	No Limit
		EG005C: Zinc	7440-66-6	0.1	mg/L	3.8	3.9	0.0	0% - 20%
EG020C: Leachable Metals by ICPMS (QC Lot: 5668524)									
EB2408634-003	Anonymous	EG020A-C: Zinc	7440-66-6	0.1	mg/L	1.3	1.2	0.0	0% - 50%
EB2408074-001	Anonymous	EG020A-C: Zinc	7440-66-6	0.1	mg/L	0.2	0.2	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			
					Result	Spike Concentration	Spike Recovery (%) LCS	Acceptable Limits (%)
Method: Compound	CAS Number	LOR	Unit	Low				High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 5664648)								
EG005T: Chromium	7440-47-3	2	mg/kg	<2	14.5 mg/kg	106	83.0	125
EN33: TCLP Leach - Inorganics/Non-Volatile Organics (Glass Vessel) (QCLot: 5666945)								
EN33a-G: Final pH	----	0.1	pH Unit	5.0	----	----	----	----
EG048: Hexavalent Chromium (Alkaline Digest) (QCLot: 5664649)								
EG048G: Hexavalent Chromium	18540-29-9	0.5	mg/kg	<0.5	20 mg/kg	90.0	80.0	120
				<0.5	13.93 mg/kg	114	70.0	130

Sub-Matrix: **WATER**

				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Result	Spike Concentration	Spike Recovery (%) LCS	Acceptable Limits (%)
Method: Compound	CAS Number	LOR	Unit	Low				High
EG005(ED093)C: Leachable Metals by ICPAES (QCLot: 5671797)								
EG005C: Copper	7440-50-8	0.1	mg/L	<0.1	0.1 mg/L	106	87.0	117
EG005C: Lead	7439-92-1	0.1	mg/L	<0.1	0.1 mg/L	99.3	85.0	117
EG005C: Nickel	7440-02-0	0.1	mg/L	<0.1	0.1 mg/L	98.1	90.0	116
EG005C: Zinc	7440-66-6	0.1	mg/L	<0.1	0.1 mg/L	102	87.0	122
EG020C: Leachable Metals by ICPMS (QCLot: 5668524)								
EG020A-C: Zinc	7440-66-6	0.1	mg/L	<0.1	0.1 mg/L	107	89.0	114

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**

				Matrix Spike (MS) Report			
				Spike Concentration	Spike Recovery (%) MS	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number			Low	High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 5664648)							
EB2408662-002	TP14-3.3	EG005T: Chromium	7440-47-3	50 mg/kg	88.4	70.0	130
EG048: Hexavalent Chromium (Alkaline Digest) (QCLot: 5664649)							
EB2408662-001	TP12-1.0	EG048G: Hexavalent Chromium	18540-29-9	20 mg/kg	71.1	70.0	130
EB2408662-001	TP12-1.0	EG048G: Hexavalent Chromium	18540-29-9	13.93 mg/kg	99.2	70.0	130

Sub-Matrix: **WATER**

				Matrix Spike (MS) Report			
				Spike Concentration	Spike Recovery (%) MS	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number			Low	High

Page : 4 of 4
 Work Order : EB2408662
 Client : ENVIRONMENTAL ADVISORS
 Project : 125 NSC LAKE McDONALD DVE, COOROY



Sub-Matrix: WATER

				<i>Matrix Spike (MS) Report</i>			
				<i>Spike</i>	<i>SpikeRecovery(%)</i>	<i>Acceptable Limits (%)</i>	
<i>Laboratory sample ID</i>	<i>Sample ID</i>	<i>Method: Compound</i>	<i>CAS Number</i>	<i>Concentration</i>	<i>MS</i>	<i>Low</i>	<i>High</i>
EG005(ED093)C: Leachable Metals by ICPAES (QCLot: 5671797)							
EB2408662-004	TP14-1.0	EG005C: Copper	7440-50-8	1 mg/L	116	70.0	130
		EG005C: Lead	7439-92-1	1 mg/L	108	70.0	130
		EG005C: Nickel	7440-02-0	1 mg/L	105	70.0	130
		EG005C: Zinc	7440-66-6	1 mg/L	108	70.0	130
EG020C: Leachable Metals by ICPMS (QCLot: 5668524)							
EB2408074-002	Anonymous	EG020A-C: Zinc	7440-66-6	1 mg/L	107	70.0	130



QA/QC Compliance Assessment to assist with Quality Review

Work Order	: EB2408662	Page	: 1 of 6
Client	: ENVIRONMENTAL ADVISORS	Laboratory	: Environmental Division Brisbane
Contact	: ANDREW WINTERS	Telephone	: +61 7 3243 7222
Project	: 125 NSC LAKE McDONALD DVE, COOROY	Date Samples Received	: 12-Mar-2024
Site	: ----	Issue Date	: 20-Mar-2024
Sampler	: ANDREW WINTERS	No. of samples received	: 18
Order number	: ----	No. of samples analysed	: 18

This report is automatically generated by the ALS LIMS through interpretation of the ALS Quality Control Report and several Quality Assurance parameters measured by ALS. This automated reporting highlights any non-conformances, facilitates faster and more accurate data validation and is designed to assist internal expert and external Auditor review. Many components of this report contribute to the overall DQO assessment and reporting for guideline compliance.

Brief method summaries and references are also provided to assist in traceability.

Summary of Outliers

Outliers : Quality Control Samples

This report highlights outliers flagged in the Quality Control (QC) Report.

- **NO Method Blank value outliers occur.**
- **NO Duplicate outliers occur.**
- **NO Laboratory Control outliers occur.**
- **NO Matrix Spike outliers occur.**
- For all regular sample matrices, **NO surrogate recovery outliers occur.**

Outliers : Analysis Holding Time Compliance

- Analysis Holding Time Outliers exist - please see following pages for full details.

Outliers : Frequency of Quality Control Samples

- **NO Quality Control Sample Frequency Outliers exist.**



Outliers : Analysis Holding Time Compliance

Matrix: SOIL

Method Container / Client Sample ID(s)	Extraction / Preparation			Analysis		
	Date extracted	Due for extraction	Days overdue	Date analysed	Due for analysis	Days overdue
EA055: Moisture Content (Dried @ 105-110°C)						
HDPE Soil Jar TP14-3.3	----	----	----	15-Mar-2024	04-Mar-2024	11
Soil Glass Jar - Unpreserved TP12-1.0	----	----	----	15-Mar-2024	04-Mar-2024	11
Soil Glass Jar - Unpreserved TP63-0.5	----	----	----	15-Mar-2024	07-Mar-2024	8
EG048: Hexavalent Chromium (Alkaline Digest)						
HDPE Soil Jar TP14-3.3	19-Mar-2024	18-Mar-2024	1	----	----	----
Soil Glass Jar - Unpreserved TP12-1.0	19-Mar-2024	18-Mar-2024	1	----	----	----

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)							
HDPE Soil Jar (EA055) TP14-3.3	19-Feb-2024	----	----	----	15-Mar-2024	04-Mar-2024	*
Soil Glass Jar - Unpreserved (EA055) TP12-1.0	19-Feb-2024	----	----	----	15-Mar-2024	04-Mar-2024	*
Soil Glass Jar - Unpreserved (EA055) TP63-0.5	22-Feb-2024	----	----	----	15-Mar-2024	07-Mar-2024	*
EG005(ED093)T: Total Metals by ICP-AES							
HDPE Soil Jar (EG005T) TP14-3.3	19-Feb-2024	19-Mar-2024	17-Aug-2024	✓	19-Mar-2024	17-Aug-2024	✓
Soil Glass Jar - Unpreserved (EG005T) TP12-1.0	19-Feb-2024	19-Mar-2024	17-Aug-2024	✓	19-Mar-2024	17-Aug-2024	✓
Soil Glass Jar - Unpreserved (EG005T) TP63-0.5	22-Feb-2024	19-Mar-2024	20-Aug-2024	✓	19-Mar-2024	20-Aug-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
EG048: Hexavalent Chromium (Alkaline Digest)							
HDPE Soil Jar (EG048G) TP14-3.3	19-Feb-2024	19-Mar-2024	18-Mar-2024	✖	20-Mar-2024	26-Mar-2024	✔
Soil Glass Jar - Unpreserved (EG048G) TP12-1.0	19-Feb-2024	19-Mar-2024	18-Mar-2024	✖	20-Mar-2024	26-Mar-2024	✔
Soil Glass Jar - Unpreserved (EG048G) TP63-0.5	22-Feb-2024	19-Mar-2024	21-Mar-2024	✔	20-Mar-2024	26-Mar-2024	✔
EN33: TCLP Leach - Inorganics/Non-Volatile Organics (Glass Vessel)							
Non-Volatile Leach: 180 day HT (e.g. PFAS, metals ex.Hg) (EN33a-G) TP13-0.1, TP14-1.0, TP21-0.1	19-Feb-2024	16-Mar-2024	17-Aug-2024	✔	----	----	----
Non-Volatile Leach: 180 day HT (e.g. PFAS, metals ex.Hg) (EN33a-G) TP38-0.1, TP40-0.5, TP42-0.2, TP45-0.1, TP46-0.2, TP47-0.2, TP48-0.2, TP48-0.5	21-Feb-2024	16-Mar-2024	19-Aug-2024	✔	----	----	----
Non-Volatile Leach: 180 day HT (e.g. PFAS, metals ex.Hg) (EN33a-G) TP54-0.1	22-Feb-2024	16-Mar-2024	20-Aug-2024	✔	----	----	----
EN60: ASLP Leaching Procedure - Inorganics/Non-Volatile Organics (Glass Vessel)							
Non-Volatile Leach: 180 day HT (e.g. PFAS, metals ex.Hg) (EN60a-G) TP13-0.1 - ASLP LEACHATE, TP14-1.0 - ASLP LEACHATE, TP21-0.1 - ASLP LEACHATE	19-Feb-2024	15-Mar-2024	17-Aug-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
EG005(ED093)C: Leachable Metals by ICPAES							
Clear Plastic Bottle - Nitric Acid; Unfiltered (EG005C) TP13-0.1, TP21-0.1, TP40-0.5, TP45-0.1, TP47-0.2, TP48-0.5, TP14-1.0, TP38-0.1, TP42-0.2, TP46-0.2, TP48-0.2, TP54-0.1	16-Mar-2024	20-Mar-2024	12-Sep-2024	✔	20-Mar-2024	12-Sep-2024	✔
EG020C: Leachable Metals by ICPMS							
Clear Plastic Bottle - Nitric Acid; Unfiltered (EG020A-C) TP13-0.1 - ASLP LEACHATE, TP21-0.1 - ASLP LEACHATE, TP14-1.0 - ASLP LEACHATE,	15-Mar-2024	19-Mar-2024	11-Sep-2024	✔	19-Mar-2024	11-Sep-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	Method	Count		Rate (%)			Quality Control Specification
		QC	Regular	Actual	Expected	Evaluation	
Analytical Methods							
Laboratory Duplicates (DUP)							
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	1	3	33.33	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Moisture Content	EA055	1	5	20.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	5	20.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	2	3	66.67	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	5	20.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	1	3	33.33	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TCLP for Non & Semivolatile Analytes - Glass Leaching Vessel	EN33a-G	1	13	7.69	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	5	20.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	2	3	66.67	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	5	20.00	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	Method	Count		Rate (%)			Quality Control Specification
		QC	Regular	Actual	Expected	Evaluation	
Analytical Methods							
Laboratory Duplicates (DUP)							
Leachable Metals by ICPAES	EG005C	2	13	15.38	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Leachable Metals by ICPMS - Suite A	EG020A-C	2	6	33.33	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Leachable Metals by ICPAES	EG005C	1	13	7.69	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Leachable Metals by ICPMS - Suite A	EG020A-C	1	6	16.67	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Leachable Metals by ICPAES	EG005C	1	13	7.69	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Leachable Metals by ICPMS - Suite A	EG020A-C	1	6	16.67	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Leachable Metals by ICPAES	EG005C	1	13	7.69	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Leachable Metals by ICPMS - Suite A	EG020A-C	1	6	16.67	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).
Leachable Metals by ICPAES	EG005C	SOIL	In house: referenced to APHA 3120; USEPA SW 846 - 6010: The ICPAES technique ionises leachate sample atoms emitting a characteristic spectrum. This spectrum is then compared against matrix matched standards for quantification. 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)
Leachable Metals by ICPMS - Suite A	EG020A-C	SOIL	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.
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	SOIL	In house: Referenced to USEPA SW846, Method 3060. Hexavalent chromium is extracted by alkaline digestion. The digest is determined by photometrically by automatic discrete analyser, following pH adjustment. The instrument uses colour development using dephenylcarbazide. Each run of samples is measured against a five-point calibration curve. This method is compliant with NEPM Schedule B(3)
Trivalent Chromium by Alkaline Digestion and DA Finish	EG049G-Alk	SOIL	In house: Referenced to APHA 3500 Cr-A&B & 3120 and USEPA USEPA SW846, Method 3060. The difference between Total and Hexavalent Chromium. The total Chromium is determined by ICPAES and the Hexavalent chromium is extracted by alkaline digestion and the digest is determined by photometrically by automatic discrete analyser. The instrument uses colour development using dephenylcarbazide. This method is compliant with NEPM Schedule B(3)

Preparation Methods	Method	Matrix	Method Descriptions
Alkaline digestion for Hexavalent Chromium	EG048PR	SOIL	In house: Referenced to USEPA SW846, Method 3060A.
Digestion for Total Recoverable Metals in TCLP Leachate	EN25C	SOIL	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)
TCLP for Non & Semivolatile Analytes - Glass Leaching Vessel	EN33a-G	SOIL	In house QWI-EN/33 referenced to USEPA SW846-1311: The TCLP procedure is designed to determine the mobility of both organic and inorganic analytes present in wastes. The standard TCLP leach is for non-volatile and Semivolatile test parameters.
ASLP for Non & Semivolatile Analytes - Glass Leaching Vessel	EN60a-G	SOIL	In house QWI-EN/60 referenced to AS4439.3 Preparation of Leachates

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Work Order : EB2408662
Client : ENVIRONMENTAL ADVISORS
Project : 125 NSC LAKE McDONALD DVE, COOROY



<i>Preparation Methods</i>	<i>Method</i>	<i>Matrix</i>	<i>Method Descriptions</i>
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).





CHAIN OF CUSTODY

ALS Laboratory: please tick →

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 Newcastle: 8 Rosegum Rd, Warabrook NSW 2304
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Brisbane: 32 Shand St, Stafford QLD 4053
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Perth: 10 Hood Way, Melaga WA 6030
Ph: 08 9399 7865 E: samples.perth@alsenviro.com
 Launceston: 27 Wellington St, Launceston TAS 7250
Ph: 08 0331 2100 E: samples.launceston@alsenviro.com

CLIENT: Environmental Advisors Pty Ltd	TURNAROUND REQUIREMENTS: <input checked="" type="checkbox"/> Standard TAT (List due date): 20 May 24 <small>(Standard TAT may be longer for some tests e.g., Ultra Trace Organics)</small>	FOR LABORATORY USE ONLY (Circle)	
OFFICE: Sunshine Coast	<input type="checkbox"/> Non Standard or urgent TAT (List due date):	Custody Seal intact?	Yes No N/A
PROJECT: 125 NSC LAKE McDONALD DVE, COOROY	ALS QUOTE NO.: EB23ENVADV0001 V2	Freeze / frozen ice packs present upon receipt?	Yes No N/A
ORDER NUMBER:	COC SEQUENCE NUMBER:	Random Sample Temperature on Receipt:	°C
PROJECT MANAGER: Andrew Winters	CONTACT PH: 0409 662 747	Other comment:	
SAMPLER: Andrew Winters	SAMPLER MOBILE: 0409 662 747	RELINQUISHED BY: Andrew Winters	RECEIVED BY: LP
COC emailed to ALS? \ No	EDD FORMAT: Default	DATE/TIME: 9/5/24	DATE/TIME: 10/5/24 1450
Email Reports to (will default to PM if no other addresses are listed): andrew@environmentaladvisors.com.au		RELINQUISHED BY:	RECEIVED BY:
Email Invoice to (will default to PM if no other addresses are listed): admin@environmentaladvisors.com.au		DATE/TIME:	DATE/TIME:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

ALS USE ONLY	SAMPLE DETAILS MATRIX: Solid(S) Water(W)				CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES (NB. Suite Codes must be listed to attract suite price) <small>Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (filtered bottle required).</small>							Additional information					
	LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE <small>(refer to codes below)</small>	TOTAL CONTAINERS	S-02 (8 Metals)	S-05 (TRH/BTEXN/8 metals)	EA200G Asbestos (presence/absence in soil/bulk sample)	S-18 TRH(c6-c10)/BTEXN									
1	TP67-0.1	7/05/2024	Soil	Jar	1			x											
2	TP67-0.5	7/05/2024	Soil	Jar	1		x												
3	TP67-1.0	7/05/2024	Soil	Jar	1		x												
4	TP68-0.1	7/05/2024	Soil	Jar + asbestos bag	2			x	x										
5	TP68-0.4	7/05/2024	Soil	Jar	1			x											
6	TP69-0.01	7/05/2024	Soil	Jar + asbestos bag	2			x	x										
7	TP70-0.1	7/05/2024	Soil	Jar + asbestos bag	2		x		x										
8	TP70-0.4	7/05/2024	Soil	Jar	1			x											
9	TP71-0.1	7/05/2024	Soil	Jar + asbestos bag	2			x	x										
10	TP71-0.4	7/05/2024	Soil	Jar	1		x												
11	TP72-0.1	7/05/2024	Soil	Jar + asbestos bag	2			x	x										
12	TP72-0.4	7/05/2024	Soil	Jar	1		x												
13	TP73-0.1	7/05/2024	Soil	Jar + asbestos bag	2		x		x										
TOTAL						19	6	7	6	0	0	0	0	0	0	0	0	0	0

Environmental Division
Brisbane
Work Order Reference
EB2415832



Telephone : + 61-7-3243 7222

Water Container Codes: P = Unpreserved Plastic; N = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide/Cd Preserved; S = Sodium Hydroxide Preserved Plastic; AG = Amber Glass Unpreserved; AP - Airfreight Unpreserved Plastic
V = VOA Vial HCl Preserved; VB = VOA Vial Sodium Bisulphate Preserved; VS = VOA Vial Sulfuric Preserved; AV = Airfreight Unpreserved Vial SG = Sulfuric Preserved Amber Glass; H = HCl preserved Plastic; HS = HCl preserved Specialion bottle; SP = Sulfuric Preserved Plastic; F = Formaldehyde Preserved Glass;
Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bottle; ASS = Plastic Bag for Acid Sulphate Soils; B = Unpreserved Bag.



CHAIN OF CUSTODY

ALS Laboratory: *please tick* →

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 Ph: 08 6209 7655 E: samples.perth@alsenviro.com
 Launceston: 27 Wellington St, Launceston TAS 7250
 Ph: 03 0301 2198 E: launceston@alsenviro.com

CLIENT: Environmental Advisors Pty Ltd	TURNAROUND REQUIREMENTS: <input checked="" type="checkbox"/> Standard TAT (List due date): 20 May 24 <small>(Standard TAT may be longer for some tests e.g., Ultra Trace Organics)</small>	FOR LABORATORY USE ONLY (Circle) Custody Seal intact? Yes No N/A Free ice / frozen ice blocks present upon receipt? Yes No N/A Random Sample Temperature on Receipt: °C Other comment:
OFFICE: Sunshine Coast	<input type="checkbox"/> Non Standard or urgent TAT (List due date):	
PROJECT: 125 NSC LAKE McDONALD DVE, COOROY	ALS QUOTE NO.: EB23ENVADV0001 V2	COC SEQUENCE NUMBER
ORDER NUMBER:		
PROJECT MANAGER: Andrew Winters	CONTACT PH: 0409 662 747	
SAMPLER: Andrew Winters	SAMPLER MOBILE: 0409 662 747	RELINQUISHED BY: Andrew Winters
COC emailed to ALS? <input checked="" type="checkbox"/> No	EDD FORMAT: Default	RECEIVED BY: CP
Email Reports to (will default to PM if no other addresses are listed): andrew@environmentaladvisors.com.au		DATE/TIME: 10/5/24 14:50
Email Invoice to (will default to PM if no other addresses are listed): admin@environmentaladvisors.com.au		DATE/TIME:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

ALS USE ONLY	SAMPLE DETAILS MATRIX: Solid(S) Water(W)				CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES (NB. Suite Codes must be listed to attract suite price) <small>Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (field filtered bottle required)</small>						Additional Information		
	LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE <small>(refer to codes below)</small>	TOTAL CONTAINERS	S-02 (8 Metals)	S-05 (TRH/BTEX/8 metals)	EA200G Asbestos (presence/absence in soil/bulk sample)	S-18 TRH(c-c)/BTEXN					
14	TP73-0.3	7/05/2024	Soil	Jar	1	x									
15	TP74-0.1	7/05/2024	Soil	Jar	1	x									
16	TP74-0.3	7/05/2024	Soil	Jar	1	x									
17	TP75-0.1	7/05/2024	Soil	Jar	1			x							
18	TP75-0.3	7/05/2024	Soil	Jar	1			x							
19	TP75-1.0	7/05/2024	Soil	Jar	1			x							
20	0705D	7/05/2024	Soil	Jar	1			x							
21	011747	7/05/2024	Soil	Jar	1					x					
TOTAL						8	3	4	0	1	0	0	0	0	0

Water Container Codes: P = Unpreserved Plastic; N = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide/Cd Preserved; S = Sodium Hydroxide Preserved Plastic; AG = Amber Glass Unpreserved; AP = Airtight Unpreserved Plastic
 V = VOA Vial HCl Preserved; VB = VOA Vial Sodium Bisulphate Preserved; VS = VOA Vial Sulfuric Preserved; AV = Airtight Unpreserved Vial SG = Sulfuric Preserved Amber Glass; H = HCl preserved Plastic; HS = HCl preserved Specialion bottle; SP = Sulfuric Preserved Plastic; F = Formaldehyde Preserved Glass;
 Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bottle; ASS = Plastic Bag for Acid Sulphate Soils; B = Unpreserved Bag



SAMPLE RECEIPT NOTIFICATION (SRN)

Work Order : **EB2415832**

Client	: ENVIRONMENTAL ADVISORS	Laboratory	: Environmental Division Brisbane
Contact	: ANDREW WINTERS	Contact	: Customer Services EB
Address	: 168 FLAXTON DRIVE MAPLETON 4560	Address	: 2 Byth Street Stafford QLD Australia 4053
E-mail	: andrew@environmentaladvisors.com.au	E-mail	: ALSEnviro.Brisbane@alsglobal.com
Telephone	: ----	Telephone	: +61 7 3243 7222
Facsimile	: ----	Facsimile	: +61-7-3243 7218
Project	: 125 NSC LAKE McDONALD DVE, COOROY	Page	: 1 of 3
Order number	: ----	Quote number	: EB2023ENVADV0001 (EB23ENVADV0001 V2)
C-O-C number	: ----	QC Level	: NEPM 2013 B3 & ALS QC Standard
Site	: ----		
Sampler	: ANDREW WINTERS		

Dates

Date Samples Received	: 10-May-2024 14:50	Issue Date	: 13-May-2024
Client Requested Due Date	: 20-May-2024	Scheduled Reporting Date	: 20-May-2024

Delivery Details

Mode of Delivery	: Carrier	Security Seal	: Intact.
No. of coolers/boxes	: ----	Temperature	: 7.6°C, 8.2°C, 7.4°C - Ice Bricks present
Receipt Detail	: ESKY	No. of samples received / analysed	: 21 / 21

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
- Discounted Package Prices apply only when specific ALS Group Codes ('W', 'S', 'NT' suites) are referenced on COCs.
- **EA200G ASBESTOS analysis on sample: 4, 6, 7, 9, 11 and 13 will be conducted by ALS Environmental, Melbourne, NATA accreditation No. 825, Site No. 13778.**
- **Sample 4: TP68-0.1 and 7: TP70-0.1 were received without identification on the ACM/ASBESTOS GRAB BAG, samples were matched with the ORANGE SOIL JAR through texture and colour of the supplied soil.**
- Please direct any turn around / technical queries to the laboratory contact designated above.
- Sample Disposal - Aqueous (3 weeks), Solid (2 months ± 1 week) from receipt of samples.
- Analysis will be conducted by ALS Environmental, Brisbane, NATA accreditation no. 825, Site No. 818 (Micro site no. 18958).
- **Breaches in recommended extraction / analysis holding times (if any) are displayed overleaf in the Proactive Holding Time Report table.**
- 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.
- **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.**



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	SOIL - EA055-103 Moisture Content	SOIL - EA200G Asbestos Identification in Soils -	SOIL - S-02 8 Metals (incl. Digestion)	SOIL - S-05 TRH/BTEXN/8 Metals	SOIL - S-18 (NO MOIST) TRH(C6-C9)/BTEXN with No Moisture for TBs
EB2415832-001	07-May-2024 00:00	TP67-0.1	✓			✓	
EB2415832-002	07-May-2024 00:00	TP67-0.5	✓		✓		
EB2415832-003	07-May-2024 00:00	TP67-1.0	✓		✓		
EB2415832-004	07-May-2024 00:00	TP68-0.1	✓	✓		✓	
EB2415832-005	07-May-2024 00:00	TP68-0.4	✓			✓	
EB2415832-006	07-May-2024 00:00	TP69-0.01	✓	✓		✓	
EB2415832-007	07-May-2024 00:00	TP70-0.1	✓	✓	✓		
EB2415832-008	07-May-2024 00:00	TP70-0.4	✓			✓	
EB2415832-009	07-May-2024 00:00	TP71-0.1	✓	✓		✓	
EB2415832-010	07-May-2024 00:00	TP71-0.4	✓		✓		
EB2415832-011	07-May-2024 00:00	TP72-0.1	✓	✓		✓	
EB2415832-012	07-May-2024 00:00	TP72-0.4	✓		✓		
EB2415832-013	07-May-2024 00:00	TP73-0.1	✓	✓	✓		
EB2415832-014	07-May-2024 00:00	TP73-0.3	✓		✓		
EB2415832-015	07-May-2024 00:00	TP74-0.1	✓		✓		
EB2415832-016	07-May-2024 00:00	TP74-0.3	✓		✓		
EB2415832-017	07-May-2024 00:00	TP75-0.1	✓			✓	
EB2415832-018	07-May-2024 00:00	TP75-0.3	✓			✓	
EB2415832-019	07-May-2024 00:00	TP75-1.0	✓			✓	
EB2415832-020	07-May-2024 00:00	0705D	✓			✓	
EB2415832-021	07-May-2024 00:00	011747					✓

Proactive Holding Time Report

Sample(s) have been received within the recommended holding times for the requested analysis.



Requested Deliverables

ALL INVOICES

- A4 - AU Tax Invoice (INV)	Email	admin@environmentaladvisors.com.au
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ANDREW WINTERS

- *AU Certificate of Analysis - NATA (COA)	Email	andrew@environmentaladvisors.com.au
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	andrew@environmentaladvisors.com.au
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	andrew@environmentaladvisors.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	andrew@environmentaladvisors.com.au
- Chain of Custody (CoC) (COC)	Email	andrew@environmentaladvisors.com.au
- EDI Format - ENMRG (ENMRG)	Email	andrew@environmentaladvisors.com.au
- EDI Format - XTab (XTAB)	Email	andrew@environmentaladvisors.com.au

Inter-Laboratory Testing

Analysis conducted by ALS Melbourne, NATA accreditation no. 825, site no. 13778 (Chemistry).
(SOIL) EA200: AS 4964 - 2004 Identification of Asbestos in Soils



CERTIFICATE OF ANALYSIS

Work Order : **EB2415832**
Client : **ENVIRONMENTAL ADVISORS**
Contact : ANDREW WINTERS
Address : 168 FLAXTON DRIVE
MAPLETON 4560
Telephone : ----
Project : 125 NSC LAKE McDONALD DVE, COOROY
Order number : ----
C-O-C number : ----
Sampler : ANDREW WINTERS
Site : ----
Quote number : EB23ENVADV0001 V2
No. of samples received : 21
No. of samples analysed : 21

Page : 1 of 12
Laboratory : Environmental Division Brisbane
Contact : Customer Services EB
Address : 2 Byth Street Stafford QLD Australia 4053
Telephone : +61 7 3243 7222
Date Samples Received : 10-May-2024 14:50
Date Analysis Commenced : 13-May-2024
Issue Date : 20-May-2024 07:00



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
- Descriptive 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
Kirsty Watson	Senior Chemist - Organics	Brisbane Organics, Stafford, QLD
Kirsty Watson	Senior Chemist - Organics	Brisbane Soil Preparation, Stafford, QLD
MINNIE TRAN	Approved Asbestos Identifier	Melbourne Asbestos, Springvale, VIC
Vincent Muller	Chemist - Inorganics	Brisbane Inorganics, Stafford, QLD



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.

- EP080: Where reported, Total Xylenes is the sum of the reported concentrations of m&p-Xylene and o-Xylene at or above the LOR.
- Samples 006, 007, 009 and 011 have been received below the recommended sample size. As this has the potential to understate asbestos detection, results should be scrutinised accordingly.
- EA200 'Am' Amosite (brown asbestos)
- EA200 'Cr' Crocidolite (blue asbestos)
- EA200 'Trace' - Asbestos fibres ("Free Fibres") detected by trace analysis per AS4964. The result can be interpreted that the sample contains detectable 'respirable' asbestos fibres
- EA200: Asbestos Identification Samples were analysed by Polarised Light Microscopy including dispersion staining.
- EA200 Legend
- EA200 'Ch' Chrysotile (white asbestos)
- EA200: 'UMF' Unknown Mineral Fibres. "-" indicates fibres detected may or may not be asbestos fibres. Confirmation by alternative techniques is recommended.
- EA200: For samples larger than 30g, the <2mm fraction may be sub-sampled prior to trace analysis as outlined in ISO23909:2008(E) Sect 6.3.2-2
- EA200: 'Yes' - Asbestos detected by polarised light microscopy including dispersion staining.
- EA200: 'No*' - No asbestos found, at the reporting limit of 0.1g/kg, by polarised light microscopy including dispersion staining. Asbestos material was detected and positively identified at concentrations estimated to be below 0.1g/kg.
- EA200: 'No' - No asbestos found at the reporting limit 0.1g/kg, by polarised light microscopy including dispersion staining.



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP67-0.1	TP67-0.5	TP67-1.0	TP68-0.1	TP68-0.4
Sampling date / time				07-May-2024 00:00	07-May-2024 00:00	07-May-2024 00:00	07-May-2024 00:00	07-May-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2415832-001	EB2415832-002	EB2415832-003	EB2415832-004	EB2415832-005	
				Result	Result	Result	Result	Result	
EA055: Moisture Content									
Moisture Content	----	1.0	%	8.0	----	----	15.1	23.4	
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	1.0	%	----	14.2	19.2	----	----	
EA200: AS 4964 - 2004 Identification of Asbestos in Soils									
Asbestos Detected	1332-21-4	0.1	g/kg	----	----	----	No	----	
Asbestos (Trace)	1332-21-4	-	-	----	----	----	No	----	
Asbestos Type	1332-21-4	-	--	----	----	----	-	----	
Sample weight (dry)	----	0.01	g	----	----	----	18.3	----	
APPROVED IDENTIFIER:	----	-	--	----	----	----	M. TRAN	----	
Synthetic Mineral Fibre	----	-	--	----	----	----	No	----	
Organic Fibre	----	-	--	----	----	----	Yes	----	
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	2	<1	
Chromium	7440-47-3	2	mg/kg	3	12	12	8	21	
Copper	7440-50-8	5	mg/kg	<5	<5	<5	8	<5	
Lead	7439-92-1	5	mg/kg	<5	5	6	78	12	
Nickel	7440-02-0	2	mg/kg	<2	<2	<2	2	<2	
Zinc	7440-66-6	5	mg/kg	5	<5	<5	596	213	
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	0.3	0.1	
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	TP67-0.1	TP67-0.5	TP67-1.0	TP68-0.1	TP68-0.4
Sampling date / time				07-May-2024 00:00	07-May-2024 00:00	07-May-2024 00:00	07-May-2024 00:00	07-May-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2415832-001	EB2415832-002	EB2415832-003	EB2415832-004	EB2415832-005	
				Result	Result	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	<100	----	----	<100	<100	
>C34 - C40 Fraction	----	100	mg/kg	<100	----	----	<100	<100	
[^] >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	----	----	<50	<50	
[^] >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	<50	----	----	<50	<50	
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg	<0.2	----	----	<0.2	<0.2	
Toluene	108-88-3	0.5	mg/kg	<0.5	----	----	<0.5	<0.5	
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	----	----	<0.5	<0.5	
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	----	----	<0.5	<0.5	
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	----	----	<0.5	<0.5	
[^] 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	
EP080S: TPH(V)/BTEX Surrogates									
1,2-Dichloroethane-D4	17060-07-0	0.2	%	86.6	----	----	88.8	89.5	
Toluene-D8	2037-26-5	0.2	%	86.8	----	----	85.8	87.6	
4-Bromofluorobenzene	460-00-4	0.2	%	93.6	----	----	88.2	90.6	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP69-0.01	TP70-0.1	TP70-0.4	TP71-0.1	TP71-0.4
Sampling date / time				07-May-2024 00:00	07-May-2024 00:00	07-May-2024 00:00	07-May-2024 00:00	07-May-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2415832-006	EB2415832-007	EB2415832-008	EB2415832-009	EB2415832-010	
				Result	Result	Result	Result	Result	
EA055: Moisture Content									
Moisture Content	----	1.0	%	12.6	----	9.8	10.4	----	
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	1.0	%	----	11.6	----	----	11.3	
EA200: AS 4964 - 2004 Identification of Asbestos in Soils									
Asbestos Detected	1332-21-4	0.1	g/kg	No	No	----	No	----	
Asbestos (Trace)	1332-21-4	-	-	No	No	----	No	----	
Asbestos Type	1332-21-4	-	--	-	-	----	-	----	
Sample weight (dry)	----	0.01	g	9.20	9.50	----	4.30	----	
APPROVED IDENTIFIER:	----	-	--	M. TRAN	M. TRAN	----	M. TRAN	----	
Synthetic Mineral Fibre	----	-	--	No	No	----	No	----	
Organic Fibre	----	-	--	Yes	Yes	----	No	----	
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	4	5	18	11	
Copper	7440-50-8	5	mg/kg	<5	<5	<5	<5	<5	
Lead	7439-92-1	5	mg/kg	14	5	<5	<5	6	
Nickel	7440-02-0	2	mg/kg	<2	<2	<2	<2	<2	
Zinc	7440-66-6	5	mg/kg	11	<5	<5	<5	<5	
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	
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	TP69-0.01	TP70-0.1	TP70-0.4	TP71-0.1	TP71-0.4
Sampling date / time				07-May-2024 00:00	07-May-2024 00:00	07-May-2024 00:00	07-May-2024 00:00	07-May-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2415832-006	EB2415832-007	EB2415832-008	EB2415832-009	EB2415832-010	
				Result	Result	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	<100	----	<100	<100	----	
>C34 - C40 Fraction	----	100	mg/kg	<100	----	<100	<100	----	
[^] >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	----	<50	<50	----	
[^] >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	<50	----	<50	<50	----	
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg	<0.2	----	<0.2	<0.2	----	
Toluene	108-88-3	0.5	mg/kg	<0.5	----	<0.5	<0.5	----	
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	----	<0.5	<0.5	----	
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	----	<0.5	<0.5	----	
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	----	<0.5	<0.5	----	
[^] 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	----	
EP080S: TPH(V)/BTEX Surrogates									
1,2-Dichloroethane-D4	17060-07-0	0.2	%	86.7	----	88.3	92.9	----	
Toluene-D8	2037-26-5	0.2	%	78.3	----	84.6	88.2	----	
4-Bromofluorobenzene	460-00-4	0.2	%	83.6	----	92.7	94.9	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP72-0.1	TP72-0.4	TP73-0.1	TP73-0.3	TP74-0.1
Sampling date / time				07-May-2024 00:00	07-May-2024 00:00	07-May-2024 00:00	07-May-2024 00:00	07-May-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2415832-011	EB2415832-012	EB2415832-013	EB2415832-014	EB2415832-015	
				Result	Result	Result	Result	Result	
EA055: Moisture Content									
Moisture Content	----	1.0	%	15.1	----	----	----	----	
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	1.0	%	----	12.8	18.2	15.0	19.9	
EA200: AS 4964 - 2004 Identification of Asbestos in Soils									
Asbestos Detected	1332-21-4	0.1	g/kg	No	----	No	----	----	
Asbestos (Trace)	1332-21-4	-	-	No	----	No	----	----	
Asbestos Type	1332-21-4	-	--	-	----	-	----	----	
Sample weight (dry)	----	0.01	g	3.10	----	10.0	----	----	
APPROVED IDENTIFIER:	----	-	--	M. TRAN	----	M. TRAN	----	----	
Synthetic Mineral Fibre	----	-	--	No	----	No	----	----	
Organic Fibre	----	-	--	No	----	Yes	----	----	
EG005(ED093)T: Total Metals by ICP-AES									
Arsenic	7440-38-2	5	mg/kg	<5	<5	<5	<5	<5	
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1	
Chromium	7440-47-3	2	mg/kg	5	9	11	16	16	
Copper	7440-50-8	5	mg/kg	<5	<5	<5	<5	<5	
Lead	7439-92-1	5	mg/kg	8	<5	9	7	15	
Nickel	7440-02-0	2	mg/kg	<2	<2	<2	<2	<2	
Zinc	7440-66-6	5	mg/kg	25	10	12	<5	41	
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	0.1	
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	10	mg/kg	<10	----	----	----	----	
C10 - C14 Fraction	----	50	mg/kg	<50	----	----	----	----	
C15 - C28 Fraction	----	100	mg/kg	<100	----	----	----	----	
C29 - C36 Fraction	----	100	mg/kg	<100	----	----	----	----	
^ C10 - C36 Fraction (sum)	----	50	mg/kg	<50	----	----	----	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP72-0.1	TP72-0.4	TP73-0.1	TP73-0.3	TP74-0.1
Sampling date / time				07-May-2024 00:00	07-May-2024 00:00	07-May-2024 00:00	07-May-2024 00:00	07-May-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2415832-011	EB2415832-012	EB2415832-013	EB2415832-014	EB2415832-015	
				Result	Result	Result	Result	Result	
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg	<10	----	----	----	----	
[^] C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<10	----	----	----	----	
>C10 - C16 Fraction	----	50	mg/kg	<50	----	----	----	----	
>C16 - C34 Fraction	----	100	mg/kg	<100	----	----	----	----	
>C34 - C40 Fraction	----	100	mg/kg	<100	----	----	----	----	
[^] >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	----	----	----	----	
[^] >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	<50	----	----	----	----	
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg	<0.2	----	----	----	----	
Toluene	108-88-3	0.5	mg/kg	<0.5	----	----	----	----	
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	----	----	----	----	
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	----	----	----	----	
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	----	----	----	----	
[^] Sum of BTEX	----	0.2	mg/kg	<0.2	----	----	----	----	
[^] Total Xylenes	----	0.5	mg/kg	<0.5	----	----	----	----	
Naphthalene	91-20-3	1	mg/kg	<1	----	----	----	----	
EP080S: TPH(V)/BTEX Surrogates									
1,2-Dichloroethane-D4	17060-07-0	0.2	%	89.8	----	----	----	----	
Toluene-D8	2037-26-5	0.2	%	85.4	----	----	----	----	
4-Bromofluorobenzene	460-00-4	0.2	%	90.1	----	----	----	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP74-0.3	TP75-0.1	TP75-0.3	TP75-1.0	0705D
Sampling date / time				07-May-2024 00:00	07-May-2024 00:00	07-May-2024 00:00	07-May-2024 00:00	07-May-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2415832-016	EB2415832-017	EB2415832-018	EB2415832-019	EB2415832-020	
				Result	Result	Result	Result	Result	
EA055: Moisture Content									
Moisture Content	----	1.0	%	----	18.8	16.8	15.2	13.3	
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	1.0	%	13.4	----	----	----	----	
EG005(ED093)T: Total Metals by ICP-AES									
Arsenic	7440-38-2	5	mg/kg	<5	11	11	<5	<5	
Cadmium	7440-43-9	1	mg/kg	<1	5	6	<1	<1	
Chromium	7440-47-3	2	mg/kg	21	30	34	38	14	
Copper	7440-50-8	5	mg/kg	<5	108	199	<5	<5	
Lead	7439-92-1	5	mg/kg	<5	929	1040	8	8	
Nickel	7440-02-0	2	mg/kg	<2	16	32	2	<2	
Zinc	7440-66-6	5	mg/kg	<5	1930	3650	451	22	
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.1	mg/kg	<0.1	0.6	0.8	<0.1	<0.1	
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	10	mg/kg	----	<10	<10	<10	<10	
C10 - C14 Fraction	----	50	mg/kg	----	<50	<50	<50	<50	
C15 - C28 Fraction	----	100	mg/kg	----	<100	<100	<100	<100	
C29 - C36 Fraction	----	100	mg/kg	----	<100	<100	<100	<100	
^ C10 - C36 Fraction (sum)	----	50	mg/kg	----	<50	<50	<50	<50	
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg	----	<10	<10	<10	<10	
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	----	<10	<10	<10	<10	
>C10 - C16 Fraction	----	50	mg/kg	----	<50	<50	<50	<50	
>C16 - C34 Fraction	----	100	mg/kg	----	<100	<100	<100	<100	
>C34 - C40 Fraction	----	100	mg/kg	----	<100	<100	<100	<100	
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	----	<50	<50	<50	<50	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP74-0.3	TP75-0.1	TP75-0.3	TP75-1.0	0705D
Sampling date / time				07-May-2024 00:00	07-May-2024 00:00	07-May-2024 00:00	07-May-2024 00:00	07-May-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2415832-016	EB2415832-017	EB2415832-018	EB2415832-019	EB2415832-020	
				Result	Result	Result	Result	Result	
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions - Continued									
[^] >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	----	<50	<50	<50	<50	
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg	----	<0.2	<0.2	<0.2	<0.2	
Toluene	108-88-3	0.5	mg/kg	----	<0.5	<0.5	<0.5	<0.5	
Ethylbenzene	100-41-4	0.5	mg/kg	----	<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	
ortho-Xylene	95-47-6	0.5	mg/kg	----	<0.5	<0.5	<0.5	<0.5	
[^] Sum of BTEX	----	0.2	mg/kg	----	<0.2	<0.2	<0.2	<0.2	
[^] Total Xylenes	----	0.5	mg/kg	----	<0.5	<0.5	<0.5	<0.5	
Naphthalene	91-20-3	1	mg/kg	----	<1	<1	<1	<1	
EP080S: TPH(V)/BTEX Surrogates									
1,2-Dichloroethane-D4	17060-07-0	0.2	%	----	84.9	92.5	92.1	85.0	
Toluene-D8	2037-26-5	0.2	%	----	76.9	84.2	89.7	77.4	
4-Bromofluorobenzene	460-00-4	0.2	%	----	81.0	91.9	98.4	86.2	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	011747	----	----	----	----
Sampling date / time			07-May-2024 00:00	----	----	----	----	
Compound	CAS Number	LOR	Unit	EB2415832-021	-----	-----	-----	-----
				Result	---	---	---	---
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	10	mg/kg	<10	---	---	---	---
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	10	mg/kg	<10	---	---	---	---
[^] C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<10	---	---	---	---
EP080: BTEXN								
Benzene	71-43-2	0.2	mg/kg	<0.2	---	---	---	---
Toluene	108-88-3	0.5	mg/kg	<0.5	---	---	---	---
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	---	---	---	---
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	---	---	---	---
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	---	---	---	---
[^] Sum of BTEX	----	0.2	mg/kg	<0.2	---	---	---	---
[^] Total Xylenes	----	0.5	mg/kg	<0.5	---	---	---	---
Naphthalene	91-20-3	1	mg/kg	<1	---	---	---	---
EP080S: TPH(V)/BTEX Surrogates								
1,2-Dichloroethane-D4	17060-07-0	0.2	%	96.9	---	---	---	---
Toluene-D8	2037-26-5	0.2	%	95.8	---	---	---	---
4-Bromofluorobenzene	460-00-4	0.2	%	100.0	---	---	---	---

Analytical Results

Descriptive Results

Sub-Matrix: SOIL		
Method: Compound	Sample ID - Sampling date / time	Analytical Results
EA200: AS 4964 - 2004 Identification of Asbestos in Soils		
EA200: Description	TP68-0.1 - 07-May-2024 00:00	Grey soil with organic matter.
EA200: Description	TP69-0.01 - 07-May-2024 00:00	Beige soil with organic matter.
EA200: Description	TP70-0.1 - 07-May-2024 00:00	Grey soil with organic matter.
EA200: Description	TP71-0.1 - 07-May-2024 00:00	Grey soil.
EA200: Description	TP72-0.1 - 07-May-2024 00:00	Grey soil.
EA200: Description	TP73-0.1 - 07-May-2024 00:00	Grey soil with organic matter.



Surrogate Control Limits

Sub-Matrix: SOIL		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP080S: TPH(V)/BTEX Surrogates			
1,2-Dichloroethane-D4	17060-07-0	53	134
Toluene-D8	2037-26-5	60	131
4-Bromofluorobenzene	460-00-4	59	127

Inter-Laboratory Testing

Analysis conducted by ALS Melbourne, NATA accreditation no. 825, site no. 13778 (Chemistry).

(SOIL) EA200: AS 4964 - 2004 Identification of Asbestos in Soils



QUALITY CONTROL REPORT

Work Order	: EB2415832	Page	: 1 of 5
Client	: ENVIRONMENTAL ADVISORS	Laboratory	: Environmental Division Brisbane
Contact	: ANDREW WINTERS	Contact	: Customer Services EB
Address	: 168 FLAXTON DRIVE MAPLETON 4560	Address	: 2 Byth Street Stafford QLD Australia 4053
Telephone	: ----	Telephone	: +61 7 3243 7222
Project	: 125 NSC LAKE McDONALD DVE, COOROY	Date Samples Received	: 10-May-2024
Order number	: ----	Date Analysis Commenced	: 13-May-2024
C-O-C number	: ----	Issue Date	: 20-May-2024
Sampler	: ANDREW WINTERS		
Site	: ----		
Quote number	: EB23ENVADV0001 V2		
No. of samples received	: 21		
No. of samples analysed	: 21		



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.

<i>Signatories</i>	<i>Position</i>	<i>Accreditation Category</i>
Kirsty Watson	Senior Chemist - Organics	Brisbane Organics, Stafford, QLD
Kirsty Watson	Senior Chemist - Organics	Brisbane Soil Preparation, Stafford, QLD
MINNIE TRAN	Approved Asbestos Identifier	Melbourne Asbestos, Springvale, VIC
Vincent Muller	Chemist - Inorganics	Brisbane Inorganics, Stafford, QLD



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: 5786158)									
EB2415832-001	TP67-0.1	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	3	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	<5	<5	0.0	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	5	5	0.0	No Limit
EB2415832-011	TP72-0.1	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	5	11	78.7	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	8	20	84.7	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	25	47	63.3	No Limit
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 5786164)									
EB2415832-001	TP67-0.1	EA055: Moisture Content	----	0.1 (1.0)*	%	8.0	8.3	3.8	No Limit
EB2415832-011	TP72-0.1	EA055: Moisture Content	----	0.1 (1.0)*	%	15.1	14.8	1.9	0% - 50%
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 5786157)									
EB2415832-001	TP67-0.1	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EB2415832-011	TP72-0.1	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	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 (%)
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 5786161)									
EB2415832-001	TP67-0.1	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
EB2415832-020	0705D	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 5786162)									
EB2415832-001	TP67-0.1	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
EB2415848-001	Anonymous	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: 5786161)									
EB2415832-001	TP67-0.1	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.0	No Limit
EB2415832-020	0705D	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: 5786162)									
EB2415832-001	TP67-0.1	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
EB2415848-001	Anonymous	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: 5786161)									
EB2415832-001	TP67-0.1	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
EB2415832-020	0705D	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



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: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
				Result	Spike Concentration	Spike Recovery (%) LCS	Acceptable Limits (%) Low High	
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 5786158)								
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	63.5 mg/kg	111	84.0	123
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	----	----	----	----
EG005T: Chromium	7440-47-3	2	mg/kg	<2	16.4 mg/kg	99.7	83.0	125
EG005T: Copper	7440-50-8	5	mg/kg	<5	41.3 mg/kg	97.9	86.0	122
EG005T: Lead	7439-92-1	5	mg/kg	<5	48.7 mg/kg	106	84.0	119
EG005T: Nickel	7440-02-0	2	mg/kg	<2	14.1 mg/kg	92.0	81.5	118
EG005T: Zinc	7440-66-6	5	mg/kg	<5	184 mg/kg	88.3	80.0	120
EG035T: Total Recoverable Mercury by FIMS (QCLot: 5786157)								
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.10183 mg/kg	108	70.0	125
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5786161)								
EP080: C6 - C9 Fraction	----	10	mg/kg	<10	18 mg/kg	78.6	64.0	120
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5786162)								
EP071: C10 - C14 Fraction	----	50	mg/kg	<50	378 mg/kg	103	63.3	125
EP071: C15 - C28 Fraction	----	100	mg/kg	<100	407 mg/kg	98.0	56.1	122
EP071: C29 - C36 Fraction	----	100	mg/kg	<100	----	----	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5786161)								
EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	22.5 mg/kg	81.4	58.1	124
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5786162)								
EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	502 mg/kg	102	61.2	132
EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	268 mg/kg	95.8	52.6	130
EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	----	----	----	----
EP080: BTEXN (QCLot: 5786161)								
EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	1 mg/kg	81.1	68.0	107
EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	1 mg/kg	81.3	69.0	108
EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	1 mg/kg	83.1	68.0	109
EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	2 mg/kg	83.0	70.0	114
EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	1 mg/kg	82.4	74.0	116
EP080: Naphthalene	91-20-3	1	mg/kg	<1	1 mg/kg	88.4	74.0	109



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

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 5786158)							
EB2415832-002	TP67-0.5	EG005T: Arsenic	7440-38-2	50 mg/kg	72.1	70.0	130
		EG005T: Cadmium	7440-43-9	50 mg/kg	96.2	70.0	130
		EG005T: Chromium	7440-47-3	50 mg/kg	94.4	70.0	130
		EG005T: Copper	7440-50-8	250 mg/kg	97.1	70.0	130
		EG005T: Lead	7439-92-1	250 mg/kg	95.5	70.0	130
		EG005T: Nickel	7440-02-0	50 mg/kg	96.7	70.0	130
		EG005T: Zinc	7440-66-6	250 mg/kg	95.1	70.0	130
EG035T: Total Recoverable Mercury by FIMS (QCLot: 5786157)							
EB2415832-002	TP67-0.5	EG035T: Mercury	7439-97-6	0.5 mg/kg	101	70.0	130
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5786161)							
EB2415832-004	TP68-0.1	EP080: C6 - C9 Fraction	----	8 mg/kg	74.2	70.0	130
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5786162)							
EB2415832-004	TP68-0.1	EP071: C10 - C14 Fraction	----	379 mg/kg	98.4	70.0	130
		EP071: C15 - C28 Fraction	----	407 mg/kg	95.1	70.0	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5786161)							
EB2415832-004	TP68-0.1	EP080: C6 - C10 Fraction	C6_C10	8 mg/kg	86.9	70.0	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5786162)							
EB2415832-004	TP68-0.1	EP071: >C10 - C16 Fraction	----	502 mg/kg	99.0	70.0	130
		EP071: >C16 - C34 Fraction	----	268 mg/kg	92.7	70.0	130
EP080: BTEXN (QCLot: 5786161)							
EB2415832-004	TP68-0.1	EP080: Benzene	71-43-2	2 mg/kg	76.0	70.0	130
		EP080: Toluene	108-88-3	2 mg/kg	70.3	70.0	130



QA/QC Compliance Assessment to assist with Quality Review

Work Order	: EB2415832	Page	: 1 of 6
Client	: ENVIRONMENTAL ADVISORS	Laboratory	: Environmental Division Brisbane
Contact	: ANDREW WINTERS	Telephone	: +61 7 3243 7222
Project	: 125 NSC LAKE McDONALD DVE, COOROY	Date Samples Received	: 10-May-2024
Site	: ----	Issue Date	: 20-May-2024
Sampler	: ANDREW WINTERS	No. of samples received	: 21
Order number	: ----	No. of samples analysed	: 21

This report is automatically generated by the ALS LIMS through interpretation of the ALS Quality Control Report and several Quality Assurance parameters measured by ALS. This automated reporting highlights any non-conformances, facilitates faster and more accurate data validation and is designed to assist internal expert and external Auditor review. Many components of this report contribute to the overall DQO assessment and reporting for guideline compliance.

Brief method summaries and references are also provided to assist in traceability.

Summary of Outliers

Outliers : Quality Control Samples

This report highlights outliers flagged in the Quality Control (QC) Report.

- **NO Method Blank value outliers occur.**
- **NO Duplicate outliers occur.**
- **NO Laboratory Control outliers occur.**
- **NO Matrix Spike outliers occur.**
- For all regular sample matrices, where applicable to the methodology, **NO surrogate recovery outliers occur.**

Outliers : Analysis Holding Time Compliance

- **NO Analysis Holding Time Outliers exist.**

Outliers : Frequency of Quality Control Samples

- **NO Quality Control Sample Frequency Outliers exist.**



Analysis Holding Time Compliance

If samples are identified below as having been analysed or extracted outside of recommended holding times, this should be taken into consideration when interpreting results.

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times (referencing USEPA SW 846, APHA, AS and NEPM) based on the sample container provided. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. A listing of breaches (if any) is provided herein.

Holding time for leachate methods (e.g. TCLP) vary according to the analytes reported. Assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These are: organics 14 days, mercury 28 days & other metals 180 days. A recorded breach does not guarantee a breach for all non-volatile parameters.

Holding times for VOC in soils vary according to analytes of interest. Vinyl Chloride and Styrene holding time is 7 days; others 14 days. A recorded breach does not guarantee a breach for all VOC analytes and should be verified in case the reported breach is a false positive or Vinyl Chloride and Styrene are not key analytes of interest/concern.

Matrix: **SOIL**

Evaluation: * = Holding time breach ; ✓ = Within holding time.

Method Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis			
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation	
EA055: Moisture Content								
Soil Glass Jar - Unpreserved (EA055)								
TP67-0.1, TP68-0.4, TP70-0.4, TP72-0.1, TP75-0.3, 0705D	TP68-0.1, TP69-0.01, TP71-0.1, TP75-0.1, TP75-1.0,	07-May-2024	----	----	----	13-May-2024	21-May-2024	✓
EA055: Moisture Content (Dried @ 105-110°C)								
Soil Glass Jar - Unpreserved (EA055)								
TP67-0.5, TP70-0.1, TP72-0.4, TP73-0.3, TP74-0.3	TP67-1.0, TP71-0.4, TP73-0.1, TP74-0.1,	07-May-2024	----	----	----	13-May-2024	21-May-2024	✓
EA200: AS 4964 - 2004 Identification of Asbestos in Soils								
Snap Lock Bag - ACM/Asbestos Grab Bag (EA200)								
TP68-0.1, TP70-0.1, TP72-0.1,	TP69-0.01, TP71-0.1, TP73-0.1	07-May-2024	----	----	----	14-May-2024	03-Nov-2024	✓
EG005(ED093)T: Total Metals by ICP-AES								
Soil Glass Jar - Unpreserved (EG005T)								
TP67-0.1, TP67-1.0, TP68-0.4, TP70-0.1, TP71-0.1, TP72-0.1, TP73-0.1, TP74-0.1, TP75-0.1, TP75-1.0,	TP67-0.5, TP68-0.1, TP69-0.01, TP70-0.4, TP71-0.4, TP72-0.4, TP73-0.3, TP74-0.3, TP75-0.3, 0705D	07-May-2024	14-May-2024	03-Nov-2024	✓	16-May-2024	03-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	
EG035T: Total Recoverable Mercury by FIMS								
Soil Glass Jar - Unpreserved (EG035T) TP67-0.1, TP67-1.0, TP68-0.4, TP70-0.1, TP71-0.1, TP72-0.1, TP73-0.1, TP74-0.1, TP75-0.1, TP75-1.0, TP67-0.5, TP68-0.1, TP69-0.01, TP70-0.4, TP71-0.4, TP72-0.4, TP73-0.3, TP74-0.3, TP75-0.3, 0705D	07-May-2024	14-May-2024	04-Jun-2024	✓	17-May-2024	04-Jun-2024	✓	
EP080/071: Total Petroleum Hydrocarbons								
Soil Glass Jar - Unpreserved (EP080) TP67-0.1, TP68-0.4, TP70-0.4, TP72-0.1, TP75-0.3, 0705D	07-May-2024	14-May-2024	21-May-2024	✓	15-May-2024	21-May-2024	✓	
Soil Glass Jar - Unpreserved (EP080) 011747	07-May-2024	14-May-2024	21-May-2024	✓	16-May-2024	21-May-2024	✓	
Soil Glass Jar - Unpreserved (EP071) TP67-0.1, TP68-0.1	07-May-2024	15-May-2024	21-May-2024	✓	16-May-2024	24-Jun-2024	✓	
Soil Glass Jar - Unpreserved (EP071) TP68-0.4, TP70-0.4, TP72-0.1, TP75-0.3, 0705D	07-May-2024	15-May-2024	21-May-2024	✓	17-May-2024	24-Jun-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) TP67-0.1, TP68-0.4, TP70-0.4, TP72-0.1, TP75-0.3, 0705D	TP68-0.1, TP69-0.01, TP71-0.1, TP75-0.1, TP75-1.0,	07-May-2024	14-May-2024	21-May-2024	✓	15-May-2024	21-May-2024	✓
Soil Glass Jar - Unpreserved (EP080) 011747		07-May-2024	14-May-2024	21-May-2024	✓	16-May-2024	21-May-2024	✓
Soil Glass Jar - Unpreserved (EP071) TP67-0.1,	TP68-0.1	07-May-2024	15-May-2024	21-May-2024	✓	16-May-2024	24-Jun-2024	✓
Soil Glass Jar - Unpreserved (EP071) TP68-0.4, TP70-0.4, TP72-0.1, TP75-0.3, 0705D	TP69-0.01, TP71-0.1, TP75-0.1, TP75-1.0,	07-May-2024	15-May-2024	21-May-2024	✓	17-May-2024	24-Jun-2024	✓
EP080: BTEXN								
Soil Glass Jar - Unpreserved (EP080) TP67-0.1, TP68-0.4, TP70-0.4, TP72-0.1, TP75-0.3, 0705D	TP68-0.1, TP69-0.01, TP71-0.1, TP75-0.1, TP75-1.0,	07-May-2024	14-May-2024	21-May-2024	✓	15-May-2024	21-May-2024	✓
Soil Glass Jar - Unpreserved (EP080) 011747		07-May-2024	14-May-2024	21-May-2024	✓	16-May-2024	21-May-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	Method	Count		Rate (%)			Quality Control Specification
		QC	Regular	Actual	Expected	Evaluation	
Analytical Methods							
Laboratory Duplicates (DUP)							
Moisture Content	EA055	2	20	10.00	10.00	✔	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	2	20	10.00	10.00	✔	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	2	20	10.00	10.00	✔	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	2	19	10.53	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)							
Total Mercury by FIMS	EG035T	1	20	5.00	5.00	✔	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	20	5.00	5.00	✔	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	19	5.26	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)							
Total Mercury by FIMS	EG035T	1	20	5.00	5.00	✔	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	20	5.00	5.00	✔	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	19	5.26	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)							
Total Mercury by FIMS	EG035T	1	20	5.00	5.00	✔	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	20	5.00	5.00	✔	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	19	5.26	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).
Asbestos Identification in Soils	EA200	SOIL	AS 4964 Method for the qualitative identification of asbestos in bulk samples Analysis by Polarised Light Microscopy including dispersion staining
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 (SnCl ₂) (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 SnCl ₂ 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)
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).
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.
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, Na ₂ SO ₄ 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.



From: Andrew Winters <Andrew@environmentaladvisors.com.au>
Sent: Tuesday, May 21, 2024 8:43 AM
To: Samples Brisbane <Samples.Brisbane@alsglobal.com>
Subject: [EXTERNAL] - EB2415832 additional analysis request

CAUTION: This email originated from outside of ALS. Do not click links or open attachments unless you recognize the sender and are sure content is relevant to you.

ALS

Could you please perform soil waste classification TCLP's on the following samples from EB2415832:

TP68-0.1 – zinc
TP68-0.4 - zinc
TP74-0.1 – zinc, copper, lead, nickel
TP74-0.3 – zinc, copper, lead, nickel
TP75-1.0 - zinc

Regards



Environmental
Advisors

Andrew Winters
Director | Principal Scientist
M: 0409 662 747
E: Andrew@EnvironmentalAdvisors.com.au
www.EnvironmentalAdvisors.com.au
PO Box 505 Buddina | QLD | 4575



Environmental Division
Brisbane
Work Order Reference
EB2417075



Telephone : + 61-7-3243 7222



SAMPLE RECEIPT NOTIFICATION (SRN)

Work Order : **EB2417075**

Client	: ENVIRONMENTAL ADVISORS	Laboratory	: Environmental Division Brisbane
Contact	: ANDREW WINTERS	Contact	: Customer Services EB
Address	: 168 FLAXTON DRIVE MAPLETON 4560	Address	: 2 Byth Street Stafford QLD Australia 4053
E-mail	: andrew@environmentaladvisors.com.au	E-mail	: ALSEnviro.Brisbane@alsglobal.com
Telephone	: ----	Telephone	: +61 7 3243 7222
Facsimile	: ----	Facsimile	: +61-7-3243 7218
Project	: 125 NSC LAKE McDONALD DVE, COOROY	Page	: 1 of 2
Order number	: ----	Quote number	: EB2023ENVADV0001 (EB23ENVADV0001 V2)
C-O-C number	: ----	QC Level	: NEPM 2013 B3 & ALS QC Standard
Site	: ----		
Sampler	:		

Dates

Date Samples Received	: 21-May-2024 09:16	Issue Date	: 21-May-2024
Client Requested Due Date	: 28-May-2024	Scheduled Reporting Date	: 28-May-2024

Delivery Details

Mode of Delivery	: Samples On Hand	Security Seal	: Not Available
No. of coolers/boxes	: ----	Temperature	: ----
Receipt Detail	: REBATCH	No. of samples received / analysed	: 5 / 5

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
- This is a rebatch of EB2415832.
- Discounted Package Prices apply only when specific ALS Group Codes ('W', 'S', 'NT' suites) are referenced on COCs.
- Please direct any turn around / technical queries to the laboratory contact designated above.
- Sample Disposal - Aqueous (3 weeks), Solid (2 months ± 1 week) from receipt of samples.
- Analysis will be conducted by ALS Environmental, Brisbane, NATA accreditation no. 825, Site No. 818 (Micro site no. 18958).
- **Breaches in recommended extraction / analysis holding times (if any) are displayed overleaf in the Proactive Holding Time Report table.**
- 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.
- **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.**



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	SOIL - EG005C Leachable Metals by ICPAES	SOIL - EN33a-G TCLP Leachate - Glass Leaching Vessel
EB2417075-001	07-May-2024 00:00	TP68-0.1	✓	✓
EB2417075-002	07-May-2024 00:00	TP68-0.4	✓	✓
EB2417075-003	07-May-2024 00:00	TP74-0.1	✓	✓
EB2417075-004	07-May-2024 00:00	TP74-0.3	✓	✓
EB2417075-005	07-May-2024 00:00	TP75-1.0	✓	✓

Proactive Holding Time Report

Sample(s) have been received within the recommended holding times for the requested analysis.

Requested Deliverables

ALL INVOICES

- A4 - AU Tax Invoice (INV) Email admin@environmentaladvisors.com.au

ANDREW WINTERS

- *AU Certificate of Analysis - NATA (COA) Email andrew@environmentaladvisors.com.au
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI) Email andrew@environmentaladvisors.com.au
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC) Email andrew@environmentaladvisors.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN) Email andrew@environmentaladvisors.com.au
- Chain of Custody (CoC) (COC) Email andrew@environmentaladvisors.com.au
- EDI Format - ENMRG (ENMRG) Email andrew@environmentaladvisors.com.au
- EDI Format - XTab (XTAB) Email andrew@environmentaladvisors.com.au



CERTIFICATE OF ANALYSIS

Work Order : **EB2417075**
Client : **ENVIRONMENTAL ADVISORS**
Contact : ANDREW WINTERS
Address : 168 FLAXTON DRIVE
MAPLETON 4560
Telephone : ----
Project : 125 NSC LAKE McDONALD DVE, COOROY
Order number : ----
C-O-C number : ----
Sampler : ----
Site : ----
Quote number : EB23ENVADV0001 V2
No. of samples received : 5
No. of samples analysed : 5

Page : 1 of 4
Laboratory : Environmental Division Brisbane
Contact : Customer Services EB
Address : 2 Byth Street Stafford QLD Australia 4053
Telephone : +61 7 3243 7222
Date Samples Received : 21-May-2024 09:16
Date Analysis Commenced : 21-May-2024
Issue Date : 24-May-2024 12:07



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

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.

<i>Signatories</i>	<i>Position</i>	<i>Accreditation Category</i>
Kim McCabe	Senior Inorganic Chemist	Brisbane Inorganics, Stafford, QLD
Kim McCabe	Senior Inorganic Chemist	Brisbane Soil Preparation, Stafford, QLD



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.

- This is a rebatch of EB2415832.



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP68-0.1	TP68-0.4	TP74-0.1	TP74-0.3	TP75-1.0
Sampling date / time				07-May-2024 00:00	07-May-2024 00:00	07-May-2024 00:00	07-May-2024 00:00	07-May-2024 00:00	
Compound	CAS Number	LOR	Unit	EB2417075-001	EB2417075-002	EB2417075-003	EB2417075-004	EB2417075-005	
				Result	Result	Result	Result	Result	
EN33: TCLP Leach - Inorganics/Non-Volatile Organics (Glass Vessel)									
Initial pH	----	0.1	pH Unit	7.1	6.0	5.0	4.9	5.2	
After HCl pH	----	0.1	pH Unit	1.6	1.6	1.6	1.7	1.7	
Extraction Fluid Number	----	1	-	1	1	1	1	1	
Final pH	----	0.1	pH Unit	5.1	5.0	5.0	5.0	5.0	



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

				Sample ID	TP68-0.1	TP68-0.4	TP74-0.1	TP74-0.3	TP75-1.0
				Sampling date / time	07-May-2024 00:00	07-May-2024 00:00	07-May-2024 00:00	07-May-2024 00:00	07-May-2024 00:00
Compound	CAS Number	LOR	Unit		EB2417075-001	EB2417075-002	EB2417075-003	EB2417075-004	EB2417075-005
					Result	Result	Result	Result	Result
EG005(ED093)C: Leachable Metals by ICPAES									
Copper	7440-50-8	0.1	mg/L		----	----	<0.1	<0.1	----
Lead	7439-92-1	0.1	mg/L		----	----	<0.1	<0.1	----
Nickel	7440-02-0	0.1	mg/L		----	----	<0.1	<0.1	----
Zinc	7440-66-6	0.1	mg/L		8.4	4.0	0.8	0.4	6.7



QUALITY CONTROL REPORT

Work Order	: EB2417075	Page	: 1 of 3
Client	: ENVIRONMENTAL ADVISORS	Laboratory	: Environmental Division Brisbane
Contact	: ANDREW WINTERS	Contact	: Customer Services EB
Address	: 168 FLAXTON DRIVE MAPLETON 4560	Address	: 2 Byth Street Stafford QLD Australia 4053
Telephone	: ----	Telephone	: +61 7 3243 7222
Project	: 125 NSC LAKE McDONALD DVE, COOROY	Date Samples Received	: 21-May-2024
Order number	: ----	Date Analysis Commenced	: 21-May-2024
C-O-C number	: ----	Issue Date	: 24-May-2024
Sampler	: ----		
Site	: ----		
Quote number	: EB23ENVADV0001 V2		
No. of samples received	: 5		
No. of samples analysed	: 5		



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
Kim McCabe	Senior Inorganic Chemist	Brisbane Inorganics, Stafford, QLD
Kim McCabe	Senior Inorganic Chemist	Brisbane Soil Preparation, Stafford, QLD



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

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 (%)
EG005(ED093)C: Leachable Metals by ICPAES (QC Lot: 5808898)									
EB2416937-001	Anonymous	EG005C: Copper	7440-50-8	0.1	mg/L	0.4	0.4	0.0	No Limit
		EG005C: Lead	7439-92-1	0.1	mg/L	<0.1	<0.1	0.0	No Limit
		EG005C: Nickel	7440-02-0	0.1	mg/L	<0.1	<0.1	0.0	No Limit
		EG005C: Zinc	7440-66-6	0.1	mg/L	4.7	4.4	5.8	0% - 20%
EB2416959-005	Anonymous	EG005C: Copper	7440-50-8	0.1	mg/L	<0.1	<0.1	0.0	No Limit
		EG005C: Lead	7439-92-1	0.1	mg/L	<0.1	<0.1	0.0	No Limit
		EG005C: Nickel	7440-02-0	0.1	mg/L	<0.1	<0.1	0.0	No Limit
		EG005C: Zinc	7440-66-6	0.1	mg/L	0.3	0.3	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			
				Result	Spike Concentration	Spike Recovery (%)	Acceptable Limits (%)	
Method: Compound	CAS Number	LOR	Unit			LCS	Low	High
EN33: TCLP Leach - Inorganics/Non-Volatile Organics (Glass Vessel) (QCLot: 5804611)								
EN33a-G: Final pH	----	0.1	pH Unit	5.0	----	----	----	----

Sub-Matrix: **WATER**

				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
				Result	Spike Concentration	Spike Recovery (%)	Acceptable Limits (%)	
Method: Compound	CAS Number	LOR	Unit			LCS	Low	High
EG005(ED093)C: Leachable Metals by ICPAES (QCLot: 5808898)								
EG005C: Copper	7440-50-8	0.1	mg/L	<0.1	0.1 mg/L	96.5	87.0	117
EG005C: Lead	7439-92-1	0.1	mg/L	<0.1	0.1 mg/L	92.0	85.0	117
EG005C: Nickel	7440-02-0	0.1	mg/L	<0.1	0.1 mg/L	94.9	90.0	116
EG005C: Zinc	7440-66-6	0.1	mg/L	<0.1	0.1 mg/L	98.8	87.0	122

Matrix Spike (MS) Report

The quality control term Matrix Spike (MS) refers to an intralaboratory split sample spiked with a representative set of target analytes. The purpose of this QC parameter is to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQOs). Ideal recovery ranges stated may be waived in the event of sample matrix interference.

Sub-Matrix: **WATER**

				Matrix Spike (MS) Report			
				Concentration	Spike Recovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number		MS	Low	High
EG005(ED093)C: Leachable Metals by ICPAES (QCLot: 5808898)							
EB2416937-002	Anonymous	EG005C: Copper	7440-50-8	1 mg/L	104	70.0	130
		EG005C: Lead	7439-92-1	1 mg/L	103	70.0	130
		EG005C: Nickel	7440-02-0	1 mg/L	95.2	70.0	130
		EG005C: Zinc	7440-66-6	1 mg/L	# Not Determined	70.0	130



QA/QC Compliance Assessment to assist with Quality Review

Work Order	: EB2417075	Page	: 1 of 4
Client	: ENVIRONMENTAL ADVISORS	Laboratory	: Environmental Division Brisbane
Contact	: ANDREW WINTERS	Telephone	: +61 7 3243 7222
Project	: 125 NSC LAKE McDONALD DVE, COOROY	Date Samples Received	: 21-May-2024
Site	: ----	Issue Date	: 24-May-2024
Sampler	: ----	No. of samples received	: 5
Order number	: ----	No. of samples analysed	: 5

This report is automatically generated by the ALS LIMS through interpretation of the ALS Quality Control Report and several Quality Assurance parameters measured by ALS. This automated reporting highlights any non-conformances, facilitates faster and more accurate data validation and is designed to assist internal expert and external Auditor review. Many components of this report contribute to the overall DQO assessment and reporting for guideline compliance.

Brief method summaries and references are also provided to assist in traceability.

Summary of Outliers

Outliers : Quality Control Samples

This report highlights outliers flagged in the Quality Control (QC) Report.

- **NO Method Blank value outliers occur.**
- **NO Duplicate outliers occur.**
- **NO Laboratory Control outliers occur.**
- Matrix Spike outliers exist - please see following pages for full details.
- For all regular sample matrices, where applicable to the methodology, **NO surrogate recovery outliers occur.**

Outliers : Analysis Holding Time Compliance

- **NO Analysis Holding Time Outliers exist.**

Outliers : Frequency of Quality Control Samples

- **NO Quality Control Sample Frequency Outliers exist.**



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
Matrix Spike (MS) Recoveries							
EG005(ED093)C: Leachable Metals by ICPAES	EB2416937--002	Anonymous	Zinc	7440-66-6	Not Determined	----	MS recovery not determined, background level greater than or equal to 4x spike level.

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
EN33: TCLP Leach - Inorganics/Non-Volatile Organics (Glass Vessel)							
Non-Volatile Leach: 180 day HT (e.g. PFAS, metals ex.Hg) (EN33a-G) TP68-0.1, TP74-0.1, TP75-1.0	07-May-2024	21-May-2024	03-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
EG005(ED093)C: Leachable Metals by ICPAES							
Clear Plastic Bottle - Nitric Acid; Unfiltered (EG005C) TP68-0.1, TP74-0.1, TP75-1.0	21-May-2024	23-May-2024	17-Nov-2024	✓	23-May-2024	17-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	Method	Count		Rate (%)			Quality Control Specification
		QC	Reaular	Actual	Expected	Evaluation	
Analytical Methods							
Method Blanks (MB)							
TCLP for Non & Semivolatile Analytes - Glass Leaching Vessel	EN33a-G	1	6	16.67	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	Method	Count		Rate (%)			Quality Control Specification
		QC	Reaular	Actual	Expected	Evaluation	
Analytical Methods							
Laboratory Duplicates (DUP)							
Leachable Metals by ICPAES	EG005C	2	16	12.50	10.00	✔	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Leachable Metals by ICPAES	EG005C	1	16	6.25	5.00	✔	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Leachable Metals by ICPAES	EG005C	1	16	6.25	5.00	✔	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Leachable Metals by ICPAES	EG005C	1	16	6.25	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.

<i>Analytical Methods</i>	<i>Method</i>	<i>Matrix</i>	<i>Method Descriptions</i>
Leachable Metals by ICPAES	EG005C	SOIL	In house: referenced to APHA 3120; USEPA SW 846 - 6010: The ICPAES technique ionises leachate sample atoms emitting a characteristic spectrum. This spectrum is then compared against matrix matched standards for quantification. This method is compliant with NEPM Schedule B(3).
<i>Preparation Methods</i>	<i>Method</i>	<i>Matrix</i>	<i>Method Descriptions</i>
Digestion for Total Recoverable Metals in TCLP Leachate	EN25C	SOIL	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)
TCLP for Non & Semivolatile Analytes - Glass Leaching Vessel	EN33a-G	SOIL	In house QWI-EN/33 referenced to USEPA SW846-1311: The TCLP procedure is designed to determine the mobility of both organic and inorganic analytes present in wastes. The standard TCLP leach is for non-volatile and Semivolatile test parameters.

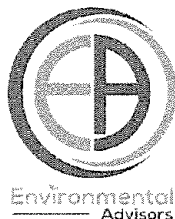


From: Andrew Winters <Andrew@environmentaladvisors.com.au>
Sent: Monday, June 3, 2024 2:42 PM
To: Samples Brisbane <Samples.Brisbane@alsglobal.com>
Subject: [EXTERNAL] - FW: additional TCLP analysis

CAUTION: This email originated from outside of ALS. Do not click links or open attachments unless you recognize the sender and are sure content is relevant to you.

....and last request - can those TCLP's for TP75-0.1 and TP75-0.3 also be scheduled for cadmium (along with the already requested zinc, copper, lead and nickel).

Regards



Andrew Winters
Director | Principal Scientist
M: 0409 662 747
E: Andrew@EnvironmentalAdvisors.com.au
www.EnvironmentalAdvisors.com.au
PO Box 505 Buddina | QLD | 4575



Environmental Division
Brisbane
Work Order Reference
EB2418813



Telephone : + 61-7-3243 7222

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From: Andrew Winters
Sent: Monday, June 3, 2024 1:22 PM
To: Samples Brisbane <Samples.Brisbane@alsglobal.com>
Subject: additional TCLP analysis

Hi ALS

Further to the below, would an earlier sample from this site - TP40-0.1 from EB2406372 (collected 21/2/24) also be available for urgent TCLP for zinc, copper, lead and nickel?

Regards

Andrew Winters
Director | Principal Scientist
M: 0409 662 747
E: Andrew@EnvironmentalAdvisors.com.au
www.EnvironmentalAdvisors.com.au
PO Box 505 Buddina | QLD | 4575



This message is intended only for the use of the addressee. If you are not the intended recipient, the use, dissemination, distribution or reproduction of this message is prohibited. If you have received this message in error, please notify the sender immediately.

From: Andrew Winters
Sent: Monday, June 3, 2024 1:11 PM
To: Samples Brisbane <Samples.Brisbane@alsglobal.com>
Subject: EB2415832 additional analysis request - Urgent

Hi ALS,

Could you please urgently (**happy to pay surcharge for 2 or 3 day turnaround**) perform soil waste classification TCLP's on the following samples from EB2415832:

TP75-0.1 – zinc, copper, lead, nickel
TP75-0.3 – zinc, copper, lead, nickel

Regards



Andrew Winters
Director | Principal Scientist
M: 0409 662 747
E: Andrew@EnvironmentalAdvisors.com.au
www.EnvironmentalAdvisors.com.au
PO Box 505 Buddina | QLD | 4575



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SAMPLE RECEIPT NOTIFICATION (SRN)

Work Order : **EB2418813**

Client	: ENVIRONMENTAL ADVISORS	Laboratory	: Environmental Division Brisbane
Contact	: ANDREW WINTERS	Contact	: Customer Services EB
Address	: 168 FLAXTON DRIVE MAPLETON 4560	Address	: 2 Byth Street Stafford QLD Australia 4053
E-mail	: andrew@environmentaladvisors.com.au	E-mail	: ALSEnviro.Brisbane@alsglobal.com
Telephone	: ----	Telephone	: +61 7 3243 7222
Facsimile	: ----	Facsimile	: +61-7-3243 7218
Project	: 125 NSC LAKE McDONALD DVE, COOROY	Page	: 1 of 2
Order number	: ----	Quote number	: EB2023ENVADV0001 (EB23ENVADV0001 V2)
C-O-C number	: ----	QC Level	: NEPM 2013 B3 & ALS QC Standard
Site	: ----		
Sampler	: ANDREW WINTERS		

Dates

Date Samples Received	: 03-Jun-2024 14:42	Issue Date	: 03-Jun-2024
Client Requested Due Date	: 06-Jun-2024	Scheduled Reporting Date	: 06-Jun-2024

Delivery Details

Mode of Delivery	: Samples On Hand	Security Seal	: Not Available
No. of coolers/boxes	: ----	Temperature	: ----
Receipt Detail	: REBATCH	No. of samples received / analysed	: 2 / 2

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
- **This work order was created to rebatch samples from EB2415832.**
- **Please be advised that sample "TP40-0.1" from work order EB2406372 has been disposed of, in terms of the ALS sample retention policy. If you wish to discuss this further, please contact Client Services at ALSEnviro.Brisbane@alsglobal.com.**
- **A 15% surcharge applies for results returned within 3 days.**
- Discounted Package Prices apply only when specific ALS Group Codes ('W', 'S', 'NT' suites) are referenced on COCs.
- Please direct any turn around / technical queries to the laboratory contact designated above.
- Sample Disposal - Aqueous (3 weeks), Solid (2 months ± 1 week) from receipt of samples.
- Analysis will be conducted by ALS Environmental, Brisbane, NATA accreditation no. 825, Site No. 818 (Micro site no. 18958).
- **Breaches in recommended extraction / analysis holding times (if any) are displayed overleaf in the Proactive Holding Time Report table.**
- 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.
- **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.**



CERTIFICATE OF ANALYSIS

Work Order : **EB2418813**
Client : **ENVIRONMENTAL ADVISORS**
Contact : ANDREW WINTERS
Address : 168 FLAXTON DRIVE
MAPLETON 4560
Telephone : ----
Project : 125 NSC LAKE McDONALD DVE, COOROY
Order number : ----
C-O-C number : ----
Sampler : ANDREW WINTERS
Site : ----
Quote number : EB23ENVADV0001 V2
No. of samples received : 2
No. of samples analysed : 2

Page : 1 of 4
Laboratory : Environmental Division Brisbane
Contact : Customer Services EB
Address : 2 Byth Street Stafford QLD Australia 4053
Telephone : +61 7 3243 7222
Date Samples Received : 03-Jun-2024 14:42
Date Analysis Commenced : 04-Jun-2024
Issue Date : 06-Jun-2024 09:29



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

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.

<i>Signatories</i>	<i>Position</i>	<i>Accreditation Category</i>
Kim McCabe	Senior Inorganic Chemist	Brisbane Inorganics, Stafford, QLD
Kim McCabe	Senior Inorganic Chemist	Brisbane Soil Preparation, Stafford, QLD



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.



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP75-0.1	TP75-0.3	----	----	----
Sampling date / time				07-May-2024 00:00	07-May-2024 00:00	----	----	----	
Compound	CAS Number	LOR	Unit	EB2418813-001	EB2418813-002	-----	-----	-----	
				Result	Result	----	----	----	
EN33: TCLP Leach - Inorganics/Non-Volatile Organics (Glass Vessel)									
Initial pH	----	0.1	pH Unit	6.8	6.4	----	----	----	
After HCl pH	----	0.1	pH Unit	1.6	1.7	----	----	----	
Extraction Fluid Number	----	1	-	1	1	----	----	----	
Final pH	----	0.1	pH Unit	5.0	5.0	----	----	----	



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

Sample ID

				TP75-0.1	TP75-0.3	----	----	----
Sampling date / time				07-May-2024 00:00	07-May-2024 00:00	----	----	----
Compound	CAS Number	LOR	Unit	EB2418813-001	EB2418813-002	-----	-----	-----
				Result	Result	----	----	----
EG005(ED093)C: Leachable Metals by ICPAES								
Cadmium	7440-43-9	0.05	mg/L	<0.05	0.05	----	----	----
Copper	7440-50-8	0.1	mg/L	<0.1	0.1	----	----	----
Lead	7439-92-1	0.1	mg/L	0.6	1.9	----	----	----
Nickel	7440-02-0	0.1	mg/L	<0.1	<0.1	----	----	----
Zinc	7440-66-6	0.1	mg/L	17.4	35.6	----	----	----



QUALITY CONTROL REPORT

Work Order	: EB2418813	Page	: 1 of 3
Client	: ENVIRONMENTAL ADVISORS	Laboratory	: Environmental Division Brisbane
Contact	: ANDREW WINTERS	Contact	: Customer Services EB
Address	: 168 FLAXTON DRIVE MAPLETON 4560	Address	: 2 Byth Street Stafford QLD Australia 4053
Telephone	: ----	Telephone	: +61 7 3243 7222
Project	: 125 NSC LAKE McDONALD DVE, COOROY	Date Samples Received	: 03-Jun-2024
Order number	: ----	Date Analysis Commenced	: 04-Jun-2024
C-O-C number	: ----	Issue Date	: 06-Jun-2024
Sampler	: ANDREW WINTERS		
Site	: ----		
Quote number	: EB23ENVADV0001 V2		
No. of samples received	: 2		
No. of samples analysed	: 2		



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
Kim McCabe	Senior Inorganic Chemist	Brisbane Inorganics, Stafford, QLD
Kim McCabe	Senior Inorganic Chemist	Brisbane Soil Preparation, Stafford, QLD



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

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 (%)
EG005(ED093)C: Leachable Metals by ICPAES (QC Lot: 5837724)									
EB2418813-001	TP75-0.1	EG005C: Cadmium	7440-43-9	0.05	mg/L	<0.05	<0.05	0.0	No Limit
		EG005C: Copper	7440-50-8	0.1	mg/L	<0.1	<0.1	0.0	No Limit
		EG005C: Lead	7439-92-1	0.1	mg/L	0.6	0.6	0.0	No Limit
		EG005C: Nickel	7440-02-0	0.1	mg/L	<0.1	<0.1	0.0	No Limit
		EG005C: Zinc	7440-66-6	0.1	mg/L	17.4	17.4	0.0	0% - 20%



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			
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	Spike Recovery (%)	Acceptable Limits (%)	
						LCS	Low	High
EN33: TCLP Leach - Inorganics/Non-Volatile Organics (Glass Vessel) (QCLot: 5833214)								
EN33a-G: Final pH	----	0.1	pH Unit	5.0	----	----	----	----

Sub-Matrix: **WATER**

				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	Spike Recovery (%)	Acceptable Limits (%)	
						LCS	Low	High
EG005(ED093)C: Leachable Metals by ICPAES (QCLot: 5837724)								
EG005C: Cadmium	7440-43-9	0.05	mg/L	<0.05	0.1 mg/L	97.8	88.0	120
EG005C: Copper	7440-50-8	0.1	mg/L	<0.1	0.1 mg/L	96.7	87.0	117
EG005C: Lead	7439-92-1	0.1	mg/L	<0.1	0.1 mg/L	93.6	85.0	117
EG005C: Nickel	7440-02-0	0.1	mg/L	<0.1	0.1 mg/L	97.3	90.0	116
EG005C: Zinc	7440-66-6	0.1	mg/L	<0.1	0.1 mg/L	98.7	87.0	122

Matrix Spike (MS) Report

The quality control term Matrix Spike (MS) refers to an intralaboratory split sample spiked with a representative set of target analytes. The purpose of this QC parameter is to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQOs). Ideal recovery ranges stated may be waived in the event of sample matrix interference.

Sub-Matrix: **WATER**

				Matrix Spike (MS) Report			
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Spike Concentration	Spike Recovery (%)	Acceptable Limits (%)	
					MS	Low	High
EG005(ED093)C: Leachable Metals by ICPAES (QCLot: 5837724)							
EB2418813-002	TP75-0.3	EG005C: Cadmium	7440-43-9	0.25 mg/L	97.4	70.0	130
		EG005C: Copper	7440-50-8	1 mg/L	97.2	70.0	130
		EG005C: Lead	7439-92-1	1 mg/L	95.8	70.0	130
		EG005C: Nickel	7440-02-0	1 mg/L	95.4	70.0	130
		EG005C: Zinc	7440-66-6	1 mg/L	# Not Determined	70.0	130



QA/QC Compliance Assessment to assist with Quality Review

Work Order	: EB2418813	Page	: 1 of 4
Client	: ENVIRONMENTAL ADVISORS	Laboratory	: Environmental Division Brisbane
Contact	: ANDREW WINTERS	Telephone	: +61 7 3243 7222
Project	: 125 NSC LAKE McDONALD DVE, COOROY	Date Samples Received	: 03-Jun-2024
Site	: ----	Issue Date	: 06-Jun-2024
Sampler	: ANDREW WINTERS	No. of samples received	: 2
Order number	: ----	No. of samples analysed	: 2

This report is automatically generated by the ALS LIMS through interpretation of the ALS Quality Control Report and several Quality Assurance parameters measured by ALS. This automated reporting highlights any non-conformances, facilitates faster and more accurate data validation and is designed to assist internal expert and external Auditor review. Many components of this report contribute to the overall DQO assessment and reporting for guideline compliance.

Brief method summaries and references are also provided to assist in traceability.

Summary of Outliers

Outliers : Quality Control Samples

This report highlights outliers flagged in the Quality Control (QC) Report.

- **NO Method Blank value outliers occur.**
- **NO Duplicate outliers occur.**
- **NO Laboratory Control outliers occur.**
- Matrix Spike outliers exist - please see following pages for full details.
- For all regular sample matrices, where applicable to the methodology, **NO surrogate recovery outliers occur.**

Outliers : Analysis Holding Time Compliance

- **NO Analysis Holding Time Outliers exist.**

Outliers : Frequency of Quality Control Samples

- **NO Quality Control Sample Frequency Outliers exist.**



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
Matrix Spike (MS) Recoveries							
EG005(ED093)C: Leachable Metals by ICPAES	EB2418813--002	TP75-0.3	Zinc	7440-66-6	Not Determined	----	MS recovery not determined, background level greater than or equal to 4x spike level.

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
EN33: TCLP Leach - Inorganics/Non-Volatile Organics (Glass Vessel)							
Non-Volatile Leach: 180 day HT (e.g. PFAS, metals ex.Hg) (EN33a-G) TP75-0.1, TP75-0.3	07-May-2024	04-Jun-2024	03-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
EG005(ED093)C: Leachable Metals by ICPAES							
Clear Plastic Bottle - Nitric Acid; Unfiltered (EG005C) TP75-0.1, TP75-0.3	04-Jun-2024	05-Jun-2024	01-Dec-2024	✓	05-Jun-2024	01-Dec-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	Method	Count		Rate (%)			Quality Control Specification
		QC	Reaular	Actual	Expected	Evaluation	
Analytical Methods							
Method Blanks (MB)							
TCLP for Non & Semivolatile Analytes - Glass Leaching Vessel	EN33a-G	1	3	33.33	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	Method	Count		Rate (%)			Quality Control Specification
		QC	Reaular	Actual	Expected	Evaluation	
Analytical Methods							
Laboratory Duplicates (DUP)							
Leachable Metals by ICPAES	EG005C	1	2	50.00	10.00	✔	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Leachable Metals by ICPAES	EG005C	1	2	50.00	5.00	✔	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Leachable Metals by ICPAES	EG005C	1	2	50.00	5.00	✔	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Leachable Metals by ICPAES	EG005C	1	2	50.00	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.

<i>Analytical Methods</i>	<i>Method</i>	<i>Matrix</i>	<i>Method Descriptions</i>
Leachable Metals by ICPAES	EG005C	SOIL	In house: referenced to APHA 3120; USEPA SW 846 - 6010: The ICPAES technique ionises leachate sample atoms emitting a characteristic spectrum. This spectrum is then compared against matrix matched standards for quantification. This method is compliant with NEPM Schedule B(3).
<i>Preparation Methods</i>	<i>Method</i>	<i>Matrix</i>	<i>Method Descriptions</i>
Digestion for Total Recoverable Metals in TCLP Leachate	EN25C	SOIL	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)
TCLP for Non & Semivolatile Analytes - Glass Leaching Vessel	EN33a-G	SOIL	In house QWI-EN/33 referenced to USEPA SW846-1311: The TCLP procedure is designed to determine the mobility of both organic and inorganic analytes present in wastes. The standard TCLP leach is for non-volatile and Semivolatile test parameters.





CHAIN OF CUSTODY

ALS Laboratory: please tick →

Sydney: 277 Woodpark Rd, Smithfield NSW 2176
Ph: 02 8784 8555 E: samples.sydney@alsenviro.com
 Newcastle: 6 Rossburn Rd, Warabrook NSW 2304
Ph: 02 4908 5433 E: samples.newcastle@alsenviro.com

Brisbane: 32 Shand St, Stalford QLD 4053
Ph: 07 3243 7222 E: samples.brisbane@alsenviro.com
 Townsville: 14-15 Deanna Ct, Botha QLD 4819
Ph: 07 4738 0600 E: townsville.environmentals@alsenviro.com

Melbourne: 2-4 Westall Rd, Springvale VIC 3171
Ph: 03 8518 8600 E: samples.melbourne@alsenviro.com
 Adelaide: 2-4 Burma Rd, Pineside SA 5095
Ph: 08 3559 0560 E: adelaide@alsenviro.com

Perth: 10 Hod Way, Malaga Y
Ph: 08 9209 7855 E: samples.perth@alsenviro.com
 Launceston: 27 Wellington St
Ph: 03 0301 2159 E: launceston@alsenviro.com



Telephone: +61-7-3243 7222

CLIENT:	Environmental Advisors Pty Ltd	TURNAROUND REQUIREMENTS:	<input checked="" type="checkbox"/> Standard TAT (List due date): 6 May 24	FOR LABORATOR Custody Seal intact? Freeze / frozen ice br receipt? Random Sample Temp Other comment:
OFFICE:	Sunshine Coast	(Standard TAT may be longer for some tests e.g., Ultra Trace Organics)	<input type="checkbox"/> Non Standard or urgent TAT (List due date):	
PROJECT:	125 NSC LAKE McDONALD DVE, COOROY	ALS QUOTE NO.:	EB23ENVADV0001 V2	COC SEQUENCE NUMBER 1 of 1
ORDER NUMBER:				
PROJECT MANAGER:	Andrew Winters	CONTACT PH:	0409 662 747	
SAMPLER:	Andrew Winters	SAMPLER MOBILE:	0409 662 747	RELINQUISHED BY: Andrew Winters
COC emailed to ALS? \ No		EDD FORMAT:	Default	RECEIVED BY: <i>Jm</i> 26/4
Email Reports to (will default to PM if no other addresses are listed):	andrew@environmentaladvisors.com.au	DATE/TIME:	26/4/24	DATE/TIME: 11 22
Email Invoice to (will default to PM if no other addresses are listed):	admin@environmentaladvisors.com.au			RECEIVED BY:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

ALS USE ONLY	SAMPLE DETAILS MATRIX: Solid(S) Water(W)				CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES (NB, Suite Codes must be listed to attract suite price) Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (field filtered bottle required).							Additional Information Comments on likely contaminant levels, dilutions, or samples requiring specific QC analysis etc.
	LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL CONTAINERS	S-05 (TRH/BTEX/Ni8 metals)	S-16 (TRH/BTEX/NiPAH OC/OP/PCB/B metals)	EA200G Asbestos (presence/absence in soil/bulk sample)					
1	ST1	23/04/2024	Soil	Jar + asbestos bag	2	x			x					
2	ST2	23/04/2024	Soil	Jar + asbestos bag	2	x			x					
3	ST3	23/04/2024	Soil	Jar + asbestos bag	2			x	x					
4	ST4	23/04/2024	Soil	Jar + asbestos bag	2	x			x					
5	ST5	23/04/2024	Soil	Jar + asbestos bag	2	x			x					
TOTAL:						10	4	1	5	0	0	0	0	0

Water Container Codes: P = Unpreserved Plastic; N = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide/Cd Preserved; S = Sodium Hydroxide Preserved Plastic; AG = Amber Glass Unpreserved; AP = Airfreight Unpreserved Plastic
V = VOA Vial HCl Preserved; VB = VOA Vial Sodium Bisulphate Preserved; VS = VOA Vial Sulfuric Preserved; AV = Airfreight Unpreserved Vial SG = Sulfuric Preserved Amber Glass; H = HCl preserved Plastic; HS = HCl preserved Speciation bottle; SP = Sulfuric Preserved Plastic; F = Formaldehyde Preserved Glass;
Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bottle; ASS = Plastic Bag for Acid Sulphate Soils; B = Unpreserved Bag.



SAMPLE RECEIPT NOTIFICATION (SRN)

Work Order : **EB2414050**

Client	: ENVIRONMENTAL ADVISORS	Laboratory	: Environmental Division Brisbane
Contact	: ANDREW WINTERS	Contact	: Customer Services EB
Address	: PO BOX 505 BUDDINA QLD 4575	Address	: 2 Byth Street Stafford QLD Australia 4053
E-mail	: andrew@environmentaladvisors.com.au	E-mail	: ALSEnviro.Brisbane@alsglobal.com
Telephone	: ----	Telephone	: +61 7 3243 7222
Facsimile	: ----	Facsimile	: +61-7-3243 7218
Project	: 125 NSC LAKE McDONALD DVE, COOROY	Page	: 1 of 2
Order number	: ----	Quote number	: EB2023ENVADV0001 (EB23ENVADV0001 V2)
C-O-C number	: ----	QC Level	: NEPM 2013 B3 & ALS QC Standard
Site	: ----		
Sampler	: ANDREW WINTERS		

Dates

Date Samples Received	: 26-Apr-2024 11:22	Issue Date	: 26-Apr-2024
Client Requested Due Date	: 06-May-2024	Scheduled Reporting Date	: 07-May-2024

Delivery Details

Mode of Delivery	: Client Drop Off	Security Seal	: Not Available
No. of coolers/boxes	: 1	Temperature	: 11.5°C, 12.1°C, 12.7°C - Ice present
Receipt Detail	: HARD ESKY	No. of samples received / analysed	: 5 / 5

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
- Discounted Package Prices apply only when specific ALS Group Codes ('W', 'S', 'NT' suites) are referenced on COCs.
- **Asbestos analysis will be conducted by ALS Environmental, Melbourne, NATA accreditation No. 825, Site No. 13778.**
- Please direct any turn around / technical queries to the laboratory contact designated above.
- Sample Disposal - Aqueous (3 weeks), Solid (2 months ± 1 week) from receipt of samples.
- Analysis will be conducted by ALS Environmental, Brisbane, NATA accreditation no. 825, Site No. 818 (Micro site no. 18958).
- **Breaches in recommended extraction / analysis holding times (if any) are displayed overleaf in the Proactive Holding Time Report table.**
- 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.
- **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.**



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	SOIL - EA055-103 Moisture Content	SOIL - EA200G Asbestos Identification in Soils -	SOIL - S-05 TRH/BTEXN/8 Metals	SOIL - S-16 TRH/BTEXN/PAH/OC/OP/PCB/8Metals
EB2414050-001	23-Apr-2024 00:00	ST1	✓	✓	✓	
EB2414050-002	23-Apr-2024 00:00	ST2	✓	✓	✓	
EB2414050-003	23-Apr-2024 00:00	ST3	✓	✓		✓
EB2414050-004	23-Apr-2024 00:00	ST4	✓	✓	✓	
EB2414050-005	23-Apr-2024 00:00	ST5	✓	✓	✓	

Proactive Holding Time Report

Sample(s) have been received within the recommended holding times for the requested analysis.

Requested Deliverables

ALL INVOICES

- A4 - AU Tax Invoice (INV) Email admin@environmentaladvisors.com.au

ANDREW WINTERS

- *AU Certificate of Analysis - NATA (COA) Email andrew@environmentaladvisors.com.au
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI) Email andrew@environmentaladvisors.com.au
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC) Email andrew@environmentaladvisors.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN) Email andrew@environmentaladvisors.com.au
- Chain of Custody (CoC) (COC) Email andrew@environmentaladvisors.com.au
- EDI Format - XTab (XTAB) Email andrew@environmentaladvisors.com.au

Inter-Laboratory Testing

Analysis conducted by ALS Melbourne, NATA accreditation no. 825, site no. 13778 (Chemistry).

(SOIL) EA200: AS 4964 - 2004 Identification of Asbestos in Soils



CERTIFICATE OF ANALYSIS

Work Order : **EB2414050**
Client : **ENVIRONMENTAL ADVISORS**
Contact : ANDREW WINTERS
Address : PO BOX 505
BUDDINA QLD 4575
Telephone : ----
Project : 125 NSC LAKE McDONALD DVE, COOROY
Order number : ----
C-O-C number : ----
Sampler : ANDREW WINTERS
Site : ----
Quote number : EB23ENVADV0001 V2
No. of samples received : 5
No. of samples analysed : 5

Page : 1 of 9
Laboratory : Environmental Division Brisbane
Contact : Customer Services EB
Address : 2 Byth Street Stafford QLD Australia 4053
Telephone : +61 7 3243 7222
Date Samples Received : 26-Apr-2024 11:22
Date Analysis Commenced : 29-Apr-2024
Issue Date : 07-May-2024 17:48



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
- Descriptive 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
Kim McCabe	Senior Inorganic Chemist	Brisbane Inorganics, Stafford, QLD
Kim McCabe	Senior Inorganic Chemist	Brisbane Soil Preparation, Stafford, QLD
MINNIE TRAN	Approved Asbestos Identifier	Melbourne Asbestos, Springvale, VIC
Timothy Creagh	Senior Chemist - Organics	Brisbane Organics, Stafford, QLD



General Comments

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

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

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

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contract for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting
ø = ALS is not NATA accredited for these tests.
~ = Indicates an estimated value.

- Benzo(a)pyrene Toxicity Equivalent Quotient (TEQ) per the NEPM (2013) is the sum total of the concentration of the eight carcinogenic PAHs multiplied by their Toxicity Equivalence Factor (TEF) relative to Benzo(a)pyrene. TEF values are provided in brackets as follows: Benz(a)anthracene (0.1), Chrysene (0.01), Benzo(b+j) & Benzo(k)fluoranthene (0.1), Benzo(a)pyrene (1.0), Indeno(1.2.3.cd)pyrene (0.1), Dibenz(a,h)anthracene (1.0), Benzo(g,h,i)perylene (0.01). Less than LOR results for 'TEQ Zero' are treated as zero, for 'TEQ 1/2LOR' are treated as half the reported LOR, and for 'TEQ LOR' are treated as being equal to the reported LOR. Note: TEQ 1/2LOR and TEQ LOR will calculate as 0.6mg/Kg and 1.2mg/Kg respectively for samples with non-detects for all of the eight TEQ PAHs.
- EP080: Where reported, Total Xylenes is the sum of the reported concentrations of m&p-Xylene and o-Xylene at or above the LOR.
- EP068: Where reported, Total Chlordane (sum) is the sum of the reported concentrations of cis-Chlordane and trans-Chlordane at or above the LOR.
- EP068: Where reported, Total OCP is the sum of the reported concentrations of all Organochlorine Pesticides at or above LOR.
- EP075(SIM): Where reported, Total Cresol is the sum of the reported concentrations of 2-Methylphenol and 3- & 4-Methylphenol at or above the LOR.
- EG005T (Total Metals by ICP-AES): EB2412105-001 shows poor duplicate results due to sample heterogeneity. This has been confirmed by visual inspection.
- EP071 – TRH Semivolatiles Fraction: Sample EB2414047-001 shows high matrix spike recovery due to sample heterogeneity. Confirmed by visual inspection of the sample & chromatograms.
- EA200 'Am' Amosite (brown asbestos)
- EA200 'Cr' Crocidolite (blue asbestos)
- EA200 'Trace' - Asbestos fibres ("Free Fibres") detected by trace analysis per AS4964. The result can be interpreted that the sample contains detectable 'respirable' asbestos fibres
- EA200: Asbestos Identification Samples were analysed by Polarised Light Microscopy including dispersion staining.
- EA200 Legend
- EA200 'Ch' Chrysotile (white asbestos)
- EA200: 'UMF' Unknown Mineral Fibres. "-" indicates fibres detected may or may not be asbestos fibres. Confirmation by alternative techniques is recommended.
- EA200: For samples larger than 30g, the <2mm fraction may be sub-sampled prior to trace analysis as outlined in ISO23909:2008(E) Sect 6.3.2-2
- EA200: 'Yes' - Asbestos detected by polarised light microscopy including dispersion staining.
- EA200: 'No*' - No asbestos found, at the reporting limit of 0.1g/kg, by polarised light microscopy including dispersion staining. Asbestos material was detected and positively identified at concentrations estimated to be below 0.1g/kg.
- EA200: 'No' - No asbestos found at the reporting limit 0.1g/kg, by polarised light microscopy including dispersion staining.



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	ST1	ST2	ST3	ST4	ST5
Sampling date / time					23-Apr-2024 00:00	23-Apr-2024 00:00	23-Apr-2024 00:00	23-Apr-2024 00:00	23-Apr-2024 00:00
Compound	CAS Number	LOR	Unit	EB2414050-001	EB2414050-002	EB2414050-003	EB2414050-004	EB2414050-005	
				Result	Result	Result	Result	Result	
EA055: Moisture Content									
Moisture Content	----	1.0	%	14.3	13.8	----	12.9	13.5	
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	1.0	%	----	----	15.1	----	----	
EA200: AS 4964 - 2004 Identification of Asbestos in Soils									
Asbestos Detected	1332-21-4	0.1	g/kg	No	No	No	No	No	
Asbestos (Trace)	1332-21-4	-	-	No	No	No	No	No	
Asbestos Type	1332-21-4	-	--	-	-	-	-	-	
Sample weight (dry)	----	0.01	g	31.8	28.9	33.2	23.9	13.8	
APPROVED IDENTIFIER:	----	-	--	M. TRAN	M. TRAN	M. TRAN	M. TRAN	M. TRAN	
Synthetic Mineral Fibre	----	-	--	No	No	No	No	No	
Organic Fibre	----	-	--	Yes	Yes	Yes	Yes	Yes	
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	15	22	12	14	9	
Copper	7440-50-8	5	mg/kg	<5	<5	8	<5	<5	
Lead	7439-92-1	5	mg/kg	7	10	12	9	6	
Nickel	7440-02-0	2	mg/kg	<2	<2	<2	<2	<2	
Zinc	7440-66-6	5	mg/kg	16	16	19	18	20	
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.1	mg/kg	<0.1	0.1	0.3	0.1	<0.1	
EP066: Polychlorinated Biphenyls (PCB)									
Total Polychlorinated biphenyls	----	0.1	mg/kg	----	----	<0.1	----	----	
EP068A: Organochlorine Pesticides (OC)									
alpha-BHC	319-84-6	0.05	mg/kg	----	----	<0.05	----	----	
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	----	----	<0.05	----	----	
beta-BHC	319-85-7	0.05	mg/kg	----	----	<0.05	----	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	ST1	ST2	ST3	ST4	ST5
Sampling date / time					23-Apr-2024 00:00	23-Apr-2024 00:00	23-Apr-2024 00:00	23-Apr-2024 00:00	23-Apr-2024 00:00
Compound	CAS Number	LOR	Unit		EB2414050-001	EB2414050-002	EB2414050-003	EB2414050-004	EB2414050-005
					Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued									
gamma-BHC	58-89-9	0.05	mg/kg		----	----	<0.05	----	----
delta-BHC	319-86-8	0.05	mg/kg		----	----	<0.05	----	----
Heptachlor	76-44-8	0.05	mg/kg		----	----	<0.05	----	----
Aldrin	309-00-2	0.05	mg/kg		----	----	<0.05	----	----
Heptachlor epoxide	1024-57-3	0.05	mg/kg		----	----	<0.05	----	----
[^] Total Chlordane (sum)	----	0.05	mg/kg		----	----	<0.05	----	----
trans-Chlordane	5103-74-2	0.05	mg/kg		----	----	<0.05	----	----
alpha-Endosulfan	959-98-8	0.05	mg/kg		----	----	<0.05	----	----
cis-Chlordane	5103-71-9	0.05	mg/kg		----	----	<0.05	----	----
Dieldrin	60-57-1	0.05	mg/kg		----	----	<0.05	----	----
4,4'-DDE	72-55-9	0.05	mg/kg		----	----	<0.05	----	----
Endrin	72-20-8	0.05	mg/kg		----	----	<0.05	----	----
beta-Endosulfan	33213-65-9	0.05	mg/kg		----	----	<0.05	----	----
[^] Endosulfan (sum)	115-29-7	0.05	mg/kg		----	----	<0.05	----	----
4,4'-DDD	72-54-8	0.05	mg/kg		----	----	<0.05	----	----
Endrin aldehyde	7421-93-4	0.05	mg/kg		----	----	<0.05	----	----
Endosulfan sulfate	1031-07-8	0.05	mg/kg		----	----	<0.05	----	----
4,4'-DDT	50-29-3	0.2	mg/kg		----	----	<0.2	----	----
Endrin ketone	53494-70-5	0.05	mg/kg		----	----	<0.05	----	----
Methoxychlor	72-43-5	0.2	mg/kg		----	----	<0.2	----	----
[^] Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg		----	----	<0.05	----	----
[^] Sum of DDD + DDE + DDT	72-54-8/72-55-9/5 0-2	0.05	mg/kg		----	----	<0.05	----	----
EP068B: Organophosphorus Pesticides (OP)									
Dichlorvos	62-73-7	0.05	mg/kg		----	----	<0.05	----	----
Demeton-S-methyl	919-86-8	0.05	mg/kg		----	----	<0.05	----	----
Monocrotophos	6923-22-4	0.2	mg/kg		----	----	<0.2	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	ST1	ST2	ST3	ST4	ST5
Sampling date / time					23-Apr-2024 00:00	23-Apr-2024 00:00	23-Apr-2024 00:00	23-Apr-2024 00:00	23-Apr-2024 00:00
Compound	CAS Number	LOR	Unit		EB2414050-001	EB2414050-002	EB2414050-003	EB2414050-004	EB2414050-005
					Result	Result	Result	Result	Result
EP068B: Organophosphorus Pesticides (OP) - Continued									
Dimethoate	60-51-5	0.05	mg/kg		----	----	<0.05	----	----
Diazinon	333-41-5	0.05	mg/kg		----	----	<0.05	----	----
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg		----	----	<0.05	----	----
Parathion-methyl	298-00-0	0.2	mg/kg		----	----	<0.2	----	----
Malathion	121-75-5	0.05	mg/kg		----	----	<0.05	----	----
Fenthion	55-38-9	0.05	mg/kg		----	----	<0.05	----	----
Chlorpyrifos	2921-88-2	0.05	mg/kg		----	----	<0.05	----	----
Parathion	56-38-2	0.2	mg/kg		----	----	<0.2	----	----
Pirimphos-ethyl	23505-41-1	0.05	mg/kg		----	----	<0.05	----	----
Chlorfenvinphos	470-90-6	0.05	mg/kg		----	----	<0.05	----	----
Bromophos-ethyl	4824-78-6	0.05	mg/kg		----	----	<0.05	----	----
Fenamiphos	22224-92-6	0.05	mg/kg		----	----	<0.05	----	----
Prothiofos	34643-46-4	0.05	mg/kg		----	----	<0.05	----	----
Ethion	563-12-2	0.05	mg/kg		----	----	<0.05	----	----
Carbophenothion	786-19-6	0.05	mg/kg		----	----	<0.05	----	----
Azinphos Methyl	86-50-0	0.05	mg/kg		----	----	<0.05	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	0.5	mg/kg		----	----	<0.5	----	----
Acenaphthylene	208-96-8	0.5	mg/kg		----	----	<0.5	----	----
Acenaphthene	83-32-9	0.5	mg/kg		----	----	<0.5	----	----
Fluorene	86-73-7	0.5	mg/kg		----	----	<0.5	----	----
Phenanthrene	85-01-8	0.5	mg/kg		----	----	<0.5	----	----
Anthracene	120-12-7	0.5	mg/kg		----	----	<0.5	----	----
Fluoranthene	206-44-0	0.5	mg/kg		----	----	<0.5	----	----
Pyrene	129-00-0	0.5	mg/kg		----	----	<0.5	----	----
Benz(a)anthracene	56-55-3	0.5	mg/kg		----	----	<0.5	----	----
Chrysene	218-01-9	0.5	mg/kg		----	----	<0.5	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	ST1	ST2	ST3	ST4	ST5
Sampling date / time					23-Apr-2024 00:00	23-Apr-2024 00:00	23-Apr-2024 00:00	23-Apr-2024 00:00	23-Apr-2024 00:00
Compound	CAS Number	LOR	Unit		EB2414050-001	EB2414050-002	EB2414050-003	EB2414050-004	EB2414050-005
					Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued									
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg		----	----	<0.5	----	----
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg		----	----	<0.5	----	----
Benzo(a)pyrene	50-32-8	0.5	mg/kg		----	----	<0.5	----	----
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg		----	----	<0.5	----	----
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg		----	----	<0.5	----	----
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg		----	----	<0.5	----	----
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg		----	----	<0.5	----	----
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg		----	----	<0.5	----	----
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg		----	----	0.6	----	----
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg		----	----	1.2	----	----
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	10	mg/kg		<10	<10	<10	<10	<10
C10 - C14 Fraction	----	50	mg/kg		<50	<50	<50	<50	<50
C15 - C28 Fraction	----	100	mg/kg		<100	<100	<100	<100	<100
C29 - C36 Fraction	----	100	mg/kg		<100	<100	<100	<100	<100
^ C10 - C36 Fraction (sum)	----	50	mg/kg		<50	<50	<50	<50	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg		<10	<10	<10	<10	<10
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg		<10	<10	<10	<10	<10
>C10 - C16 Fraction	----	50	mg/kg		<50	<50	<50	<50	<50
>C16 - C34 Fraction	----	100	mg/kg		<100	<100	<100	<100	<100
>C34 - C40 Fraction	----	100	mg/kg		<100	<100	<100	<100	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg		<50	<50	<50	<50	<50
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg		<50	<50	<50	<50	<50
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	ST1	ST2	ST3	ST4	ST5
Sampling date / time					23-Apr-2024 00:00	23-Apr-2024 00:00	23-Apr-2024 00:00	23-Apr-2024 00:00	23-Apr-2024 00:00
Compound	CAS Number	LOR	Unit		EB2414050-001	EB2414050-002	EB2414050-003	EB2414050-004	EB2414050-005
					Result	Result	Result	Result	Result
EP080: BTEXN - Continued									
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
EP066S: PCB Surrogate									
Decachlorobiphenyl	2051-24-3	0.1	%		----	----	88.8	----	----
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.05	%		----	----	91.1	----	----
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.05	%		----	----	106	----	----
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	0.5	%		----	----	96.4	----	----
2-Chlorophenol-D4	93951-73-6	0.5	%		----	----	92.8	----	----
2,4,6-Tribromophenol	118-79-6	0.5	%		----	----	45.8	----	----
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	0.5	%		----	----	81.5	----	----
Anthracene-d10	1719-06-8	0.5	%		----	----	98.9	----	----
4-Terphenyl-d14	1718-51-0	0.5	%		----	----	101	----	----
EP080S: TPH(V)/BTEX Surrogates									
1,2-Dichloroethane-D4	17060-07-0	0.2	%		82.1	84.9	89.4	81.2	84.8
Toluene-D8	2037-26-5	0.2	%		70.9	75.7	76.9	69.4	73.7
4-Bromofluorobenzene	460-00-4	0.2	%		76.7	77.6	81.5	75.1	79.4



Analytical Results

Descriptive Results

Sub-Matrix: SOIL

<i>Method: Compound</i>	<i>Sample ID - Sampling date / time</i>	<i>Analytical Results</i>
EA200: AS 4964 - 2004 Identification of Asbestos in Soils		
EA200: Description	ST1 - 23-Apr-2024 00:00	Tan soil with organic matter.
EA200: Description	ST2 - 23-Apr-2024 00:00	Tan soil with organic matter.
EA200: Description	ST3 - 23-Apr-2024 00:00	Tan soil with organic matter.
EA200: Description	ST4 - 23-Apr-2024 00:00	Tan soil with organic matter.
EA200: Description	ST5 - 23-Apr-2024 00:00	Tan soil with organic matter.



Surrogate Control Limits

Sub-Matrix: SOIL		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP066S: PCB Surrogate			
Decachlorobiphenyl	2051-24-3	16	134
EP068S: Organochlorine Pesticide Surrogate			
Dibromo-DDE	21655-73-2	10	138
EP068T: Organophosphorus Pesticide Surrogate			
DEF	78-48-8	23	134
EP075(SIM)S: Phenolic Compound Surrogates			
Phenol-d6	13127-88-3	35	154
2-Chlorophenol-D4	93951-73-6	42	153
2,4,6-Tribromophenol	118-79-6	26	157
EP075(SIM)T: PAH Surrogates			
2-Fluorobiphenyl	321-60-8	34	156
Anthracene-d10	1719-06-8	37	153
4-Terphenyl-d14	1718-51-0	42	172
EP080S: TPH(V)/BTEX Surrogates			
1,2-Dichloroethane-D4	17060-07-0	53	134
Toluene-D8	2037-26-5	60	131
4-Bromofluorobenzene	460-00-4	59	127

Inter-Laboratory Testing

Analysis conducted by ALS Melbourne, NATA accreditation no. 825, site no. 13778 (Chemistry).

(SOIL) EA200: AS 4964 - 2004 Identification of Asbestos in Soils



QUALITY CONTROL REPORT

Work Order	: EB2414050	Page	: 1 of 9
Client	: ENVIRONMENTAL ADVISORS	Laboratory	: Environmental Division Brisbane
Contact	: ANDREW WINTERS	Contact	: Customer Services EB
Address	: PO BOX 505 BUDDINA QLD 4575	Address	: 2 Byth Street Stafford QLD Australia 4053
Telephone	: ----	Telephone	: +61 7 3243 7222
Project	: 125 NSC LAKE McDONALD DVE, COOROY	Date Samples Received	: 26-Apr-2024
Order number	: ----	Date Analysis Commenced	: 29-Apr-2024
C-O-C number	: ----	Issue Date	: 07-May-2024
Sampler	: ANDREW WINTERS		
Site	: ----		
Quote number	: EB23ENVADV0001 V2		
No. of samples received	: 5		
No. of samples analysed	: 5		



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
Kim McCabe	Senior Inorganic Chemist	Brisbane Inorganics, Stafford, QLD
Kim McCabe	Senior Inorganic Chemist	Brisbane Soil Preparation, Stafford, QLD
MINNIE TRAN	Approved Asbestos Identifier	Melbourne Asbestos, Springvale, VIC
Timothy Creagh	Senior Chemist - Organics	Brisbane Organics, Stafford, QLD



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: 5754824)									
EB2414066-002	Anonymous	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	89	86	4.1	0% - 20%
		EG005T: Nickel	7440-02-0	2	mg/kg	149	157	4.7	0% - 20%
		EG005T: Arsenic	7440-38-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	33	34	0.0	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	57	59	3.6	0% - 50%
EB2412105-001	Anonymous	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	8	8	0.0	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	6	5	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	92	85	7.2	0% - 50%
		EG005T: Lead	7439-92-1	5	mg/kg	140	# 98	35.0	0% - 20%
		EG005T: Zinc	7440-66-6	5	mg/kg	76	66	14.1	0% - 50%
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 5754022)									
EB2414050-001	ST1	EA055: Moisture Content	----	0.1 (1.0)*	%	14.3	14.2	0.0	0% - 50%
EB2414066-001	Anonymous	EA055: Moisture Content	----	0.1 (1.0)*	%	33.6	31.3	7.0	0% - 20%
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 5754829)									
EB2414050-001	ST1	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EP066: Polychlorinated Biphenyls (PCB) (QC Lot: 5765608)									



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 (%)
EP066: Polychlorinated Biphenyls (PCB) (QC Lot: 5765603) - continued									
EB2414047-001	Anonymous	EP066: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EP068A: Organochlorine Pesticides (OC) (QC Lot: 5765609)									
EB2414050-003	ST3	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	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	<0.05	<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: 5765609)									
EB2414050-003	ST3	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



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: 5765609) - continued										
EB2414050-003	ST3	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	56-38-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit	
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 5765607)										
EB2414047-001	Anonymous	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	0.5	mg/kg	<0.5	<0.5	0.0	No Limit	
				205-82-3						
		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	
EP075(SIM): Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit			
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 5754021)										
EB2414050-001	ST1	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit	
EB2414066-001	Anonymous	EP080: C6 - C9 Fraction	----	10	mg/kg	4220	3940	6.7	0% - 20%	
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 5765606)										
EB2413939-001	Anonymous	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	
EB2414066-002	Anonymous	EP071: C15 - C28 Fraction	----	100	mg/kg	<100	<100	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 (%)
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 5765606) - continued									
EB2414066-002	Anonymous	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: 5754021)									
EB2414050-001	ST1	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.0	No Limit
EB2414066-001	Anonymous	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	4310	4020	7.0	0% - 20%
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 5765606)									
EB2413939-001	Anonymous	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
EB2414066-002	Anonymous	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: 5754021)									
EB2414050-001	ST1	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
EB2414066-001	Anonymous	EP080: Benzene	71-43-2	0.2	mg/kg	7.4	6.6	10.7	0% - 20%
		EP080: Toluene	108-88-3	0.5	mg/kg	39.2	36.2	7.9	0% - 20%
		EP080: Ethylbenzene	100-41-4	0.5	mg/kg	29.4	27.4	6.8	0% - 20%
		EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	182	175	4.0	0% - 20%
		EP080: ortho-Xylene	95-47-6	0.5	mg/kg	36.3	33.4	8.1	0% - 20%
		EP080: Naphthalene	91-20-3	1	mg/kg	20	22	10.4	0% - 20%



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: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report				
				Result	Spike Concentration	Spike Recovery (%)		Acceptable Limits (%)	
						LCS	Low	High	
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 5754824)									
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	65.3 mg/kg	89.9	84.0	123	
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	----	----	----	----	
EG005T: Chromium	7440-47-3	2	mg/kg	<2	14.5 mg/kg	106	83.0	125	
EG005T: Copper	7440-50-8	5	mg/kg	<5	37.4 mg/kg	108	86.0	122	
EG005T: Lead	7439-92-1	5	mg/kg	<5	45.3 mg/kg	108	84.0	119	
EG005T: Nickel	7440-02-0	2	mg/kg	<2	12.4 mg/kg	105	81.5	118	
EG005T: Zinc	7440-66-6	5	mg/kg	<5	150.2 mg/kg	107	80.0	120	
EG035T: Total Recoverable Mercury by FIMS (QCLot: 5754829)									
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.09199 mg/kg	96.1	70.0	125	
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 5765608)									
EP066: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	1 mg/kg	76.3	71.6	155	
EP068A: Organochlorine Pesticides (OC) (QCLot: 5765609)									
EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	0.5 mg/kg	88.8	72.8	127	
EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	0.5 mg/kg	88.6	71.0	127	
EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	0.5 mg/kg	86.5	67.5	126	
EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	0.5 mg/kg	87.9	72.7	127	
EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	0.5 mg/kg	96.4	70.6	122	
EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	0.5 mg/kg	93.0	64.8	127	
EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	0.5 mg/kg	96.0	72.4	122	
EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	0.5 mg/kg	91.4	67.4	125	
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	91.0	65.6	124	
EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	0.5 mg/kg	96.3	70.4	122	
EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	0.5 mg/kg	90.9	65.6	125	
EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	0.5 mg/kg	95.9	69.1	124	
EP068: 4,4'-DDE	72-55-9	0.05	mg/kg	<0.05	0.5 mg/kg	99.6	72.4	125	
EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	0.5 mg/kg	95.5	63.2	127	
EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	0.5 mg/kg	93.8	69.7	120	
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	92.2	61.2	124	



Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
				Result	Spike	Spike Recovery (%)	Acceptable Limits (%)	
					Concentration	LCS	Low	High
EP068A: Organochlorine Pesticides (OC) (QCLot: 5765609) - continued								
EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	0.5 mg/kg	83.7	55.5	125
EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	0.5 mg/kg	84.8	57.1	117
EP068: 4.4'-DDT	50-29-3	0.2	mg/kg	<0.2	0.5 mg/kg	74.6	51.9	125
EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	0.5 mg/kg	88.2	46.5	122
EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	0.5 mg/kg	94.3	34.0	130
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: 5765609)								
EP068: Dichlorvos	62-73-7	0.05	mg/kg	<0.05	0.5 mg/kg	90.0	55.8	126
EP068: Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	0.5 mg/kg	92.4	45.9	136
EP068: Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	0.5 mg/kg	95.4	20.0	147
EP068: Dimethoate	60-51-5	0.05	mg/kg	<0.05	0.5 mg/kg	96.2	44.1	125
EP068: Diazinon	333-41-5	0.05	mg/kg	<0.05	0.5 mg/kg	93.0	70.3	125
EP068: Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	0.5 mg/kg	97.5	63.2	124
EP068: Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	0.5 mg/kg	82.5	44.2	129
EP068: Malathion	121-75-5	0.05	mg/kg	<0.05	0.5 mg/kg	82.3	52.3	133
EP068: Fenthion	55-38-9	0.05	mg/kg	<0.05	0.5 mg/kg	99.1	62.9	126
EP068: Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	0.5 mg/kg	94.4	69.2	123
EP068: Parathion	56-38-2	0.2	mg/kg	<0.2	0.5 mg/kg	79.6	37.6	138
EP068: Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	0.5 mg/kg	93.9	59.6	131
EP068: Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	0.5 mg/kg	86.9	46.4	144
EP068: Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	0.5 mg/kg	97.9	56.8	128
EP068: Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	0.5 mg/kg	72.0	24.4	135
EP068: Prothiofos	34643-46-4	0.05	mg/kg	<0.05	0.5 mg/kg	95.5	55.9	123
EP068: Ethion	563-12-2	0.05	mg/kg	<0.05	0.5 mg/kg	71.6	45.0	138
EP068: Carbophenothion	786-19-6	0.05	mg/kg	<0.05	0.5 mg/kg	82.1	41.6	141
EP068: Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	0.5 mg/kg	86.6	20.0	145
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 5765607)								
EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	1.5 mg/kg	96.5	72.6	133
EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	1.5 mg/kg	102	63.2	144
EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	1.5 mg/kg	89.0	66.0	132
EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	1.5 mg/kg	100	76.2	134
EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	1.5 mg/kg	102	71.8	137



Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
				Result	Spike	Spike Recovery (%)	Acceptable Limits (%)	
					Concentration	LCS	Low	High
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 5765607) - continued								
EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	1.5 mg/kg	110	77.1	143
EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	1.5 mg/kg	103	74.1	140
EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	1.5 mg/kg	99.7	72.0	139
EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	1.5 mg/kg	99.5	58.0	145
EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	1.5 mg/kg	99.4	63.0	147
EP075(SIM): Benzo(b+j)fluoranthene	205-99-2	0.5	mg/kg	<0.5	1.5 mg/kg	99.2	70.5	142
EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	1.5 mg/kg	106	75.5	138
EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	1.5 mg/kg	89.6	68.5	140
EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	1.5 mg/kg	114	58.4	143
EP075(SIM): Dibenz(a,h)anthracene	53-70-3	0.5	mg/kg	<0.5	1.5 mg/kg	108	52.1	149
EP075(SIM): Benzo(g,h,i)perylene	191-24-2	0.5	mg/kg	<0.5	1.5 mg/kg	111	64.6	140
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5754021)								
EP080: C6 - C9 Fraction	----	10	mg/kg	<10	18 mg/kg	96.9	64.0	120
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5765606)								
EP071: C10 - C14 Fraction	----	50	mg/kg	<50	378 mg/kg	102	63.3	125
EP071: C15 - C28 Fraction	----	100	mg/kg	<100	407 mg/kg	103	56.1	122
EP071: C29 - C36 Fraction	----	100	mg/kg	<100	----	----	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5754021)								
EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	22.5 mg/kg	95.2	58.1	124
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5765606)								
EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	502 mg/kg	102	61.2	132
EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	268 mg/kg	106	52.6	130
EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	----	----	----	----
EP080: BTEXN (QCLot: 5754021)								
EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	1 mg/kg	96.4	68.0	107
EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	1 mg/kg	93.1	69.0	108
EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	1 mg/kg	100	68.0	109
EP080: meta- & para-Xylene	108-38-3	0.5	mg/kg	<0.5	2 mg/kg	93.6	70.0	114
EP080: ortho-Xylene	106-42-3	0.5	mg/kg	<0.5	1 mg/kg	92.9	74.0	116
EP080: Naphthalene	95-47-6	1	mg/kg	<1	1 mg/kg	87.2	74.0	109

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	Spike Recovery(%) MS	Acceptable Limits (%)	
				Low	High		
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 5754824)							
EB2412105-002	Anonymous	EG005T: Arsenic	7440-38-2	50 mg/kg	95.8	70.0	130
		EG005T: Cadmium	7440-43-9	50 mg/kg	92.4	70.0	130
		EG005T: Chromium	7440-47-3	50 mg/kg	93.1	70.0	130
		EG005T: Copper	7440-50-8	250 mg/kg	100	70.0	130
		EG005T: Lead	7439-92-1	250 mg/kg	88.7	70.0	130
		EG005T: Nickel	7440-02-0	50 mg/kg	95.1	70.0	130
		EG005T: Zinc	7440-66-6	250 mg/kg	85.9	70.0	130
EG035T: Total Recoverable Mercury by FIMS (QCLot: 5754829)							
EB2414050-002	ST2	EG035T: Mercury	7439-97-6	0.5 mg/kg	98.9	70.0	130
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 5765608)							
EB2414050-003	ST3	EP066: Total Polychlorinated biphenyls	----	1 mg/kg	91.5	70.0	130
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 5765607)							
EB2414050-003	ST3	EP075(SIM): Acenaphthene	83-32-9	1.5 mg/kg	86.0	66.0	132
		EP075(SIM): Pyrene	129-00-0	1.5 mg/kg	102	70.0	130
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5754021)							
EB2414050-002	ST2	EP080: C6 - C9 Fraction	----	8 mg/kg	89.7	70.0	130
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5765606)							
EB2414047-001	Anonymous	EP071: C10 - C14 Fraction	----	379 mg/kg	109	70.0	130
		EP071: C15 - C28 Fraction	----	407 mg/kg	120	70.0	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5754021)							
EB2414050-002	ST2	EP080: C6 - C10 Fraction	C6_C10	8 mg/kg	81.6	70.0	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5765606)							
EB2414047-001	Anonymous	EP071: >C10 - C16 Fraction	----	502 mg/kg	111	70.0	130
		EP071: >C16 - C34 Fraction	----	268 mg/kg	# 142	70.0	130
EP080: BTEXN (QCLot: 5754021)							
EB2414050-002	ST2	EP080: Benzene	71-43-2	2 mg/kg	86.9	70.0	130
		EP080: Toluene	108-88-3	2 mg/kg	84.9	70.0	130



QA/QC Compliance Assessment to assist with Quality Review

Work Order	: EB2414050	Page	: 1 of 7
Client	: ENVIRONMENTAL ADVISORS	Laboratory	: Environmental Division Brisbane
Contact	: ANDREW WINTERS	Telephone	: +61 7 3243 7222
Project	: 125 NSC LAKE McDONALD DVE, COOROY	Date Samples Received	: 26-Apr-2024
Site	: ----	Issue Date	: 07-May-2024
Sampler	: ANDREW WINTERS	No. of samples received	: 5
Order number	: ----	No. of samples analysed	: 5

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** Laboratory Control outliers occur.
- Duplicate outliers exist - please see following pages for full details.
- Matrix Spike outliers exist - please see following pages for full details.
- For all regular sample matrices, **NO** surrogate recovery outliers occur.

Outliers : Analysis Holding Time Compliance

- **NO** Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- 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
Duplicate (DUP) RPDs							
EG005(ED093)T: Total Metals by ICP-AES	EB2412105--001	Anonymous	Lead	7439-92-1	35.0 %	0% - 20%	RPD exceeds LOR based limits
Matrix Spike (MS) Recoveries							
EP080/071: Total Recoverable Hydrocarbons - NEPM 2	EB2414047--001	Anonymous	>C16 - C34 Fraction	----	142 %	70.0-130%	Recovery greater than upper data quality objective

Outliers : Frequency of Quality Control Samples

Matrix: **SOIL**

Quality Control Sample Type	Method	Count		Rate (%)		Quality Control Specification
		QC	Regular	Actual	Expected	
Matrix Spikes (MS)						
Pesticides by GCMS	EP068	0	1	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							
Soil Glass Jar - Unpreserved (EA055) ST1, ST4, ST2, ST5	23-Apr-2024	----	----	----	29-Apr-2024	07-May-2024	✓
EA055: Moisture Content (Dried @ 105-110°C)							
Soil Glass Jar - Unpreserved (EA055) ST3	23-Apr-2024	----	----	----	29-Apr-2024	07-May-2024	✓
EA200: AS 4964 - 2004 Identification of Asbestos in Soils							
Snap Lock Bag (EA200) ST1, ST3, ST5 ST2, ST4	23-Apr-2024	----	----	----	30-Apr-2024	20-Oct-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) ST1, ST3, ST5	ST2, ST4	23-Apr-2024	01-May-2024	20-Oct-2024	✔	01-May-2024	20-Oct-2024	✔
EG035T: Total Recoverable Mercury by FIMS								
Soil Glass Jar - Unpreserved (EG035T) ST1, ST3, ST5	ST2, ST4	23-Apr-2024	01-May-2024	21-May-2024	✔	02-May-2024	21-May-2024	✔
EP066: Polychlorinated Biphenyls (PCB)								
Soil Glass Jar - Unpreserved (EP066) ST3		23-Apr-2024	03-May-2024	07-May-2024	✔	04-May-2024	12-Jun-2024	✔
EP068A: Organochlorine Pesticides (OC)								
Soil Glass Jar - Unpreserved (EP068) ST3		23-Apr-2024	03-May-2024	07-May-2024	✔	05-May-2024	12-Jun-2024	✔
EP068B: Organophosphorus Pesticides (OP)								
Soil Glass Jar - Unpreserved (EP068) ST3		23-Apr-2024	03-May-2024	07-May-2024	✔	05-May-2024	12-Jun-2024	✔
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Soil Glass Jar - Unpreserved (EP075(SIM)) ST3		23-Apr-2024	03-May-2024	07-May-2024	✔	03-May-2024	12-Jun-2024	✔
EP080/071: Total Petroleum Hydrocarbons								
Soil Glass Jar - Unpreserved (EP071) ST1, ST3, ST5	ST2, ST4	23-Apr-2024	03-May-2024	07-May-2024	✔	04-May-2024	12-Jun-2024	✔
Soil Glass Jar - Unpreserved (EP080) ST1, ST3, ST5	ST2, ST4	23-Apr-2024	29-Apr-2024	07-May-2024	✔	01-May-2024	07-May-2024	✔
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
Soil Glass Jar - Unpreserved (EP071) ST1, ST3, ST5	ST2, ST4	23-Apr-2024	03-May-2024	07-May-2024	✔	04-May-2024	12-Jun-2024	✔
Soil Glass Jar - Unpreserved (EP080) ST1, ST3, ST5	ST2, ST4	23-Apr-2024	29-Apr-2024	07-May-2024	✔	01-May-2024	07-May-2024	✔

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 Work Order : EB2414050
 Client : ENVIRONMENTAL ADVISORS
 Project : 125 NSC LAKE McDONALD DVE, COOROY



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: BTEXN							
Soil Glass Jar - Unpreserved (EP080) ST1, ST3, ST5	ST2, ST4, 23-Apr-2024	29-Apr-2024	07-May-2024	✓	01-May-2024	07-May-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	Method	Count		Rate (%)			Quality Control Specification
		QC	Reaular	Actual	Expected	Evaluation	
Laboratory Duplicates (DUP)							
Moisture Content	EA055	2	16	12.50	10.00	✔	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (SIM)	EP075(SIM)	1	6	16.67	10.00	✔	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	1	1	100.00	10.00	✔	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	1	2	50.00	10.00	✔	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	6	16.67	10.00	✔	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	2	15	13.33	10.00	✔	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	2	18	11.11	10.00	✔	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	2	16	12.50	10.00	✔	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
PAH/Phenols (SIM)	EP075(SIM)	1	6	16.67	5.00	✔	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	1	1	100.00	5.00	✔	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	1	2	50.00	5.00	✔	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	6	16.67	5.00	✔	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	15	6.67	5.00	✔	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	18	5.56	5.00	✔	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	16	6.25	5.00	✔	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
PAH/Phenols (SIM)	EP075(SIM)	1	6	16.67	5.00	✔	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	1	1	100.00	5.00	✔	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	1	2	50.00	5.00	✔	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	6	16.67	5.00	✔	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	15	6.67	5.00	✔	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	18	5.56	5.00	✔	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	16	6.25	5.00	✔	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
PAH/Phenols (SIM)	EP075(SIM)	1	6	16.67	5.00	✔	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	0	1	0.00	5.00	✖	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	1	2	50.00	5.00	✔	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	6	16.67	5.00	✔	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	15	6.67	5.00	✔	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	18	5.56	5.00	✔	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	16	6.25	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).
Asbestos Identification in Soils	EA200	SOIL	AS 4964 Method for the qualitative identification of asbestos in bulk samples Analysis by Polarised Light Microscopy including dispersion staining
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 (SnCl ₂) (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 SnCl ₂ 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)
Polychlorinated Biphenyls (PCB)	EP066	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 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).
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.
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.

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Work Order : EB2414050
Client : ENVIRONMENTAL ADVISORS
Project : 125 NSC LAKE McDONALD DVE, COOROY



<i>Preparation Methods</i>	<i>Method</i>	<i>Matrix</i>	<i>Method Descriptions</i>
Tumbler Extraction of Solids	ORG17	SOIL	In house: Mechanical agitation (tumbler). 10g of sample, Na ₂ SO ₄ and surrogate are extracted with 30mL 1:1 DCM/Acetone by end over end tumble. The solvent is decanted, dehydrated and concentrated (by KD) to the desired volume for analysis.





CHAIN OF CUSTODY

ALS Laboratory: please tick →

Sydney: 277 Woodpark Rd, Smithfield NSW 2175
 Ph: 02 8784 9555 E: samples.sydney@alsenviro.com
 Newcastle: 5 Rosegum Rd, Warabrook NSW 2304
 Ph: 02 4808 9433 E: samples.newcastle@alsenviro.com

Brisbane: 32 Shand St, Stafford QLD 4053
 Ph: 07 3243 7222 E: samples.brisbane@alsenviro.com
 Townsville: 14-15 Debra Ct, Schile QLD 4818
 Ph: 07 4756 6820 E: townsville.environment@alsenviro.com

Melbourne: 3-4 Westell Rd, Springvale VIC 3171
 Ph: 03 8548 8500 E: samples.melbourne@alsenviro.com
 Adelaide: 2-1 Burma Rd, Pooraka SA 5096
 Ph: 08 8369 5080 E: adelaide@alsenviro.com

Perth: 10 Hod Way, Malaga WA 6090
 Ph: 08 9209 7885 E: samples.perth@alsenviro.com
 Launceston: 27 Wellington St, Launceston TAS 7250
 Ph: 03 6331 2159 E: launceston@alsenviro.com

CLIENT: Environmental Advisors Pty Ltd	TURNAROUND REQUIREMENTS : <input checked="" type="checkbox"/> Standard TAT (List due date): 25 March 24	FOR LABORATORY USE ONLY (Circle) Custody Seal intact? Yes No N/A Free ice / frozen ice bricks present upon receipt? Yes No N/A Random Sample Temperature on Receipt: °C Other comment:
OFFICE: Sunshine Coast	(Standard TAT may be longer for some tests e.g., Ultra Trace Organics) <input type="checkbox"/> Non Standard or urgent TAT (List due date):	
PROJECT: 125 NSC LAKE McDONALD DVE, COORDY	ALS QUOTE NO.: EB23ENVADV0001 V2	COC SEQUENCE NUMBER 1 OF 1
ORDER NUMBER:		
PROJECT MANAGER: Andrew Winters	CONTACT PH: 0409 662 747	RECEIVED BY: LP
SAMPLER: Andrew Winters	SAMPLER MOBILE: 0409 662 747	RELINQUISHED BY: Andrew Winters
COC emailed to ALS? <input type="checkbox"/> No	EDD FORMAT: Default	DATE/TIME: 15/3/24
Email Reports to (will default to PM if no other addresses are listed): andrew@environmentaladvisors.com.au		DATE/TIME: 28/3/24 17:24
Email Invoice to (will default to PM if no other addresses are listed): admin@environmentaladvisors.com.au		DATE/TIME:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

ALS USE ONLY	SAMPLE DETAILS				CONTAINER INFORMATION	ANALYSIS REQUIRED including SUITES (NB. Suite Codes must be listed to attract suite price)							Additional Information
	LAB ID	SAMPLE ID	DATE / TIME	MATRIX		TYPE & PRESERVATIVE (refer to codes below)	TOTAL CONTAINERS	EG054-FIEG056F-LL (8 Metals ultra trace fresh water)	W-07 SG (TRH/BTEX/PAH with silica gel clean-up)	EAO15H (TDS standard level)	EP231-ST (PFAS Short Suite super trace)	EP075 (SVOC)	
1	MB1-1	14/03/2024	W	2purple, 2PFAS, 2metals, 1green, 1orange	8	x	x	x	x	x			
2	MB2-1	14/03/2024	W	per above	8	x	x	x	x	x			
3	MB4-1	14/03/2024	W	per above	8	x	x	x	x	x			
4	D1	14/03/2024	W	per above	8	x	x	x	x	x			
5	220817	14/03/2024	W	2 x purple	2							x	
TOTAL					34	4	4	4	4	4	1	0	0

Environmental Division
 Brisbane
 Work Order Reference
EB2409053



Telephone : + 61-7-3243 7222

Water Container Codes: P = Unpreserved Plastic; N = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide/Cd Preserved; S = Sodium Hydroxide Preserved Plastic; AG = Amber Glass Unpreserved; AP = Airfreight Unpreserved Plastic
 V = VOA Vial HCl Preserved; VB = VOA Vial Sodium Bisulphate Preserved; VS = VOA Vial Sulfuric Preserved; AV = Airfreight Unpreserved Vial SG = Sulfuric Preserved Amber Glass; H = HCl preserved Plastic; HS = HCl preserved Speciation bottle; SP = Sulfuric Preserved Plastic; F = Formaldehyde Preserved Glass;
 Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bottle; ASS = Plastic Bag for Acid Sulphate Soils; B = Unpreserved Bag.



SAMPLE RECEIPT NOTIFICATION (SRN)

Work Order : **EB2409053**

Client	: ENVIRONMENTAL ADVISORS	Laboratory	: Environmental Division Brisbane
Contact	: ANDREW WINTERS	Contact	: Customer Services EB
Address	: PO BOX 505 BUDDINA QLD 4575	Address	: 2 Byth Street Stafford QLD Australia 4053
E-mail	: andrew@environmentaladvisors.com.au	E-mail	: ALSEnviro.Brisbane@alsglobal.com
Telephone	: ----	Telephone	: +61 7 3243 7222
Facsimile	: ----	Facsimile	: +61-7-3243 7218
Project	: 125 NSC LAKE McDONALD DVE, COOROY	Page	: 1 of 2
Order number	: ----	Quote number	: EB2023ENVADV0001 (EB23ENVADV0001 V2)
C-O-C number	: ----	QC Level	: NEPM 2013 B3 & ALS QC Standard
Site	: ----		
Sampler	: ANDREW WINTERS		

Dates

Date Samples Received	: 18-Mar-2024 14:49	Issue Date	: 18-Mar-2024
Client Requested Due Date	: 27-Mar-2024	Scheduled Reporting Date	: 27-Mar-2024

Delivery Details

Mode of Delivery	: Carrier	Security Seal	: Intact.
No. of coolers/boxes	: 1	Temperature	: 15.7°C, 16.9°C, 17.2°C - Ice Bricks present
Receipt Detail	: Esky Small	No. of samples received / analysed	: 5 / 5

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
- **The laboratory acknowledges your requested reporting date of 25.03.2024, however due to the analytical request and associated procedures involved the requested due date will not be possible. Please note the best practical due date has been assigned.**
- **Please be advised that the requested EP231-ST analysis has not been assigned due to insufficient volume submitted for this analysis. ALS has assigned the lowest level of reporting available in it's place based on the volume submitted, EP231-LL (low level PFAS) for further information please contact client services at ALSEnviro.Brisbane@alsglobal.com**
- Discounted Package Prices apply only when specific ALS Group Codes ('W', 'S', 'NT' suites) are referenced on COCs.
- Please direct any turn around / technical queries to the laboratory contact designated above.
- Sample Disposal - Aqueous (3 weeks), Solid (2 months ± 1 week) from receipt of samples.
- Analysis will be conducted by ALS Environmental, Brisbane, NATA accreditation no. 825, Site No. 818 (Micro site no. 18958).
- **Sample(s) requiring volatile organic compound analysis received in airtight containers (ZHE).**
- **Breaches in recommended extraction / analysis holding times (if any) are displayed overleaf in the Proactive Holding Time Report table.**
- 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.
- **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.**



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 - EA015H Total Dissolved Solids - Standard Level	WATER - EG035F-LL Dissolved Mercury - Low Level	WATER - EG094-F Dissolved Metals by ORC - Ultra Trace in Fresh	WATER - EP075 Semivolatile Organic Compounds	WATER - EP231-LL PFAS - Short Suite Low Level (12 analytes)	WATER - W-07 SG TRH/BTEXNI/PAH with SG clean up	WATER - W-18 TRH(C6 - C9)/BTEXN
EB2409053-001	14-Mar-2024 00:00	MB1-1	✓	✓	✓	✓	✓	✓	
EB2409053-002	14-Mar-2024 00:00	MB2-1	✓	✓	✓	✓	✓	✓	
EB2409053-003	14-Mar-2024 00:00	MB4-1	✓	✓	✓	✓	✓	✓	
EB2409053-004	14-Mar-2024 00:00	D1	✓	✓	✓	✓	✓	✓	
EB2409053-005	14-Mar-2024 00:00	220817							✓

Proactive Holding Time Report

Sample(s) have been received within the recommended holding times for the requested analysis.

Requested Deliverables

ALL INVOICES

- A4 - AU Tax Invoice (INV) Email admin@environmentaladvisors.com.au

ANDREW WINTERS

- *AU Certificate of Analysis - NATA (COA) Email andrew@environmentaladvisors.com.au
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI) Email andrew@environmentaladvisors.com.au
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC) Email andrew@environmentaladvisors.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN) Email andrew@environmentaladvisors.com.au
- Chain of Custody (CoC) (COC) Email andrew@environmentaladvisors.com.au
- EDI Format - XTab (XTAB) Email andrew@environmentaladvisors.com.au

Inter-Laboratory Testing

Analysis conducted by ALS Sydney, NATA accreditation no. 825, site no. 10911 (Chemistry) 14913 (Biology).

(WATER) EP231A: Perfluoroalkyl Sulfonic Acids

(WATER) EP231D: (n:2) Fluorotelomer Sulfonic Acids

(WATER) EP231B: Perfluoroalkyl Carboxylic Acids

(WATER) EP231P: PFAS Sums



CERTIFICATE OF ANALYSIS

Work Order : **EB2409053**
Client : **ENVIRONMENTAL ADVISORS**
Contact : ANDREW WINTERS
Address : PO BOX 505
BUDDINA QLD 4575
Telephone : ----
Project : 125 NSC LAKE McDONALD DVE, COOROY
Order number : ----
C-O-C number : ----
Sampler : ANDREW WINTERS
Site : ----
Quote number : EB23ENVADV0001 V2
No. of samples received : 5
No. of samples analysed : 5

Page : 1 of 12
Laboratory : Environmental Division Brisbane
Contact : Customer Services EB
Address : 2 Byth Street Stafford QLD Australia 4053
Telephone : +61 7 3243 7222
Date Samples Received : 18-Mar-2024 14:49
Date Analysis Commenced : 19-Mar-2024
Issue Date : 26-Mar-2024 15:24



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.

<i>Signatories</i>	<i>Position</i>	<i>Accreditation Category</i>
Franco Lentini	LCMS Coordinator	Sydney Organics, Smithfield, NSW
Kim McCabe	Senior Inorganic Chemist	Brisbane Inorganics, Stafford, QLD
Timothy Creagh	Senior Chemist - Organics	Brisbane Organics, Stafford, QLD



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.
- EP231X - Per- and Polyfluoroalkyl Substances (PFAS): Samples received in 20ml or 125ml bottles have been tested in accordance with the QSM5.3 compliant, NATA accredited method. 60mL or 250mL bottles have been tested to the legacy QSM 5.1 aligned, NATA accredited method.
- 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.
- TDS by method EA-015 may bias high for some samples due to the presence of fine particulate matter, which may pass through the prescribed GF/C paper.
- EP075: Where reported, 'Sum of PAH' is the sum of the USEPA 16 priority PAHs
- EP231: Stable isotope enriched internal standards are added to samples prior to extraction. Target compounds have a direct analogous internal standard with the exception of PFPeS, PFHpA, PFDS, PFTTrDA and 10:2 FTS. These compounds use an internal standard that is chemically related and has a retention time close to that of the target compound. The DQO for internal standard response is 50-150% of that established at initial calibration. PFOS is quantified using a certified, traceable standard consisting of linear and branched PFOS isomers. These practices are in line with recommendations in the National Environmental Management Plan for PFAS (Australian HEPA) and also conform to QSM 5.3 (US DoD) requirements.



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	MB1-1	MB2-1	MB4-1	D1	220817
Sampling date / time				14-Mar-2024 00:00	14-Mar-2024 00:00	14-Mar-2024 00:00	14-Mar-2024 00:00	14-Mar-2024 00:00	14-Mar-2024 00:00
Compound	CAS Number	LOR	Unit	EB2409053-001	EB2409053-002	EB2409053-003	EB2409053-004	EB2409053-005	
				Result	Result	Result	Result	Result	
EA015: Total Dissolved Solids dried at 180 ± 5 °C									
Total Dissolved Solids @180°C	----	10	mg/L	81	204	50	53	----	
EG035F: Dissolved Mercury by FIMS									
Mercury	7439-97-6	0.00004	mg/L	<0.00004	<0.00004	<0.00004	<0.00004	----	
EG094F: Dissolved Metals in Fresh Water by ORC-ICPMS									
Arsenic	7440-38-2	0.2	µg/L	<0.2	1.4	<0.2	<0.2	----	
Cadmium	7440-43-9	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	----	
Chromium	7440-47-3	0.2	µg/L	<0.2	0.2	0.2	<0.2	----	
Copper	7440-50-8	0.5	µg/L	4.3	1.1	1.7	0.5	----	
Lead	7439-92-1	0.1	µg/L	0.1	0.1	<0.1	<0.1	----	
Nickel	7440-02-0	0.5	µg/L	2.6	3.4	0.5	<0.5	----	
Zinc	7440-66-6	1	µg/L	13	15	4	2	----	
EP071 SG: Total Petroleum Hydrocarbons - Silica gel cleanup									
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	----	
EP071 SG: Total Recoverable Hydrocarbons - NEPM 2013 Fractions - Silica gel cleanup									
>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	----	
>C10 - C16 Fraction minus Naphthalene (F2)	----	100	µg/L	<100	<100	<100	<100	----	
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	----	



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	MB1-1	MB2-1	MB4-1	D1	220817
Sampling date / time				14-Mar-2024 00:00	14-Mar-2024 00:00	14-Mar-2024 00:00	14-Mar-2024 00:00	14-Mar-2024 00:00	14-Mar-2024 00:00
Compound	CAS Number	LOR	Unit	EB2409053-001	EB2409053-002	EB2409053-003	EB2409053-004	EB2409053-005	
				Result	Result	Result	Result	Result	
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.002	µg/L	<0.002	<0.002	<0.002	<0.002	<0.002	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.002	µg/L	<0.002	<0.002	<0.002	<0.002	<0.002	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.002	µg/L	<0.002	<0.002	<0.002	<0.002	<0.002	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.002	µg/L	<0.002	<0.002	<0.002	<0.002	<0.002	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.005	µg/L	<0.005	<0.005	<0.005	<0.005	<0.005	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.005	µg/L	<0.005	<0.005	<0.005	<0.005	<0.005	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.005	µg/L	<0.005	<0.005	<0.005	<0.005	<0.005	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.005	µg/L	<0.005	<0.005	<0.005	<0.005	<0.005	----
EP231P: PFAS Sums									
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.002	µg/L	<0.002	<0.002	<0.002	<0.002	<0.002	----
Sum of PFAS (WA DER List)	----	0.002	µg/L	<0.002	<0.002	<0.002	0.020	----	----
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	1.0	%	30.4	33.6	30.3	31.2	----	----
2-Chlorophenol-D4	93951-73-6	1.0	%	78.4	86.0	76.9	80.6	----	----
2,4,6-Tribromophenol	118-79-6	1.0	%	87.8	95.0	87.0	87.4	----	----
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	1.0	%	73.5	79.8	73.8	70.1	----	----
Anthracene-d10	1719-06-8	1.0	%	87.9	95.2	87.0	91.0	----	----
4-Terphenyl-d14	1718-51-0	1.0	%	95.9	79.0	96.2	103	----	----
EP075S: Acid Extractable Surrogates									
2-Fluorophenol	367-12-4	2	%	47.0	50.0	45.9	48.8	----	----
Phenol-d6	13127-88-3	2	%	28.7	31.4	28.7	30.0	----	----
2-Chlorophenol-D4	93951-73-6	2	%	75.7	83.0	73.0	78.0	----	----



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	MB1-1	MB2-1	MB4-1	D1	220817
Sampling date / time				14-Mar-2024 00:00	14-Mar-2024 00:00	14-Mar-2024 00:00	14-Mar-2024 00:00	14-Mar-2024 00:00	14-Mar-2024 00:00
Compound	CAS Number	LOR	Unit	EB2409053-001	EB2409053-002	EB2409053-003	EB2409053-004	EB2409053-005	
				Result	Result	Result	Result	Result	
EP075S: Acid Extractable Surrogates - Continued									
2,4,6-Tribromophenol	118-79-6	2	%	51.3	55.7	52.0	51.1	----	
EP075T: Base/Neutral Extractable Surrogates									
Nitrobenzene-D5	4165-60-0	2	%	82.9	90.1	80.3	86.2	----	
1,2-Dichlorobenzene-D4	2199-69-1	2	%	51.9	62.8	53.6	46.7	----	
2-Fluorobiphenyl	321-60-8	2	%	71.0	75.8	70.7	66.5	----	
Anthracene-d10	1719-06-8	2	%	75.1	82.3	75.2	75.2	----	
4-Terphenyl-d14	1718-51-0	2	%	97.2	109	96.3	104	----	
EP080S: TPH(V)/BTEX Surrogates									
1,2-Dichloroethane-D4	17060-07-0	2	%	113	117	114	114	114	
Toluene-D8	2037-26-5	2	%	94.7	94.8	93.5	94.5	91.0	
4-Bromofluorobenzene	460-00-4	2	%	102	102	102	99.5	98.1	
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.002	%	97.8	102	107	100	----	
13C8-PFOA	----	0.002	%	118	116	120	112	----	



Surrogate Control Limits

Sub-Matrix: WATER		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP075(SIM)S: Phenolic Compound Surrogates			
Phenol-d6	13127-88-3	10	72
2-Chlorophenol-D4	93951-73-6	27	130
2,4,6-Tribromophenol	118-79-6	19	181
EP075(SIM)T: PAH Surrogates			
2-Fluorobiphenyl	321-60-8	14	146
Anthracene-d10	1719-06-8	35	137
4-Terphenyl-d14	1718-51-0	36	154
EP075S: Acid Extractable Surrogates			
2-Fluorophenol	367-12-4	10	127
Phenol-d6	13127-88-3	10	129
2-Chlorophenol-D4	93951-73-6	20	138
2,4,6-Tribromophenol	118-79-6	14	163
EP075T: Base/Neutral Extractable Surrogates			
Nitrobenzene-D5	4165-60-0	34	139
1,2-Dichlorobenzene-D4	2199-69-1	10	129
2-Fluorobiphenyl	321-60-8	19	145
Anthracene-d10	1719-06-8	33	160
4-Terphenyl-d14	1718-51-0	32	177
EP080S: TPH(V)/BTEX Surrogates			
1,2-Dichloroethane-D4	17060-07-0	66	138
Toluene-D8	2037-26-5	79	120
4-Bromofluorobenzene	460-00-4	74	118
EP231S: PFAS Surrogate			
13C4-PFOS	----	60	120
13C8-PFOA	----	60	120

Inter-Laboratory Testing

Analysis conducted by ALS Sydney, NATA accreditation no. 825, site no. 10911 (Chemistry) 14913 (Biology).

(WATER) EP231A: Perfluoroalkyl Sulfonic Acids

(WATER) EP231D: (n:2) Fluorotelomer Sulfonic Acids

(WATER) EP231B: Perfluoroalkyl Carboxylic Acids

(WATER) EP231P: PFAS Sums

(WATER) EP231S: PFAS Surrogate



QUALITY CONTROL REPORT

Work Order	: EB2409053	Page	: 1 of 11
Client	: ENVIRONMENTAL ADVISORS	Laboratory	: Environmental Division Brisbane
Contact	: ANDREW WINTERS	Contact	: Customer Services EB
Address	: PO BOX 505 BUDDINA QLD 4575	Address	: 2 Byth Street Stafford QLD Australia 4053
Telephone	: ----	Telephone	: +61 7 3243 7222
Project	: 125 NSC LAKE McDONALD DVE, COOROY	Date Samples Received	: 18-Mar-2024
Order number	: ----	Date Analysis Commenced	: 19-Mar-2024
C-O-C number	: ----	Issue Date	: 26-Mar-2024
Sampler	: ANDREW WINTERS		
Site	: ----		
Quote number	: EB23ENVADV0001 V2		
No. of samples received	: 5		
No. of samples analysed	: 5		



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
Franco Lentini	LCMS Coordinator	Sydney Organics, Smithfield, NSW
Kim McCabe	Senior Inorganic Chemist	Brisbane Inorganics, Stafford, QLD
Timothy Creagh	Senior Chemist - Organics	Brisbane Organics, Stafford, QLD



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 (%)
EA015: Total Dissolved Solids dried at 180 ± 5 °C (QC Lot: 5677448)									
EB2409004-001	Anonymous	EA015H: Total Dissolved Solids @180°C	----	10	mg/L	1870	1870	0.3	0% - 20%
EB2409118-001	Anonymous	EA015H: Total Dissolved Solids @180°C	----	10	mg/L	351	348	0.8	0% - 20%
EG035F: Dissolved Mercury by FIMS (QC Lot: 5673708)									
EB2409053-001	MB1-1	EG035F-LL: Mercury	7439-97-6	0.00004	mg/L	<0.00004	<0.00004	0.0	No Limit
EG094F: Dissolved Metals in Fresh Water by ORC-ICPMS (QC Lot: 5671709)									
EB2409053-001	MB1-1	EG094A-F: Cadmium	7440-43-9	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EG094A-F: Lead	7439-92-1	0.1	µg/L	0.1	0.1	0.0	No Limit
		EG094A-F: Arsenic	7440-38-2	0.2	µg/L	<0.2	<0.2	0.0	No Limit
		EG094A-F: Chromium	7440-47-3	0.2	µg/L	<0.2	<0.2	0.0	No Limit
		EG094A-F: Copper	7440-50-8	0.5	µg/L	4.3	4.3	0.0	No Limit
		EG094A-F: Nickel	7440-02-0	0.5	µg/L	2.6	2.5	0.0	No Limit
		EG094A-F: Zinc	7440-66-6	1	µg/L	13	13	0.0	0% - 50%
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 5673899)									
EB2409053-001	MB1-1	EP080: C6 - C9 Fraction	----	20	µg/L	<20	<20	0.0	No Limit
EB2409055-006	Anonymous	EP080: C6 - C9 Fraction	----	20	µg/L	<20	<20	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 5673899)									
EB2409053-001	MB1-1	EP080: C6 - C10 Fraction	C6_C10	20	µg/L	<20	<20	0.0	No Limit
EB2409055-006	Anonymous	EP080: C6 - C10 Fraction	C6_C10	20	µg/L	<20	<20	0.0	No Limit
EP080: BTEXN (QC Lot: 5673899)									
EB2409053-001	MB1-1	EP080: Benzene	71-43-2	1	µg/L	<1	<1	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 (%)
EP080: BTEXN (QC Lot: 5673899) - continued									
EB2409053-001	MB1-1	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
EB2409055-006	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
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 5682208)									
EB2408766-001	Anonymous	EP231X-LL: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.002 (0.010) *	µg/L	1.77	2.00	12.1	0% - 20%
		EP231X-LL: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.002 (0.100) *	µg/L	20.4	22.4	9.5	0% - 20%
		EP231X-LL: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.002 (0.010) *	µg/L	5.54	6.20	11.4	0% - 20%
EB2408909-001	Anonymous	EP231X-LL: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.002	µg/L	<0.002	<0.002	0.0	No Limit
		EP231X-LL: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.002	µg/L	<0.002	<0.002	0.0	No Limit
		EP231X-LL: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.002	µg/L	<0.002	<0.002	0.0	No Limit
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 5682208)									
EB2408766-001	Anonymous	EP231X-LL: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.002 (0.010) *	µg/L	0.920	0.959	4.2	0% - 20%
		EP231X-LL: Perfluorohexanoic acid (PFHxA)	307-24-4	0.002 (0.010) *	µg/L	5.02	5.29	5.3	0% - 20%
		EP231X-LL: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.002	µg/L	0.528	0.529	0.0	0% - 20%
		EP231X-LL: Perfluorooctanoic acid (PFOA)	335-67-1	0.002	µg/L	0.720	0.718	0.3	0% - 20%
		EP231X-LL: Perfluorobutanoic acid (PFBA)	375-22-4	0.01	µg/L	0.44	0.44	0.0	0% - 20%
EB2408909-001	Anonymous	EP231X-LL: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.002	µg/L	<0.002	<0.002	0.0	No Limit
		EP231X-LL: Perfluorohexanoic acid (PFHxA)	307-24-4	0.002	µg/L	<0.002	<0.002	0.0	No Limit
		EP231X-LL: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.002	µg/L	<0.002	<0.002	0.0	No Limit
		EP231X-LL: Perfluorooctanoic acid (PFOA)	335-67-1	0.002	µg/L	<0.002	<0.002	0.0	No Limit
		EP231X-LL: Perfluorobutanoic acid (PFBA)	375-22-4	0.01	µg/L	<0.01	<0.01	0.0	No Limit
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 5682208)									



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 (%)
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 5682208) - continued									
EB2408766-001	Anonymous	EP231X-LL: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.005	µg/L	<0.005	<0.005	0.0	No Limit
		EP231X-LL: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.005	µg/L	<0.005	<0.005	0.0	No Limit
		EP231X-LL: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.005	µg/L	<0.005	<0.005	0.0	No Limit
		EP231X-LL: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.005	µg/L	<0.005	<0.005	0.0	No Limit
EB2408909-001	Anonymous	EP231X-LL: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.005	µg/L	<0.005	<0.005	0.0	No Limit
		EP231X-LL: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.005	µg/L	<0.005	<0.005	0.0	No Limit
		EP231X-LL: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.005	µg/L	<0.005	<0.005	0.0	No Limit
		EP231X-LL: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.005	µg/L	<0.005	<0.005	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			
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	Spike Recovery (%) LCS	Acceptable Limits (%) Low High	
EA015: Total Dissolved Solids dried at 180 ± 5 °C (QCLot: 5677448)								
EA015H: Total Dissolved Solids @180°C	----	10	mg/L	<10	293 mg/L	109	88.0	112
				<10	2000 mg/L	95.4	80.9	118
				<10	2340 mg/L	104	80.8	119
EG035F: Dissolved Mercury by FIMS (QCLot: 5673708)								
EG035F-LL: Mercury	7439-97-6	0.00004	mg/L	<0.00004	0.002 mg/L	94.3	85.0	118
EG094F: Dissolved Metals in Fresh Water by ORC-ICPMS (QCLot: 5671709)								
EG094A-F: Arsenic	7440-38-2	0.2	µg/L	<0.2	10 µg/L	96.6	80.0	120
EG094A-F: Cadmium	7440-43-9	0.05	µg/L	<0.05	10 µg/L	96.6	80.0	120
EG094A-F: Chromium	7440-47-3	0.2	µg/L	<0.2	10 µg/L	102	80.0	120
EG094A-F: Copper	7440-50-8	0.5	µg/L	<0.5	10 µg/L	95.2	80.0	120
EG094A-F: Lead	7439-92-1	0.1	µg/L	<0.1	10 µg/L	95.0	80.0	120
EG094A-F: Nickel	7440-02-0	0.5	µg/L	<0.5	10 µg/L	95.2	80.0	120
EG094A-F: Zinc	7440-66-6	1	µg/L	<1	10 µg/L	90.9	80.0	120
EP071 SG: Total Petroleum Hydrocarbons - Silica gel cleanup (QCLot: 5676627)								
EP071SG: C10 - C14 Fraction	----	50	µg/L	<50	1192 µg/L	76.8	32.0	124
EP071SG: C15 - C28 Fraction	----	100	µg/L	<100	1390 µg/L	81.2	33.0	117
EP071SG: C29 - C36 Fraction	----	50	µg/L	<50	----	----	----	----
EP071 SG: Total Recoverable Hydrocarbons - NEPM 2013 Fractions - Silica gel cleanup (QCLot: 5676627)								
EP071SG: >C10 - C16 Fraction	----	100	µg/L	<100	1592 µg/L	76.4	34.0	121
EP071SG: >C16 - C34 Fraction	----	100	µg/L	<100	932 µg/L	88.7	30.0	117
EP071SG: >C34 - C40 Fraction	----	100	µg/L	<100	----	----	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 5676625)								
EP075(SIM): Naphthalene	91-20-3	1	µg/L	<1.0	10 µg/L	88.3	50.0	110
EP075(SIM): Acenaphthylene	208-96-8	1	µg/L	<1.0	10 µg/L	96.8	49.0	124
EP075(SIM): Acenaphthene	83-32-9	1	µg/L	<1.0	10 µg/L	99.2	55.0	114
EP075(SIM): Fluorene	86-73-7	1	µg/L	<1.0	10 µg/L	87.5	55.0	119
EP075(SIM): Phenanthrene	85-01-8	1	µg/L	<1.0	10 µg/L	92.9	51.0	127
EP075(SIM): Anthracene	120-12-7	1	µg/L	<1.0	10 µg/L	100	55.0	127
EP075(SIM): Fluoranthene	206-44-0	1	µg/L	<1.0	10 µg/L	102	55.0	127
EP075(SIM): Pyrene	129-00-0	1	µg/L	<1.0	10 µg/L	87.1	54.0	126



Sub-Matrix: WATER

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
				Result	Spike Concentration	Spike Recovery (%)	Acceptable Limits (%)	
					LCS	Low	High	
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 5676625) - continued								
EP075(SIM): Benz(a)anthracene	56-55-3	1	µg/L	<1.0	10 µg/L	90.8	47.0	136
EP075(SIM): Chrysene	218-01-9	1	µg/L	<1.0	10 µg/L	100	51.0	129
EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	1	µg/L	<1.0	10 µg/L	99.1	55.0	132
EP075(SIM): Benzo(k)fluoranthene	207-08-9	1	µg/L	<1.0	10 µg/L	87.0	58.0	128
EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	µg/L	<0.5	10 µg/L	91.2	55.0	131
EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	1	µg/L	<1.0	10 µg/L	90.9	52.0	133
EP075(SIM): Dibenz(a,h)anthracene	53-70-3	1	µg/L	<1.0	10 µg/L	92.0	48.0	137
EP075(SIM): Benzo(g,h,i)perylene	191-24-2	1	µg/L	<1.0	10 µg/L	91.7	53.0	131
EP075A: Phenolic Compounds (QCLot: 5676628)								
EP075: Phenol	108-95-2	2	µg/L	<2	10 µg/L	31.8	14.8	54.6
EP075: 2-Chlorophenol	95-57-8	2	µg/L	<2	10 µg/L	81.2	58.2	107
EP075: 2-Methylphenol	95-48-7	2	µg/L	<2	10 µg/L	74.0	43.7	106
EP075: 3- & 4-Methylphenol	1319-77-3	2	µg/L	<2	10 µg/L	65.7	46.7	92.2
EP075: 2-Nitrophenol	88-75-5	2	µg/L	<2	10 µg/L	93.1	53.7	123
EP075: 2,4-Dimethylphenol	105-67-9	2	µg/L	<2	10 µg/L	87.6	57.8	113
EP075: 2,4-Dichlorophenol	120-83-2	2	µg/L	<2	10 µg/L	85.2	56.8	117
EP075: 2,6-Dichlorophenol	87-65-0	2	µg/L	<2	10 µg/L	91.7	62.8	119
EP075: 4-Chloro-3-methylphenol	59-50-7	2	µg/L	<2	10 µg/L	86.1	52.7	120
EP075: 2,4,6-Trichlorophenol	88-06-2	2	µg/L	<2	10 µg/L	95.8	58.7	128
EP075: 2,4,5-Trichlorophenol	95-95-4	2	µg/L	<2	10 µg/L	81.8	52.5	124
EP075: Pentachlorophenol	87-86-5	4	µg/L	<4	10 µg/L	88.6	22.0	139
EP075B: Polynuclear Aromatic Hydrocarbons (QCLot: 5676628)								
EP075: Naphthalene	91-20-3	2	µg/L	<2	10 µg/L	85.5	53.0	122
EP075: 2-Methylnaphthalene	91-57-6	2	µg/L	<2	10 µg/L	86.7	52.2	124
EP075: 2-Chloronaphthalene	91-58-7	2	µg/L	<2	10 µg/L	86.5	51.8	130
EP075: Acenaphthylene	208-96-8	2	µg/L	<2	10 µg/L	91.5	58.0	127
EP075: Acenaphthene	83-32-9	2	µg/L	<2	10 µg/L	86.5	56.1	104
EP075: Fluorene	86-73-7	2	µg/L	<2	10 µg/L	88.4	55.8	118
EP075: Phenanthrene	85-01-8	2	µg/L	<2	10 µg/L	94.8	63.5	115
EP075: Anthracene	120-12-7	2	µg/L	<2	10 µg/L	96.2	62.7	116
EP075: Fluoranthene	206-44-0	2	µg/L	<2	10 µg/L	99.7	64.4	119
EP075: Pyrene	129-00-0	2	µg/L	<2	10 µg/L	102	65.8	122
EP075: N-2-Fluorenyl Acetamide	53-96-3	2	µg/L	<2	10 µg/L	92.7	54.0	118



Sub-Matrix: WATER

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report				
				Result	Spike Concentration	Spike Recovery (%)		Acceptable Limits (%)	
						LCS	Low	High	
EP075B: Polynuclear Aromatic Hydrocarbons (QCLot: 5676628) - continued									
EP075: Benz(a)anthracene	56-55-3	2	µg/L	<2	10 µg/L	97.8	59.0	124	
EP075: Chrysene	218-01-9	2	µg/L	<2	10 µg/L	99.4	60.5	126	
EP075: Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	4	µg/L	<4	20 µg/L	92.9	50.1	135	
EP075: 7,12-Dimethylbenz(a)anthracene	57-97-6	2	µg/L	<2	10 µg/L	92.7	64.7	122	
EP075: Benzo(a)pyrene	50-32-8	2	µg/L	<2	10 µg/L	94.4	56.0	121	
EP075: 3-Methylcholanthrene	56-49-5	2	µg/L	<2	10 µg/L	94.9	56.0	129	
EP075: Indeno(1,2,3.cd)pyrene	193-39-5	2	µg/L	<2	10 µg/L	105	56.0	123	
EP075: Dibenzo(a,h)anthracene	53-70-3	2	µg/L	<2	10 µg/L	85.3	52.0	124	
EP075: Benzo(g,h,i)perylene	191-24-2	2	µg/L	<2	10 µg/L	91.3	55.0	122	
EP075C: Phthalate Esters (QCLot: 5676628)									
EP075: Dimethyl phthalate	131-11-3	2	µg/L	<2	10 µg/L	93.5	64.0	139	
EP075: Diethyl phthalate	84-66-2	2	µg/L	<2	10 µg/L	90.1	60.3	118	
EP075: Di-n-butyl phthalate	84-74-2	2	µg/L	<2	10 µg/L	96.7	63.7	118	
EP075: Butyl benzyl phthalate	85-68-7	2	µg/L	<2	10 µg/L	98.1	62.0	121	
EP075: bis(2-ethylhexyl) phthalate	117-81-7	10	µg/L	<10	10 µg/L	80.7	54.1	128	
EP075: Di-n-octylphthalate	117-84-0	2	µg/L	<2	10 µg/L	81.0	48.7	133	
EP075D: Nitrosamines (QCLot: 5676628)									
EP075: N-Nitrosomethylethylamine	10595-95-6	2	µg/L	<2	10 µg/L	58.1	40.4	86.5	
EP075: N-Nitrosodiethylamine	55-18-5	2	µg/L	<2	10 µg/L	80.7	53.3	105	
EP075: N-Nitrosopyrrolidine	930-55-2	4	µg/L	<4	10 µg/L	61.2	37.9	88.4	
EP075: N-Nitrosomorpholine	59-89-2	2	µg/L	<2	10 µg/L	56.5	38.1	86.0	
EP075: N-Nitrosodi-n-propylamine	621-64-7	2	µg/L	<2	10 µg/L	86.0	61.8	117	
EP075: N-Nitrosopiperidine	100-75-4	2	µg/L	<2	10 µg/L	81.7	60.0	111	
EP075: N-Nitrosodibutylamine	924-16-3	2	µg/L	<2	10 µg/L	84.2	54.9	122	
EP075: N-Nitrosodiphenyl & Diphenylamine	86-30-6 122-39-4	4	µg/L	<4	10 µg/L	86.4	58.4	114	
EP075: Methapyrilene	91-80-5	2	µg/L	<2	10 µg/L	# 101	0	90.7	
EP075E: Nitroaromatics and Ketones (QCLot: 5676628)									
EP075: 2-Picoline	109-06-8	2	µg/L	<2	10 µg/L	61.4	25.8	74.0	
EP075: Acetophenone	98-86-2	2	µg/L	<2	10 µg/L	88.6	61.1	114	
EP075: Nitrobenzene	98-95-3	2	µg/L	<2	10 µg/L	89.2	62.8	116	
EP075: Isophorone	78-59-1	2	µg/L	<2	10 µg/L	91.2	62.8	118	
EP075: 2,6-Dinitrotoluene	606-20-2	4	µg/L	<4	10 µg/L	91.2	59.4	135	
EP075: 2,4-Dinitrotoluene	121-14-2	4	µg/L	<4	10 µg/L	83.4	34.5	136	



Sub-Matrix: WATER

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report				
				Result	Spike Concentration	Spike Recovery (%)		Acceptable Limits (%)	
						LCS	Low	High	
EP075E: Nitroaromatics and Ketones (QCLot: 5676628) - continued									
EP075: 1-Naphthylamine	134-32-7	2	µg/L	<2	10 µg/L	67.0	40.3	130	
EP075: 4-Nitroquinoline-N-oxide	56-57-5	2	µg/L	<2	10 µg/L	94.4	39.0	140	
EP075: 5-Nitro-o-toluidine	99-55-8	2	µg/L	<2	10 µg/L	80.5	40.3	120	
EP075: Azobenzene	103-33-3	2	µg/L	<2	10 µg/L	88.3	59.9	113	
EP075: 1,3,5-Trinitrobenzene	99-35-4	2	µg/L	<2	10 µg/L	86.2	20.6	145	
EP075: Phenacetin	62-44-2	2	µg/L	<2	10 µg/L	67.2	49.0	107	
EP075: 4-Aminobiphenyl	92-67-1	2	µg/L	<2	10 µg/L	111	57.0	125	
EP075: Pentachloronitrobenzene	82-68-8	2	µg/L	<2	10 µg/L	95.4	56.5	121	
EP075: Pronamide	23950-58-5	2	µg/L	<2	10 µg/L	102	63.1	118	
EP075: Dimethylaminoazobenzene	60-11-7	2	µg/L	<2	10 µg/L	101	45.0	122	
EP075: Chlorobenzilate	510-15-6	2	µg/L	<2	10 µg/L	104	61.0	120	
EP075F: Haloethers (QCLot: 5676628)									
EP075: Bis(2-chloroethyl) ether	111-44-4	2	µg/L	<2	10 µg/L	89.1	58.3	119	
EP075: Bis(2-chloroethoxy) methane	111-91-1	2	µg/L	<2	10 µg/L	90.3	61.5	115	
EP075: 4-Chlorophenyl phenyl ether	7005-72-3	2	µg/L	<2	10 µg/L	89.3	51.7	122	
EP075: 4-Bromophenyl phenyl ether	101-55-3	2	µg/L	<2	10 µg/L	88.7	56.6	117	
EP075G: Chlorinated Hydrocarbons (QCLot: 5676628)									
EP075: 1,4-Dichlorobenzene	106-46-7	2	µg/L	<2	10 µg/L	78.8	36.0	118	
EP075: 1,3-Dichlorobenzene	541-73-1	2	µg/L	<2	10 µg/L	75.8	34.1	120	
EP075: 1,2-Dichlorobenzene	95-50-1	2	µg/L	<2	10 µg/L	79.3	37.6	119	
EP075: Hexachloroethane	67-72-1	2	µg/L	<2	10 µg/L	79.6	27.9	125	
EP075: 1,2,4-Trichlorobenzene	120-82-1	2	µg/L	<2	10 µg/L	82.9	42.6	118	
EP075: Hexachloropropylene	1888-71-7	2	µg/L	<2	10 µg/L	83.1	22.9	134	
EP075: Hexachlorobutadiene	87-68-3	2	µg/L	<2	10 µg/L	83.8	27.9	132	
EP075: Hexachlorocyclopentadiene	77-47-4	10	µg/L	<10	10 µg/L	62.8	27.0	111	
EP075: Pentachlorobenzene	608-93-5	2	µg/L	<2	10 µg/L	90.2	54.0	106	
EP075: Hexachlorobenzene (HCB)	118-74-1	4	µg/L	<4	10 µg/L	86.1	58.3	116	
EP075H: Anilines and Benzidines (QCLot: 5676628)									
EP075: Aniline	62-53-3	2	µg/L	<2	10 µg/L	75.1	45.0	112	
EP075: 4-Chloroaniline	106-47-8	2	µg/L	<2	10 µg/L	86.0	50.0	131	
EP075: 2-Nitroaniline	88-74-4	4	µg/L	<4	10 µg/L	83.3	46.5	141	
EP075: 3-Nitroaniline	99-09-2	4	µg/L	<4	10 µg/L	66.8	28.7	121	
EP075: Dibenzofuran	132-64-9	2	µg/L	<2	10 µg/L	88.8	57.4	108	
EP075: 4-Nitroaniline	100-01-6	2	µg/L	<2	10 µg/L	59.6	45.0	119	



Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report				
				Result	Spike Concentration	Spike Recovery (%)		Acceptable Limits (%)	
						LCS	Low	High	
EP075H: Anilines and Benzidines (QCLot: 5676628) - continued									
EP075: Carbazole	86-74-8	2	µg/L	<2	10 µg/L	100	58.4	122	
EP075: 3,3'-Dichlorobenzidine	91-94-1	2	µg/L	<2	10 µg/L	114	30.1	166	
EP075I: Organochlorine Pesticides (QCLot: 5676628)									
EP075: alpha-BHC	319-84-6	2	µg/L	<2	10 µg/L	89.1	55.7	123	
EP075: beta-BHC	319-85-7	2	µg/L	<2	10 µg/L	94.8	58.3	122	
EP075: gamma-BHC	58-89-9	2	µg/L	<2	10 µg/L	95.0	57.1	120	
EP075: delta-BHC	319-86-8	2	µg/L	<2	10 µg/L	103	57.0	122	
EP075: Heptachlor	76-44-8	2	µg/L	<2	10 µg/L	94.8	58.9	121	
EP075: Aldrin	309-00-2	2	µg/L	<2	10 µg/L	99.7	55.2	125	
EP075: Heptachlor epoxide	1024-57-3	2	µg/L	<2	10 µg/L	99.4	58.6	126	
EP075: alpha-Endosulfan	959-98-8	2	µg/L	<2	10 µg/L	107	55.6	126	
EP075: 4,4'-DDE	72-55-9	2	µg/L	<2	10 µg/L	104	60.0	124	
EP075: Dieldrin	60-57-1	2	µg/L	<2	10 µg/L	104	53.1	135	
EP075: Endrin	72-20-8	2	µg/L	<2	10 µg/L	91.3	51.4	129	
EP075: beta-Endosulfan	33213-65-9	2	µg/L	<2	10 µg/L	104	57.8	128	
EP075: 4,4'-DDD	72-54-8	2	µg/L	<2	10 µg/L	102	64.4	129	
EP075: Endosulfan sulfate	1031-07-8	2	µg/L	<2	10 µg/L	104	52.6	130	
EP075: 4,4'-DDT	50-29-3	4	µg/L	<4	10 µg/L	97.0	45.5	135	
EP075J: Organophosphorus Pesticides (QCLot: 5676628)									
EP075: Dichlorvos	62-73-7	2	µg/L	<2	10 µg/L	95.0	41.1	131	
EP075: Dimethoate	60-51-5	2	µg/L	<2	10 µg/L	74.7	52.0	108	
EP075: Diazinon	333-41-5	2	µg/L	<2	10 µg/L	98.8	51.6	127	
EP075: Chlorpyrifos-methyl	5598-13-0	2	µg/L	<2	10 µg/L	99.8	55.7	123	
EP075: Malathion	121-75-5	2	µg/L	<2	10 µg/L	104	59.0	115	
EP075: Fenthion	55-38-9	2	µg/L	<2	10 µg/L	102	53.6	128	
EP075: Chlorpyrifos	2921-88-2	2	µg/L	<2	10 µg/L	97.2	55.7	123	
EP075: Pirimphos-ethyl	23505-41-1	2	µg/L	<2	10 µg/L	101	57.2	120	
EP075: Chlorfenvinphos	470-90-6	2	µg/L	<2	10 µg/L	102	54.0	118	
EP075: Prothiofos	34643-46-4	2	µg/L	<2	10 µg/L	98.5	56.6	124	
EP075: Ethion	563-12-2	2	µg/L	<2	10 µg/L	104	48.0	134	
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5673899)									
EP080: C6 - C9 Fraction	----	20	µg/L	<20	180 µg/L	101	77.0	122	
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5673899)									
EP080: C6 - C10 Fraction	C6_C10	20	µg/L	<20	225 µg/L	99.9	76.0	121	



Sub-Matrix: **WATER**

				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	Spike Recovery (%) LCS	Acceptable Limits (%) Low High	
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5673899) - continued								
EP080: C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	20	µg/L	<20	----	----	----	----
EP080: BTEXN (QCLot: 5673899)								
EP080: Benzene	71-43-2	1	µg/L	<1	10 µg/L	94.6	79.8	115
EP080: Toluene	108-88-3	2	µg/L	<2	10 µg/L	93.0	78.6	116
EP080: Ethylbenzene	100-41-4	2	µg/L	<2	10 µg/L	95.3	77.3	115
EP080: meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	20 µg/L	98.8	82.0	118
EP080: ortho-Xylene	95-47-6	2	µg/L	<2	10 µg/L	97.6	86.0	119
EP080: Total Xylenes	----	2	µg/L	<2	----	----	----	----
EP080: Sum of BTEX	----	1	µg/L	<1	----	----	----	----
EP080: Naphthalene	91-20-3	5	µg/L	<5	10 µg/L	96.3	77.8	116
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 5682208)								
EP231X-LL: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.002	µg/L	<0.002	0.025 µg/L	79.0	72.0	130
EP231X-LL: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.002	µg/L	<0.002	0.025 µg/L	86.1	68.0	131
EP231X-LL: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.002	µg/L	<0.002	0.025 µg/L	93.6	65.0	140
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 5682208)								
EP231X-LL: Perfluorobutanoic acid (PFBA)	375-22-4	0.01	µg/L	<0.01	0.125 µg/L	84.0	73.0	129
EP231X-LL: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.002	µg/L	<0.002	0.025 µg/L	84.6	72.0	129
EP231X-LL: Perfluorohexanoic acid (PFHxA)	307-24-4	0.002	µg/L	<0.002	0.025 µg/L	94.6	72.0	129
EP231X-LL: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.002	µg/L	<0.002	0.025 µg/L	90.5	72.0	130
EP231X-LL: Perfluorooctanoic acid (PFOA)	335-67-1	0.002	µg/L	<0.002	0.025 µg/L	84.2	71.0	133
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5682208)								
EP231X-LL: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.005	µg/L	<0.005	0.025 µg/L	102	63.0	143
EP231X-LL: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.005	µg/L	<0.005	0.025 µg/L	103	64.0	140
EP231X-LL: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.005	µg/L	<0.005	0.025 µg/L	97.2	67.0	138
EP231X-LL: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.005	µg/L	<0.005	0.025 µg/L	115	75.2	137

Matrix Spike (MS) Report

The quality control term Matrix Spike (MS) refers to an intralaboratory split sample spiked with a representative set of target analytes. The purpose of this QC parameter is to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQOs). Ideal recovery ranges stated may be waived in the event of sample matrix interference.

Sub-Matrix: **WATER**

				Matrix Spike (MS) Report			
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Spike Concentration	SpikeRecovery(%) MS	Acceptable Limits (%) Low High	



Sub-Matrix: WATER

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EG035F: Dissolved Mercury by FIMS (QCLot: 5673708)							
EB2409053-002	MB2-1	EG035F-LL: Mercury	7439-97-6	0.002 mg/L	89.6	70.0	130
EG094F: Dissolved Metals in Fresh Water by ORC-ICPMS (QCLot: 5671709)							
EB2409053-002	MB2-1	EG094A-F: Arsenic	7440-38-2	500 µg/L	114	70.0	130
		EG094A-F: Cadmium	7440-43-9	125 µg/L	115	70.0	130
		EG094A-F: Chromium	7440-47-3	500 µg/L	124	70.0	130
		EG094A-F: Copper	7440-50-8	500 µg/L	117	70.0	130
		EG094A-F: Lead	7439-92-1	500 µg/L	107	70.0	130
		EG094A-F: Nickel	7440-02-0	500 µg/L	118	70.0	130
		EG094A-F: Zinc	7440-66-6	500 µg/L	119	70.0	130
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5673899)							
EB2409053-002	MB2-1	EP080: C6 - C9 Fraction	----	40 µg/L	83.9	70.0	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5673899)							
EB2409053-002	MB2-1	EP080: C6 - C10 Fraction	C6_C10	40 µg/L	82.9	70.0	130
EP080: BTEXN (QCLot: 5673899)							
EB2409053-002	MB2-1	EP080: Benzene	71-43-2	10 µg/L	85.3	70.0	130
		EP080: Toluene	108-88-3	10 µg/L	82.8	70.0	130
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 5682208)							
EB2408766-002	Anonymous	EP231X-LL: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.025 µg/L	104	72.0	130
		EP231X-LL: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.025 µg/L	75.2	68.0	131
		EP231X-LL: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.025 µg/L	83.9	65.0	140
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 5682208)							
EB2408766-002	Anonymous	EP231X-LL: Perfluorobutanoic acid (PFBA)	375-22-4	0.125 µg/L	84.5	73.0	129
		EP231X-LL: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.025 µg/L	85.5	72.0	129
		EP231X-LL: Perfluorohexanoic acid (PFHxA)	307-24-4	0.025 µg/L	89.4	72.0	129
		EP231X-LL: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.025 µg/L	100	72.0	130
		EP231X-LL: Perfluorooctanoic acid (PFOA)	335-67-1	0.025 µg/L	84.0	71.0	133
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5682208)							
EB2408766-002	Anonymous	EP231X-LL: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.025 µg/L	102	63.0	143
		EP231X-LL: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.025 µg/L	121	64.0	140
		EP231X-LL: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.025 µg/L	84.7	67.0	138
		EP231X-LL: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.025 µg/L	86.2	75.2	137



QA/QC Compliance Assessment to assist with Quality Review

Work Order	: EB2409053	Page	: 1 of 9
Client	: ENVIRONMENTAL ADVISORS	Laboratory	: Environmental Division Brisbane
Contact	: ANDREW WINTERS	Telephone	: +61 7 3243 7222
Project	: 125 NSC LAKE McDONALD DVE, COOROY	Date Samples Received	: 18-Mar-2024
Site	: ----	Issue Date	: 26-Mar-2024
Sampler	: ANDREW WINTERS	No. of samples received	: 5
Order number	: ----	No. of samples analysed	: 5

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.
- For all regular sample matrices, **NO** surrogate recovery outliers occur.

Outliers : Analysis Holding Time Compliance

- **NO** Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- 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							
EP075D: Nitrosamines	QC-5676628-002	----	Methapyrilene	91-80-5	101 %	0-90.7%	Recovery greater than upper control limit

Outliers : Frequency of Quality Control Samples

Matrix: **WATER**

Quality Control Sample Type	Analytical Methods	Method	Count		Rate (%)		Quality Control Specification
			QC	Regular	Actual	Expected	
Laboratory Duplicates (DUP)							
PAH/Phenols (GC/MS - SIM)		EP075(SIM)	0	16	0.00	10.00	NEPM 2013 B3 & ALS QC Standard
Semivolatile Organic Compounds		EP075	0	4	0.00	10.00	NEPM 2013 B3 & ALS QC Standard
TRH - Total Recoverable Hydrocarbons - Silica Gel Cleanup		EP071SG	0	5	0.00	10.00	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
PAH/Phenols (GC/MS - SIM)		EP075(SIM)	0	16	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
TRH - Total Recoverable Hydrocarbons - Silica Gel Cleanup		EP071SG	0	5	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	Sample Date	Extraction / Preparation			Analysis			
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation	
EA015: Total Dissolved Solids dried at 180 ± 5 °C								
Clear Plastic Bottle - Natural (EA015H)								
MB1-1, MB4-1,	MB2-1, D1	14-Mar-2024	----	----	----	21-Mar-2024	21-Mar-2024	✓
EG035F: Dissolved Mercury by FIMS								
Clear Plastic Bottle - Nitric Acid; Filtered (EG035F-LL)								
MB1-1, MB4-1,	MB2-1, D1	14-Mar-2024	----	----	----	20-Mar-2024	11-Apr-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
EG094F: Dissolved Metals in Fresh Water by ORC-ICPMS							
Clear Plastic Bottle - Nitric Acid; Filtered (EG094A-F) MB1-1, MB2-1, MB4-1, D1	14-Mar-2024	----	----	----	25-Mar-2024	10-Sep-2024	✓
EP071 SG: Total Petroleum Hydrocarbons - Silica gel cleanup							
Amber Glass Bottle - Unpreserved (EP071SG) MB1-1, MB2-1, MB4-1, D1	14-Mar-2024	21-Mar-2024	21-Mar-2024	✓	23-Mar-2024	30-Apr-2024	✓
EP071 SG: Total Recoverable Hydrocarbons - NEPM 2013 Fractions - Silica gel cleanup							
Amber Glass Bottle - Unpreserved (EP071SG) MB1-1, MB2-1, MB4-1, D1	14-Mar-2024	21-Mar-2024	21-Mar-2024	✓	23-Mar-2024	30-Apr-2024	✓
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons							
Amber Glass Bottle - Unpreserved (EP075(SIM)) MB1-1, MB2-1, MB4-1, D1	14-Mar-2024	21-Mar-2024	21-Mar-2024	✓	23-Mar-2024	30-Apr-2024	✓
EP075A: Phenolic Compounds							
Amber Glass Bottle - Unpreserved (EP075) MB1-1, MB2-1, MB4-1, D1	14-Mar-2024	21-Mar-2024	21-Mar-2024	✓	22-Mar-2024	30-Apr-2024	✓
EP075B: Polynuclear Aromatic Hydrocarbons							
Amber Glass Bottle - Unpreserved (EP075) MB1-1, MB2-1, MB4-1, D1	14-Mar-2024	21-Mar-2024	21-Mar-2024	✓	22-Mar-2024	30-Apr-2024	✓
EP075C: Phthalate Esters							
Amber Glass Bottle - Unpreserved (EP075) MB1-1, MB2-1, MB4-1, D1	14-Mar-2024	21-Mar-2024	21-Mar-2024	✓	22-Mar-2024	30-Apr-2024	✓
EP075D: Nitrosamines							
Amber Glass Bottle - Unpreserved (EP075) MB1-1, MB2-1, MB4-1, D1	14-Mar-2024	21-Mar-2024	21-Mar-2024	✓	22-Mar-2024	30-Apr-2024	✓
EP075E: Nitroaromatics and Ketones							
Amber Glass Bottle - Unpreserved (EP075) MB1-1, MB2-1, MB4-1, D1	14-Mar-2024	21-Mar-2024	21-Mar-2024	✓	22-Mar-2024	30-Apr-2024	✓
EP075F: Haloethers							
Amber Glass Bottle - Unpreserved (EP075) MB1-1, MB2-1, MB4-1, D1	14-Mar-2024	21-Mar-2024	21-Mar-2024	✓	22-Mar-2024	30-Apr-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
EP075G: Chlorinated Hydrocarbons							
Amber Glass Bottle - Unpreserved (EP075) MB1-1, MB2-1, MB4-1, D1	14-Mar-2024	21-Mar-2024	21-Mar-2024	✓	22-Mar-2024	30-Apr-2024	✓
EP075H: Anilines and Benzidines							
Amber Glass Bottle - Unpreserved (EP075) MB1-1, MB2-1, MB4-1, D1	14-Mar-2024	21-Mar-2024	21-Mar-2024	✓	22-Mar-2024	30-Apr-2024	✓
EP075I: Organochlorine Pesticides							
Amber Glass Bottle - Unpreserved (EP075) MB1-1, MB2-1, MB4-1, D1	14-Mar-2024	21-Mar-2024	21-Mar-2024	✓	22-Mar-2024	30-Apr-2024	✓
EP075J: Organophosphorus Pesticides							
Amber Glass Bottle - Unpreserved (EP075) MB1-1, MB2-1, MB4-1, D1	14-Mar-2024	21-Mar-2024	21-Mar-2024	✓	22-Mar-2024	30-Apr-2024	✓
EP080/071: Total Petroleum Hydrocarbons							
Amber VOC Vial - Sulfuric Acid (EP080) MB1-1, MB2-1, MB4-1, D1, 220817	14-Mar-2024	21-Mar-2024	28-Mar-2024	✓	21-Mar-2024	28-Mar-2024	✓
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions							
Amber VOC Vial - Sulfuric Acid (EP080) MB1-1, MB2-1, MB4-1, D1, 220817	14-Mar-2024	21-Mar-2024	28-Mar-2024	✓	21-Mar-2024	28-Mar-2024	✓
EP080: BTEXN							
Amber VOC Vial - Sulfuric Acid (EP080) MB1-1, MB2-1, MB4-1, D1, 220817	14-Mar-2024	21-Mar-2024	28-Mar-2024	✓	21-Mar-2024	28-Mar-2024	✓
EP231A: Perfluoroalkyl Sulfonic Acids							
HDPE (no PTFE) (EP231X-LL) MB1-1, MB2-1, MB4-1, D1	14-Mar-2024	25-Mar-2024	10-Sep-2024	✓	26-Mar-2024	10-Sep-2024	✓
EP231B: Perfluoroalkyl Carboxylic Acids							
HDPE (no PTFE) (EP231X-LL) MB1-1, MB2-1, MB4-1, D1	14-Mar-2024	25-Mar-2024	10-Sep-2024	✓	26-Mar-2024	10-Sep-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
EP231D: (n:2) Fluorotelomer Sulfonic Acids							
HDPE (no PTFE) (EP231X-LL) MB1-1, MB4-1, MB2-1, D1	14-Mar-2024	25-Mar-2024	10-Sep-2024	✓	26-Mar-2024	10-Sep-2024	✓
EP231P: PFAS Sums							
HDPE (no PTFE) (EP231X-LL) MB1-1, MB4-1, MB2-1, D1	14-Mar-2024	25-Mar-2024	10-Sep-2024	✓	26-Mar-2024	10-Sep-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	Method	Count		Rate (%)			Quality Control Specification
		QC	Reaular	Actual	Expected	Evaluation	
Analytical Methods							
Laboratory Duplicates (DUP)							
Dissolved Mercury by FIMS - Low Level	EG035F-LL	1	4	25.00	10.00	✔	NEPM 2013 B3 & ALS QC Standard
Dissolved Metals in Fresh Water -Suite A by ORC-ICPMS	EG094A-F	1	4	25.00	10.00	✔	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (GC/MS - SIM)	EP075(SIM)	0	16	0.00	10.00	✘	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS by LCMSMS)	EP231X-LL	2	19	10.53	10.00	✔	NEPM 2013 B3 & ALS QC Standard
Semivolatile Organic Compounds	EP075	0	4	0.00	10.00	✘	NEPM 2013 B3 & ALS QC Standard
Total Dissolved Solids (High Level)	EA015H	2	20	10.00	10.00	✔	NEPM 2013 B3 & ALS QC Standard
TRH - Total Recoverable Hydrocarbons - Silica Gel Cleanup	EP071SG	0	5	0.00	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)							
Dissolved Mercury by FIMS - Low Level	EG035F-LL	1	4	25.00	5.00	✔	NEPM 2013 B3 & ALS QC Standard
Dissolved Metals in Fresh Water -Suite A by ORC-ICPMS	EG094A-F	1	4	25.00	5.00	✔	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (GC/MS - SIM)	EP075(SIM)	1	16	6.25	5.00	✔	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS by LCMSMS)	EP231X-LL	1	19	5.26	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 Dissolved Solids (High Level)	EA015H	3	20	15.00	15.00	✔	NEPM 2013 B3 & ALS QC Standard
TRH - Total Recoverable Hydrocarbons - Silica Gel Cleanup	EP071SG	1	5	20.00	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)							
Dissolved Mercury by FIMS - Low Level	EG035F-LL	1	4	25.00	5.00	✔	NEPM 2013 B3 & ALS QC Standard
Dissolved Metals in Fresh Water -Suite A by ORC-ICPMS	EG094A-F	1	4	25.00	5.00	✔	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (GC/MS - SIM)	EP075(SIM)	1	16	6.25	5.00	✔	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS by LCMSMS)	EP231X-LL	1	19	5.26	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 Dissolved Solids (High Level)	EA015H	1	20	5.00	5.00	✔	NEPM 2013 B3 & ALS QC Standard
TRH - Total Recoverable Hydrocarbons - Silica Gel Cleanup	EP071SG	1	5	20.00	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)							
Dissolved Mercury by FIMS - Low Level	EG035F-LL	1	4	25.00	5.00	✔	NEPM 2013 B3 & ALS QC Standard
Dissolved Metals in Fresh Water -Suite A by ORC-ICPMS	EG094A-F	1	4	25.00	5.00	✔	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (GC/MS - SIM)	EP075(SIM)	0	16	0.00	5.00	✘	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS by LCMSMS)	EP231X-LL	1	19	5.26	5.00	✔	NEPM 2013 B3 & ALS QC Standard
Semivolatile Organic Compounds	EP075	0	4	0.00	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	Method	Count		Rate (%)			Quality Control Specification
		QC	Regular	Actual	Expected	Evaluation	
Matrix Spikes (MS) - Continued							
TRH - Total Recoverable Hydrocarbons - Silica Gel Cleanup	EP071SG	0	5	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
Total Dissolved Solids (High Level)	EA015H	WATER	In house: Referenced to APHA 2540C. A gravimetric procedure that determines the amount of 'filterable' residue in an aqueous sample. A well-mixed sample is filtered through a glass fibre filter (1.2um). The filtrate is evaporated to dryness and dried to constant weight at 180+/-5C. This method is compliant with NEPM Schedule B(3)
Dissolved Mercury by FIMS - Low Level	EG035F-LL	WATER	In house: Referenced to APHA 3112 Hg - B (Flow-injection (SnCl ₂)(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 SnCl ₂ 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).
Dissolved Metals in Fresh Water -Suite A by ORC-ICPMS	EG094A-F	WATER	In house: Referenced to APHA 3125; USEPA SW846 - 6020 Samples are 0.45µm filtered prior to analysis. The ORC-ICPMS technique removes interfering species through a series of chemical reactions prior to ion detection. Ions are passed into a high vacuum mass spectrometer, which separates the analytes based on their distinct mass to charge ratios prior to measurement by a discrete dynode ion detector. This method is compliant with NEPM Schedule B(3).
TRH - Total Recoverable Hydrocarbons - Silica Gel Cleanup	EP071SG	WATER	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 - C36. This method is compliant with 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)
Per- and Polyfluoroalkyl Substances (PFAS by LCMSMS)	EP231X-LL	WATER	In-house: Analysis of fresh and saline waters by Solid Phase Extraction (SPE) followed by LC-Electrospray-MS-MS, Negative Mode using MRM and internal standard quantitation. Isotopically labelled analogues of target analytes used as internal standards and surrogates are added to the sample container. The entire contents are transferred to a solid phase extraction (SPE) cartridge. The sample container is successively rinsed with aliquots of the elution solvent. The eluted extract is concentrated, combined with an equal volume of reagent water and filtered for analysis. Method procedures and data quality objectives conform to US DoD QSM 5.4, table B-15 requirements.



<i>Preparation Methods</i>	<i>Method</i>	<i>Matrix</i>	<i>Method Descriptions</i>
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.
Solid Phase Extraction (SPE) for PFAS in water	ORG72	WATER	In-house: Isotopically labelled analogues of target analytes used as internal standards and surrogates are added to the sample container. The entire contents are transferred to a solid phase extraction (SPE) cartridge. The sample container is successively rinsed with aliquots of the elution solvent. The eluted extract is combined with an equal volume of reagent water and a portion is filtered for analysis. Method procedures conform to US DoD QSM 5.3, table B-15 requirements.



Appendix I

Quality Assurance and Quality Control



11. QUALITY ASSURANCE AND QUALITY CONTROL

Environmental Advisors Pty Ltd implemented a quality control program for the assessment, with quality assurance elements including:

- Using qualified and experienced personnel to conduct the field investigation.
- Compliance with any Site-specific project plans.
- Using a NATA registered laboratory (primary and secondary) for sample analysis.
- Despatching samples using appropriate chain of custody procedures.
- Referring to procedures for soil sampling, field testing and decontamination within:
 - National Environment Protection Council (NEPC), 1999, as amended 2013. *National Environment Protection (Assessment of Site Contamination) Measure* (NEPM).
 - Standards Australia, Guide to the sampling and investigation of potentially contaminated soil. AS4482.1 – 2005.
 - Queensland Government 2018. Queensland Auditor Handbook for Contaminated Land Module 6: Content requirements for contaminated land investigation documents, certifications and audit reports (ESR/2018/4224) (**Module 6**).

11.1 DATA QUALITY OBJECTIVES

Data quality objectives are presented in Table QA1.

Table QA1 DATA QUALITY OBJECTIVES

Item	Detail
Documentation	Completion of field sheets and laboratory chain of custody documentation. Reporting using standard measurements and nomenclatures.
Completeness	Selection and analysis of contaminants of environmental concern based upon Site history information and field observations, subject to assessment limitations. Along with the representativeness of collected data, as a limited Site assessment a more detailed assessment may be required to address the data gap of potential or actual contamination.
Comparability	Consistency of field sampling techniques and use of a NATA certified laboratory utilising traceable USEPA and APHA methods, or similar.
Representativeness	Samples collected using a systematic approach with targeted sampling within Areas of Environmental Concern (AEC) to provide the accuracy required for the agreed scope.
Precision	Calculation of Relative Percentage Difference (RPD) for field duplicate sets to assess reproducibility of data against criteria and allow comment on validity.
Accuracy	Data accuracy is achieved through minimising bias effects on samples collected and analysed, such as from cross contamination, incorrect preservation or laboratory techniques. Measures of accuracy include following correct sampling and transport procedures, absence of detectable contamination in field blanks, and use of laboratory quality control samples such as surrogates.



11.2 DATA QUALITY SUMMARY

A summary of data quality is presented in Table QA2.

Table QA2 DATA QUALITY SUMMARY

Item	Detail	Refer to Report and
Suitably Qualified Person	Andrew Winters	-
Primary Laboratory	ALS Pty Ltd (Brisbane)	Appendix H
Secondary Laboratory	ALS Pty Ltd (Sydney or Melbourne)	Appendix H
Documentation	Chain of Custody Documentation	Appendix H
Completeness	Areas and Chemicals of Environmental Concern	Section 4 Areas and Chemicals of Environmental Concern
Comparability	Standard field procedures and NATA laboratory analysis	Section 6 Sampling, Analysis and Quality Plan, Appendix H
Representativeness	Investigation and sampling strategy	Section 6
Sample Holding Times	Acceptable	Appendix H and below
Accuracy - Blank	Acceptable	Appendix H and below
Precision - Duplicates	Acceptable	Appendix H and below
Laboratory QA	Acceptable	Appendix H and below

11.3 LABORATORY PROCEDURES

HOLDING TIMES

Sample extraction commenced within recommended holding times from date of collection.

LABORATORY QA/QC

Laboratory QA/QC was undertaken and is considered acceptable. Routine quality control procedures were conducted during every analytical run and was achieved by the following means:

- Matrix spikes - samples were spiked by the laboratory with a known concentration of analytes and then tested for percent recovery to monitor matrix effects on analyte recovery.
- Surrogates – known quantities of similar compounds to the target analytes are added to samples to monitor potential analyte loss at any stage of laboratory analysis.
- Laboratory duplicates – a randomly selected sample is split and then analysed with the samples forming the analytical run.
- Method/laboratory blanks – use of reagent blanks to monitor potential contamination of equipment and standards being used.



11.4 FIELD PROCEDURES

SAMPLING

Samples were collected directly from the sides of each test pit. Nitrile gloves were changed for each sample collected. Groundwater samples were collected using dedicated disposable bailers.

Samples were taken by hand and placed directly into laboratory supplied containers appropriate for the analysis. No composite sampling was undertaken.

A fresh set of nitrile gloves were used at each sampling point, with the sampling trowel cleaned between sampling locations, where used.

TRAVEL/FIELD BLANK

A field blank sample is a solution or appropriate media that is as free as possible of analytes of interest. The field blank is packaged similarly to the samples being collected, and accompanies the field samples throughout sampling, transport and laboratory analysis to monitor potential for false positives from introduced contamination.

Soil trip blanks 051332, 020930, 011745 and 011747 were used as part of the current assessment and analysed for TRH(C₆-C₉) and BTEXN with 020930 further analysed for PFAS, which were not detected.

Groundwater trip blank 220817 was analysed for TRH(C₆-C₉) and BTEXN which were not detected.

RINSATE

A rinsate sample is a solution that is as free as possible of analytes of interest, used to rinse decontaminated reusable field equipment. Exposed rinsate is collected after contact with the decontaminated sampling equipment and analysed to monitor potential for false positives from residual contamination. Due to limited use of reusable sampling equipment, a rinsate sample was not collected.

DOCUMENTATION

Field QC included sample transportation under Chain of Custody procedures. Completed Chain of Custody documentation and Sample Receipt Advice forms, certifying the condition of the samples upon arrival at the contract laboratory, are attached with the ALS and Envirolab laboratory reports.

STORAGE AND TRANSPORT

Samples were collected into laboratory supplied containers appropriate for the matrix and the proposed analysis and stored in ice-cooled and insulated containers. Sample integrity was maintained by using sealed glass jars (soil samples) plastic bags (asbestos testing only) or dedicated glass or plastic water sample containers.

FIELD DUPLICATES

A field duplicate is a single sample that is split into two sample containers with both separately analysed by the primary or secondary laboratory (with unrelated sample labelling), providing a measure of analytical precision. The results of both samples are then assessed by comparing the Relative Percentage Difference (RPD) of each analyte, noting that the RPD may also be influenced by sample heterogeneity and sampling procedures.

$$\text{Relative Percentage Difference (RPD)} = \frac{V_1 - V_2}{\left(\frac{V_1 + V_2}{2}\right)} \times 100$$

The generally adopted RPD criteria is $\pm 30\%$ RPD for field duplicates for inorganics and $\pm 50\%$ RPD for field duplicates for organics.



Table QA3 details RPD's for the DSI, noting that it omits some of the inorganic analyses for some analyte grouping where the duplicate or triplicate sets results were LOR, meaning an acceptable RPD.

Table QA3 DSI FIELD DUPLICATES/TRIPPLICATES RELATIVE PERCENTAGE DIFFERENCES

	As	Cd	Cr	Cu	Pb	Ni	Zn	Hg	TRH c10-c16	TRH c16-c34	BTEXN	PFAS	DDT	PAH/PCB	SVOC
TP12-0.1<5	<1	38	<5	6	3	<5	<0.1	<50	<100	<0.2	<0.001	<0.2	<0.5	<0.5	
D1	<5	39	<5	7	4	<5	<0.1	<50	<100	<0.2	<0.001	<0.2	<0.5	<0.5	
RPD	0	0	3	0	15	29	0	0	0	0	0	0	0	0	
TP12-0.1<5	<1	38	<5	6	3	<5	<0.1	<50	<100	<0.2	<0.001	<0.2	<0.5	<0.5	
ST1	<5	15	<5	7	<2	16	<0.1	<50	<100	<0.2	<0.001	<0.2	<0.5	<0.5	
RPD	0	0	87	0	15	100	146	0	0	0	0	0	0	0	
TP20-2.8<5	<1	17	<5	<5	<2	13	<0.1	<50	<100	<0.2	<0.001	<0.2	<0.5	<0.5	
D2	<5	10	<5	<5	<2	9	<0.1	<50	<100	<0.2	<0.001	<0.2	<0.5	<0.5	
RPD	0	0	52	0	0	0	36	0	0	0	0	0	0	0	
TP22-0.5<5	<1	32	<5	6	2	<5	<0.1	<50	<100	<0.2	<0.001	<0.2	<0.5	<0.5	
D3	<5	31	<5	7	2	<5	<0.1	<50	<100	<0.2	<0.001	<0.2	<0.5	<0.5	
RPD	0	0	3	0	15	0	0	0	0	0	0	0	0	0	
TP22-0.5<5	<1	32	<5	6	2	<5	<0.1	<50	<100	<0.2	<0.001	<0.2	<0.5	<0.5	
ST2	<5	22	<5	10	<2	16	0.1	<50	<100	<0.2	<0.001	<0.2	<0.5	<0.5	
RPD	0	0	37	0	50	67	146	67	0	0	0	0	0	0	
TP34-0.5<5	<1	7	<5	<5	<2	<5	<0.1	<50	<100	<0.2	<0.001	<0.2	<0.5	<0.5	
D4	<5	10	<5	<5	<2	<5	<0.1	<50	<100	<0.2	<0.001	<0.2	<0.5	<0.5	
RPD	0	0	35	0	0	0	0	0	0	0	0	0	0	0	
TP35-0.1<5	<1	7	<5	<5	<2	<5	<0.1	<50	<100	<0.2	<0.001	<0.2	<0.5	<0.5	
D5	<5	<2	<5	<5	<2	<5	<0.1	<50	<100	<0.2	<0.001	<0.2	<0.5	<0.5	
RPD	0	0	150	0	0	0	0	0	0	0	0	0	0	0	
TP35-0.1<5	<1	7	<5	<5	<2	<5	<0.1	<50	<100	<0.2	<0.001	<0.2	<0.5	<0.5	
ST3	<5	12	8	12	<2	19	0.3	<50	<100	<0.2	<0.001	<0.2	<0.5	<0.5	
RPD	0	0	53	105	131	0	153	143	0	0	0	0	0	0	
TP42-0.2<5	<1	14	<5	20	<2	149	<0.1	<50	<100	<0.2	<0.001	1	<0.5	<0.5	
D8	<5	12	<5	13	<2	96	<0.1	<50	<100	<0.2	<0.001	1	<0.5	<0.5	
RPD	0	0	15	0	0	0	43	0	0	0	0	0	0	0	
TP42-0.2<5	<1	14	<5	20	<2	149	<0.1	<50	<100	<0.2	<0.001	1	<0.5	<0.5	
ST5	<5	9	<5	6	<2	20	<0.1	<50	<100	<0.2	<0.001	1	<0.5	<0.5	
RPD	0	0	43	0	108	0	153	0	0	0	0	0	0	0	
TP43-0.3<5	<1	8	<5	12	<2	31	<0.1	<50	<100	<0.2	<0.001	<0.2	<0.5	<0.5	
D6	<5	8	<5	15	<2	40	<0.1	<50	<100	<0.2	<0.001	<0.2	<0.5	<0.5	
RPD	0	0	0	0	22	0	25	0	0	0	0	0	0	0	
TP43-0.3<5	<1	8	<5	12	<2	31	<0.1	<50	<100	<0.2	<0.001	<0.2	<0.5	<0.5	
ST4	<5	14	<5	9	<2	18	0.1	<50	<100	<0.2	<0.001	<0.2	<0.5	<0.5	
RPD	0	0	55	0	29	0	53	67	0	0	0	0	0	0	
TP51-1.4<5	<1	8	<5	6	<2	<5	<0.1	<50	<100	<0.2	<0.001	<0.2	<0.5	<0.5	
D10	10	<1	22	<5	9	<2	<5	<0.1	<50	<100	<0.2	<0.001	<0.2	<0.5	
RPD	120	0	93	0	40	0	0	0	0	0	0	0	0	0	
TP53-0.5<5	<1	14	<5	5	<2	<5	<0.1	<50	<100	<0.2	<0.001	<0.2	<0.5	<0.5	
D9	<5	20	<5	7	<2	<5	<0.1	<50	<100	<0.2	<0.001	<0.2	<0.5	<0.5	
RPD	0	0	35	0	33	0	0	0	0	0	0	0	0	0	
TP59-0.2<5	<1	24	<5	12	<2	<5	<0.1	<50	<100	<0.2	<0.001	<0.2	<0.5	<0.5	
D7	<5	33	12	12	<2	14	<0.1	<50	<100	<0.2	<0.001	<0.2	<0.5	<0.5	
RPD	0	0	32	131	0	0	139	0	0	0	0	0	0	0	
TP60-0.5<5	<1	30	<5	<5	<2	<5	<0.1	80	140	<0.2	<0.001	<0.2	<0.5	<0.5	
D11	<5	35	<5	5	<2	<5	<0.1	<50	<100	<0.2	<0.001	<0.2	<0.5	<0.5	
RPD	0	0	15	0	67	0	0	0	105	95	0	0	0	0	
TP61-0.1<5	<1	8	<5	7	<2	<5	<0.1	<50	<100	<0.2	<0.001	<0.2	<0.5	<0.5	
D13	<5	8	<5	9	<2	<5	<0.1	<50	<100	<0.2	<0.001	<0.2	<0.5	<0.5	
RPD	0	0	0	0	25	0	0	0	0	0	0	0	0	0	
TP65-0.1<5	<1	16	<5	15	<2	<5	<0.1	<50	<100	<0.2	<0.001	<0.2	<0.5	<0.5	
D12	<5	21	<5	18	<2	<5	<0.1	<50	<100	<0.2	<0.001	<0.2	<0.5	<0.5	
RPD	0	0	27	0	18	0	0	0	0	0	0	0	0	0	
TP72-0.1<5	<1	5	<5	8	<2	25	<0.1	<50	<100	<0.2	<0.001	<0.2	<0.5	<0.5	
0705D	<5	14	<5	8	<2	22	<0.1	<50	<100	<0.2	<0.001	<0.2	<0.5	<0.5	
RPD	0	0	95	0	0	0	13	0	0	0	0	0	0	0	

In addition to the above, the following four duplicate sets were originally collected during the PSI:

- D1 - duplicate of TP4-0.1 – analysed for heavy metals, and
- D2 - duplicate of TP7-0.1 – analysed for TRH/BTEXN and heavy metals.



As all organic BTEXN analysis results were less than the laboratory Limit Of Reporting (LOR) this duplicate set is considered to have an RPD of 0 and therefore acceptable.

Calculation of RPD's for the above two PSI duplicate sets with heavy metals and TRH analysis are tabulated below.

Table QA4 PSI FIELD DUPLICATES/TRIPPLICATES RELATIVE PERCENTAGE DIFFERENCES

Sample	Arsenic	Cadmium	Chromium	Copper	Lead	Nickel	Zinc	Mercury	TRH c6-c10	TRH c10-c16	TRH c16-c34	TRH c34-c40
Duplicate Samples												
D1	<5	<1	15	<5	8	<2	49	0.2	<10	<50	130	<100
TP4-0.1	<5	<1	16	<5	9	<2	51	0.2	<10	<50	<100	<100
RPD	0	0	6	0	12	0	4	0	0	0	26	0
D2	<5	1	9	<5	30	<2	238	<0.1	-	-	-	-
TP7-0.1	<5	2	11	<5	31	<2	250	<0.1	-	-	-	-
RPD	0	67	20	0	3	0	5	0	0	0	0	0

For the PSI one inorganic RPD exceeded the goal of <30% RPD, with all results below SAC and most at or near LOR. The elevated RPD is attributed to minor heterogeneity within the material sampled and is considered acceptable.

For the DSI, two inorganic RPD's exceeded the goal of <50% RPD, however, with one at LOR and the other near LOR this is considered acceptable.

Of the 152 inorganic duplicate or triplicate RPD's, 37 exceeded the goal of <30% RPD of which 14 (including the highest recorded RPD's) had one result at LOR and the other near LOR. The remaining results are attributed to the heterogeneity of the material sampled and are considered acceptable.

11.5 CONCLUSION

Based on the quality assurance measures and review undertaken, the quality of the analytical data produced is considered acceptable for interpretive use within this investigation report.



Appendix J
DESI Notifications

Notice

Environmental Protection Act 1994

Notifiable Activity

This template is for use by land owners, occupiers, auditors or local government authorities when giving written notice to the administering authority that a notifiable activity has been, or is being, carried out on land under section s.320A of the Environmental Protection Act 1994 (the EP Act).

Please complete all fields below. You can use this template to provide notification of multiple land parcels and/or multiple instances of a notifiable activity. Where this is the case, please clearly identify which land parcel or notifiable activity the information relates to.

GUIDE

Please ensure that all information is current and correct.

In some circumstances the duty to notify about a notifiable activity may arise for a number of different people.

In such circumstances a number of persons may comply with their individual duty to notify by jointly providing this notice.

Lot and plan details can be obtained from the land title certificate, rates notice or your local government (local council).

If you do not know the lot and plan, please provide sufficient information about the land to enable it to be identified.

1. Details of person(s) giving notice

- I am the **owner** of the land
- I am the **occupier** of the land (e.g. tenant)
- I am a representative of the **local government authority** for the land
- I am an **auditor** performing an auditor's function for the land
- A joint notification is being provided by more than 1 person, the details of each person are attached.

FULL NAME		TITLE
Mr. Larry Sengstock		CEO - Acting
COMPANY/ORGANISATION/LOCAL GOVERNMENT AUTHORITY		
Noosa Shire Council		
POSTAL ADDRESS		POSTCODE
PO Box 141 Tewantin		4565
PHONE	FAX	
07 5329 6500	NA	
EMAIL		
mail@noosa.qld.gov.au		

2. Details of land subject to the notification

STREET ADDRESS
62 Lake Macdonald Drive, Cooroy, Qld, 4563
LOCAL/PROPERTY NAME (IF APPLICABLE)

Notifiable Activity

This should be a map, aerial photograph or GPS coordinates (e.g. MGA-Easting/Northing or GDA-Latitude/Longitude) which illustrate the actual location of the notifiable activity and any potential contamination on the property.

Notifiable activities are listed in Schedule 3 of the EP Act.

Example

14 Engine reconditioning works—carrying out engine reconditioning work at a place where more than 500 litre (L) of any of the following are stored:

- (a) halogenated and non-halogenated hydrocarbon solvents
- (b) dangerous goods in class 6.1 under the dangerous goods code
- (c) industrial degreasing solutions.

Where relevant state the subtype(s), the actual volume being stored/used/manufactured/disposed etc and other specifics about the activity

More information about notifiable activities can be found on the Queensland Government website www.qld.gov.au

LOT ON PLAN
Lot 105 SP118458

LOCAL GOVERNMENT AUTHORITY
Noosa Shire Council

3. Map, locality plan or GPS coordinates

Provide a map, locality plan or GPS coordinates of the location of the notifiable activity

- Map attached
- Locality plan attached
- GPS coordinates provided below

-26.409455o
152.915879o

4. Details of notifiable activity

If providing notification of multiple notifiable activities, provide answers to each of the questions below for each notifiable activity. Additional information can be included as attachments.

- The details of multiple notifiable activities are attached.

State the number and subtype of the activity as listed in Schedule 3 of the *Environmental Protection Act 1994*

20 - Landfill - disposing of waste (excluding inert construction and demolition waste)

When did the notifiable activity commence?
Month:
Year: 1953

Is the notifiable activity still being carried out?
 Yes
 No

If no, when did the notifiable activity cease?
Month:
Year: 1967

Specific details of the notifiable activity (i.e. threshold amounts, type(s) of chemicals of dangerous goods being stored on the site)

Notifiable Activity

Wastes comprising nightsoil, large to small cement sheeting fragments containing asbestos, various scrap and waste metal items, bottles and fragments of glass and ceramics, and household and electronic components. Associated heavy metal soil concentrations above HIL-A criteria to a maximum recorded to date of copper (1,710mg/kg), zinc (2,500mg/kg), lead (1,960mg/kg), nickel (68mg/kg) and mercury (216mg/kg)

Actual volume(s) (where applicable)

Under investigation - area affected within the Lot is around 15,000m³

5. Evidence and supporting information

Examples of the types of evidence that could be provided include (but are not limited to):

- If any investigation of the nature and extent of contamination has been undertaken on the site, provide details of the method used, sampling results and any recommendations about the future management of the contamination. If a written report about the contamination is available, please provide a copy of the report and maps where available.
- Any licences or approvals issued relevant to the activity being notified, for example licence or approvals under the EP Act or the Flammable and Combustible Liquids Regulation 1994.
- Evidence of relevant notifiable activities that are being or have been carried out on the land, e.g. business documentation outlining the activities being undertaken on the site or photographs of industrial activities.
- The results of any compliance monitoring done in relation to notifiable activities or possible contamination of the site.

PROVIDE DETAILS OF EVIDENCE AND SUPPORTING INFORMATION INCLUDING TITLES OF ANY ATTACHMENTS

Investigation Report dated 30/5/23 by Environmental Advisors Pty Ltd

If you are not the landowner, provide the details of the owner of the property (if known).

6. Details of land owner


FULL NAME		TITLE
POSTAL ADDRESS		POSTCODE
PHONE	FAX	
EMAIL		

If a joint notification is being provided by more than one person a signed declaration by each person must be attached.

7. Declaration

I declare that:

- The information I have provided within this form is true and correct to the best of my knowledge.
- I understand that all information within or attached to this written notice may be disclosed publicly in accordance with the *Right to Information Act 2009* and the *Evidence Act 1977*.
- I understand that it is an offence under section 480 of the *Environmental Protection Act 1994* to give the administering authority a document containing information that I know is false, misleading or incomplete in a material particular.

NAME Larry Sengstock
SIGNATURE 
DATE 30/05/2023

Please submit this notice using one of the following methods:

Email: emr.clr.registry@des.qld.gov.au

The email subject line should state 'Written notice of a notifiable activity'.

The file size limit for submission via e-mail is 14MB. Any submission via email which exceeds 14 MB will need to be broken down into separate emails, with each email clearly Part X of X (e.g. Part 1 of 2), included in the subject line of the email.

Post to:

Permit and Licence Management

Department of Environment and Science
GPO Box 2454
BRISBANE QLD 4001

Privacy Statement

The Department of Environment and Science (DES) is assessing information provided on this form as notified under Section 320A of the *Environmental Protection Act 1994* to make a determination whether a site is to be listed on the Environmental Management Register (EMR). This register is publicly available. This information may be provided to other parties, including the owner of land, the local government authority and other government departments, under Chapter 7, Part 8 of the *Environmental Protection Act 1994* for the purposes of including land in a relevant land register. The information provided on this form will not otherwise be used or disclosed unless required or authorised by law. For queries about privacy matters email: privacy@des.qld.gov.au or telephone: 13 74 68.

Notification

Environmental Protection Act 1994

Duty to notify of environmental harm

This form is to be used for notifying the administering authority about matters listed in section 320A of the Environmental Protection Act 1994 (the EP Act), in accordance with the duty to notify provisions contained in sections 320 to 320G of the EP Act.. This form may also be used where a person is required to give written notice to owners or occupiers.

This form should be completed having regard to the guidance found in the Guideline: **The duty to notify of environmental harm**. This Guideline can be found by going to [Queensland Government \(www.qld.gov.au\)](http://www.qld.gov.au) and searching "ESR/2016/2271". The details provided should address the nature of the matter as relevant. The form should be completed as fully as practicable in the circumstances. Indicate any sections of the notice that are not applicable or for which information is not currently available.

Circumstances could arise in which you are also obligated to provide a notice to the administering authority of a Notifiable Activity that has been, or is being carried out under Schedule 3 of the EP Act. If the Notifiable Activity has not been notified to the administering authority previously, please use the template for giving written notice about a notifiable activity, available by going to [Queensland Government \(www.qld.gov.au\)](http://www.qld.gov.au) and searching "ESR/2015/1845".

If the notification is in relation to meeting environmental authority notification requirements for non-mining resource activities, including petroleum and gas, greenhouse gas storage and geothermal activities use the template Incident notification (resource activities other than mining), available by going to [Queensland Government \(www.qld.gov.au\)](http://www.qld.gov.au) and searching "ESR/2015/1753".

Circumstances could also arise in which notice of a related event or change in condition of the land relating to contaminated land needs to be provided under the EP Act. This information is available by going to [Queensland Government \(www.qld.gov.au\)](http://www.qld.gov.au) and searching for "ESR/2023/6639".

Office use only

Date entered in Dynamics:	Click here to enter text.	Relevant regional manager:	Click here to enter text.
Dynamics reference #:	Click here to enter text.	Date sent to regional manager:	Click here to enter text.
Relevant regional area:	Click here to enter text.	Officer actioning this item:	Click here to enter text.

1. Person/Company/ Organisation giving notice

NAME Larry Sengstock	TELEPHONE (BUSINESS HOURS) (07) 5329 6500
	TELEPHONE (AFTER HOURS) Click or tap here to enter text.
COMPANY/ORGANISATION NAME (IF APPLICABLE) INCLUDE THE ACN NUMBER Noosa Shire Council	
POSITION IN COMPANY/ORGANISATION (IF APPLICABLE) CEO ACTING	

POSTAL ADDRESS PO Box 141 Tewantin Qld 4565	
EMAIL mail@noosa.qld.gov.au	FACSIMILE

2. Who is giving notice about the matter

2.1. In what capacity are you giving notice?

Tick relevant box

- I am the owner of the land
- I am an occupier (e.g. lessor or tenant) of the land
- I am a representative of a local government
- I am an auditor performing an auditor's function under EP Act
- I am an employer
- I am an employer of someone carrying out an activity
- I am an employee carrying out an activity and have not been able to contact my employer
- Environmental Authority (EA) holder
- Other (specify) [Click or tap here to enter text.](#)

2.2. Please provide details of your involvement

For example, if you are a representative of a local government, describe the nature of the matter and how the local government became aware of the matter.

We commissioned a contaminated land investigation that identified contamination above criteria that is considered to be a hazardous contaminant. We are also in the process of notifying DES of historical Notifiable Activities identified by the contamination investigation.

3. Details of the affected land

3.1. Please provide details of the lot and plan description (and full street address if available).

NAME BY WHICH THE PROPERTY IS KNOWN CLICK OR TAP HERE TO ENTER TEXT.	
FULL STREET ADDRESS OF THE SITE 62 LAKE MACDONALD DRIVE, COOROY, QLD, 4563	
ANY OTHER INFORMATION THAT WILL ASSIST IN QUICKLY LOCATING THE LOCATION ASSOCIATED WITH THE RELEVANT MATTER CLICK OR TAP HERE TO ENTER TEXT.	
LOT(S) LOT 105	PLAN(S) SP118458
GRID REFERENCES NORTHING -26.4094550 EASTING 152.9158790	
LOCAL GOVERNMENT AUTHORITY NOOSA SHIRE COUNCIL	

3.2. Is a map or locality plan attached to this notification?

- No Yes

A map or locality plan that shows the affected land may greatly assist the processing of this notification.

3.3. Is the affected land the source of contamination?

Yes No

3.4. What land has been impacted by the contamination?

Source Adjacent land Both

4. Details of the matter being notified

4.1. Type of matter listed in s.320A EP Act

- Is the matter related to an activity that is a resource activity (other than mining)?

Yes No

If yes, please go to section 5

- Is the matter related to an event that causes or threatens to cause serious or material environmental because of an act or omission in carrying out a primary activity?

Yes No

If yes, please go to section 6

- Is the matter related to the presence of, or happening of an event that involves a hazardous contaminant causing (or reasonably likely to cause) serious or material environmental harm?

Yes No

If yes, please go to section 6

- Is the matter related to a change in the condition of contaminated land that is causing (or is reasonably likely to cause) serious or material environmental harm?

Yes No

If yes, please go to section 7

- Is the matter related to Notifiable Activity listed under Schedule 3 of the EP Act?

Yes No Unsure

If it is a notifiable activity that you are undertaking you are obligated to provide more information by going to [Queensland Government \(www.qld.gov.au\)](http://www.qld.gov.au) and searching (ESR/2015/1845).

Can you provide more information about the notifiable activity?

Yes No

Refer attached contamination assessment report – 20 - historical landfilling. Note that hazardous contaminants have been identified above criteria but no evidence of migration off-site has been found to date. Site was also subject to night soil disposal but estimated to be under the 50,000 EP trigger.

- Is the activity/event/matter currently occurring or did it occur previously? Current Previous

4.2. Describe the nature of the matter being notified

If you require additional space attach the information on a separate sheet and make reference to that sheet here.

Refer attached contamination assessment report. Historical landfilling has occurred over portions of the Lot. Note that hazardous contaminants have been identified above criteria but no evidence of migration off-site has been found to date. Site was also subject to night soil disposal but estimated to be under the 50,000 EP trigger.

4.3. State whether any activity (related to the matter) was being carried out under:

- an environmental protection policy Yes
- a transitional environmental program Yes
- an environmental protection order Yes
- an environmental authority Yes
- a progressive rehabilitation and closure plan (PRCP) Schedule Yes
- a development condition of a development approval Yes
- a prescribed condition for carrying out a small scale mining activity Yes
- an emergency direction Yes
- an agricultural ERA standard Yes
- a temporary emissions licence Yes

4.4. Please provide the identifying details of the relevant approval or authority for carrying out the activity (if known). If possible attach a copy of the relevant document.

Click or tap here to enter text.

5. Special requirement for resource activities (petroleum and gas, geothermal and greenhouse gas storage activities but not a mining activity)

Does this notice relate to notification of an event that has occurred while carrying out a resource activity that has:

- negatively affected, or is reasonably likely to negatively affect, the water quality of an aquifer; or No Yes
- has caused the connection of two or more aquifers No Yes

6. Matters relating to events

If it is an event involving the release of contaminants, the following information should be provided

6.1. When did the event occur/start?

Time: 1953 1967

Is this time and date: accurate approximate

6.2. Describe the circumstances in which the event has occurred.

Please provide details of the circumstances that led up to the event, any factors that may make the effects of the event worse, any preventive measures or cleanup up action taken and any other matters that may be relevant. If you require additional space attach the information on a separate sheet and make reference to that sheet here.

From the date of the earliest aerial photo in 1953 until at least 1967 the northern and mid portion of the site appears to have been disturbed and then progressively levelled that may have included the use of imported fill and imported wastes, which were identified as part of the recent contamination investigation that included soil sampling and analysis.

6.3. Provide any additional information that may be relevant to this notification

If additional space is required attach the information on a separate sheet and make reference to that sheet here.

Refer attached contamination investigation report.

6.4. Event type:

Spill Discharge Leakage Exposure/uncovering
 Fire Fishkill Other Historical landfilling

6.5. Source of release:

Vehicle spill Vessel spill Pipeline breach Dam/pond failure
 Drain outlet Bulk/tank Vessel sinking Dumping
 Sewage discharge Industrial activity Cattle/sheep dip Horticulture
 Excavation Landfill Other _____

6.6. Contaminants (if known):

Solid chemicals Liquid chemicals Hydrocarbons Gas/vapour
 Pesticide/herbicide Nutrients BOD/COD Dangerous goods
 Other heavy metals, bonded asbestos and physical general wastes (non-putrescible) such as glass, metal and plastics _____ Click or tap here to enter text.

6.7. Details of contaminants (if known):

Substance(s): ___heavy metals, bonded asbestos and physical general wastes (non-putrescible) such as glass, metal and plastics

Quantity: estimated >5tonnes Litres/Kilograms/Tonnes/<other>

Area/extent affected: 15,000m3 (two areas in total) m by _____ m

6.8 How did you become aware of the event

Via contamination investigation report per attached

6.9. What was the source of information about the event

- own observation
- information provided by a person with relevant competencies
- information provided by an employee

6.10. When did you first became aware of the event for which notice is given

<small>TIME</small> Click or tap here to enter text.	<small>DATE</small> 30/05/2023
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7. Change in condition of land

If it is a change in the condition of land that is being notified, the following information should be provided.

7.1. Nature of change in the condition of the land (that has caused or is reasonably likely to cause or involve serious or material environmental harm)

- Dispersal of contaminants in soil No Yes
- Dispersal of contaminants in groundwater No Yes
- Dispersal of contaminants in surface waters No Yes
- Accumulation of gases or vapour in soil or structures No Yes
- Change in surface features (e.g. vegetation) No Yes

7.2. Details of change in the condition of the land

Describe what the change in condition involves

Click or tap here to enter text.

If additional space is required attach the information on a separate sheet and make reference to that sheet here.

7.3. Cause of change in condition (if known)?

Describe the known factors that have led to the change in condition

Click or tap here to enter text.

If additional space is required attach the information on a separate sheet and make reference to that sheet here.

7.4. Timeframe of change in condition

Outline what is known of the timeframe in which the change in condition has occurred

Click or tap here to enter text.

7.5. Type of environment affected:

What is the type of environment that has been affected by the matter or change in condition?

- | | | | |
|---|---|--------------------------------------|-------------------------------------|
| <input type="checkbox"/> Waterway/drain | <input type="checkbox"/> Marine | <input type="checkbox"/> Estuarine | <input type="checkbox"/> Freshwater |
| <input type="checkbox"/> Land contamination | <input type="checkbox"/> Urban area | <input type="checkbox"/> Air/fallout | <input type="checkbox"/> Vegetation |
| <input type="checkbox"/> Protected area | <input type="checkbox"/> Other ___ Click or tap here to enter text. | | |

7.6 How did you become aware of the change of condition

Click or tap here to enter text.

7.7. What was the source of information about change in condition

- own observation
- information provided by a person with relevant competencies
- information provided by an employee

7.8. When did you first became aware of the change in condition for which notice is given

Notice
Duty to notify of environmental harm

TIME Click or tap here to enter text.	DATE Click or tap to enter a date.
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8. Details of registered owners or occupiers of affected land to which notice has been given

Note: Registered owners or occupiers of affected land do not need to be notified before notifying the administering authority.

8.1. Have any registered owners or occupiers of affected land been notified of this incident?

I am the sole owner/occupier of the land Yes No

*If no, please provide details of the occupiers and registered owners of land affected, or potentially affected, by this incident including details of how notice to those persons was given.

NAME Click or tap here to enter text.	TELEPHONE Click or tap here to enter text.
POSTAL ADDRESS Click or tap here to enter text.	
DESCRIPTION OF HOW NOTICE WAS GIVEN Click or tap here to enter text.	

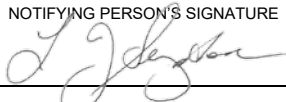
If you require additional space you may attach the information on a separate sheet.

9. Declaration

Note: If you have not told the truth in this application you may be liable for prosecution under the relevant Acts or Regulations.

I do solemnly and sincerely declare that the information provided is true and correct to the best of my knowledge. I understand that it is an offence under s. 480 of the *Environmental Protection Act 1994* to give to the administering authority or an authorised person a document containing information that I know is false, misleading or incomplete in a material particular.

I understand that all information supplied on or with this notification form may be disclosed publicly in accordance with the *Right to Information Act 2009* and the *Evidence Act 1977*.

NOTIFYING PERSON'S SIGNATURE  ACTING CEO NOOSA COUNCIL	DATE 30/05/2023
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10. Phoning the pollution hotline

In addition to providing the written notice if you become aware of a matter which has caused or threatens serious or material environmental harm you should immediately call the pollution hotline on **1300 130 372**

and report the matter. Reporting the matter through the pollution hotline allows the administering authority to take necessary measures to prevent further harm and to mitigate the effects of an incident or event.

In addition to notifying the administering authority, and where that is not the relevant local government, it is good practice to notify the local government for the area where the event has occurred.

11. Sending the written notice

Please return the completed notice to Permit and Licence Management at the Department of Environment and Science by:

Pollution hotline 1300 130 372

AND written notification via email, or registered post:

Email: pollutionhotline@des.qld.gov.au

Note: Include '**Duty to notify of environmental harm**' in the subject line of the email and attach a completed copy of the template.

Registered post:

Permit and Licence Management
Department of Environment and Science
GPO Box 2454
Brisbane QLD 4001

12. Further information

The latest version of this publication is available at www.qld.gov.au using the publication number ESR/2015/2230 as a search term or by contacting Permit and Licence Management on 13 QGOV (13 74 68).

Privacy statement

The Department of Environment and Science (DES) will use the personal information collected on this form in accordance with the Information Privacy Act 2009. The information will only be accessed and used by authorised employees within DES in the context of the disclosure and will not be otherwise used or disclosed unless required or authorised by law. For queries about privacy matters email: privacy@des.qld.gov.au or telephone: 13 74 68.

Pursuant to section 540 of the Environmental Protection Act 1994 (EP Act), DES is required to maintain a register of certain documents and information authorised under the EP Act. The register is available for inspection by members of the public who are able take extracts, or copies of the documents from the register. Documents or information that are required to be kept on the register are published in their entirety unless alteration is required by the EP Act. For more information on the Department's public register, follow the link or search 'public register' at www.qld.gov.au.



Appendix K

CLID Content Reconciliation

Table K1 – 62 Lake Macdonald Drive, Cooroy - CLID content with respect to relevant EP Act 1994 Sections 389 and 390 (effective 2 June 2023)

Item	CLID Section (S.) / Comments
389(2)(a) the following information about the relevant land:	
(i) the reasons particulars of the land have been recorded in a relevant land register	S.1, S2. (Table 1) and Appendices C and J
(ii) a description of all surface and subsurface infrastructure on the land, including details of the location, size and type of the infrastructure	S.3.17, S.3.18 and Appendix M
(2)(a)(iii) a description of the surrounding area of the land, including a description of each of the following in the surrounding area:	
(A) all environmentally sensitive areas	S2. (Table 1) and S.3.3, S.3.6 and S.3.7
(B) the location of all water, watercourses and wetlands	S.3.1 and S.3.3
(C) the location of all stormwater drainage	S.3.17
(D) all uses of the land, including uses that may affect the safety of the relevant land or cause environmental harm	S.3.4 through S.3.7, S.3.10, through S.3.17, S.4 and S.5
(E) all activities carried out that may affect the safety of the relevant land or cause environmental harm	Refer above
(2)(a)(iv) for waste disposed of or stored on the land that contains, or may potentially contain, hazardous contaminants:	
(A) details of the location, volume and type of the waste	S.4
(B) details of any potential contamination of the land caused by disposing of or storing the waste on the land	S.4, S.6, S.8, S.9 and S.10
(2)(a)(v) a description of the geology and hydrogeology of the land	S.3.2 and S.3.3
(2)(a)(vi) details of any environmentally relevant activities or notifiable activities carried out on the land, including the materials used and waste produced during the carrying out of the activities	S.3.5 and S.3.13
(2)(a)(vii) details of any earthworks carried out on the land, including the materials used and waste produced during the earthworks	S.3.12, S.3.14 through S.3.17, S.4 and S.8 through S.10
(2)(a)(viii) if work has been carried out on the land to remediate the contamination of the land—the contamination levels recorded on the land before and after the work was carried out	Not applicable
(2)(b) a statement (a site suitability statement) of the uses or activities for which the land is suitable	S.10.4
(2)(c) a statement of the following matters:	

Item	CLID Section (S.) / Comments
(i) whether the land is prescribed contaminated land	was provided in PSI, with a statement to be provided at conclusion of the works in the investigation and validation document when required for DESI submission
(ii) if the land is contaminated - the extent to which the land is contaminated	S.8 through S.10
389(3) If the CLID is a draft site management plan, the document must be in the approved form and include:	
(a)(i) the proposed objectives to be achieved and maintained under the plan	As an SMP is not applicable for the site at present, a relevant CLID content checklist for an SMP is not required. Interim management advice for identified contamination is provided within S.10.2
(a)(ii) the proposed methods for achieving and maintaining the objectives	
(a)(iii) the proposed monitoring and reporting compliance measures for the land	
(b) a site suitability statement	
(c)(i) a statement whether the land is prescribed contaminated land	
(c)(ii) a statement if the land is contaminated—the extent to which the land is contaminated	
(c)(iii) a statement whether the proposed objectives, methods and measures stated in the plan under paragraph (a)(i to iii) are appropriate	
(d) a reference to, and a copy of, the site investigation report or validation report that relates to the draft site management plan	
(e) a description of the source, cause and extent of environmental harm to be managed under the plan	
389(4) a CLID must be accompanied by a certification by an auditor (an auditor's certification) that (a) is in the approved form and (b) verifies that the document complies with subsection 389(2) or 389(3)	
390 Submission of a CLID to the administering authority must be accompanied by a declaration by the relevant person identified by 390(3), that the person:	
2(a) has not knowingly given any false or misleading information to the auditor who certified the document	Appendix L
2(b) has given all relevant information to the auditor	Appendix L
2(c) if the person is not the land's owner - has given a copy of the document to the owner	Appendix L and document transmittal advice
(5) the CLID must also be accompanied by (a) for a draft site management plan prepared by a person other than the land's owner - a statement by the land's owner agreeing to the draft plan	Not applicable

Table K2 CLID content with respect to Module 6 requirements (ESR/2018/4224 version 2.03 effective 18 May 2023) plus DES Approved Form (ESR/2023/6339 version 1.03 effective 19 May 2023) Tables B1, B2, B3 and B4 requirements highlighted yellow

Item	Comments / Notes
Module 6 Section 3.1.1 Introduction	
State if the CLID is a site investigation report or validation report.	S.2 (Table 1) and Appendix L
Explain why the CLID was prepared and note any statutory triggers.	S.1, S2. (Table 1)
State what the desired outcome is (e.g. to have the particulars of the land removed from, or amended on, the relevant land register).	S.1, S2. (Table 1)
3.1.2 Site investigations	
Describe and illustrate all the site investigations that were used when preparing the contaminated land investigation document, including information verification of any that may have been undertaken for previous purposes. B1-Sources of information	S2. (Table 1) (no previous site investigations were identified other than the preceding PSI works)
3.1.3 Reasons the land is on a relevant land register (also refer EP Act 389(2)(a)(i) and NEPM B2 s.3.1 to 3.4 and 3.6)	
Identify and describe the land by the following information:	S.1, S2. (Table 1) and referenced Appendices and Sections contained in Table 1
· street address of the site	
· registered lot-on-plan details	
· owner(s) of the land (and their registered address) and current occupier(s) of the land B1-Present owners, occupiers and current users of the site	
· area of the land (m2 or hectares)	
· map of the site at a suitable scale, showing lot and plan boundaries, and latitude and longitude in decimal degrees B1-Site plans	
· relevant local government authority	
· zoning of the site and the surrounding land on the local government's planning scheme (current and proposed) B1-Land use zoning	
· any proposed changes to the zoning of the site and the surrounding land on the local government's planning scheme	
· any existing, pending or proposed development approval or building works approval.	
State whether or not the land is currently listed on the EMR or the CLR, and provide the identifying number on the EMR or CLR. Provide a short history (if available) of when any listing(s) occurred, and any changes that were made to the listings.	S.1, S2. (Table 1), S.10 and Appendices C and J
Describe the past and current activities and use(s) of the land that resulted in its potential or actual contamination and its listing on the register. Describe and map the locations where those activities occurred. In particular, address any notifiable activities and/or environmentally relevant activities. B1-Historical maps, B1-Aerial photographs, B1-Previous owners and occupiers of the site, B1-Interview information	S.3.4, through S.3.7, S.3.10 through S.3.17, S.4, S.5 and S.6

Item	Comments / Notes
3.1.4 Surface and subsurface infrastructure (also refer EP Act 389(2)(a)(ii) and NEPM B2 s.3.3.5 to 3.3.7)	
Describe all surface and subsurface infrastructure on the land, including details of the location, size and type of the infrastructure. Relevant infrastructure includes pipes, tanks, drains, dams, bores, buildings and foundations. B1-Services to the property, B1-Previous and present buildings and structures	S.3.12, S.3.14, S.3.17, S.3.18 and Appendix M
... describe any infrastructure that has contributed to contamination of the site, even if that infrastructure has since been removed.	
Describe any infrastructure that may either retard or increase the movement of contaminants and describe how the effect may occur. For example, bedding sand for stormwater drainage or sewerage pipes can act as a preferential pathway for contaminants even if the pipe itself has been removed.	
Describe any infrastructure that could inhibit assessment or remediation.	
Describe any infrastructure that may act as a secondary source of contamination following prior contact with products or wastes containing contaminants. For example, concrete and asphalt exposed to PFAS have been found to contaminate stormwater.	S.3.17, S.4 and S.5
3.1.5 Site and surrounding area (also refer EP Act 389(2)(a)(iii) and NEPM B2 s.3.4 and 4.3)	
<i>Provide a description of the site and surrounding area that at a minimum must address</i>	
All <i>environmentally sensitive areas</i>	
The location of all water, watercourses and wetlands	S.3.1, S.3.3 and S.3.17
The location of all stormwater drainage	S.3.17, S.3.18 and Appendix M
All uses of the land, including uses that may affect the safety of the relevant land or cause environmental harm	S.3.4 through S.3.7, S.3.10, through S.3.17, S.4 and S.5
All activities carried out that may affect the safety of the relevant land or cause environmental harm	S.3.4 through S.3.7, S.3.10, through S.3.17, S.4 and S.5
Describe the climate of the area of the land, and the vegetation on the site and the surrounding area."	S.3.8, S.3.6, S.3.7 and S.3.17
Illustrate the description with maps, diagrams and photographs, and include the topography of the area. If the site and/or its surrounding land have areas of low relief, illustrate the topography on maps with contours at no more than 1m intervals.	S.3.1 and relevant maps, diagrams and photographs contained throughout the CLID

Item	Comments / Notes
Describe the stormwater drainage, delineate the catchments, and include any stormwater quality improvement devices, weirs, sediment basins, storage dams, and so on. Include the potential for stormwater drainage to affect the movement of contaminants. Also, address flood risk and locations where significantly large pools of water occur during or after rain events.	S.3.1, S.3.3, S.3.6, S.5 and flood mapping presented in Appendix D (page 46) (site is not mapped as being located on a flood plain)
B1-Does the CLID describe the environmental setting?	S.3.1, S.3.2, S.3.3, S.3.5, S.3.6, S.3.7, S.3.8, S.3.9 and S.3.17
3.1.6 Waste disposed of or stored on the land (also refer EP Act 389(2)(a)(iv) and NEPM B2 s.3.3.8 to 3.3.16)	
Provide details of any waste (liquid or solid) that has been disposed of on the land, or that is or was stored on the land. Under Queensland law, waste is defined by s.13 of the EP Act (also refer Appendix 3 of Module 6). The details should include the location, quantity and type of the waste, and the method(s) of its storage or disposal. B1-Industrial processes carried out on site and products manufactured, B1-Chemical storage/transfer areas, B1-Raw materials used, B1-Intermediate products, B1-Discharges to land and water, B1-Wastes produced, B1-Power generation, B1-Waste disposal locations, B1-Imported fill	S.3.4, S.3.5, S.3.10 through S.3.17, S.4. and S.5
Address any potential contamination of the land caused by storing or disposing of the waste on the land, such as might occur through the failure or breaching of an underground containment cell, the deterioration of storage vessels, or an accident such as a fire. That is, disposal should be taken to include accidental spills or releases. B1-Spills, losses, incidents and accidents	
The description should also include any waste that may have been extracted, then moved or stored at the site during earthworks (see also section 3.1.9 below). Suitably qualified persons must search all available records when researching information for this section of the report. B1-Earthmoving activities	
3.1.7 Geology and hydrogeology (also refer EP Act 389(2)(a)(v) and NEPM B2 s.3.4, 3.5, 15.2.8, B3 and B6)	
Describe the geology and hydrogeology of the land, including soils, subsoils, rock strata, aquifers, and aquitards.	S.3.2 and S.3.3
Identify the environmental values (EV's) to be enhanced or protected under the Environmental Protection (Water and Wetland Biodiversity) Policy 2019.	S.7.2
Describe beneficial groundwater use(s) at and in the vicinity of the site, including a search for registered bores.	S.3.3 and Appendix D
Assess how the geology and hydrogeology of the land would affect the movement or retention of contaminants within soils, subsoils, and rock strata.	S.3.1, S.3.2, S.3.3 and S.5
Describe groundwater quality and groundwater levels and flow directions.	S.3.3
Describe any barriers to, and migration pathways for, the dispersal of contaminants in groundwater.	S.3.3, S.4 and S.5
Assess the rate at which any contaminants may migrate by moving through or out of the ground.	Not applicable

Item	Comments / Notes
If there has been irrigation of wastewater to land, or subsurface injection of wastewater, describe the quantity and quality of wastewater and the geological material and strata onto or into which the irrigation or injection occurred.	Not applicable
Describe the natural geochemistry including acid sulfate soils, or sulfide bearing minerals and assess the effects that these soils may have on the distribution and migration of contaminants (also document how possible impacts to acid sulfate soils were considered and managed during any remediation activities). B1-Does the site have acid sulfate soils? and, B1-If yes, does the CLID address acid sulfate soils?	S.3.9
Describe any naturally occurring toxicants that are present in quantities or concentrations that might affect the use or management of the site.	Not applicable
Address liquid and gaseous contaminants that may be dispersed in pore spaces, and assess the potential for, and the likely rate of, dispersal of contaminants to the atmosphere.	S.4, S.5 and S.10
Assess whether the dispersal of contaminants from the ground could impact on air quality in buildings or underground car parks.	S.4, S.5 and S.10
If groundwater remediation is required, assess how effectively the site's contamination could be remediated, describe any limitations, and assess the likely residual contamination.	Not applicable
B1-Does the CLID describe local geology and hydrogeology?	S.3.2 and S.3.3
3.1.8 Environmentally relevant activities and notifiable activities (also refer EP Act 389(2)(a)(vi) and NEPM B2 s.2.1 and 3.3.5)	
Provide details of any <i>environmentally relevant activities</i> and <i>notifiable activities</i> carried out on the land, whether formerly or currently B1-Previous activities/uses	S.2 (Table 1), S.3.5, S.3.16, S.3.17, S.4, S.5 and Appendix A
Focus on the materials used and waste produced during the carrying out of the activities that could be sources of on-site or offsite contamination.	
Illustrate on maps where any of the activities were carried out.	
3.1.9 Earthworks (also refer EP Act 389(2)(a)(vii) and NEPM B2 s.3.3.17)	
Provide details of any earthworks carried out on the land, including an inventory of any earth taken out to be treated or dumped elsewhere, and/or earth brought on to the site as fill. B1-Imported fill , B1-Earthmoving activities	S.3.14, S.3.16, S.3.17, S.4 and S.5
Integrate the description of any earthworks with the required description of the site's watercourses, wetlands, geology and hydrogeology.	
Provide maps and cross-sections to illustrate how earthworks have changed the topography and geology of the land.	
Address whether the earthworks could be a source of contamination.	
Assess how earthworks may have affected how water and/or other liquids move over, into or through the ground dispersing contaminants.	
3.1.10 Remediation (also refer EP Act 389(2)(a)(viii) and NEPM A, B1, B2 s.5.2, B3, B4 to B8)	

Item	Comments / Notes
If any contamination has been remediated on the land, describe the remediation in detail in a validation report (<i>the validation report may be submitted with a site investigation report so that the combined reports cover the matters detailed in the previous subsections of this section of Module 6</i>).	Not applicable
The validation report must describe the remedial approach that was adopted (the approach should be developed in accordance with the <i>National Remediation Framework</i> , which was developed to complement the contaminated land NEPM).	Not applicable
The validation report must describe the remedial strategy, how the validation criteria were developed, and explain why the criteria were considered appropriate for the site's particular circumstances.	Not applicable
The validation report must describe the contamination levels recorded on the land before and after the work was carried out; and compare the contamination levels to the remediation objectives and validation criteria that were used to evaluate the effectiveness of the remediation.	Not applicable
The report must describe how the residual contamination levels were validated and demonstrate that the methods were appropriate and statistically robust. Also, the validation report must assess any residual risks to human health and all environmental values as a result of the remediated state of the land.	Not applicable
Where appropriate, the validation report should include a copy of the remediation action plan that was developed for the remedial activities and the <i>remedial options assessment</i> that was carried out prior to remediation. The ROA should include an analysis of the options that were available for remediating the land and explain why the preferred option was chosen.	Not applicable
3.1.11 Site Suitability Statement (also refer EP Act 389(2)(b) and Module 6 s.3.3.2)	
Section 389(2)(b) of the EP Act requires all statutory site investigation reports and validation reports to include a conforming <i>site suitability statement</i> (for every land parcel based upon the four generic land use categories) by a suitably qualified person that first prepares the CLID and then bases the <i>site suitability statement(s)</i> on its findings, which may then be submitted to the administering authority (to achieve a statutory outcome) if it is certified by an auditor.	was provided in PSI, with a statement to be provided at conclusion of the works in the investigation and validation document when required for DESI submission
3.1.12 Contaminated Land (also refer EP Act 389(2)(c) and NEPM A, B1, B2, B3, B4, B5a and B6)	
EP Act 389(2)(c) requires the CLID to include a statement of the following matters: <ul style="list-style-type: none"> • <i>whether the land is prescribed contaminated land, and</i> • <i>if the land is contaminated—the extent to which the land is contaminated.</i> 	was provided in PSI, with a statement to be provided at conclusion of the works in the investigation and validation document when required for DESI submission

Item	Comments / Notes
Provide details of the site investigations and the findings of those investigations regarding contamination of the land, particularly the extent, fate and movement of contamination. Approved Form Item between Tables B3 and B4-If contaminant fate and transport modelling was undertaken, has it conformed with section 10 of the NEPM Schedule B2?	S.10 (no fate and transport modelling undertaken)
Provide details of the data quality objectives, sampling strategy, and sampling and analysis quality plan prepared to support the investigation. B3-Data quality objectives (DQOs) process has been followed and systematically developed and aligned with the objectives of the site assessment, B3-A well-developed sampling and analysis quality plan was implemented, B3-All potential contaminants of concern were adequately sampled and assessed in accordance with recognised guidelines, in locations indicated via site history and for all relevant media, B3-Adequate Data Quality Indicators (DQIs) were established and an adequate assessment was carried out? and B3-Statistical analysis (if applicable).	S.4, S.6, S.8. and S.10
Describe in detail all: desk-top assessments of the site; site inspections; and sampling of soil, water, and any other media. B1- Were site inspection(s) undertaken in accordance with the NEPM Schedule B2?, B1-Does the CLID describe those site inspection(s)?, and B3-The sampling design and execution was appropriate for collecting sufficient and accurate quality assured data from all relevant media.	S.3, S.4, S.5, S.6, S.10 and Appendix I
Provide maps, GPS coordinates and diagrams, including cross-sections where necessary, to illustrate the site and where sampling has taken place on the site or its surrounds and the location of identified contaminants.	S.2 (Table 1), S.5 and Appendix A
Provide details of a <i>conceptual site model</i> (CSM) presented in text, tables, and illustrated with suitable graphics and flow diagrams. B2-The CSM was prepared and presented in written format, and illustrated with suitable graphics and flow diagrams, B2-The complexity of the CSM corresponded to the scale and complexity of the known or potential contamination impacts, B2-The CSM was iteratively developed throughout the assessment process, B2-The CSM considered all essential elements, and B2-The CSM identified and assessed all data gaps and uncertainties.	S.5
Describe the methods used to collect, store, preserve and analyse samples of media. Discuss any limitations to those methods that may affect reliance on the results. Samples must be collected in accordance with appropriate standards and quality control processes. Present the details of the QA/QC assessment and record the chain of custody of samples. If the samples were handled and/or analysed by a third-party, identify the laboratory or contractor(s) that undertook the work, and state whether or not they are accredited (e.g. by the National Association of Testing Authorities, Australia (NATA)). If the laboratory or contractor is not accredited by NATA, explain how the methods have been appropriately validated. B3-Quality control checks and procedures were sufficient, and in adequate quantities, to measure the effects of all influences on sample integrity, accuracy and precision, B3-The completeness, validity and usability of data was adequately assessed.	S.6 and Appendix I
Describe and validate the methods used to interpolate and extrapolate, from the sampling results, the spatial extent of any contamination. B3-The nature, and vertical and lateral extent of contamination has been established in all relevant media including off-site delineation if indicated by contaminant concentrations at the relevant land boundaries.	S.8 and S.10

Item	Comments / Notes
Describe and illustrate (with data tables, maps, GPS coordinates, diagrams and cross-sections at suitable scales) the location(s) of any residual contamination, and the quantities or concentrations of contaminants. Also, assess, describe and illustrate the potential risks of contamination either moving off the relevant land to any surrounding area, or moving onto the relevant land from any off-site sources of contamination.	S.5, S.8 and S.10
Assess the levels of contaminants against applicable criteria, considering all relevant environmental values, including human health, amenity, and ecological values.	S.7, S.8 and S.9
Derive environmental values for water pursuant to the <i>Environmental Protection (Water and Wetland Biodiversity) Policy 2019</i> and <i>Australian water quality guidelines for fresh and marine waters</i> (ANZECC & ARMCANZ, 2000). Include criteria to assess potential impact(s) on environmental values that relate to potential uses; for example, saline groundwater may be treated for potable or stock use during a drought, and therefore has an environmental value. Furthermore, all environmental values that derive from Queensland's EP Act and environmental protection policies cannot be subsequently disregarded or diminished by applying the contaminated land NEPM's risk-based process. B1-Does the CLID correctly identify and describe all relevant environmental values including prescribed environmental values and environmental objectives for surface waters, wetlands and groundwaters?, B3-Assessment criteria were appropriate to determine the human health and ecological risks of the contamination and protection of any relevant groundwater resources, and B3-Assessment criteria included environmental objectives for environmental values as prescribed under the EP Act and subordinate legislation for the locality.	S.7.2
Assess how the levels of contaminants would impact on all current and foreseeable future uses, while taking account of the likely extent that the contamination can be remediated.	S.10
If the land was found to be not contaminated, the CLID should justify how the conclusion was reached, with reference to the site investigations and any remediation.	Not applicable
3.2 Draft site management plans (also refer EP Act 370 and 388 to 404)	
Section 370 of the EP Act defines an SMP for relevant land, as ' <i>a plan for managing the environmental harm that may be caused by the hazardous contaminant contaminating the land by applying conditions to the use or development of, or activities carried out on, the land.</i> ' An SMP specifies conditions for contaminated land to manage the contaminant and environmental harm that may be caused by the contaminant in order to protect human health and the environment, and to maintain the suitability of the contaminated land as certified by the auditor.	As an SMP is not currently required for the site, a relevant CLID content checklist for an SMP has not been included.
3.3 Common requirements for all contaminated land investigation documents	

Item	Comments / Notes
<p>3.3.1, 3.3.3 and 3.3.4 - a statutory CLID is to be in the approved form, and must:</p> <ul style="list-style-type: none"> • meet the content requirements of s.389(2) of the EP Act for a site investigation report or validation report, or s.389(3) of the EP Act for a draft site management plan, • be prepared by an SQP in accordance with the current state and Commonwealth legislation, policies and guidelines, Australian Standards, and NEPM, • be certified by a Contaminated Land Auditor, • be submitted with the form <i>Contaminated land investigation document—approved form</i>, which is available from the Department of Environment and Science (DES) website, • accord with the NEPM (base requirement being the minimum aspects of NEPM reflected within the approved DES form), and • include the declarations that are required when preparing, certifying and submitting a CLID 	<p>Refer to above content checklists items and the draft DES Approved Form presented as Appendix L and items highlighted yellow within this table that mirror minimum NEPM requirements as expressed primarily within (or adjacent) tables B1, B2, B3 and B4 of the approved form</p>
<p>Approved Form Table B4 Report presentation requirements of section 14 of the NEPM Schedule B2 for: B4-Report presentation, B4-Graphics presentation, B4-Site plans, B4-Contamination data, B4-Tabulated laboratory analytical results, B4-Bore logs and field records, B4-Photography, and B4-QA/QC documentation included.</p>	<p>Where relevant the CLID contains all noted elements at a standard considered consistent with NEPM</p>
<p>Approved Form Item after Table B4-Has the environment been protected during all site assessment and excavation works and has it been documented in accordance with section 15 of the NEPM Schedule B2?</p>	<p>S.10</p>
<p>3.3.2 - a statutory CLID must include a compliant site suitability statement</p>	<p>S.10</p>



Appendix L
Draft Approved Form

Form

Environmental Protection Act 1994

Contaminated land investigation document—approved form

This is the approved form for a contaminated land investigation document (CLID) under ss. 389(2) and 389(3) of the EP Act. This form is also used for submitting a CLID to the department under s. 390 of the Environmental Protection Act 1994 (EP Act). A copy of the CLID and all supporting reports and/or documents must be given to the department with this form—see the Submission checklist at the end of this form for the minimum requirements. The content requirements of the CLID are stipulated in s. 389 of the EP Act. Also, to be in the approved form the CLID must be prepared in accordance with Module 6 of the Queensland Auditor Handbook for Contaminated Land and the National Environment Protection (Assessment of Site Contamination) Measure 1999 (as amended 2013). Parts A, B, and C and Appendices 1 and 2 of this form must be completed by the relevant person (see s. 390(3) of the EP Act) and the responsible suitably qualified person (SQP). (Note: The responsible SQP can also be the relevant person who submits the CLID.) Part D of this form must be completed by the contaminated land auditor. The auditor's certification will be in the approved form required by s. 389(4) of the EP Act if Part D is completed and an audit report that has been prepared in accordance with Modules 4, 5, and 6 of the Queensland auditor handbook is included with the submission. The relevant person must ensure that the form is fully completed and all required components of the submission are lodged in one complete application.

OFFICIAL USE ONLY	PART A—DETAILS OF THE CONTAMINATED LAND INVESTIGATION DOCUMENT (CLID) AND THE RELEVANT LAND																																
DATE RECEIVED <input type="text"/>	Table A1 Details of CLID(s) <table border="1"><tr><td>Title of CLID:</td><td colspan="3">Lot 105 SP118458, Cooroy, QLD, 4563, Detailed Site Contamination Investigation, 12 June 2024, Prepared for: Noosa Shire Council (Revision 0)</td></tr><tr><td>Type:</td><td colspan="3"><input checked="" type="checkbox"/> Site investigation report (SIR) <input type="checkbox"/> Validation report (VR) <input type="checkbox"/> Draft site management plan (SMP)*</td></tr><tr><td>Version no.:</td><td><input type="text" value="0"/></td><td>Ref no.</td><td><input type="text" value="125 Lot 105 SP118458"/></td><td>Dated:</td><td><input type="text" value="12/06/2024"/></td></tr><tr><td colspan="6">*If draft SMP, enter details of supporting SIR or VR:</td></tr><tr><td colspan="6">Title: <input type="text"/></td></tr><tr><td colspan="6">Version no.: <input type="text"/> Ref no. <input type="text"/> Dated: <input type="text"/></td></tr></table>	Title of CLID:	Lot 105 SP118458, Cooroy, QLD, 4563, Detailed Site Contamination Investigation, 12 June 2024, Prepared for: Noosa Shire Council (Revision 0)			Type:	<input checked="" type="checkbox"/> Site investigation report (SIR) <input type="checkbox"/> Validation report (VR) <input type="checkbox"/> Draft site management plan (SMP)*			Version no.:	<input type="text" value="0"/>	Ref no.	<input type="text" value="125 Lot 105 SP118458"/>	Dated:	<input type="text" value="12/06/2024"/>	*If draft SMP, enter details of supporting SIR or VR:						Title: <input type="text"/>						Version no.: <input type="text"/> Ref no. <input type="text"/> Dated: <input type="text"/>					
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DATE <input type="text"/>																																	



Contaminated land investigation document

<p>Tick the reason the CLID has been submitted, and enter any necessary details. If the reason is 'Other', describe the reason in the righthand column.</p>	<p>Table A2 Reason for submitting CLID</p> <table border="1"> <tr> <td>Required by notice issued by the department</td> <td><input type="checkbox"/></td> <td></td> </tr> <tr> <td>Voluntary submission</td> <td><input checked="" type="checkbox"/></td> <td></td> </tr> <tr> <td>Other</td> <td><input type="checkbox"/></td> <td></td> </tr> </table>	Required by notice issued by the department	<input type="checkbox"/>		Voluntary submission	<input checked="" type="checkbox"/>		Other	<input type="checkbox"/>	
Required by notice issued by the department	<input type="checkbox"/>									
Voluntary submission	<input checked="" type="checkbox"/>									
Other	<input type="checkbox"/>									
<p>See Appendix 3 for conventions and formats for submitting electronic copies.</p>	<p>Is a hard copy or electronic copy of the report or plan provided?</p> <p>Hard copy <input type="checkbox"/> Electronic copy <input checked="" type="checkbox"/></p>									
<p>If the site has more than four lots, attach a list of all the lots that comprise the site.</p>	<p>Table A3 Site details</p> <p>Full street address of the site: 62 Lake Macdonald Drive, Cooroy, Qld, 4563</p> <p>Lot number(s): 105 Plan reference(s): SP118458</p> <p>Local government area: Noosa Shire Council</p> <p>Registered owner: Noosa Shire Council</p> <p>Registered owner's address: PO Box 141 Tewantin, QLD, 4565</p> <p>Registered owner's email address: mail@noosa.qld.gov.au</p>									
<p>Provide details of the current and proposed listing on the EMR or CLR. If the site has more than one lot, attach a list of this information for all the lots that comprise the site.</p> <p>Changes may include additional notifiable activities that are not recorded on the EMR listing and/or details of hazardous contaminants, referencing pages in the CLID that provide concentrations.</p>	<p>Table A4 Listing on the relevant land register</p> <p>Which register is the land listed on? EMR <input checked="" type="checkbox"/> CLR <input type="checkbox"/></p> <p>EMR/CLR reference no.: pending EMR listing by DES</p> <p>Do you propose the land should be removed from the relevant land register? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p> <p>What changes do you propose to the listing on the EMR or CLR? pending EMR listing by DES</p>									

Contaminated land investigation document

<p>Sections 390(3) and 390(4) of the <i>Environmental Protection Act 1994</i> (EP Act) define who is the <i>relevant person</i>. The relevant person is the person who gives the CLID to the administering authority. In this sense, 'gives' does not simply mean delivers. Rather, the relevant person causes the CLID to be given to the department. The relevant person may be the SQP responsible for the CLID. The <i>relevant person</i> must also complete the Declaration in Part C of this form.</p>	<p>Table A5 Relevant person submitting the CLID</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%;">Name: Larry Sengstock</td> <td>Title: </td> </tr> <tr> <td colspan="2">Company/Organisation: Noosa Shire Council</td> </tr> <tr> <td colspan="2">Position: CEO - Acting</td> </tr> <tr> <td colspan="2">Registered address: PO Box 141 Tewantin, QLD, 4565</td> </tr> <tr> <td colspan="2">Postal address: as above</td> </tr> <tr> <td>Telephone: 07 5329 6500</td> <td>Mobile: </td> </tr> <tr> <td colspan="2">Email (business): mail@noosa.qld.gov.au</td> </tr> </table>	Name: Larry Sengstock	Title: 	Company/Organisation: Noosa Shire Council		Position: CEO - Acting		Registered address: PO Box 141 Tewantin, QLD, 4565		Postal address: as above		Telephone: 07 5329 6500	Mobile: 	Email (business): mail@noosa.qld.gov.au	
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<p>Enter the details of the SQP responsible for the CLID. Enter 'As above' if the SQP is also the <i>relevant person</i>.</p> <p>The SQP responsible for the CLID must provide evidence in Appendix 1 that they meet the statutory requirements and also sign the declaration in Part C.</p>	<p>Table A6 Suitably Qualified Person (SQP) responsible for the CLID</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%;">Name: Andrew Winters</td> <td>Title: Mr</td> </tr> <tr> <td colspan="2">Company/Organisation: Environmental Advisors Pty Ltd</td> </tr> <tr> <td colspan="2">Position: Director and Principal Scientist</td> </tr> <tr> <td colspan="2">Registered address: 168 Flaxton Drive, Mapleton, QLD, 4560</td> </tr> <tr> <td colspan="2">Postal address: PO Box 505, Buddina, QLD, 4575</td> </tr> <tr> <td>Telephone: </td> <td>Mobile: 0409 662 747</td> </tr> <tr> <td colspan="2">Email (business): andrew@environmentaladvisors.com.au</td> </tr> </table>	Name: Andrew Winters	Title: Mr	Company/Organisation: Environmental Advisors Pty Ltd		Position: Director and Principal Scientist		Registered address: 168 Flaxton Drive, Mapleton, QLD, 4560		Postal address: PO Box 505, Buddina, QLD, 4575		Telephone: 	Mobile: 0409 662 747	Email (business): andrew@environmentaladvisors.com.au	
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Telephone: 	Mobile: 0409 662 747														
Email (business): andrew@environmentaladvisors.com.au															
<p>Any additional SQP(s) who conducted professional technical services for the responsible SQP must complete a <i>Professional Support Team – Suitably qualified person declaration form</i> (ESR/2015/1856) and include it with the CLID submission.</p>	<p><input type="checkbox"/> No professional technical support</p> <p style="text-align: center;">OR</p> <p>Table A7 Support professional(s)</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Name of support</th> <th style="width: 50%;">Technical advice provided</th> </tr> </thead> <tbody> <tr> <td style="height: 20px;"></td> <td></td> </tr> <tr> <td style="height: 20px;"></td> <td></td> </tr> <tr> <td style="height: 20px;"></td> <td></td> </tr> <tr> <td style="height: 20px;"></td> <td></td> </tr> </tbody> </table>	Name of support	Technical advice provided												
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PART B—CONTENT OF THE CLID

This part of the approved form demonstrates that the CLID meets the content requirements to be in the approved form. Except for Tables B5 and B7, a CLID may be either a site investigation report or a validation report. Table B5 applies to all types of CLIDs, while Table B7 specifically refers to a draft site management plan.

The content requirements are set by s. 389 of the EP Act and the NEPM.

The NEPM referenced in this form is the *National Environment Protection (Assessment of Site Contamination) Measure 1999 (as amended 2013)*.

The CLID must provide details of the site's history in accordance with section 3.3 of the NEPM Schedule B2. Indicate in Table B1 whether the CLID addressed the various requirements in the 'Adequate in the CLID?' column. If any item is ticked 'No', provide comment below at the end of Part B.

Note that reports included in an appendix of the CLID are part of the CLID. Therefore, there is no need to duplicate information in the CLID text that is provided in an appendix of the CLID.

Table B1 Site history—indicate in the table below whether the CLID adequately addresses matters discussed in each of the listed NEPM sections about the site history

Site History	NEPM Sch B2	Adequate in the CLID?
Site plans	3.3.1	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Historical maps	3.3.1	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Aerial photographs	3.3.1	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Land use zoning	3.3.2	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Present owners, occupiers and current users of the site	3.3.3	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Previous owners and occupiers of the site	3.3.4	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Previous activities/uses	3.3.5	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Services to the property	3.3.6	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Previous and present buildings and structures	3.3.7	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Industrial processes carried out on site and products manufactured	3.3.8	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Chemical storage/transfer areas	3.3.9	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Raw materials used	3.3.10	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Intermediate products	3.3.11	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Spills, losses, incidents and accidents	3.3.12	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Discharges to land and water	3.3.13	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Wastes produced	3.3.14	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Power generation	3.3.15	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Waste disposal locations	3.3.16	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Imported fill	3.3.16	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Earthmoving activities	3.3.17	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Interview information	3.3.18	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Sources of information	3.3.19	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

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<p>Confirm that the CLID addresses NEPM Schedule B2 (section 3.4).</p>	<p>Does the CLID describe the environmental setting? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>																		
<p>Confirm that the CLID addresses NEPM Schedule B2 (section 3.5).</p>	<p>Does the CLID describe local geology and hydrogeology? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>																		
<p>Confirm that the CLID addresses acid sulfate soils as per section 3.4 of the NEPM Schedule B2.</p>	<p>Does the site have acid sulfate soils? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, does the CLID address acid sulfate soils? Yes <input type="checkbox"/> No <input type="checkbox"/></p>																		
<p>Confirm that the CLID addresses environmental values of quality objectives for surface waters, wetlands and groundwater developed in accordance with the <i>Environmental Protection (Water and Wetland Biodiversity) Policy 2019</i> and s. 9 of the EP Act.</p>	<p>Does the CLID correctly identify and describe all relevant environmental values including prescribed environmental values and environmental objectives for surface waters, wetlands and groundwaters? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>																		
<p>Confirm that the CLID addresses section 3.6 of the NEPM Schedule B2.</p>	<p>Were site inspection(s) undertaken in accordance with the NEPM Schedule B2? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Does the CLID describe those site inspection(s)? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>																		
<p>Confirm that the CLID addresses section 4 of the NEPM Schedule B2.</p>	<p>Table B2 Conceptual site model (CSM)—indicate in the table below whether the listed aspects of the CSM are addressed in the CLID</p> <table border="1" data-bbox="545 1361 1404 1998"> <thead> <tr> <th data-bbox="545 1361 1024 1458">Conceptual site model</th> <th data-bbox="1024 1361 1174 1458">NEPM Sch B2</th> <th data-bbox="1174 1361 1404 1458">Provided in the CLID?</th> </tr> </thead> <tbody> <tr> <td data-bbox="545 1458 1024 1608">The CSM was prepared and presented in written format, and illustrated with suitable graphics and flow diagrams.</td> <td data-bbox="1024 1458 1174 1608">4.1</td> <td data-bbox="1174 1458 1404 1608">Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></td> </tr> <tr> <td data-bbox="545 1608 1024 1758">The complexity of the CSM corresponded to the scale and complexity of the known or potential contamination impacts.</td> <td data-bbox="1024 1608 1174 1758">4.1</td> <td data-bbox="1174 1608 1404 1758">Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></td> </tr> <tr> <td data-bbox="545 1758 1024 1839">The CSM was iteratively developed throughout the assessment process.</td> <td data-bbox="1024 1758 1174 1839">4.2</td> <td data-bbox="1174 1758 1404 1839">Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></td> </tr> <tr> <td data-bbox="545 1839 1024 1919">The CSM considered all essential elements.</td> <td data-bbox="1024 1839 1174 1919">4.3</td> <td data-bbox="1174 1839 1404 1919">Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></td> </tr> <tr> <td data-bbox="545 1919 1024 1998">The CSM identified and assessed all data gaps and uncertainties.</td> <td data-bbox="1024 1919 1174 1998">4.4</td> <td data-bbox="1174 1919 1404 1998">Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></td> </tr> </tbody> </table>	Conceptual site model	NEPM Sch B2	Provided in the CLID?	The CSM was prepared and presented in written format, and illustrated with suitable graphics and flow diagrams.	4.1	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	The complexity of the CSM corresponded to the scale and complexity of the known or potential contamination impacts.	4.1	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	The CSM was iteratively developed throughout the assessment process.	4.2	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	The CSM considered all essential elements.	4.3	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	The CSM identified and assessed all data gaps and uncertainties.	4.4	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Confirm that the CLID addresses referenced sections of the NEPM Schedules B1, B2, B3 and B6.

For the CLID to be in the approved form, the sampling program must have collected sufficient data to establish the nature and vertical and lateral extent of contamination in all relevant media. Where mobility of a contaminant is an issue, properties such as contaminant leachability and groundwater and soil vapour flow direction must be assessed.

For contaminants outside the scope of the NEPM, the general principles of site assessment in the NEPM should be followed supplemented by relevant State and National guidance.

In determining the likelihood of environmental harm being caused, assessment must incorporate identification of all relevant environmental values and associated prescribed environmental objectives for the contaminants.

Table B3 continues on next page

Table B3 Data collection and analysis—indicate in the table below whether the listed aspects are addressed in the CLID

Data collection	NEPM	Provided in the CLID?
Data quality objectives (DQOs) process has been followed and systematically developed and aligned with the objectives of the site assessment.	Sch B2 s5.2 & 18	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
A well-developed sampling and analysis quality plan was implemented.	Sch B2 s5.3	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Quality control checks and procedures were sufficient, and in adequate quantities, to measure the effects of all influences on sample integrity, accuracy and precision.	Sch B2 s5.4, s19 Sch B3	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
All potential contaminants of concern were adequately sampled and assessed in accordance with recognised guidelines, in locations indicated via site history and for all relevant media.	Sch B2 s5.5 Sch B3	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
The completeness, validity and usability of data was adequately assessed.	Sch B2 s5.6, s19 Sch B3	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
The sampling design and execution was appropriate for collecting sufficient and accurate quality assured data from all relevant media.	Sch B2 s6 to s9 & s19 Sch B3 Sch B6	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Assessment criteria were appropriate to determine the human health and ecological risks of the contamination and protection of any relevant groundwater resources.	Sch B1 Sch B6	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Assessment criteria included environmental objectives for environmental values as prescribed under the EP Act and subordinate legislation for the locality.	EP Act and other legislation	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

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<p>Table B3 continued</p>	<p>Table B3 (continued)</p> <table border="1"> <thead> <tr> <th data-bbox="545 371 1024 465">Data collection</th> <th data-bbox="1024 371 1177 465">NEPM Sch B2</th> <th data-bbox="1177 371 1406 465">Provided in the CLID?</th> </tr> </thead> <tbody> <tr> <td data-bbox="545 465 1024 712">The nature, and vertical and lateral extent of contamination has been established in all relevant media including off-site delineation if indicated by contaminant concentrations at the relevant land boundaries.</td> <td data-bbox="1024 465 1177 712">Sch B2 s6 to s11 Sch B6</td> <td data-bbox="1177 465 1406 712">Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></td> </tr> <tr> <td data-bbox="545 712 1024 904">Adequate Data Quality Indicators (DQIs) were established and an adequate assessment was carried out?</td> <td data-bbox="1024 712 1177 904">Sch B2 s13.1, s14, s19 Sch B3</td> <td data-bbox="1177 712 1406 904">Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></td> </tr> <tr> <td data-bbox="545 904 1024 1016">Statistical analysis (if applicable)</td> <td data-bbox="1024 904 1177 1016">Sch B2 s13.2</td> <td data-bbox="1177 904 1406 1016">Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/></td> </tr> </tbody> </table>	Data collection	NEPM Sch B2	Provided in the CLID?	The nature, and vertical and lateral extent of contamination has been established in all relevant media including off-site delineation if indicated by contaminant concentrations at the relevant land boundaries.	Sch B2 s6 to s11 Sch B6	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Adequate Data Quality Indicators (DQIs) were established and an adequate assessment was carried out?	Sch B2 s13.1, s14, s19 Sch B3	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Statistical analysis (if applicable)	Sch B2 s13.2	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>															
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Statistical analysis (if applicable)	Sch B2 s13.2	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>																										
	<p>If contaminant fate and transport modelling was undertaken, has it conformed with section 10 of the NEPM Schedule B2?</p> <p>Yes <input type="checkbox"/> No <input type="checkbox"/> Not applicable <input checked="" type="checkbox"/></p>																											
<p>Confirm that the CLID addresses section 14 of the NEPM Schedule B2.</p>	<p>Table B4 Report presentation—indicate in the table below whether the CLID addresses the report presentation requirements of section 14 of the NEPM Schedule B2</p> <table border="1"> <thead> <tr> <th data-bbox="545 1346 1024 1440">Report presentation</th> <th data-bbox="1024 1346 1177 1440">NEPM Sch B2</th> <th data-bbox="1177 1346 1406 1440">Addressed in the CLID?</th> </tr> </thead> <tbody> <tr> <td data-bbox="545 1440 1024 1496">Report presentation</td> <td data-bbox="1024 1440 1177 1496">14.2</td> <td data-bbox="1177 1440 1406 1496">Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></td> </tr> <tr> <td data-bbox="545 1496 1024 1552">Graphics presentation</td> <td data-bbox="1024 1496 1177 1552">14.3</td> <td data-bbox="1177 1496 1406 1552">Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></td> </tr> <tr> <td data-bbox="545 1552 1024 1608">Site plans</td> <td data-bbox="1024 1552 1177 1608">14.4</td> <td data-bbox="1177 1552 1406 1608">Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></td> </tr> <tr> <td data-bbox="545 1608 1024 1664">Contamination data</td> <td data-bbox="1024 1608 1177 1664">14.5</td> <td data-bbox="1177 1608 1406 1664">Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></td> </tr> <tr> <td data-bbox="545 1664 1024 1742">Tabulated laboratory analytical results</td> <td data-bbox="1024 1664 1177 1742">14.6</td> <td data-bbox="1177 1664 1406 1742">Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></td> </tr> <tr> <td data-bbox="545 1742 1024 1798">Bore logs and field records</td> <td data-bbox="1024 1742 1177 1798">14.7</td> <td data-bbox="1177 1742 1406 1798">Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></td> </tr> <tr> <td data-bbox="545 1798 1024 1854">Photography</td> <td data-bbox="1024 1798 1177 1854">14.8</td> <td data-bbox="1177 1798 1406 1854">Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></td> </tr> <tr> <td data-bbox="545 1854 1024 1910">QA/QC documentation included</td> <td data-bbox="1024 1854 1177 1910">14.9</td> <td data-bbox="1177 1854 1406 1910">Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></td> </tr> </tbody> </table>	Report presentation	NEPM Sch B2	Addressed in the CLID?	Report presentation	14.2	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Graphics presentation	14.3	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Site plans	14.4	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Contamination data	14.5	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Tabulated laboratory analytical results	14.6	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Bore logs and field records	14.7	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Photography	14.8	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	QA/QC documentation included	14.9	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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QA/QC documentation included	14.9	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																										

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<p>Confirm that the CLID addresses section 15 of the NEPM Schedule B2.</p>	<p>Has the environment been protected during all site assessment and excavation works and has it been documented in accordance with section 15 of the NEPM Schedule B2? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>										
<p>s.389 of the EP Act requires every CLID to include a site suitability statement— use a separate <i>Site suitability statement</i> template (ESR/2015/1857) for each lot.</p> <p>For ease of reference, <i>Site suitability statement</i> templates for each lot should be placed in an appendix of a CLID.</p> <p>Select in the adjacent box whether the site suitability statement proposes Outcome 1, 2, 3, or 4, and confirm where the CLID includes the statement(s).</p> <p>If a project site comprises multiple parcels of land, it is essential that every separate parcel of land has its own individual site suitability statement.</p> <p>Part B continues on next page</p>	<p>Table B5 Site suitability statement outcomes for land parcels</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width: 60%;">Lot on plan of land parcel</th> <th style="width: 40%;">Outcome for site suitability statement</th> </tr> </thead> <tbody> <tr> <td>105 on SP118458</td> <td>4</td> </tr> <tr> <td style="background-color: #e0ffff;"> </td> <td style="background-color: #e0ffff;"> </td> </tr> <tr> <td style="background-color: #e0ffff;"> </td> <td style="background-color: #e0ffff;"> </td> </tr> <tr> <td style="background-color: #e0ffff;"> </td> <td style="background-color: #e0ffff;"> </td> </tr> </tbody> </table> <p>Note: If more than four land parcels, attach a list of lots and outcomes: <input type="checkbox"/> List of more than four parcels attached</p> <p>Where in the CLID is/are the site suitability statement(s)?</p> <div style="background-color: #e0ffff; padding: 5px; border: 1px solid black;"> <p>PSI Section 10.5 - the DSI does not yet contain an updated statement.</p> </div>	Lot on plan of land parcel	Outcome for site suitability statement	105 on SP118458	4						
Lot on plan of land parcel	Outcome for site suitability statement										
105 on SP118458	4										

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<p>Section 389(2) of the EP Act requires a site investigation report or validation report to include the content summarised in the adjacent table. In the event that any of these statutory requirements are not applicable, the CLID must still address the matter. For example, include a statement in the CLID that waste was not stored, or earthworks were not carried out. Module 6 provides information on how to meet these statutory requirements.</p> <p>Subsections ss. 389(2)(iii)(A) to (E) require a description of the following in the surrounding area:</p> <ul style="list-style-type: none"> • all environmentally sensitive areas • the location of all water, watercourses and wetlands • the location of all stormwater drainage • all uses of the land, including uses that may affect the safety of the relevant land or cause environmental harm • all activities carried out that may affect the safety of the relevant land or cause environmental harm <p>For waste disposed of or stored on the land that contains, or may potentially contain, hazardous contaminants, subsections ss. 389(2)(iii)(A) and (B) require:</p> <ul style="list-style-type: none"> • details of the location, volume and type of waste • details of any potential contamination of the land caused by disposing of or storing the waste on the land. 	<p>For a site investigation report or validation report</p> <p>Table B6 Confirm the CLID provides the following content required by s. 389(2) of the EP Act</p> <table border="1"> <thead> <tr> <th data-bbox="542 459 1037 571">Summary of statutory requirements for a site investigation report or validation report</th> <th data-bbox="1045 459 1189 571">s. 389 subject</th> <th data-bbox="1197 459 1396 571">Provided in the CLID?</th> </tr> </thead> <tbody> <tr> <td data-bbox="542 582 1037 660">Reasons the land's particulars are recorded in a relevant land register.</td> <td data-bbox="1045 582 1189 660">(2)(a)(i)</td> <td data-bbox="1197 582 1396 660">Yes <input checked="" type="checkbox"/></td> </tr> <tr> <td data-bbox="542 672 1037 750">Description of all surface and subsurface infrastructure on the land.</td> <td data-bbox="1045 672 1189 750">(2)(a)(ii)</td> <td data-bbox="1197 672 1396 750">Yes <input checked="" type="checkbox"/></td> </tr> <tr> <td data-bbox="542 761 1037 862">Description of the surrounding area, including each of the matters required by subsections ss. 389(2)(iii)(A) to (E).</td> <td data-bbox="1045 761 1189 862">(2)(a)(iii) (A) to (E)</td> <td data-bbox="1197 761 1396 862">Yes <input checked="" type="checkbox"/></td> </tr> <tr> <td data-bbox="542 873 1037 1008">Details of waste disposed of or stored on the land, including each of the matters required by subsections ss. 389(2)(iv)(A) and (B).</td> <td data-bbox="1045 873 1189 1008">(2)(a)(iv) (A) & (B)</td> <td data-bbox="1197 873 1396 1008">Yes <input checked="" type="checkbox"/></td> </tr> <tr> <td data-bbox="542 1019 1037 1097">Description of the geology and hydrogeology of the land.</td> <td data-bbox="1045 1019 1189 1097">(2)(a)(v)</td> <td data-bbox="1197 1019 1396 1097">Yes <input checked="" type="checkbox"/></td> </tr> <tr> <td data-bbox="542 1108 1037 1276">Details of any environmentally relevant activities or notifiable activities carried out on the land, including materials used and waste produced during the activities.</td> <td data-bbox="1045 1108 1189 1276">(2)(a)(vi)</td> <td data-bbox="1197 1108 1396 1276">Yes <input checked="" type="checkbox"/></td> </tr> <tr> <td data-bbox="542 1288 1037 1422">Details of any earthworks carried out on the land, including the materials used and waste produced during the earthworks.</td> <td data-bbox="1045 1288 1189 1422">(2)(a)(vii)</td> <td data-bbox="1197 1288 1396 1422">Yes <input checked="" type="checkbox"/></td> </tr> <tr> <td data-bbox="542 1433 1037 1512">Contamination levels before and after any remediation work on the land.</td> <td data-bbox="1045 1433 1189 1512">(2)(a)(viii)</td> <td data-bbox="1197 1433 1396 1512">Yes <input checked="" type="checkbox"/></td> </tr> <tr> <td data-bbox="542 1523 1037 1590">A statement of whether the land is prescribed contaminated land.</td> <td data-bbox="1045 1523 1189 1590">(2)(c)(i)</td> <td data-bbox="1197 1523 1396 1590">Yes <input type="checkbox"/></td> </tr> <tr> <td data-bbox="542 1601 1037 1702">If the land is contaminated, a statement of the extent to which the land is contaminated.</td> <td data-bbox="1045 1601 1189 1702">(2)(c)(ii)</td> <td data-bbox="1197 1601 1396 1702">Yes <input checked="" type="checkbox"/> N/A <input type="checkbox"/></td> </tr> </tbody> </table>	Summary of statutory requirements for a site investigation report or validation report	s. 389 subject	Provided in the CLID?	Reasons the land's particulars are recorded in a relevant land register.	(2)(a)(i)	Yes <input checked="" type="checkbox"/>	Description of all surface and subsurface infrastructure on the land.	(2)(a)(ii)	Yes <input checked="" type="checkbox"/>	Description of the surrounding area, including each of the matters required by subsections ss. 389(2)(iii)(A) to (E).	(2)(a)(iii) (A) to (E)	Yes <input checked="" type="checkbox"/>	Details of waste disposed of or stored on the land, including each of the matters required by subsections ss. 389(2)(iv)(A) and (B).	(2)(a)(iv) (A) & (B)	Yes <input checked="" type="checkbox"/>	Description of the geology and hydrogeology of the land.	(2)(a)(v)	Yes <input checked="" type="checkbox"/>	Details of any environmentally relevant activities or notifiable activities carried out on the land, including materials used and waste produced during the activities.	(2)(a)(vi)	Yes <input checked="" type="checkbox"/>	Details of any earthworks carried out on the land, including the materials used and waste produced during the earthworks.	(2)(a)(vii)	Yes <input checked="" type="checkbox"/>	Contamination levels before and after any remediation work on the land.	(2)(a)(viii)	Yes <input checked="" type="checkbox"/>	A statement of whether the land is prescribed contaminated land.	(2)(c)(i)	Yes <input type="checkbox"/>	If the land is contaminated, a statement of the extent to which the land is contaminated.	(2)(c)(ii)	Yes <input checked="" type="checkbox"/> N/A <input type="checkbox"/>
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Reasons the land's particulars are recorded in a relevant land register.	(2)(a)(i)	Yes <input checked="" type="checkbox"/>																																
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Description of the surrounding area, including each of the matters required by subsections ss. 389(2)(iii)(A) to (E).	(2)(a)(iii) (A) to (E)	Yes <input checked="" type="checkbox"/>																																
Details of waste disposed of or stored on the land, including each of the matters required by subsections ss. 389(2)(iv)(A) and (B).	(2)(a)(iv) (A) & (B)	Yes <input checked="" type="checkbox"/>																																
Description of the geology and hydrogeology of the land.	(2)(a)(v)	Yes <input checked="" type="checkbox"/>																																
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If the land is contaminated, a statement of the extent to which the land is contaminated.	(2)(c)(ii)	Yes <input checked="" type="checkbox"/> N/A <input type="checkbox"/>																																

Contaminated land investigation document

Section 389(3) of the EP Act requires a draft SMP to include the content listed in Table B7. If the CLID is not a draft SMP, tick the box above the adjacent table and move on the last row of Part B. Otherwise, complete this page.

* Use a *Site suitability statement* template (ESR/2015/1857) for each lot and place them in a CLID appendix.

Each lot's draft SMP should include relevant text from its *Site suitability statement* that clearly communicates the permitted use of the land.

A site subject to a SMP is *prescribed contaminated land* since contamination is present that may cause environmental harm if not adequately managed.

The CLID must clearly illustrate the extent to which the land is contaminated, both in area and depth, and extent of any water contamination.

A SMP is not appropriate if the contamination is not adequately understood, or the methods and control measures stated in the SMP are insufficient to prevent the site contributing to off-site contamination that is, or may, cause environmental harm. The definition of *land* in the EP Act, includes airspace above land, land that is at any time covered by waters, and waters.

If the draft SMP is prepared by a person other than the land's owner, s. 390(5) of the EP Act requires the plan to be accompanied by a statement by the land's owner agreeing to the draft plan.

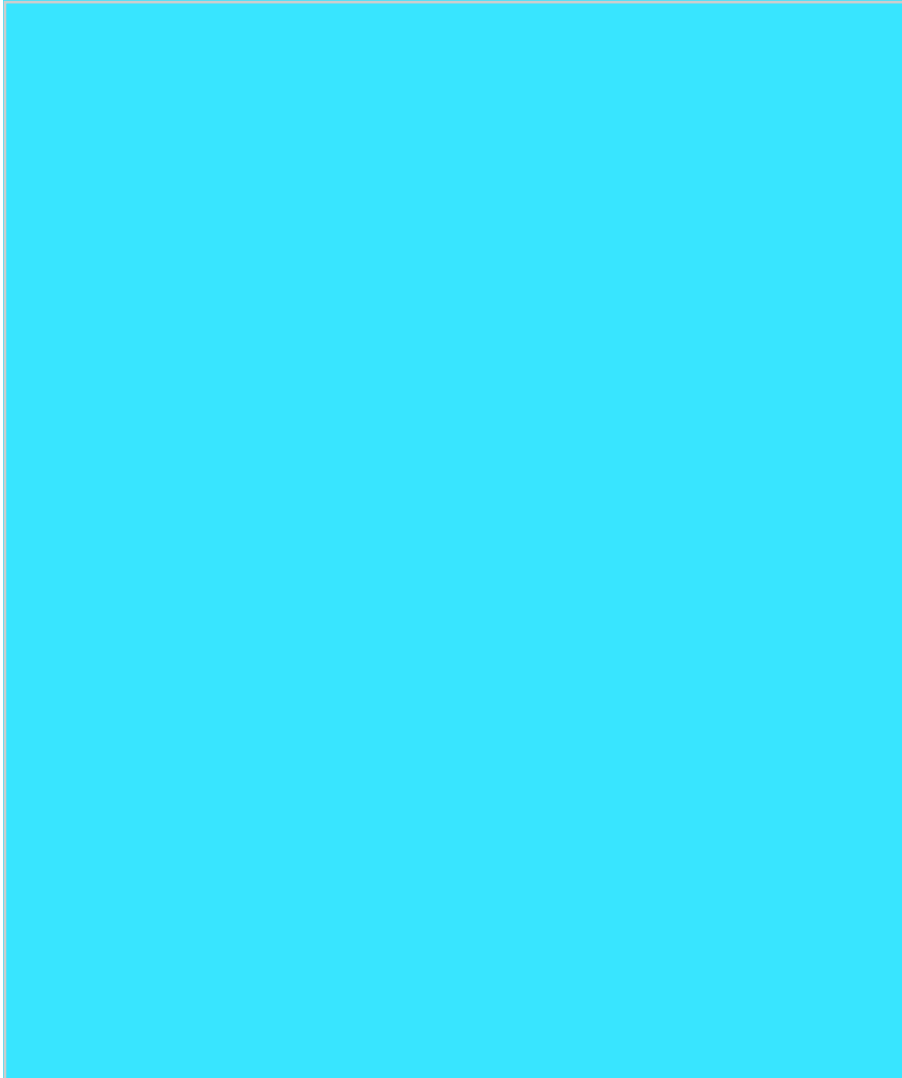
CLID is not a draft site management plan (SMP): OR

Table B7 Confirm the CLID provides the following content for a draft site management plan required by s. 389(3) of the EP Act

Summary of statutory requirements for a draft site management plan	s. 389 subject	Provided in the CLID?
The proposed objectives to be achieved and maintained under the plan.	(3)(a)(i)	Yes <input type="checkbox"/>
The proposed methods for achieving and maintaining the objectives.	(3)(a)(ii)	Yes <input type="checkbox"/>
The proposed monitoring and reporting compliance measures for the land.	(3)(a)(iii)	Yes <input type="checkbox"/>
*Site suitability statement(s)	(3)(b)	Yes <input type="checkbox"/>
A statement of whether the land is prescribed contaminated land.	(3)(c)(i)	Yes <input type="checkbox"/>
If the land is contaminated— a statement of the extent to which the land is contaminated.	(3)(c)(ii)	Yes <input type="checkbox"/>
A statement of whether the proposed objectives, methods and measures stated in the plan are appropriate.	(3)(c)(iii)	Yes <input type="checkbox"/>
A reference to, and a copy of, the site investigation report or validation report that relates to the draft site management plan.	(3)(d)	Yes <input type="checkbox"/>
A description of the source, cause and extent of environmental harm to be managed under the plan.	(3)(e)	Yes <input type="checkbox"/>

Was the draft site management plan prepared by a person other than the land's owner? Yes No

If Yes, is a statement by the land's owner agreeing to the draft plan submitted? Yes No

<p>If you believe there are reasons for submitting a CLID that does not meet all the content requirements of Part B, provide an explanation here.</p>	<p>If any of the content requirements in Part B are clicked 'No', provide a full explanation of why you think it is acceptable to submit the CLID:</p> 
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End of Part B

Contaminated land investigation document

PART C—DECLARATIONS BY THE SUITABLY QUALIFIED PERSON AND THE RELEVANT PERSON			
<p>Section 566 of the EP Act requires the suitably qualified person(s) to make this declaration.</p> <p>NEPM Schedule B9 and DES Guideline - <i>Assessing a Suitably Qualified Person</i> should be referred to when determining whether a person is suitably qualified to perform these regulatory functions.</p> <p>The SQP responsible for the CLID must complete Appendix 1 before signing the declaration.</p> <p>Any additional SQP(s) who conducted technical professional services in support of the responsible SQP must complete the separate <i>Professional Support Team – Suitably qualified person declaration</i> form and submit it as part of the CLID submission.</p>	<p>DECLARATION BY THE SUITABLY QUALIFIED PERSON</p> <p>I, _____, declare that with regard to the submitted contaminated land investigation document:</p> <ul style="list-style-type: none"> • I have the qualifications and experience relevant to preparing the submitted contaminated land investigation document. I have provided evidence of my qualifications and experience in Appendix 1 of this form. • I have not knowingly included false, misleading or incomplete information in the document. • I have not knowingly failed to reveal any relevant information or document to the administering authority. • The document addresses the relevant matters for the contaminated land investigation and is factually correct. • The opinions expressed in the document are honestly and reasonably held. <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <tr> <td style="width: 60%; padding: 5px;">Signature: <div style="border: 1px solid black; height: 25px; width: 100%;"></div></td> <td style="width: 40%; padding: 5px;">Date: <div style="border: 1px solid black; height: 25px; width: 100%; background-color: #00FFFF;"></div></td> </tr> </table>	Signature: <div style="border: 1px solid black; height: 25px; width: 100%;"></div>	Date: <div style="border: 1px solid black; height: 25px; width: 100%; background-color: #00FFFF;"></div>
Signature: <div style="border: 1px solid black; height: 25px; width: 100%;"></div>	Date: <div style="border: 1px solid black; height: 25px; width: 100%; background-color: #00FFFF;"></div>		
<p>Section 390(2) of the EP Act requires the relevant person to make this declaration.</p> <p>The relevant person must complete Appendix 2 before submitting this form.</p>	<p>DECLARATION BY THE RELEVANT PERSON</p> <p>I, _____, declare that:</p> <ul style="list-style-type: none"> • I have not knowingly given any false or misleading information to the auditor who certified the document; and • I have given all relevant information to the auditor; and <p><input type="checkbox"/> I am the land's owner, or</p> <p><input type="checkbox"/> As I am not the land's owner, I have given a copy of the contaminated land investigation document to the land's owner</p> <ul style="list-style-type: none"> • I understand that all information supplied on or with this form may be disclosed publicly in accordance with the <i>Right to Information Act 2009</i> and the <i>Evidence Act 1977</i>. <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <tr> <td style="width: 60%; padding: 5px;">Signature: <div style="border: 1px solid black; height: 25px; width: 100%;"></div></td> <td style="width: 40%; padding: 5px;">Date: <div style="border: 1px solid black; height: 25px; width: 100%; background-color: #00FFFF;"></div></td> </tr> </table>	Signature: <div style="border: 1px solid black; height: 25px; width: 100%;"></div>	Date: <div style="border: 1px solid black; height: 25px; width: 100%; background-color: #00FFFF;"></div>
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End of Part C			

Contaminated land investigation document

AUDITOR'S CERTIFICATION AND DECLARATION																																					
<p>Section 389(4)(b) of the EP Act requires the auditor to verify their certification. Part D of this form together with the audit report comprise the approved form for the certification.</p> <p>The site investigation report or validation report must comply with all subsections of s. 389(2) of the EP Act and be in the approved form for submission. If any statutory requirements are not applicable, the CLID must still address the matter. If the auditor finds any part(s) of the CLID do not comply, they must return the CLID to the relevant person and the SQP to be amended to comply before the auditor reassesses it.</p> <p>Subsections ss. 389(2)(iii)(A) to (E) require a description of the following in the surrounding area:</p> <ul style="list-style-type: none"> • all environmentally sensitive areas • the location of all water, watercourses and wetlands • the location of all stormwater drainage • all uses of the land, including uses that may affect the safety of the relevant land or cause environmental harm • all activities carried out that may affect the safety of the relevant land or cause environmental harm <p>Details for s. 389(2)(iv) must include the location, volume and waste type.</p> <p>Details of any environmentally relevant activities or notifiable activities carried out on the land must including materials used and waste produced during the activities.</p>	<p>For a site investigation report or validation report, I verify, and provide evidence in my auditor's report, which has been prepared in accordance with the <i>Queensland Auditor Handbook for Contaminated Land</i>, that I agree with the outcome in the site suitability statement for each lot and that the CLID complies with the statutory requirements of the subsections of s.389(2) of the EP Act listed in Table D3 below.</p> <p>Table D3 Requirements of s. 389(2) of the EP Act</p> <table border="1"> <thead> <tr> <th style="background-color: #cccccc;">Summary of statutory requirements for a site investigation report or validation report</th> <th style="background-color: #cccccc;">s. 389 subject</th> <th style="background-color: #cccccc;">CLID complies with subsections of s. 389(2)</th> </tr> </thead> <tbody> <tr> <td>Reasons the land's particulars are recorded in a relevant land register.</td> <td>(2)(a)(i)</td> <td>Yes <input type="checkbox"/></td> </tr> <tr> <td>Description of all surface and subsurface infrastructure on the land.</td> <td>(2)(a)(ii)</td> <td>Yes <input type="checkbox"/></td> </tr> <tr> <td>Description of the necessary matters in the surrounding area.</td> <td>(2)(a)(iii) (A) to (E)</td> <td>Yes <input type="checkbox"/></td> </tr> <tr> <td>Details of waste disposed of or stored on the land, including any potential contamination.</td> <td>(2)(a)(iv) (A) & (B)</td> <td>Yes <input type="checkbox"/></td> </tr> <tr> <td>Description of the geology and hydrogeology of the land.</td> <td>(2)(a)(v)</td> <td>Yes <input type="checkbox"/></td> </tr> <tr> <td>Details of any environmentally relevant activities or notifiable activities carried out on the land.</td> <td>(2)(a)(vi)</td> <td>Yes <input type="checkbox"/></td> </tr> <tr> <td>Details of any earthworks carried out on the land, including the materials used and waste produced during the earthworks.</td> <td>(2)(a)(vii)</td> <td>Yes <input type="checkbox"/></td> </tr> <tr> <td>Contamination levels before and after any remediation work on the land.</td> <td>(2)(a)(viii)</td> <td>Yes <input type="checkbox"/></td> </tr> <tr> <td>Site suitability statement(s).</td> <td>(2)(b)</td> <td>Yes <input type="checkbox"/></td> </tr> <tr> <td>A statement of whether the land is prescribed contaminated land.</td> <td>(2)(c)(i)</td> <td>Yes <input type="checkbox"/></td> </tr> <tr> <td>If the land is contaminated, a statement of the extent to which the land is contaminated.</td> <td>(2)(c)(ii)</td> <td>Yes <input type="checkbox"/> N/A <input type="checkbox"/></td> </tr> </tbody> </table>	Summary of statutory requirements for a site investigation report or validation report	s. 389 subject	CLID complies with subsections of s. 389(2)	Reasons the land's particulars are recorded in a relevant land register.	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Contaminated land investigation document

<p>If the CLID is not a draft SMP, tick the box to the right and move on to Table D5. Otherwise, complete Table D4 to verify whether the draft SMP complies with the requirements of s. 389(3).</p> <p>A draft SMP must provide for the effective management of the environmental harm that may be caused by the hazardous contaminants contaminating the land by applying conditions to the use or development of, or activities carried out on, the land (s.370).</p> <p>A site subject to a SMP is <i>prescribed contaminated land</i> since contamination is present that may cause environmental harm if not adequately managed. The CLID must clearly illustrate the extent to which the land is contaminated both in area and depth, and extent of any water contamination.</p> <p>A SMP is not appropriate if the contamination is not adequately understood, or the methods and control measures stated in the SMP are insufficient to prevent the site contributing to off-site contamination that is, or may, cause environmental harm.</p> <p>Methods and measures must be in the form of conditions. The conditions must be certain, final, specify relevant time frames and clearly state what must be done or not done.</p> <p>If the auditor finds any part(s) of the draft SMP do not comply, they must return the draft SMP to the relevant person and the SQP to be amended to comply before the auditor reassesses it.</p>	<p>CLID is not a draft site management plan (SMP): <input type="checkbox"/> OR</p> <p>I verify, and provide evidence in my auditor's report, which has been prepared in accordance with the <i>Queensland Auditor Handbook for Contaminated Land</i>, that I agree with the site suitability statement and draft site management plan for each lot.</p> <p>I verify that the draft site management plan(s) complies with the statutory requirements of the subsections of s. 389(3) of the EP Act listed in Table D4 below.</p> <p>Table D4 Requirements of s. 389(3) of the EP Act</p> <table border="1"> <thead> <tr> <th>Summary of statutory requirements for a draft site management plan</th> <th>s. 389 subject</th> <th>CLID complies with subsections of s. 389(3)</th> </tr> </thead> <tbody> <tr> <td>The proposed objectives to be achieved and maintained under the plan.</td> <td>(3)(a)(i)</td> <td>Yes <input type="checkbox"/></td> </tr> <tr> <td>The proposed methods for achieving and maintaining the objectives.</td> <td>(3)(a)(ii)</td> <td>Yes <input type="checkbox"/></td> </tr> <tr> <td>The proposed monitoring and reporting compliance measures for the land.</td> <td>(3)(a)(iii)</td> <td>Yes <input type="checkbox"/></td> </tr> <tr> <td>Site suitability statement(s)</td> <td>(3)(b)</td> <td>Yes <input type="checkbox"/></td> </tr> <tr> <td>A statement of whether the land is prescribed contaminated land.</td> <td>(3)(c)(i)</td> <td>Yes <input type="checkbox"/></td> </tr> <tr> <td>If the land is contaminated— a statement of the extent to which the land is contaminated.</td> <td>(3)(c)(ii)</td> <td>Yes <input type="checkbox"/></td> </tr> <tr> <td>A statement of whether the proposed objectives, methods and measures stated in the plan are appropriate</td> <td>(3)(c)(iii)</td> <td>Yes <input type="checkbox"/></td> </tr> <tr> <td>A reference to, and a copy of, the site investigation report or validation report that relates to the draft site management plan.</td> <td>(3)(d)</td> <td>Yes <input type="checkbox"/></td> </tr> <tr> <td>A description of the source, cause and extent of environmental harm to be managed under the plan.</td> <td>(3)(e)</td> <td>Yes <input type="checkbox"/></td> </tr> </tbody> </table>	Summary of statutory requirements for a draft site management plan	s. 389 subject	CLID complies with subsections of s. 389(3)	The proposed objectives to be achieved and maintained under the plan.	(3)(a)(i)	Yes <input type="checkbox"/>	The proposed methods for achieving and maintaining the objectives.	(3)(a)(ii)	Yes <input type="checkbox"/>	The proposed monitoring and reporting compliance measures for the land.	(3)(a)(iii)	Yes <input type="checkbox"/>	Site suitability statement(s)	(3)(b)	Yes <input type="checkbox"/>	A statement of whether the land is prescribed contaminated land.	(3)(c)(i)	Yes <input type="checkbox"/>	If the land is contaminated— a statement of the extent to which the land is contaminated.	(3)(c)(ii)	Yes <input type="checkbox"/>	A statement of whether the proposed objectives, methods and measures stated in the plan are appropriate	(3)(c)(iii)	Yes <input type="checkbox"/>	A reference to, and a copy of, the site investigation report or validation report that relates to the draft site management plan.	(3)(d)	Yes <input type="checkbox"/>	A description of the source, cause and extent of environmental harm to be managed under the plan.	(3)(e)	Yes <input type="checkbox"/>
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<p>For the auditor's certification to be in the approved form, the auditor must also complete Table D5. For this table, a CLID may be either a site investigation report or a validation report. If the auditor finds any part(s) of the CLID do not comply, and that they cannot tick 'Yes' to one or more rows in the adjacent table, they must return the CLID to the relevant person and the SQP to be amended to comply before the auditor reassesses it.</p> <p>The auditor may only tick "NA" in Table D5 where sampling was not conducted as part of the investigation.</p>	<p>I verify that I have undertaken my own assessment and provided evidence in my auditor's report, which has been prepared in accordance with the <i>Queensland Auditor Handbook for Contaminated Land</i>, how the CLID adequately addresses the matters mentioned in Table D5 below.</p> <p>Table D5 Approved form requirements</p> <table border="1"> <thead> <tr> <th>Approved form requirements</th> <th>Verification</th> </tr> </thead> <tbody> <tr> <td>Sufficient evidence is available to demonstrate that the consultant(s) who prepared the CLID is/are Suitably Qualified Person(s) under the provisions of s. 564 of the EP Act.</td> <td>Yes <input type="checkbox"/></td> </tr> <tr> <td>The site history in the CLID has been completed in accordance with section 3.3 of the NEPM Schedule B2.</td> <td>Yes <input type="checkbox"/></td> </tr> <tr> <td>The CLID adequately describes the environmental setting in accordance with section 3.4 of the NEPM Schedule B2.</td> <td>Yes <input type="checkbox"/></td> </tr> <tr> <td>The CLID adequately describes the local geology and hydrology in accordance with section 3.5 of the NEPM Schedule B2.</td> <td>Yes <input type="checkbox"/></td> </tr> <tr> <td>The CLID adequately assigns and describes relevant environmental values of surface waters, wetlands and groundwaters and objectives for the values prescribed under the EP Act and the <i>Environmental Protection (Water and Wetland Biodiversity) Policy 2019</i>.</td> <td>Yes <input type="checkbox"/></td> </tr> <tr> <td>Site inspections described in the CLID were sufficient and adequately undertaken in accordance with section 3.6 of the NEPM Schedule B2.</td> <td>Yes <input type="checkbox"/></td> </tr> <tr> <td>The conceptual site model in the CLID has been completed in accordance with section 4 of the NEPM Schedule B2.</td> <td>Yes <input type="checkbox"/></td> </tr> <tr> <td>The conceptual site model in the CLID adequately assessed all sources, exposure pathways and receptors in order to accurately assess the risks to human health and the environment.</td> <td>Yes <input type="checkbox"/></td> </tr> <tr> <td>Data collection for the CLID has been completed in accordance with the NEPM Schedules B1, B2, B3 and B6.</td> <td>Yes <input type="checkbox"/> N/A <input type="checkbox"/></td> </tr> <tr> <td>Sampling design and methodology outlined in the CLID is appropriate and has assessed all relevant media in accordance with the NEPM Schedules B1, B2, B3 and B6.</td> <td>Yes <input type="checkbox"/> N/A <input type="checkbox"/></td> </tr> <tr> <td>Contaminant fate and transport modelling for the CLID was adequate for assessing risks and has been completed in accordance with section 10 of the NEPM Schedule B2, if applicable.</td> <td>Yes <input type="checkbox"/> N/A <input type="checkbox"/></td> </tr> </tbody> </table>	Approved form requirements	Verification	Sufficient evidence is available to demonstrate that the consultant(s) who prepared the CLID is/are Suitably Qualified Person(s) under the provisions of s. 564 of the EP Act.	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Table D5 continues on next page

Contaminated land investigation document

Table D5 continued	<p>Table D5 continued</p> <table border="1"> <thead> <tr> <th data-bbox="545 369 1235 421">Approved form requirements</th> <th data-bbox="1235 369 1425 421">Verification</th> </tr> </thead> <tbody> <tr> <td data-bbox="545 421 1235 568">Data analysis for the CLID has been completed in accordance with the NEPM Schedules B1, B2, B3 and B6, Australian Standards, and any other relevant NEPM or guidelines.</td> <td data-bbox="1235 421 1425 568">Yes <input type="checkbox"/> N/A <input type="checkbox"/></td> </tr> <tr> <td data-bbox="545 568 1235 685">Report presentation for the CLID has been completed in accordance with section 14 of the NEPM Schedule B2.</td> <td data-bbox="1235 568 1425 685">Yes <input type="checkbox"/></td> </tr> <tr> <td data-bbox="545 685 1235 801">The CLID demonstrates that the environment was protected during site assessment in accordance with section 15 of the NEPM Schedule B2.</td> <td data-bbox="1235 685 1425 801">Yes <input type="checkbox"/> N/A <input type="checkbox"/></td> </tr> <tr> <td data-bbox="545 801 1235 882">I agree with the prescribed contaminated land statement made in the CLID for each lot.</td> <td data-bbox="1235 801 1425 882">Yes <input type="checkbox"/></td> </tr> <tr> <td data-bbox="545 882 1235 963">I agree with the statement made in the CLID regarding the extent to which the land is contaminated.</td> <td data-bbox="1235 882 1425 963">Yes <input type="checkbox"/></td> </tr> <tr> <td data-bbox="545 963 1235 1146">For contaminants outside the scope of the NEPM, the general principles of site assessment in the NEPM have been complied with and supplementary assessment carried out consistent with relevant State and National guidance.</td> <td data-bbox="1235 963 1425 1146">Yes <input type="checkbox"/> N/A <input type="checkbox"/></td> </tr> <tr> <td data-bbox="545 1146 1235 1263">The CLID accurately assesses all risks of environmental harm to human health and the environment associated with the contamination.</td> <td data-bbox="1235 1146 1425 1263">Yes <input type="checkbox"/></td> </tr> <tr> <td data-bbox="545 1263 1235 1447">My audit report details the findings from my site inspections, including my observations with respect to verifying relevant site data, witnessing and/or verifying field methodologies, sample integrity, data collection and SQP suitability.</td> <td data-bbox="1235 1263 1425 1447">Yes <input type="checkbox"/></td> </tr> <tr> <td data-bbox="545 1447 1235 1653">My audit report references the evidence on which my findings were based and explains and justifies my decisions. My audit report also evaluates any deviations of the CLID from the NEPM in the context of whether the deviations affected the quality of investigations, integrity of results, or decisions made.</td> <td data-bbox="1235 1447 1425 1653">Yes <input type="checkbox"/></td> </tr> <tr> <td data-bbox="545 1653 1235 1836">For a draft SMP, I agree that the proposed objectives, methods to achieve and maintain the objectives and associated monitoring and reporting measures are adequate to ensure the contamination does not cause a risk of environmental harm on- or off-site.</td> <td data-bbox="1235 1653 1425 1836">Yes <input type="checkbox"/> <input type="checkbox"/> N/A - CLID is not a draft SMP</td> </tr> </tbody> </table>	Approved form requirements	Verification	Data analysis for the CLID has been completed in accordance with the NEPM Schedules B1, B2, B3 and B6, Australian Standards, and any other relevant NEPM or guidelines.	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Contaminated land investigation document

<p>In accordance with ss. 389(4)(b) and 574C(2) of the EP Act, the auditor must sign the adjacent certification and declaration.</p> <p>Note that to be in the approved form, the auditor's certification must be accompanied by an audit report prepared in accordance with the advice in Module 6 of the <i>Queensland auditor handbook for contaminated land</i>.</p> <p>Sections 480, 480A, 481 and 574M of the EP Act make it an offence for an auditor to give a false, misleading or incomplete document, or false and misleading information, to the administering authority.</p>	<p>I, , in accordance with s. 389(4)(b) of the <i>Environmental Protection Act 1994</i>, verify that:</p> <ul style="list-style-type: none"> for a site investigation report or validation report, the document complies with s. 389(2) as confirmed in the tables above. for a draft site management plan, the document complies with s. 389(3) as confirmed in the tables above. <p>I have included an auditor's report that verifies in detail how the CLID meets the statutory requirements and is in the approved form.</p> <p>I declare, in accordance with s. 574C(2) of the <i>Environmental Protection Act 1994</i>, that:</p> <ul style="list-style-type: none"> • I am approved as an auditor to prepare an auditor's certification under s. 568(b) of the <i>Environmental Protection Act 1994</i>, and have been approved while undertaking all work associated with that function for the submitted CLID. • I have the qualifications and experience relevant to the certification. • I have not knowingly given any false, misleading or incomplete information in my audit report or certification. • I have not knowingly failed to reveal any relevant information or document to the administering authority. • My audit report and certification are factually correct. • The opinions expressed in the document are honestly and reasonably held. <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <tr> <td style="width: 60%; padding: 5px;">Signature:</td> <td style="width: 40%; padding: 5px;">Date:</td> </tr> <tr> <td style="width: 60%; padding: 5px;"><div style="border: 1px solid black; height: 30px; width: 100%;"></div></td> <td style="width: 40%; padding: 5px;"><div style="background-color: #00FFFF; width: 100%; height: 20px;"></div></td> </tr> </table>	Signature:	Date:	<div style="border: 1px solid black; height: 30px; width: 100%;"></div>	<div style="background-color: #00FFFF; width: 100%; height: 20px;"></div>
Signature:	Date:				
<div style="border: 1px solid black; height: 30px; width: 100%;"></div>	<div style="background-color: #00FFFF; width: 100%; height: 20px;"></div>				

End of Part D

Appendix 1—Evidence of the SQP’s qualifications and experience

1. In accordance with Schedule 14 of the *Environmental Protection Regulation 2019*, the SQP responsible for the CLID provides the following details of their prescribed organisation membership:

Prescribed organisation [redacted]
Membership type [redacted]
Date membership renewal is due [redacted]

2. **Relevant qualifications of the SQP responsible for the CLID**

Identified knowledge area required for the investigation	Name of degree or post graduate qualifications (and major discipline of study if relevant)	Institution conferring the degree	Year of completion
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]

If necessary, attach a list of additional qualifications.

3. **SQP’s³ past projects demonstrating experience in the knowledge area(s) relevant to this CLID**

Identified knowledge area required	Hazardous contaminant and/or notifiable activity	Lot on plan	State	Role in project ¹	Date completed	Regulatory function (if applicable) ²
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]

Contaminated land investigation document

Identified knowledge area required	Hazardous contaminant and/or notifiable activity	Lot on plan	State	Role in project ¹	Date completed	Regulatory function (if applicable) ²

Notes:

- 1) The SQP should be able to demonstrate at least three years' experience in contaminated land assessment and management, and demonstrate professionally competent application of that experience. The examples must be relevant to the characteristics of the site that is the subject of this submitted CLID (see the department's guideline *Assessing a suitably qualified person* (ESR/2016/1938)).
- 2) The regulatory function may be either conducting a site investigation, preparing a site investigation, or a validation report, or a draft site management plan or a draft amended SMP (see s. 564 of the EP Act).
- 3) Any additional SQP(s) who conducted technical professional services in support of the responsible SQP must complete a separate *Professional Support Team – Suitably qualified person declaration* form (ESR/2015/1856) and submit it as part of the CLID submission.

Contaminated land investigation document

Appendix 2—Submission checklist

This submission checklist sets the minimum requirements for items to be provided with the approved form to ensure it is complete. The *relevant person* should check that all required information is included using the boxes below.

- The entire contaminated land investigation document (CLID). Use the box at the end of Appendix 2 to list any other reports that make up the submission that are not located within an appendix of the CLID.
- A site plan and/or relevant survey plan(s) that includes site boundaries, scale, north arrow is included in either (complete the relevant box(es)):
 - page no. of the document called , or
 - included separately with the CLID submission
- A copy of a current title search (the search must have been undertaken no more than one month prior to submitting the CLID)
- Site suitability statement(s) are located in an appendix of the CLID
- Did technical professional support SQP(s) assist the SQP responsible for the CLID?
 - No—no support SQP employed, or
 - Yes—every support SQP(s) declaration(s) are included with the CLID submission (ESR/2015/1856)
- Audit report supporting the auditor’s certification
- Did support expert(s) assist the auditor?
 - No—no support expert employed, or
 - Yes—every support expert’s report is included as part of the auditor’s report; and
 - Yes —every support expert has completed a statement (ESR/2015/1859) which is included with the CLID submission
- If the CLID is a draft SMP, it is provided in an unlocked Word document format
- If the CLID is a draft SMP, is the relevant person who submits the CLID the land owner?
 - relevant person is the land owner —land owner’s agreement to draft SMP or draft amended SMP is not needed
 - relevant person is not the land owner—land owner’s agreement to the draft SMP or draft amended SMP is included in either:
 - page no. of the document called , or
 - included separately with the CLID submission

Contaminated land investigation document

<p>List all the documents, reports, statements, declarations, etc., excluding this form, that accompany the CLID but are not included as an appendix of the CLID.</p> <p>See Appendix 3 for conventions and formats for submitting electronic CLID applications.</p>	<p>The documents listed below are necessary parts of this submission:</p> 
--	---

End of submission checklist

Appendix 3—How to submit a contaminated land investigation document and mandatory supporting information

For efficiency, it is preferred that the contaminated land investigation document and all mandatory supporting information is provided electronically via email. However, a hard copy is also accepted. Submission should be sent to:

Email: palm@des.qld.gov.au

(please see conventions for submitting by email below)

Mail:

Permit and Licence Management
Department of Environment and Science
GPO Box 2454
BRISBANE QLD 4001

To allow for components of the contaminated land investigation document and mandatory supporting information to be readily identified and to avoid administrative delay, be sure to abide by the following conventions:

Conventions for all documents:

- Each document is to be given a unique title or name, incorporating their date of completion (in dd_mm_yyyy format).
- Pages in each document are to be numbered consecutively.
- Page size is to be set to the ISO A-series standard.
- Resolution of PDF file should not be lower than 300 dots per inch.
- Where practicable, any attachments, such as photos, figures or maps, are to be included as part of the primary document.
- Both colour and black and white information should be able to be appropriately reproduced.

Conventions for electronic files via email:

- Any submission via email that would exceed 50MB will need to be broken down into separate emails, with each email clearly labelled Part X of X (e.g. Part 1 of 2) in the subject line of the email.
- A site investigation report or validation report and the mandatory supporting information should be provided as one or more electronic documents in a searchable PDF file (i.e. portable document format).
- Files should not be encrypted or require password access or be dependent on external attachments for legibility.
- Where a site investigation report or validation report is composed of one document, the name of the PDF file should include 'Site investigation report' or 'Validation report'.
- Where a site investigation report or validation report is comprised of more than one document, each attachment should be named in the following manner:

<Component of the CLID (e.g. Site investigation report or validation report)>_Part X of X (e.g. Part 1 of 2) _<Title of the document that directly corresponds to the title provided in this form>.

Contaminated land investigation document

- Where mandatory supporting information is comprised of more than file, each attachment should be named in the following manner:

<Title of the document>_Part X of X_<Title of sub-part>
- A draft site management plan or draft amended draft site management plan should be provided as one Microsoft Word document file and should be given a name that directly corresponds to the title of the plan provided with this form.
- Mandatory supporting information that is provided in separate PDF files should be named as follows:
 - Evidence that the SQP is suitably qualified and experienced: <Name of SQP>_SQP evidence of competency
 - Audit report: <Title of CLID>_Audit report_<Name of auditor>
 - Landowner agreement to draft site management plan, if required: <Title of CLID>_Landowner agreement
 - Site suitability statement(s), if not included in an appendix of the CLID: <Title of CLID>_Site suitability statement_<Lot/Plan>

Where any of these are comprised of more than one document, a folder should be created and titled as per the above with each PDF file in the folder given the same title as the individual PDF document.

- The subject line of the email should be 'Submission of a contaminated land investigation document' and include a reference to the site.

Privacy statement

The Department of Environment and Science (the department) is collecting personal information about the people identified on this form as the relevant person, the owner or occupier of the relevant land, the suitably qualified person responsible for a regulatory function and the auditor responsible for certifying the contaminated land investigation document in order to process the submission the contaminated land investigation document under Chapter 7, Part 8 of the *Environmental Protection Act 1994*. The information provided on, and accompanying, the form will not otherwise be used or disclosed unless required or authorised by law. For further information about privacy matters email: privacy@des.qld.gov.au or telephone: 13 74 68.



Curriculum Vitae

Andrew Winters

Principal Environmental Scientist

Qualifications:

Bachelor of Applied Science, Environmental Management
Graduate Diploma, Remote Sensing
Member, Australian Institute of Environmental Health
Suitably Qualified Person for Land Contamination
Former NATA Delegating Signatory and Technical Manager,
Type A Inspection Body for Hazardous Materials Surveys
Former NATA Counter and Signatory - asbestos air monitoring



Andrew Winters has twenty-five years' consulting experience in land contamination and risk assessment, occupational hygiene, asbestos and other hazardous materials management.

Andrew formed part of the steering committee for the Qld Branch of the Australian Contaminated Land Consultants Association and was the inaugural secretary. He is a Suitably Qualified Person for land contamination assessments.

With complementary skills in project management, demolition and hazardous building materials, Andrew has successfully delivered several major projects involving the assessment and abatement of above and below ground environmental liabilities for government assets, linear infrastructure, power stations, Defence establishments and other industrial and commercial estates.

Key Experience Areas

- Land Contamination Assessment
- Rehabilitation
- Hazardous Materials
- Demolition Management

A selection of contaminated land and hazardous material experience

- **Peoples Republic of China, Strategic Assessment and Management, Sydney** – Provided an assessment of remediation options for a proposed Chinese Consulate in Camperdown, Sydney, including development of the remediation plan and specification in consultation with the design team.
- **Hazardous Materials Assessment, Former Australian Government Publishing Service Building, Canberra** – Detailed hazardous materials survey of the former Australian Government Publishing Service Building, including asbestos, to facilitate redevelopment for the Kingston Foreshore Development Authority.
- **Swanbank A Power Station, Qld** – Above and below ground contamination assessment, technical lead for asbestos and hazardous materials survey, demolition risk review and lead author of Demolition Specification. Provided ad-hoc advice during the demolition phase and land contamination assessment post-demolition for CS Energy.
- **Wittenoom Asbestos, WA** – For WA Department of Lands, facilitated a technical workshop of key government and private stakeholders to present the findings of a major assessment on asbestos risk at Wittenoom and review remediation options and expected outcomes. Recipient of GHD Safety Award for management of stakeholder inspections of the remote Wittenoom Site. Project Director and technical lead for the conceptual analysis for remediation of the three priority sites, and subsequent detailed remediation design planning.



Curriculum Vitae

- **CR2SM Project, Sunshine Coast, Qld** – On behalf of FHSWJV and TMR, led the assessment and remediation of various contaminated sites to facilitate road construction. Works included former landfills and impact from former industrial and residential land use.
- **Former Asbestos Mine, Baryulgil, New South Wales** – Various asbestos management services during the rehabilitation of tailings from a former chrysotile asbestos mine affecting an adjacent community. Services included building surveys, air and soil assessments and monitoring of civil and rehabilitation works for the Aboriginal and Torres Strait Islander Commission.
- **Maryvale Reserve, Qld** – Southern Downs Regional Council, led the assessment of soil and groundwater of a former railways yard including the assessment of livestock dip risks, to facilitate removal from the EMR.
- **Defence Establishments at Meeandah, Bulimba and Amberley, Qld** – One of the largest asbestos auditing and abatement projects in Queensland to date, with Andrew Project Managing and technical lead for surveying and supporting asbestos removal works across multiple establishments and buildings to promote limited disruption to key Defence services. The value of the assessment and abatement works to Defence was in excess of \$20M. Additional project management and technical lead of base wide asbestos surveys of HMAS Shoalhaven, NSW and RAAF Townsville.
- **Superintendency and Remediation Management, Howard Power Station Demolition, Qld** – Above and below ground environmental assessment, inclusive of hazardous materials assessment of structures and site contamination assessment. Preparation of relevant sections of the Specification for Demolition and Rehabilitation and site supervision for 18 months. Transitioned into the Superintendent role for remaining year of works involving demolition, finalisation of site rehabilitation, waste containment cell capping and construction of boat ramp and parklands on behalf of Qld Power Trading Corporation (Enertrade).
- **Sundale, Tewantin, Qld** – Provision of contaminated land assessment and remediation planning. Project managed the performance and documentation of remediation works that occurred over several months, involving removal of large quantities of fill impacted with various contaminants.
- **Hood St, Warner, Qld** – Contaminated land and groundwater assessment, and project management of remediation works over several weeks for removal of the Site from the EMR.
- **Former Commonwealth Games Site, Perth, WA** – Asbestos and other hazardous materials survey, specification, air monitoring and project management for demolition of a large grandstand complex at the Perry Lakes Urban Redevelopment Site for LandCorp. Works included innovative asbestos removal trials and subsequent application and granting of an exemption by the WA Worksafe Commissioner with regards to the recommended asbestos removal and demolition approach, which provided a significant time and cost saving to the Client.
- **Tennyson Power Station, Brisbane, Qld** – Provision of hazardous materials assessment, land contamination assessment, pre-tender cost estimate for demolition and designing remediation works.
- **Hazardous Materials, International Experience** - Since 2007 Andrew has spent a total of six months on international projects including the Solomon Islands, Philippines and Indonesia. Project work involved an asbestos survey of a hydroelectric power station in the Philippines and hazardous materials assessments assisting the reconstruction of Aceh, Indonesia.
- **Asbestos Audits, Somerset, North Pine and Wivenhoe Dams** – Project Manager and Lead Auditor for three major dams located in south east Queensland on behalf of SEQ Water, including follow-up annual reinspections.
- **Dalby Central, Qld** – Detailed building and land contamination assessment for this former small power station, gasworks and electrical substation site. Project manager and technical lead for remediation phase services and validation, including specification and certifying soil remediation and friable asbestos removal for Ergon Energy.



Curriculum Vitae

- **Former Sugar Mills** – Preliminary and detailed asbestos and land contamination assessments for Bundaberg Sugar's former Goondi, Mourilyan, Moreton and Wallaville Sugar Mills. Pre-tender cost estimates and remediation phase services for Moreton Mill during redevelopment as a commercial precinct.
- **Asbestos Services, Sydney Opera House** – Occupational hygiene and project management services for various asbestos removal works undertaken for the Sydney Opera House Trust.
- **Various Telstra Sites** – Assessment and remediation services for several Line Depots and Operation Centres including Cairns, Hervey Bay, Maleny, Noosaville, Landsborough, Milton, Monto, Roma, Townsville and Warwick. Services included assessment, remediation technical specifications, tender evaluation, supervision of site works and validation documentation for Bovis Lend Lease on behalf of Telstra.
- **Former Defence Establishment, Banyo, Queensland** – Detailed assessment of soil and groundwater and remediation plan for a large WW II logistics site. Andrew acted as Project Manager and technical lead for the assessment and remediation works and as Superintendent for the building demolition works as part of site redevelopment for Grosvenor Properties.
- **Environmental Assessment and Monitoring, Various Major Civil Construction Sites, Queensland** – Including environmental compliance auditing for the Sunshine Coast Motorway Duplication at Sippy Downs, Maroochy River Bridge Duplication and Caloundra Region Industrial and Business Park for Department of State Development, Trade and Innovation.
- **Collingwood Park, Redbank** – Various land contamination and UXO assessments of a large former Defence training area and rifle range. Supporting individual planning applications and remediation phase for various site developments including a sport and recreation facility, RSPCA headquarters and weekend markets.
- **Sewage Treatment Plants** – Assessment of treatment plants prior to site redevelopment at Victoria Point and Cleveland Plants for Redland Council, Queens Road Plant for Logan Council and Yandina Plant for Sunshine Coast Regional Council.
- **Various Services, Toowoomba Foundry** – Review of previous site assessment reports, data gap analysis, additional soil and groundwater assessment and production of a remediation plan to support planning approval for the proposed development.

Career History

2015 – current Environmental Advisors Pty Ltd Director

2000 – 2015 GHD Pty Ltd (various offices NSW, WA, Qld) Manager / Principal Environmental Scientist. Project management and technical lead for multidisciplinary environmental assessment and rehabilitation projects, including demolition and brownfield redevelopment. Environmental liability assessment, remediation and compliance. Team Leader for land contamination and hazardous materials assessment and remediation (Qld 2001-2011, 2013-2015). Managed a team of 30 professionals providing land contamination assessment and auditing, mine closure, hazardous materials, environmental engineering, air and noise services (WA 2011-2012).

1997 - 2000 ENVIRON (United Kingdom) Senior Environmental Scientist. Land contamination and hazardous materials assessment and management.

1994 - 1997 New Environment Pty Ltd (Sydney) Occupational Hygienist. Asbestos and other hazardous materials surveys, air monitoring and clearance inspections. Indoor air quality assessments.



ANDREW WINTERS'S: MEMBERSHIPS

You currently hold 1 membership(s)

Membership	Status	Started	Expiry	Edit
Full Member (QLD) - <i>Members</i>	Active	28th Sep 16	30th Jun 24	

Details: Full Member (QLD)

Membership
Update Details

Category: Members

Type: Full Member (QLD)

Start Date: 28th Sep 16

Expiry Date: 30th Jun 24

Renewal Period: 2nd Jan 24 - 26th Jun 25

Total Renewal Cost: \$410.00

Your Full Member (QLD) membership is Active.

The membership will expire on 30th Jun 24.





Appendix M

Registered Services Information



DBYD

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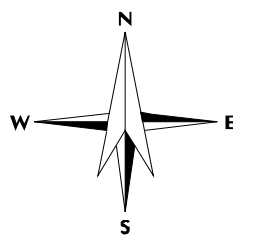
Date: 21/02/2023

Scale: 1:2050

OVERVIEW

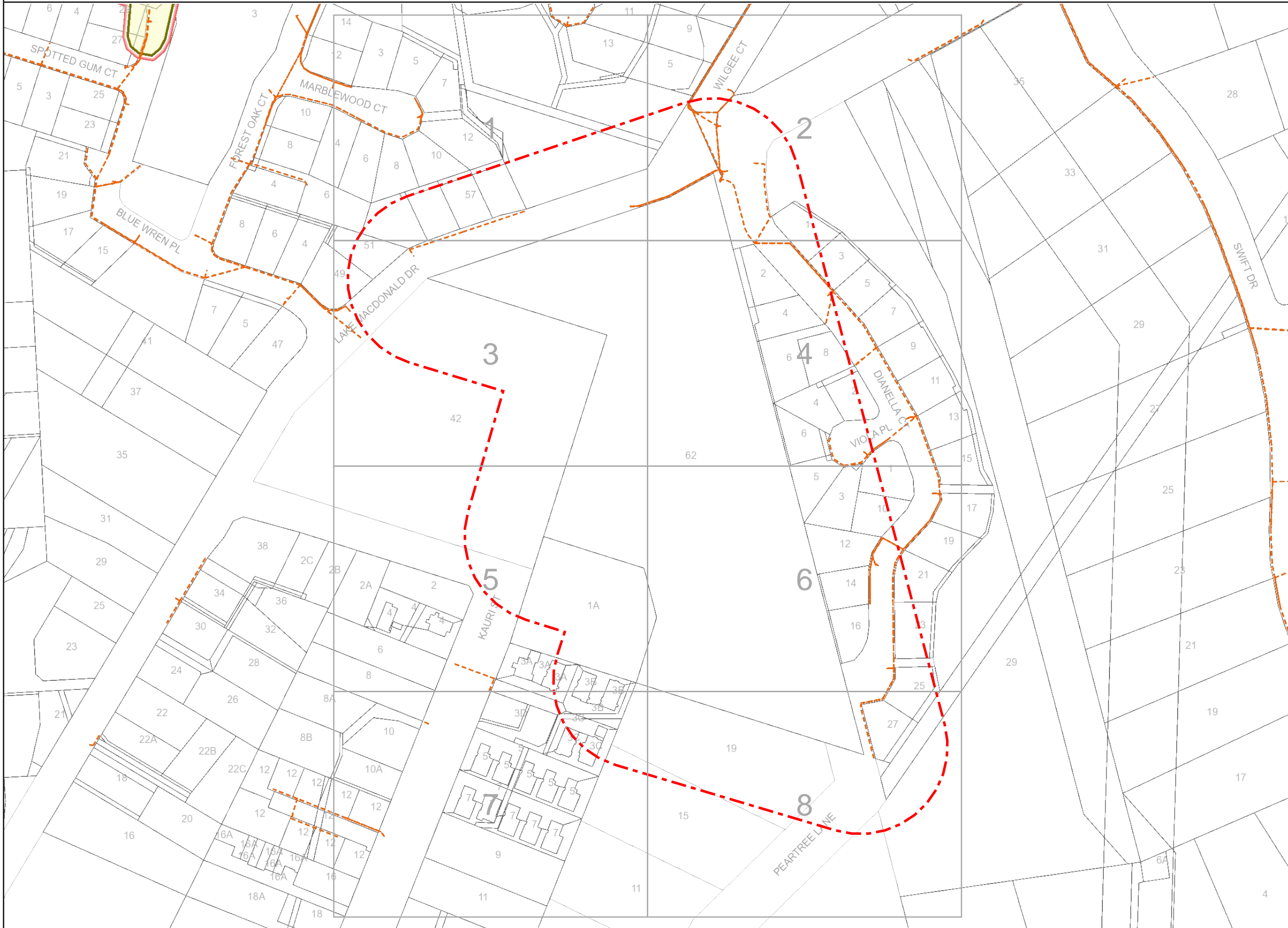
**For a full list of Map
Symbols, please
refer to the supplied
DBYD Symboly
Legend page**

AS5488 Category "D" Plan



DISCLAIMER: While reasonable measures have been taken to ensure the accuracy of the information contained in this plan response, neither Energex nor PelicanCorp shall have any liability whatsoever in relation to any loss, damage, cost or expense arising from the use of this plan response or the information contained in it or the completeness or accuracy of such information. Use of such information is subject to and constitutes acceptance of these terms.

All underground cables shall be treated as being energised. Where a cable is located that is not represented on the ENERGEX DBYD map, then ENERGEX shall be contacted immediately.



This output provides details of the ENERGEX electrical network. As variations map exist no responsibility is incurred by ENERGEX for the accuracy or completeness of the information provided. Exact positions of cables and electrical connectivity should be confirmed on site.

All underground cables shall be treated as being energised. Where a cable is located that is not represented on the ENERGEX DBYD map, then ENERGEX shall be contacted immediately.

For Emergency Situations please call 13 19 62

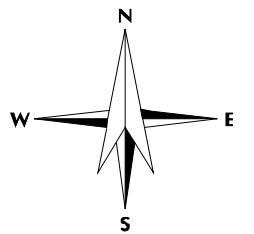


DBYD

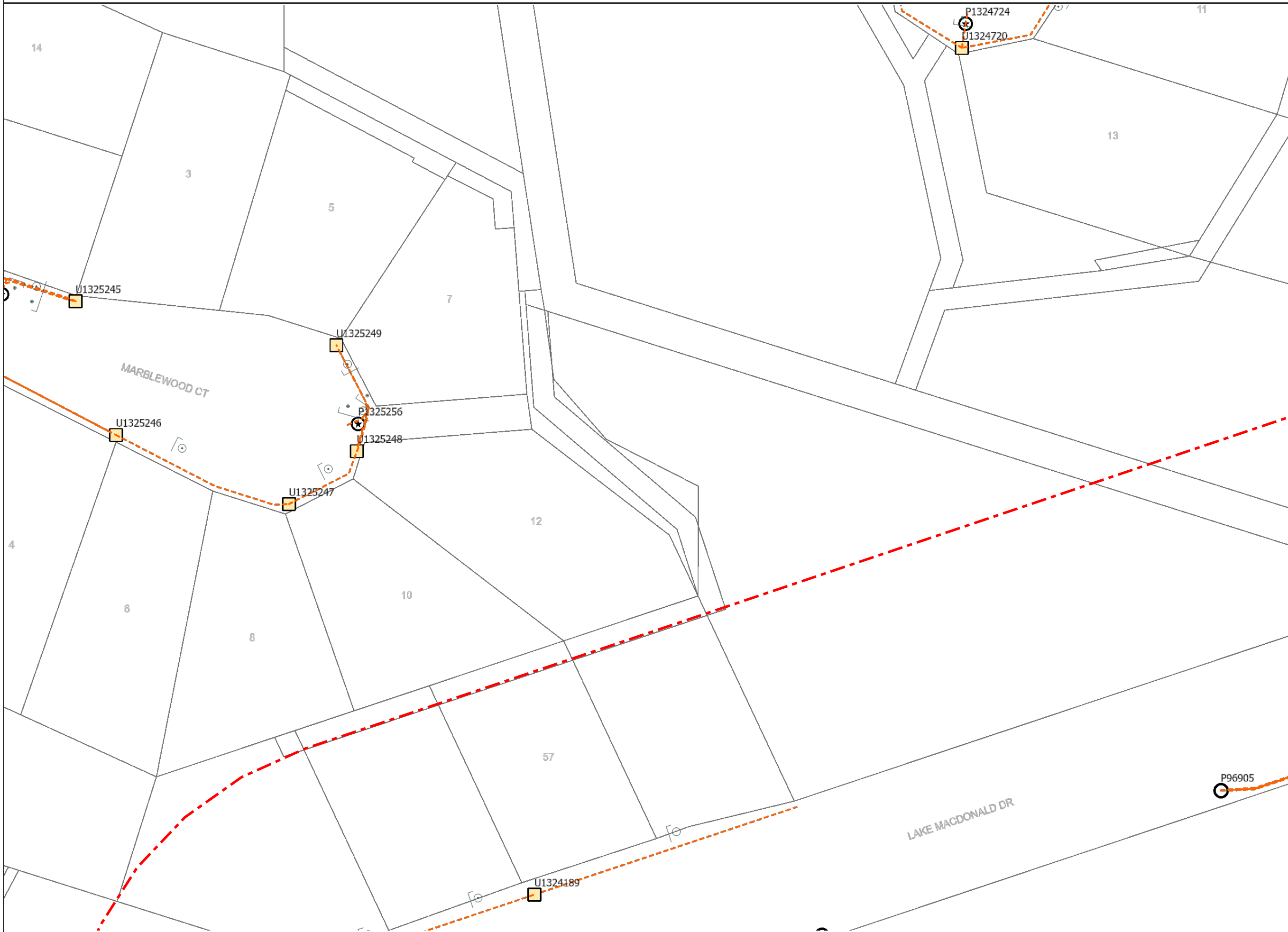
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Date: 21/02/2023
Scale: 1:500
Tile No: 1

For a full list of Map Symbols, please refer to the supplied DBYD Symbolology Legend page

AS5488 Category "D" Plan



DISCLAIMER: While reasonable measures have been taken to ensure the accuracy of the information contained in this plan response, neither Energex nor PelicanCorp shall have any liability whatsoever in relation to any loss, damage, cost or expense arising from the use of this plan response or the information contained in it or the completeness or accuracy of such information. Use of such information is subject to and constitutes acceptance of these terms.



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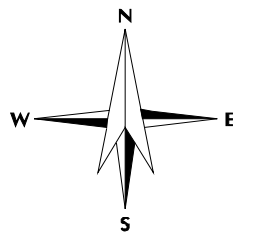


DBYD

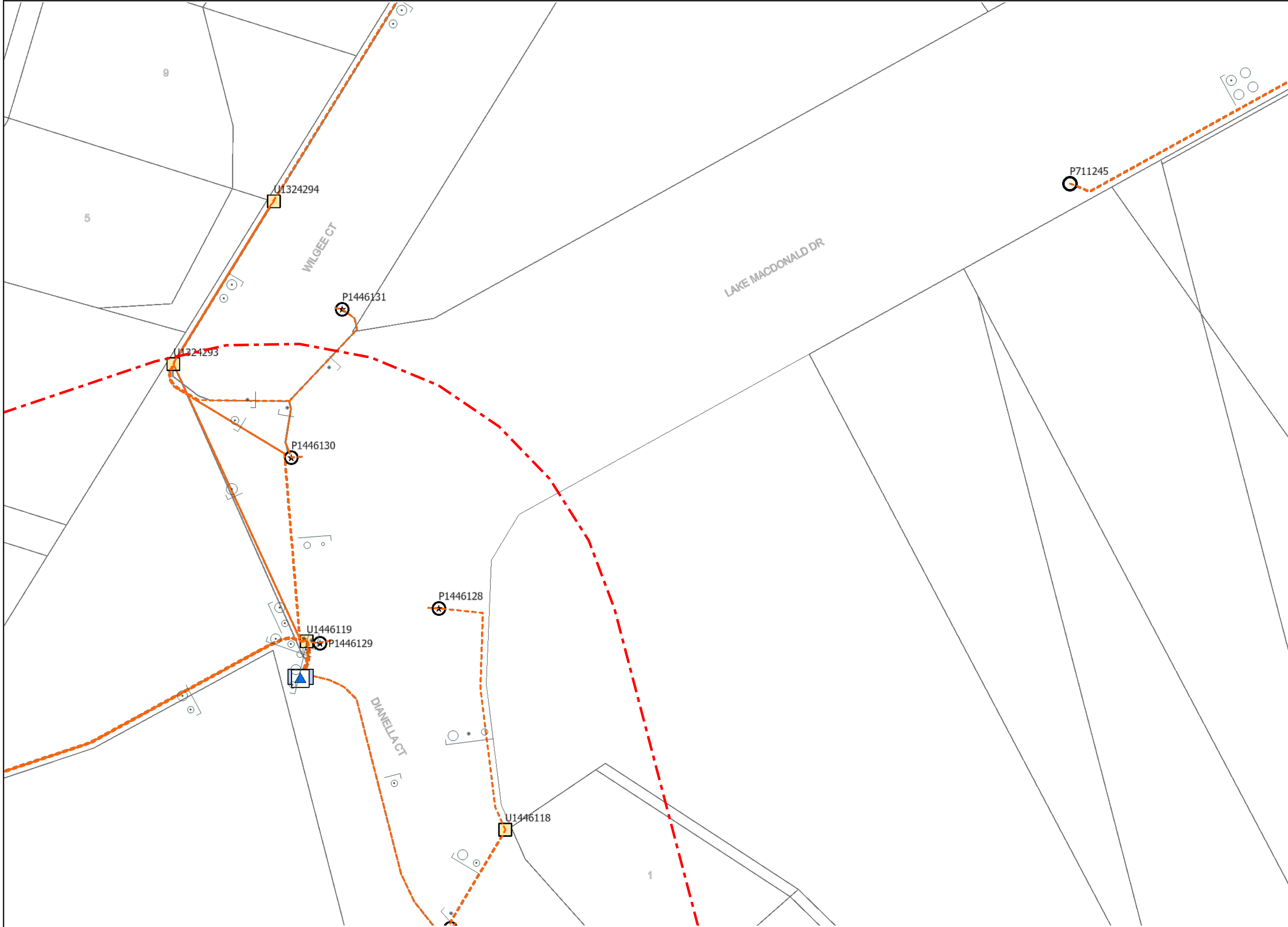
Sequence: 221446983
Date: 21/02/2023
Scale: 1:500
Tile No: 2

For a full list of Map Symbols, please refer to the supplied DBYD Symbology Legend page

AS5488 Category "D" Plan



DISCLAIMER: While reasonable measures have been taken to ensure the accuracy of the information contained in this plan response, neither Energex nor PelicanCorp shall have any liability whatsoever in relation to any loss, damage, cost or expense arising from the use of this plan response or the information contained in it or the completeness or accuracy of such information. Use of such information is subject to and constitutes acceptance of these terms.



This output provides details of the ENERGEX electrical network. As variations map exist no responsibility is incurred by ENERGEX for the accuracy or completeness of the information provided. Exact positions of cables and electrical connectivity should be confirmed on site.

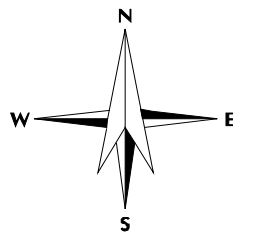


DBYD

Sequence: 221446983
Date: 21/02/2023
Scale: 1:500
Tile No: 3

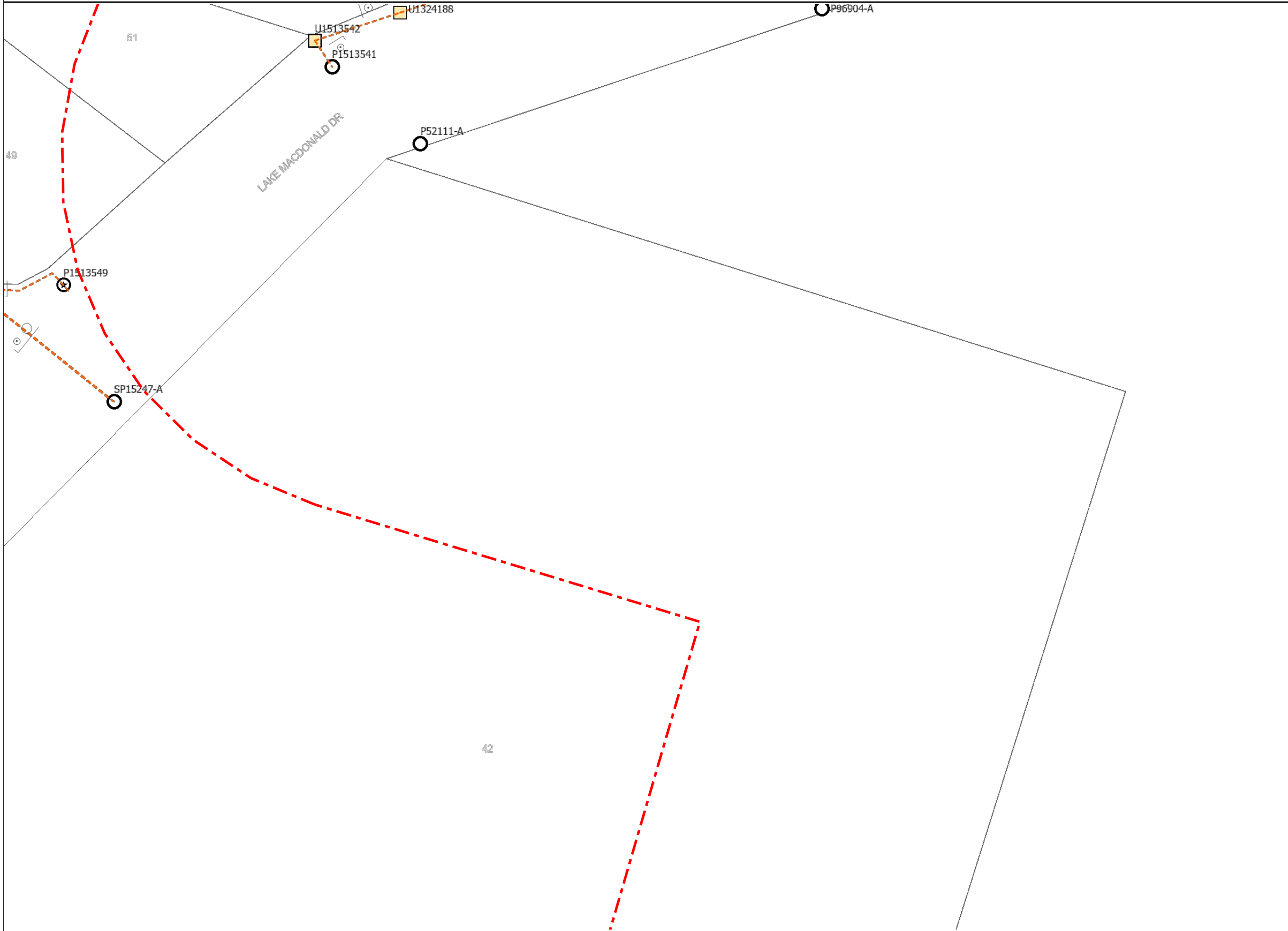
**For a full list of Map
Symbols, please
refer to the supplied
DBYD Symbology
Legend page**

AS5488 Category "D" Plan



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All underground cables shall be treated as being energised. Where a cable is located that is not represented on the ENERGEX DBYD map, then ENERGEX shall be contacted immediately.



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For Emergency Situations please call 13 19 62

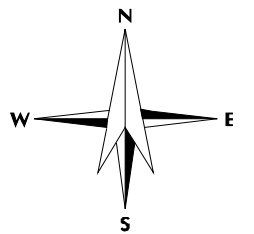


DBYD

Sequence: 221446983
Date: 21/02/2023
Scale: 1:500
Tile No: 4

For a full list of Map Symbols, please refer to the supplied DBYD Symbolology Legend page

AS5488 Category "D" Plan



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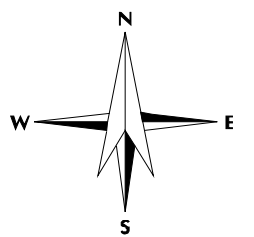


DBYD

Sequence: 221446983
Date: 21/02/2023
Scale: 1:500
Tile No: 5

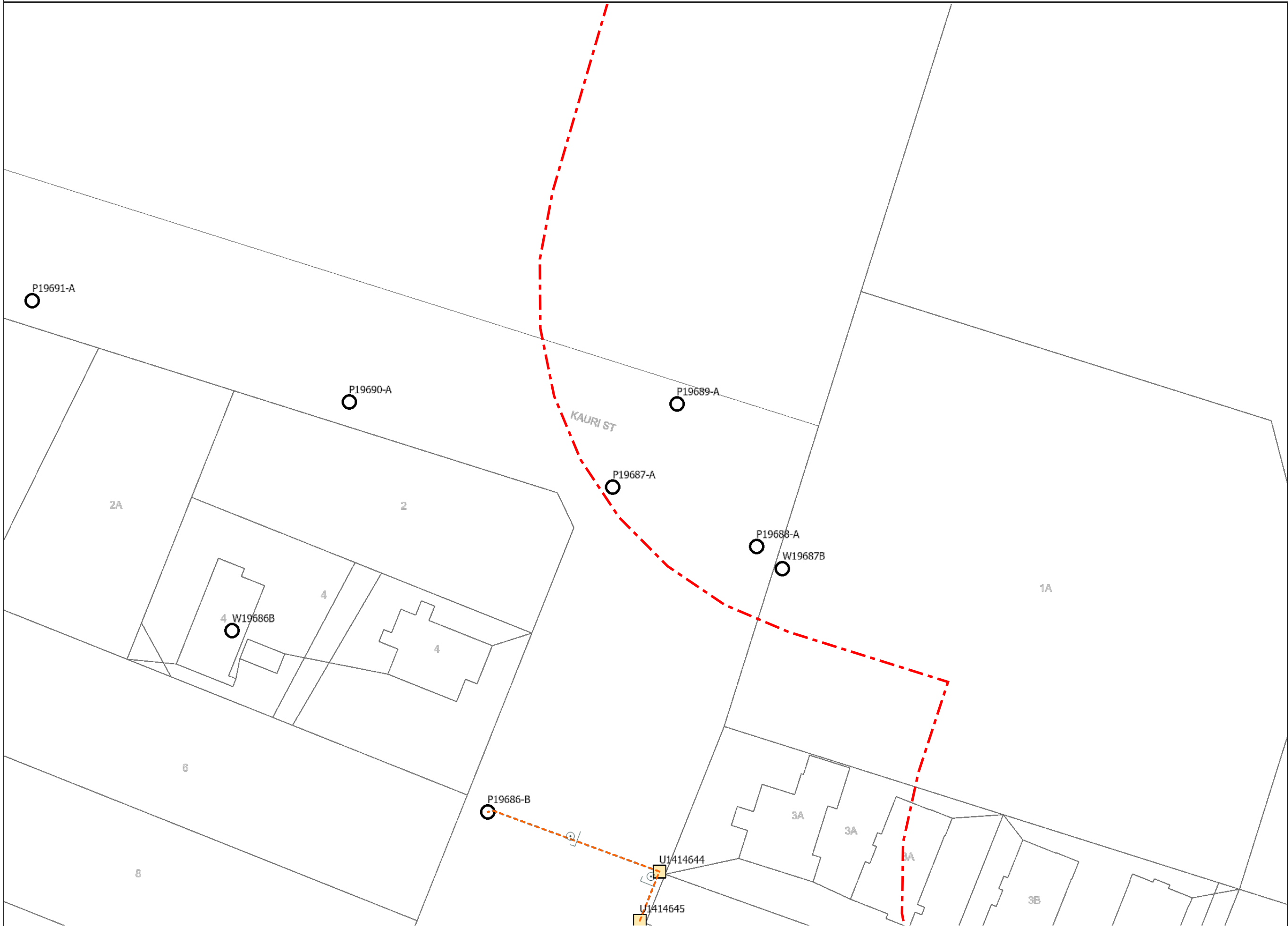
**For a full list of Map
Symbols, please
refer to the supplied
DBYD Symboly
Legend page**

AS5488 Category "D" Plan



DISCLAIMER: While reasonable measures have been taken to ensure the accuracy of the information contained in this plan response, neither Energex nor PelicanCorp shall have any liability whatsoever in relation to any loss, damage, cost or expense arising from the use of this plan response or the information contained in it or the completeness or accuracy of such information. Use of such information is subject to and constitutes acceptance of these terms.

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please call 13 19 62

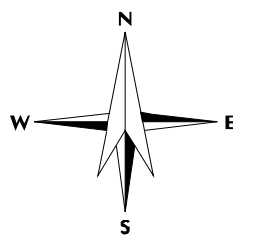


DBYD

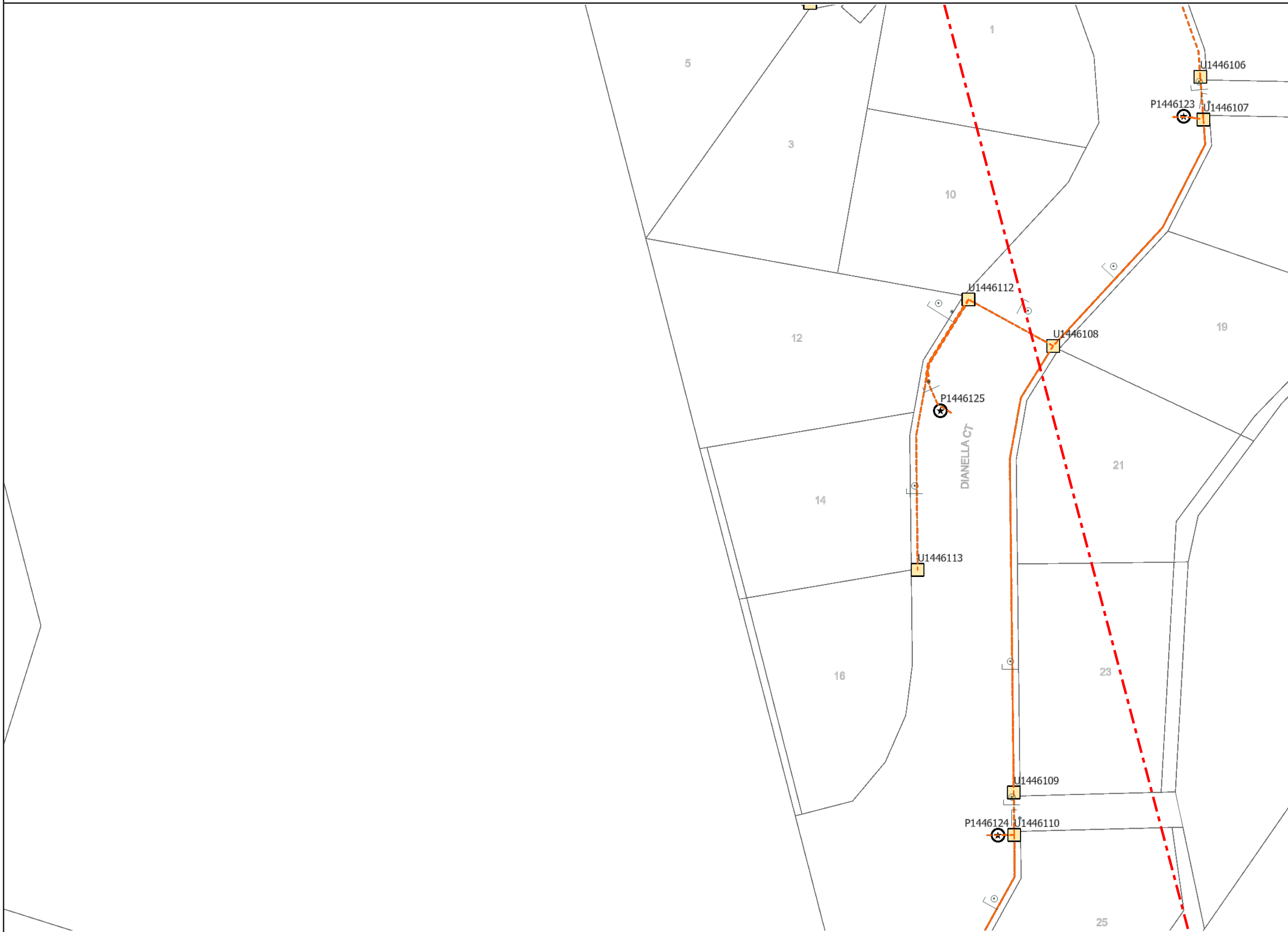
Sequence: 221446983
Date: 21/02/2023
Scale: 1:500
Tile No: 6

For a full list of Map Symbols, please refer to the supplied DBYD Symbolology Legend page

AS5488 Category "D" Plan



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For Emergency Situations please call 13 19 62



DBYD

Sequence: 221446983

Date: 21/02/2023

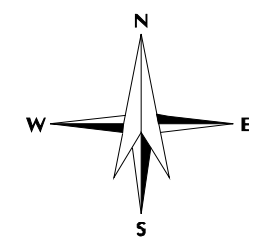
Scale: 1:500

Tile No: 7



For a full list of Map Symbols, please refer to the supplied DBYD Symbolology Legend page

AS5488 Category "D" Plan



DISCLAIMER: While reasonable measures have been taken to ensure the accuracy of the information contained in this plan response, neither Energex nor PelicanCorp shall have any liability whatsoever in relation to any loss, damage, cost or expense arising from the use of this plan response or the information contained in it or the completeness or accuracy of such information. Use of such information is subject to and constitutes acceptance of these terms.

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please call 13 19 62



DBYD

Sequence: 221446983

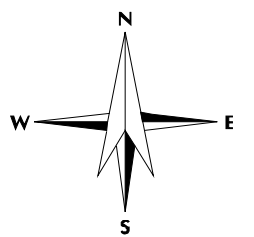
Date: 21/02/2023

Scale: 1:500

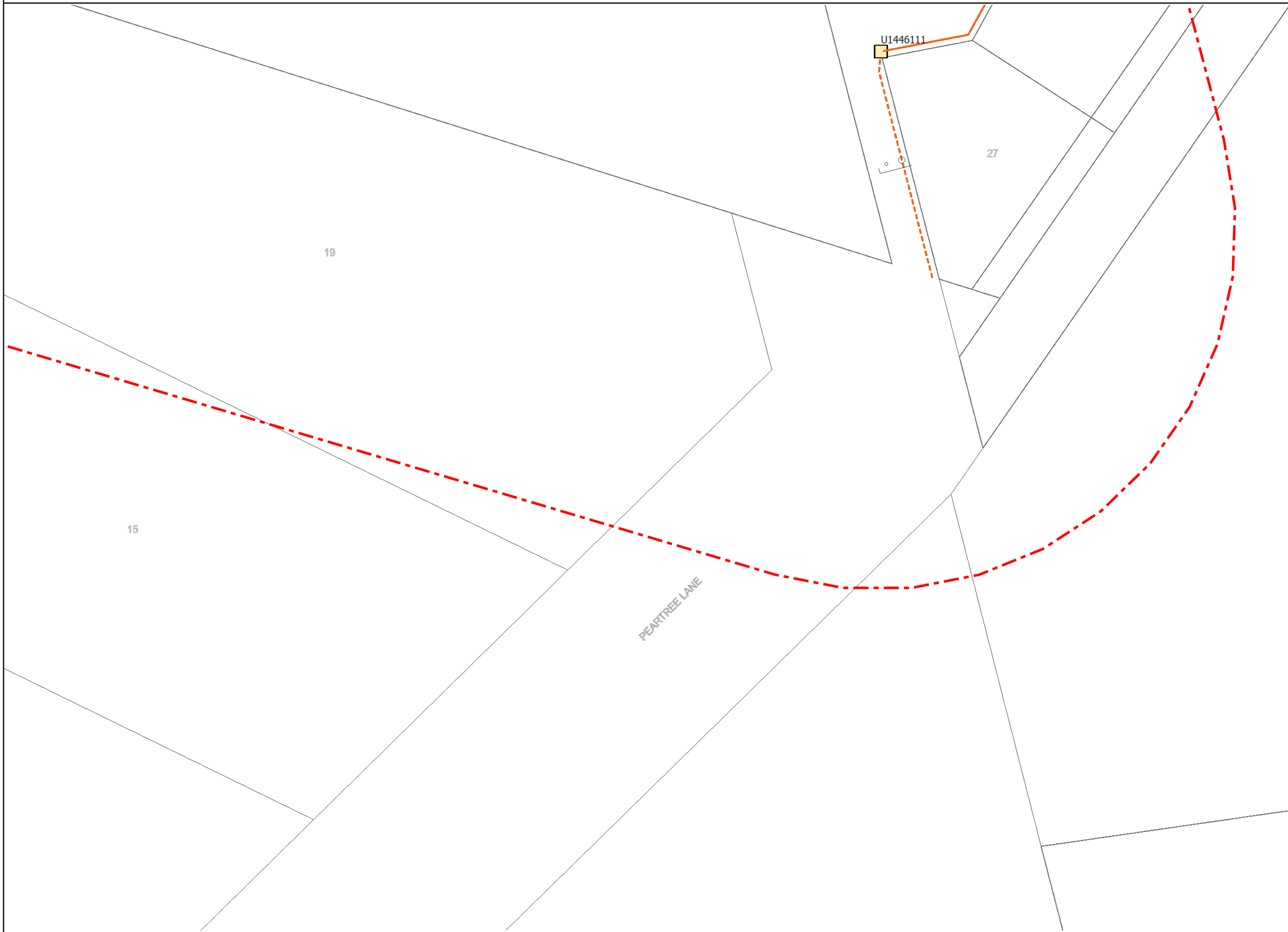
Tile No: 8

For a full list of Map Symbols, please refer to the supplied DBYD Symbology Legend page

AS5488 Category "D" Plan



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DBYD SYMBOLGY LEGEND

	Cross Bonding Link Box - Critical		Planned Cross Bonding Link Box - New/Updated
	Disconnect Box - Critical		Planned Cross Bonding Link Box - Remove
	Ring Main Unit		Planned Disconnect Box - New/Updated
	Distribution Pad Substation		Planned Disconnect Box - Remove
	Earth		Planned Distribution Pad Substation - New/Updated
	Remote Earth		Planned Distribution Pad Substation - Remove
	Cable Marker		Planned Distribution Ground Substation - New/Updated
	Handhole		Planned Distribution Ground Substation - Remove
	Manhole		Planned Ring Main Unit - New/Updated
	Commercial Industrial Pillar		Planned Ring Main Unit - Remove
	Distribution Cabinet		Planned Earth - New/Updated
	Link Pillar		Planned Earth - Remove
	Service Pillar		Planned Cable Marker - New/Updated
	Feeder Pillar		Planned Cable Marker - Remove
	Pole		Planned Remote Earth - New/Updated
	Streetlight Column		Planned Remote Earth - Remove
	Communication Junction Pillar		Planned Underground Warning Post - New/Updated
	Communication Pit		Planned Underground Warning Post - Remove
	Fibre Patch Panel		Planned Fibre Patch Panel - New/Updated
	Pilot Cubicle		Planned Fibre Patch Panel - Remove
	Underground Asset 33kV and above		Planned Commercial Industrial Pillar - New/Updated
	Underground Asset below 33kV		Planned Commercial Industrial Pillar - Remove
	Underground Conduit with or without cable		Planned Distribution Cabinet - New/Updated
	Pit		Planned Distribution Cabinet - Remove
	Communication Boundary		Planned Link Pillar - New/Updated
	Reserve (RE)		Planned Link Pillar - Remove
	Water Resource (WR)		Planned Service Pillar - New/Updated
	Cadastral Parcels		Planned Service Pillar - Remove
	Planned Jointing Pit - New/Updated		Planned Pole - New/Updated
	Planned Jointing Pit - Remove		Planned Pole - Remove
	Planned Communication Boundary - New/Updated		Planned Manhole - New/Updated
	Planned Communication Boundary - Remove		Planned Manhole - Remove
	Planned Tunnel/Trench/Bore - New/Updated		Planned Streetlight Column - New/Updated
	Planned Tunnel/Trench/Bore - Remove		Planned Streetlight Column - Remove
			Planned Handhole - New/Updated
			Planned Handhole - Remove
			Planned Communication Junction Pillar - New/Updated
			Planned Communication Junction Pillar - Remove



Caller Details

Contact: Andrew Winters **Caller Id:** 3219990 **Phone:** 0409 662 747
Company: Environmental Advisors Pty Ltd
Address: 168 Flaxton Drive **Email:** admin@environmentaladvisors.com.au
Mapleton QLD 4560

Dig Site and Enquiry Details

WARNING:The map below only displays the location of the proposed dig site and does not display any asset owners' pipe or cables. The area highlighted has been used only to identify the participating asset owners, who will send information to you directly.



User Reference: Contaminated land assessment
Working on Behalf of: Utility Noosa Shire Council
Enquiry Date: 21/02/2023 **Start Date:** 24/02/2023 **End Date:** 24/02/2023
Address: 62 Lake Macdonald Drive, Cooroy QLD 4563
Job Purpose: Excavation **Onsite Activities:** Mechanical Excavation
Location of Workplace: Private **Location in Road:**

- Check that the location of the dig site is correct. If not you must submit a new enquiry.
- Should the scope of works change, or plan validity dates expire, you must submit a new enquiry.
- Do NOT dig without plans. Safe excavation is your responsibility. If you do not understand the plans or how to proceed safely, please contact the relevant asset owners.

Notes/Description of Works:

Excavation of around 10 test pits to allow soil logging and collection of soil samples at depth

Your Responsibilities and Duty of Care

- The lodgement of an enquiry does not authorise the project to commence. You must obtain all necessary information from any and all likely impacted asset owners prior to excavation.
- If plans are not received within 2 working days, contact the asset owners directly & quote their Sequence No.
- ALWAYS perform an onsite inspection for the presence of assets. Should you require an onsite location, contact the asset owners directly. Please remember, plans do not detail the exact location of assets.
- Pothole to establish the exact location of all underground assets using a hand shovel, before using heavy machinery.
- Ensure you adhere to any State legislative requirements regarding Duty of Care and safe digging requirements.
- If you damage an underground asset you MUST advise the asset owner immediately.
- By using this service, you agree to Privacy Policy and the terms and disclaimers set out at www.1100.com.au
- For more information on safe excavation practices, visit www.1100.com.au

Asset Owner Details

The assets owners listed below have been requested to contact you with information about their asset locations within 2 working days. Additional time should be allowed for information issued by post. It is **your responsibility** to identify the presence of any underground assets in and around your proposed dig site. Please be aware, that not all asset owners are registered with the Before You Dig service, so it is **your responsibility** to identify and contact any asset owners not listed here directly.


** Asset owners highlighted by asterisks ** require that you visit their offices to collect plans.

Asset owners highlighted with a hash # require that you call them to discuss your enquiry or to obtain plans.

Seq. No.	Authority Name	Phone	Status
221446983	Energex QLD	13 12 53	NOTIFIED
221446984	NBN Co Qld	1800 687 626	NOTIFIED
221446982	Noosa Shire Council	(07) 5329 6272	NOTIFIED
221446986	Telstra QLD South East	1800 653 935	NOTIFIED
221446985	Unitywater North	1300 086 489	NOTIFIED

END OF UTILITIES LIST

To: Andrew Winters
Phone: Not Supplied
Fax: Not Supplied
Email: admin@environmentaladvisors.com.au

Dial before you dig Job #:	33661709	
Sequence #	221446984	
Issue Date:	21/02/2023	
Location:	62 Lake Macdonald Drive , Cooroy , QLD , 4563	

Indicative Plans

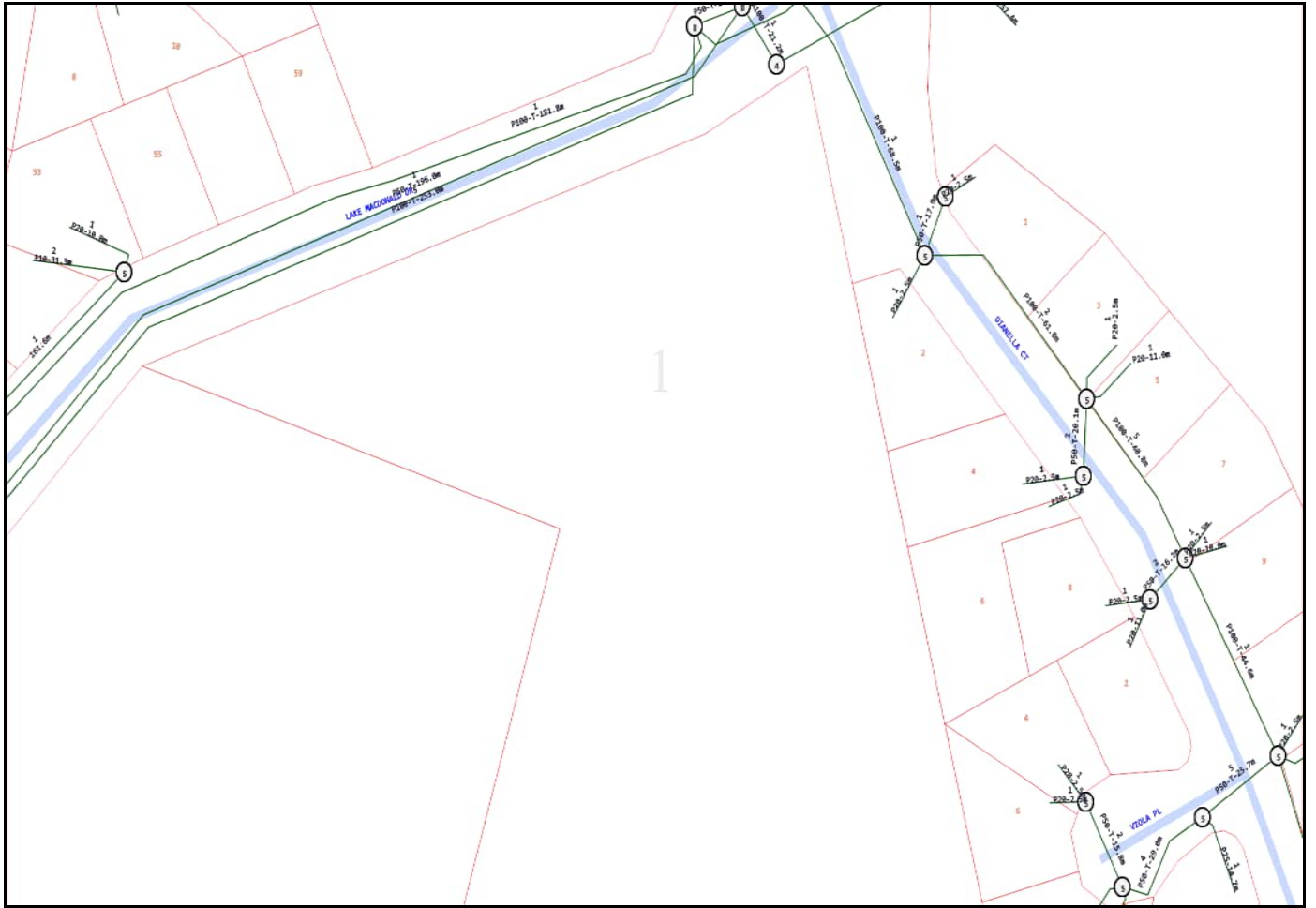


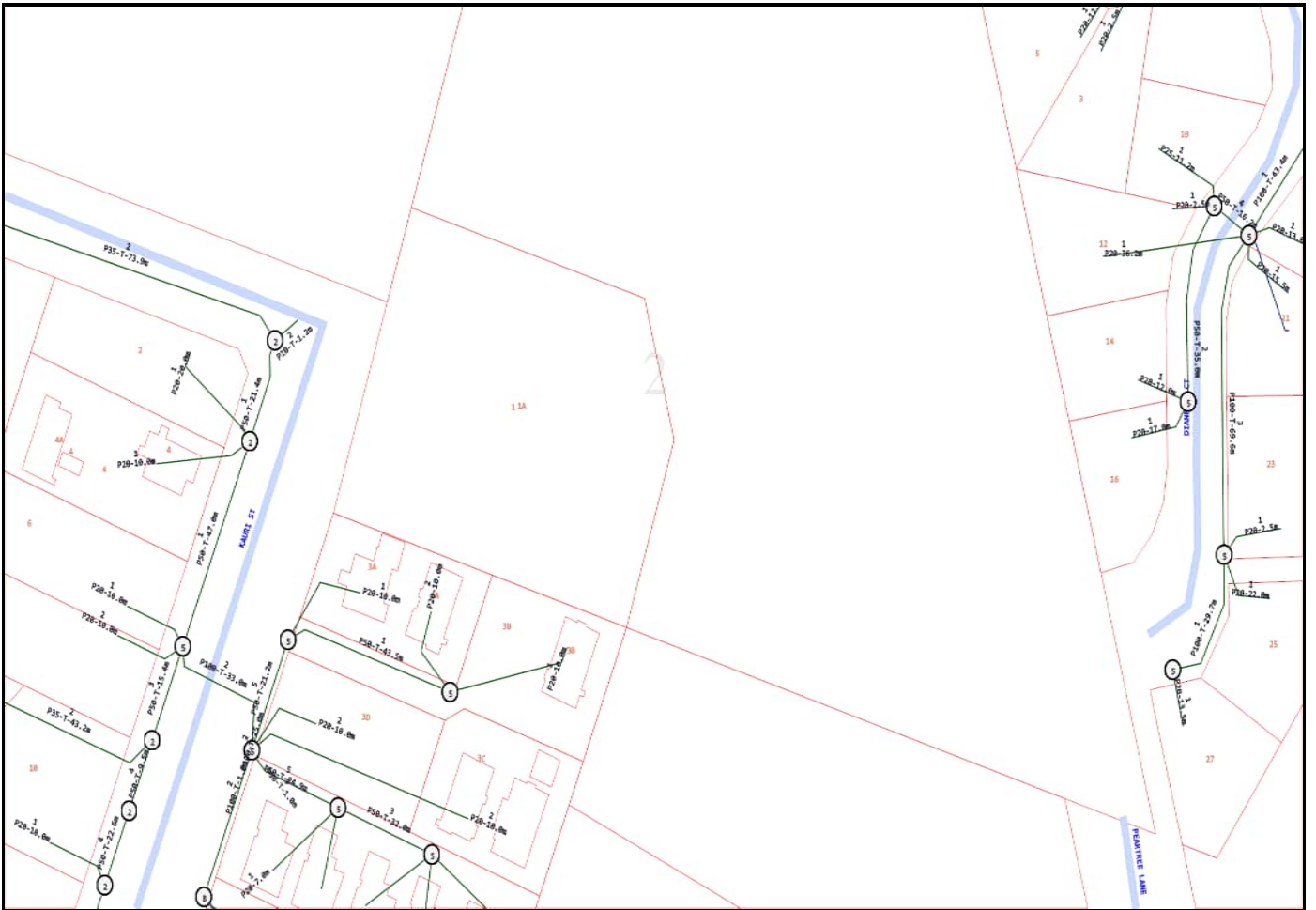


LEGEND



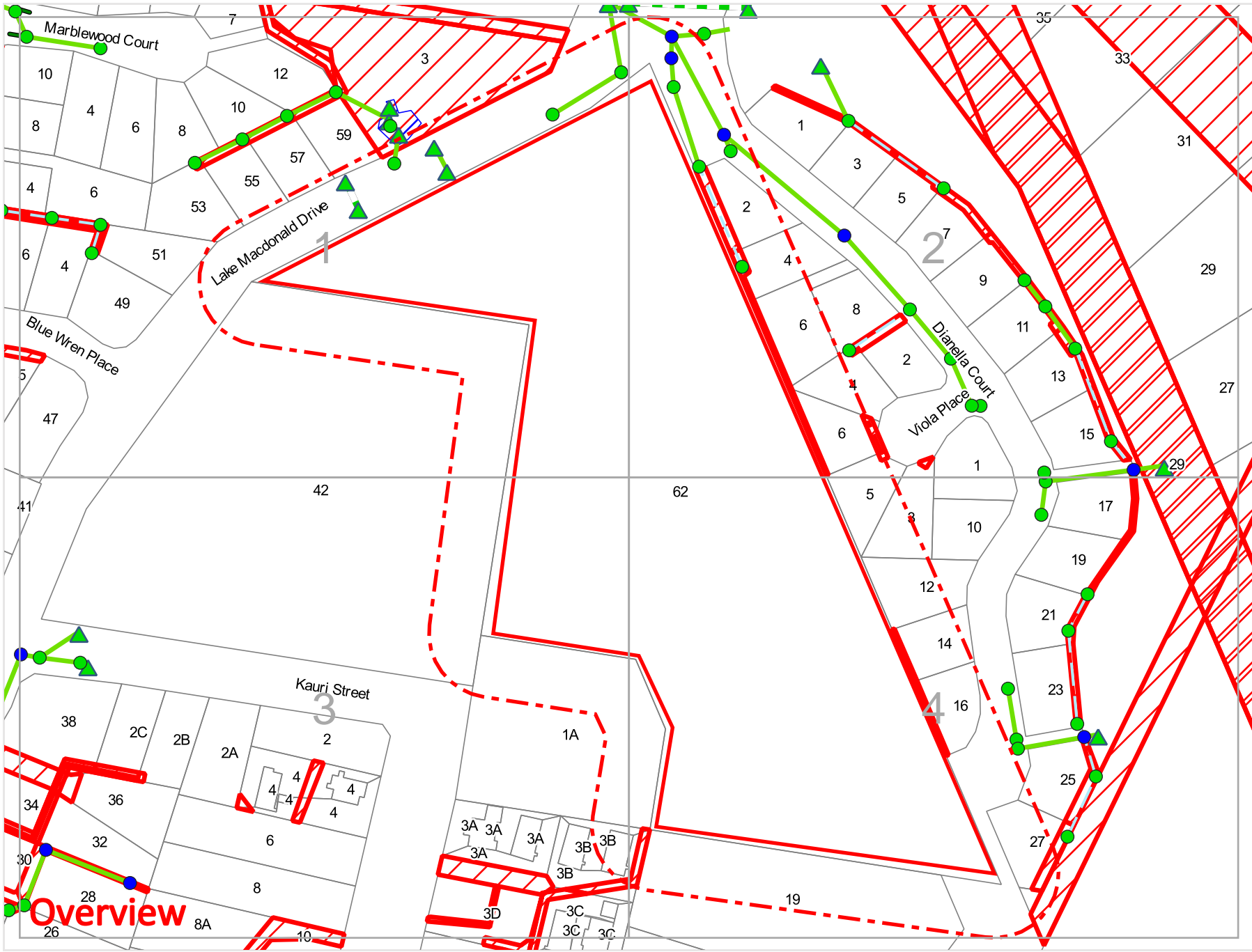
	Parcel and the location
	Pit with size "5"
	Power Pit with size "2E". Valid PIT Size: e.g. 2E, 5E, 6E, 8E, 9E, E, null.
	Manhole
	Pillar
	Cable count of trench is 2. One "Other size" PVC conduit (PO) owned by Telstra (-T-), between pits of sizes, "5" and "9" are 25.0m apart. One 40mm PVC conduit (P40) owned by NBN, between pits of sizes, "5" and "9" are 20.0m apart.
	2 Direct buried cables between pits of sizes, "5" and "9" are 10.0m apart.
	Trench containing any INSERVICE/CONSTRUCTED (Copper/RF/Fibre) cables.
	Trench containing only DESIGNED/PLANNED (Copper/RF/Fibre/Power) cables.
	Trench containing any INSERVICE/CONSTRUCTED (Power) cables.
	Road and the street name "Broadway ST"
Scale	0 20 40 60 Meters 1:2000 1 cm equals 20 m





Emergency Contacts

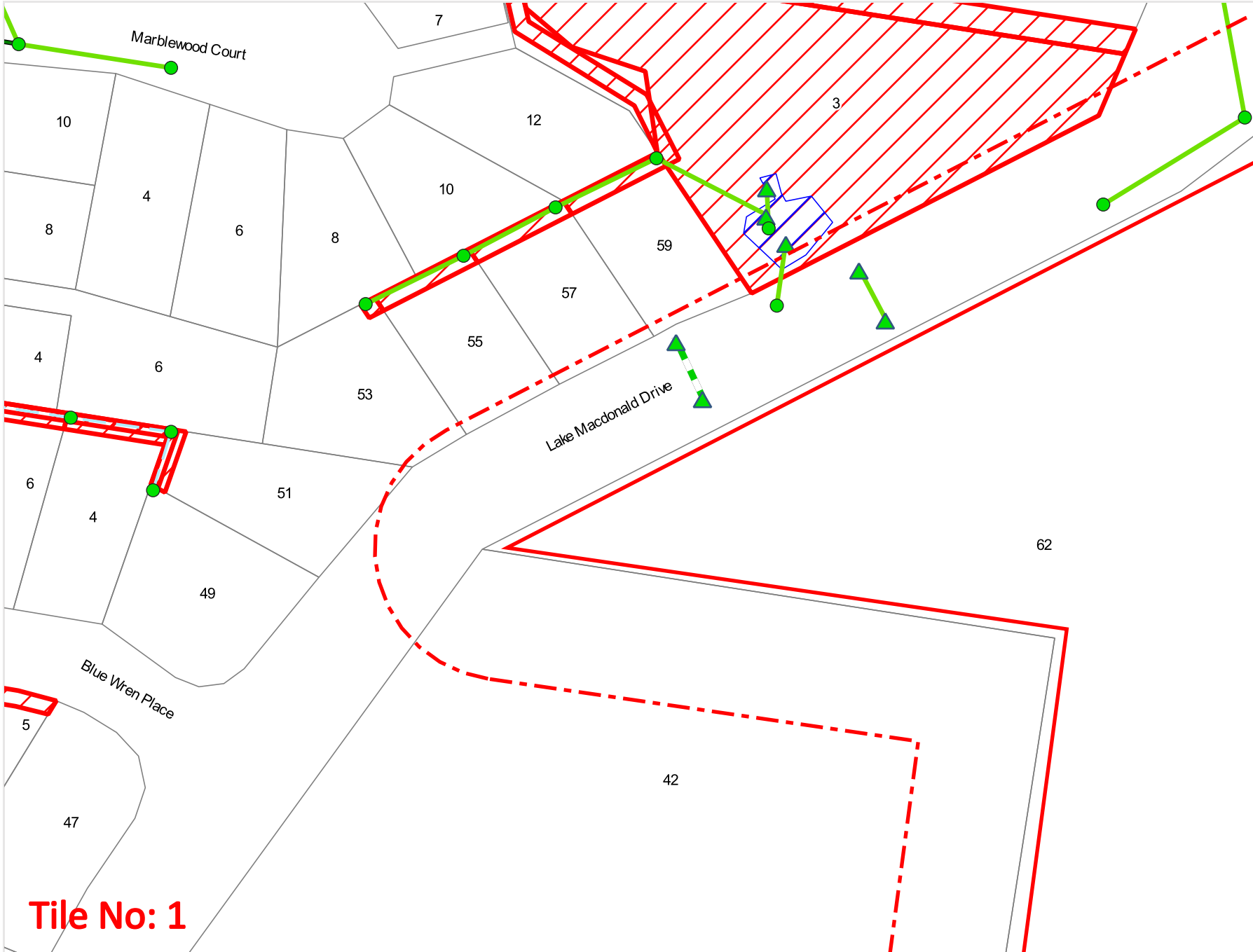
You must immediately report any damage to the **nbn**TM network that you are/become aware of. Notification may be by telephone - 1800 626 329.



- Legend**
- Stormwater Chamber**
 - Manhole (Blue circle)
 - Pit (Green circle)
 - Water Quality (Blue triangle)
 - Structures (Green triangle)
 - Stormwater Pipe**
 - Pipe (Green line)
 - Allotment (Light blue line)
 - Culvert (Green dashed line)
 - Other Networks**
 - TeleComm Networks (Red dashed line)
 - Open Drain (Green solid line)
 - Flood Alert Station Pipe (Red dashed line)
 - Leachate Rising Main (Red solid line)
 - Water Quality (Blue hatched area)
 - Easement (Red hatched area)
 - Covenant (Yellow hatched area)

Scale: 1:2050
Expires: 21 Mar 2023

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Legend

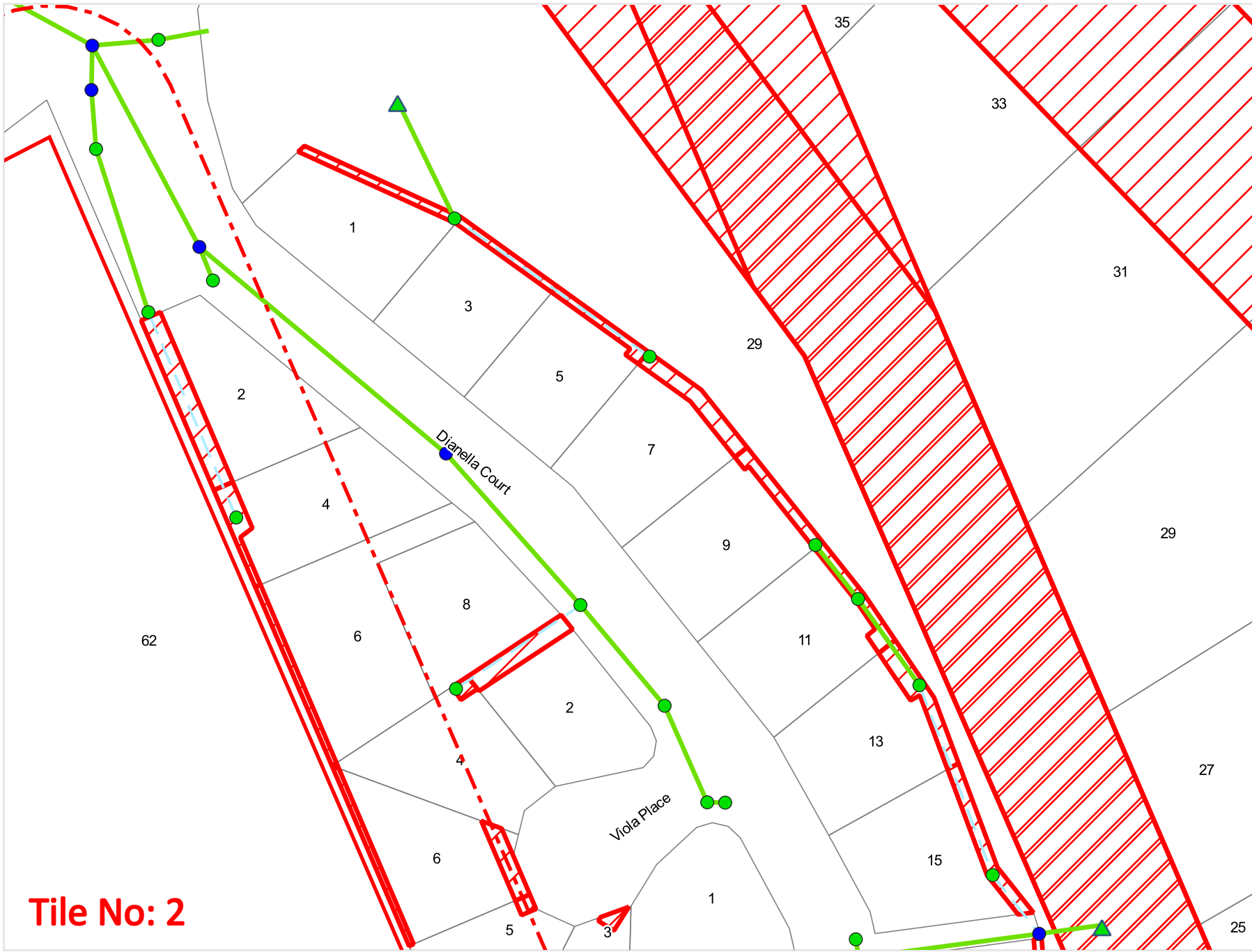
- Stormwater Chamber**
 - Manhole
 - Pit
 - ▲ Water Quality
 - ▲ Structures
- Stormwater Pipe**
 - Pipe
 - - - Allotment
 - ▬ Culvert
- - - TeleComm Networks
 - Open Drain
 - - - Flood Alert Station Pipe
 - Leachate Rising Main
 - ▨ Water Quality
 - ▨ Easement
 - ▨ Covenant



Scale: 1:1000
Expires: 21 Mar 2023

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Tile No: 1

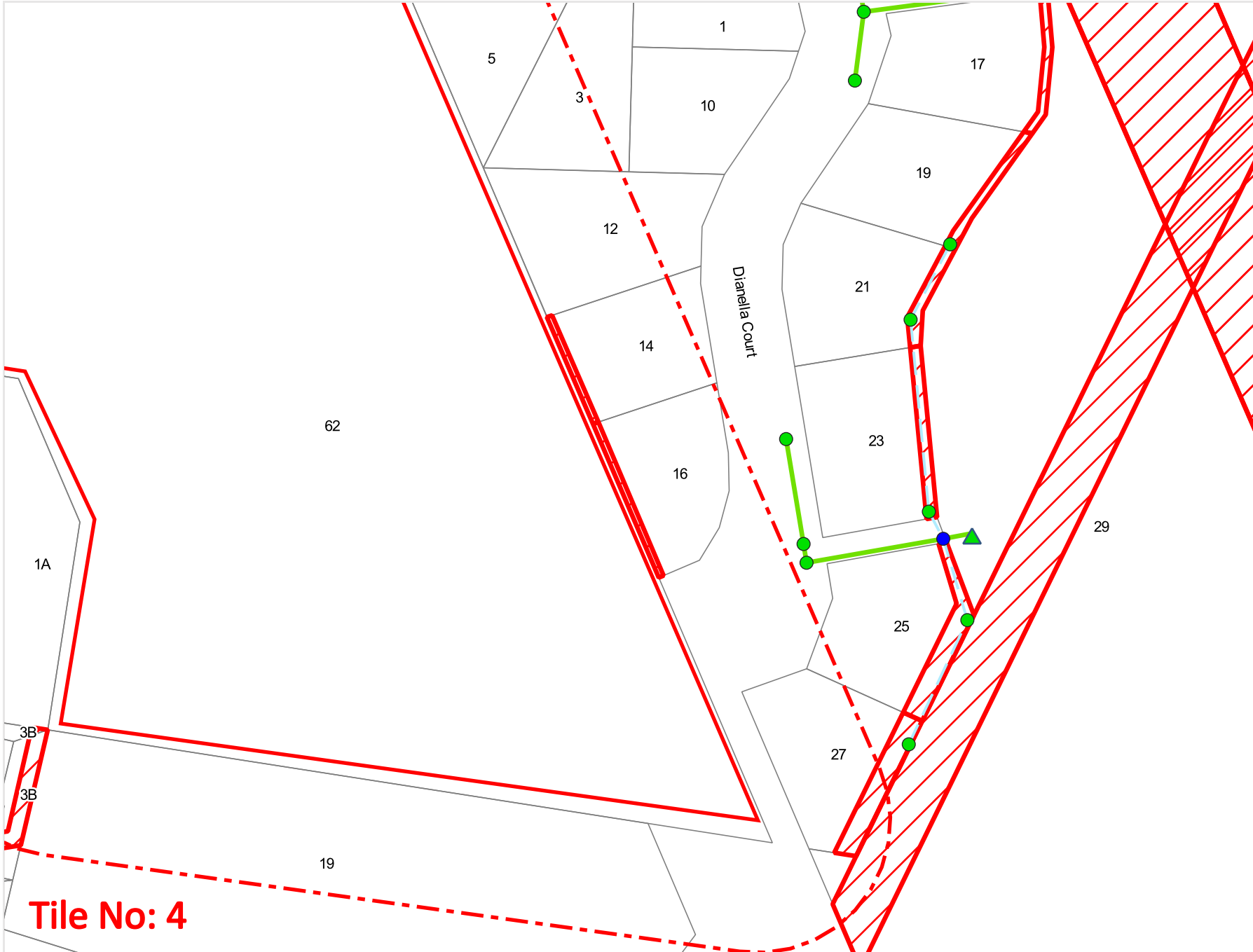


- Legend**
- Stormwater Chamber**
 - Manhole
 - Pit
 - ▲ Water Quality
 - ▲ Structures
 - Stormwater Pipe**
 - Pipe
 - Allotment
 - ▬ Culvert
 - TeleComm Networks
 - Open Drain
 - Flood Alert Station Pipe
 - Leachate Rising Main
 - ▨ Water Quality
 - ▨ Easement
 - ▨ Covenant

Scale: 1:1000
 Expires: 21 Mar 2023

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Tile No: 2



Legend

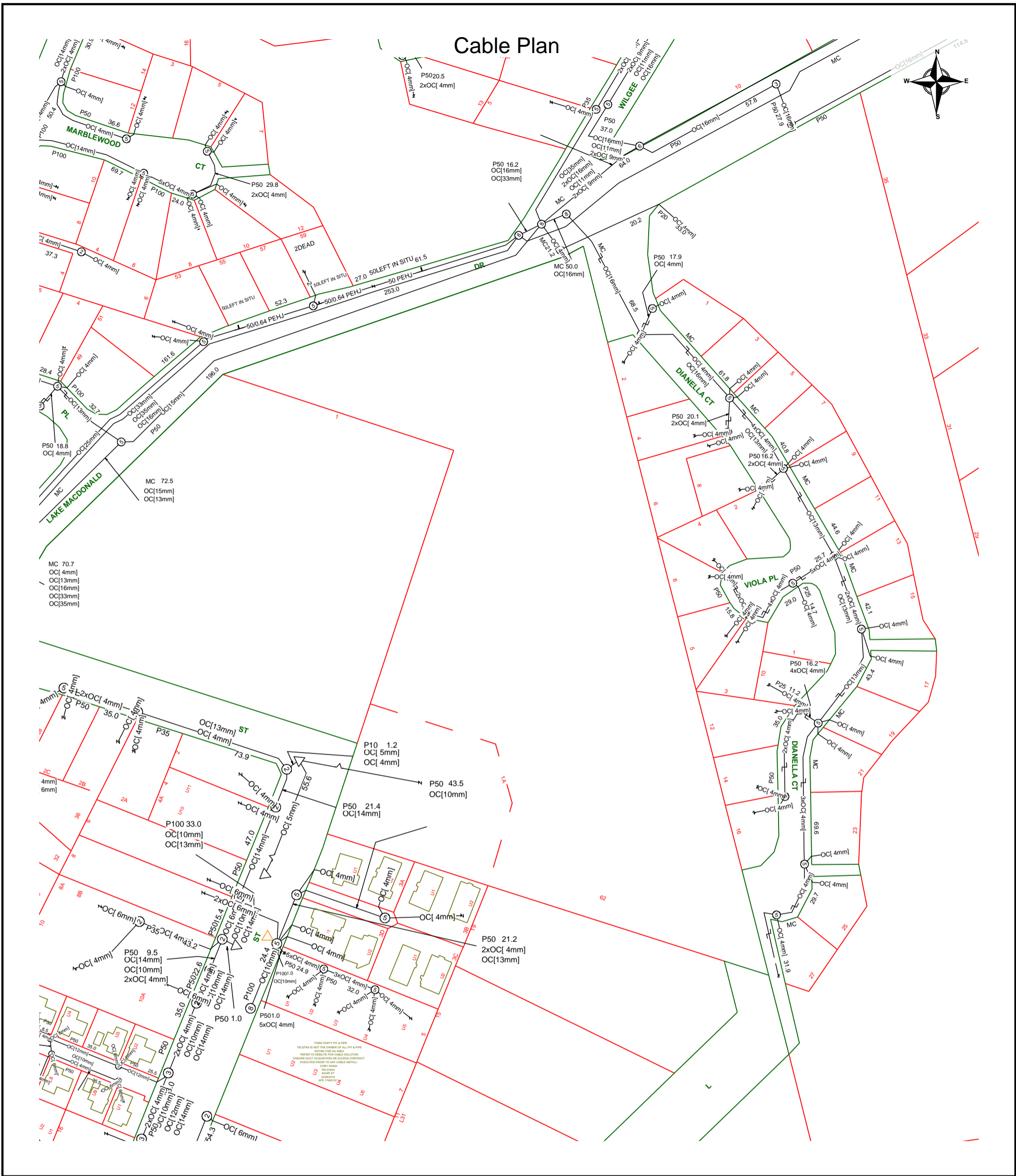
- Stormwater Chamber**
 - Manhole
 - Pit
 - ▲ Water Quality
 - ▲ Structures
- Stormwater Pipe**
 - Pipe
 - Allotment
 - ▬ Culvert
- TeleComm Networks
- Open Drain
- - - Flood Alert Station Pipe
- Leachate Rising Main
- ▨ Water Quality
- ▨ Easement
- ▨ Covenant



Scale: 1:1000
Expires: 21 Mar 2023

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Tile No: 4



 Report Damage: <https://service.telstra.com.au/customer/general/forms/report-damage-to-telstra-equipment>
 Ph - 13 22 03
 Email - Telstra.Plans@team.telstra.com
 Planned Services - ph 1800 653 935 (AEST bus hrs only) General Enquiries

Sequence Number: 221446986

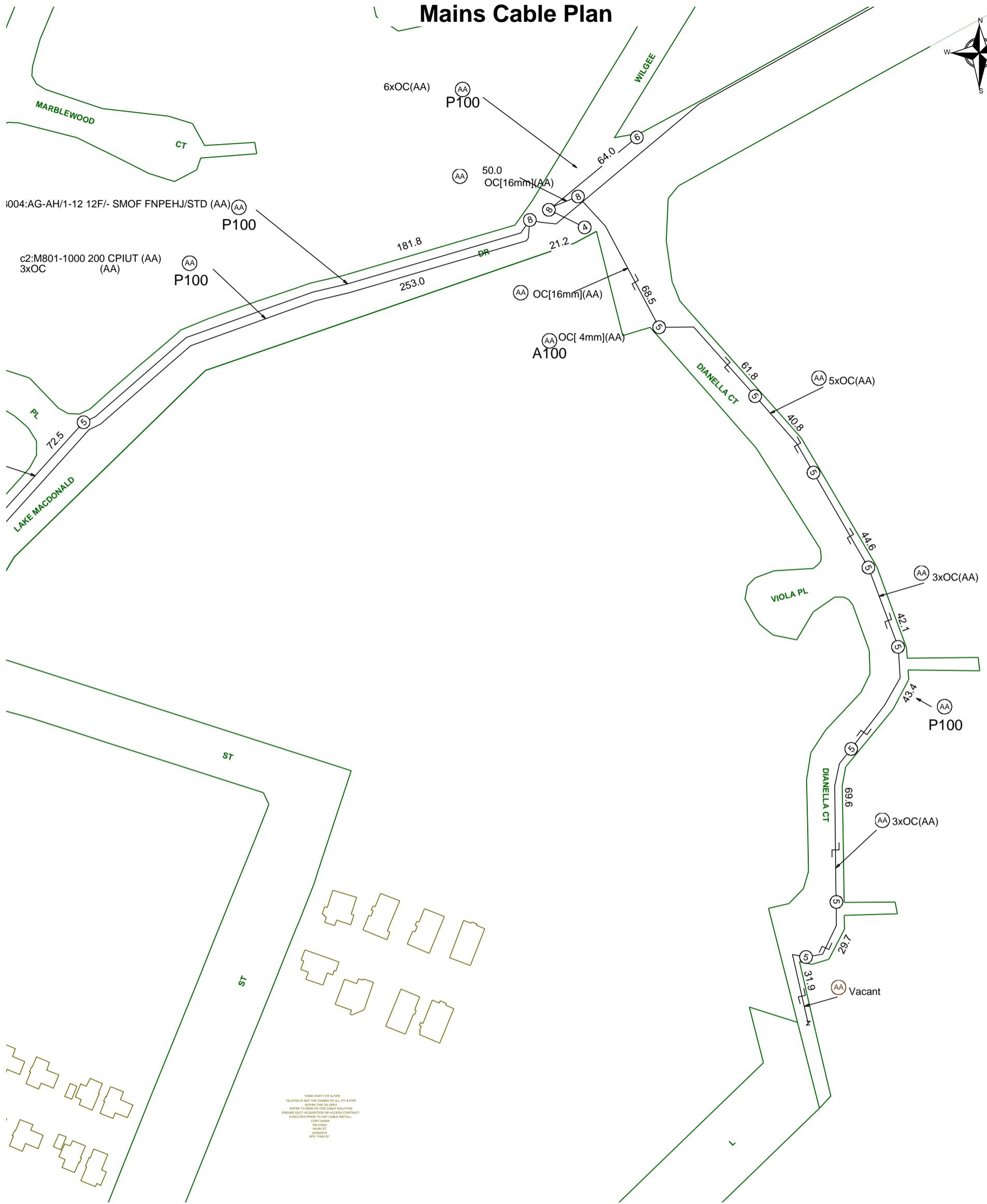
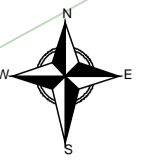
TELSTRA LIMITED A.C.N. 086 174 781
 Generated On 21/02/2023 12:40:35

CAUTION: Fibre optic and/ or major network present in plot area. Please read the Duty of Care and contact Telstra Plan Services should you require any assistance.

The above plan must be viewed in conjunction with the Mains Cable Plan on the following page

WARNING
 Telstra plans and location information conform to Quality Level "D" of the Australian Standard AS 5488-Classification of Subsurface Utility Information. As such, Telstra supplied location information is indicative only. Spatial accuracy is not applicable to Quality Level D. Refer to AS 5488 for further details. The exact position of Telstra assets can only be validated by physically exposing it. Telstra does not warrant or hold out that its plans are accurate and accepts no responsibility for any inaccuracy. Further on site investigation is required to validate the exact location of Telstra plant prior to commencing construction work. A Certified Locating Organisation is an essential part of the process to validate the exact location of Telstra assets and to ensure the asset is protected during construction works.
 See the Steps- Telstra Duty of Care that was provided in the email response.

Mains Cable Plan



THIRD PARTY PIT & PIPE
 TELSTRA IS NOT THE OWNER OF ALL PIT & PIPE
 REFER TO RECORDS FOR CABLE SOLUTION
 ENSURE DUCT ACQUISITION OR ACCESS CONTRACT
 EXECUTED PRIOR TO ANY CABLE INSTALL
 COPY DATA
 PLANNING
 KALUM ET
 22/02/2023
 APT 1782107



Report Damage: <https://service.telstra.com.au/customer/general/forms/report-damage-to-telstra-equipment>
 Ph - 13 22 03
 Email - Telstra.Plans@team.telstra.com
 Planned Services - ph 1800 653 935 (AEST bus hrs only) General Enquiries

Sequence Number: 221446986

CAUTION: Fibre optic and/ or major network present in plot area. Please read the Duty of Care and contact Telstra Plan Services should you require any assistance.

TELSTRA LIMITED A.C.N. 086 174 781

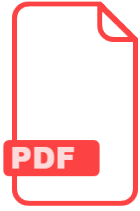
Generated On 21/02/2023 12:40:36

WARNING
 Telstra plans and location information conform to Quality Level "D" of the Australian Standard AS 5488-Classification of Subsurface Utility Information. As such, Telstra supplied location information is indicative only. Spatial accuracy is not applicable to Quality Level D. Refer to AS 5488 for further details. The exact position of Telstra assets can only be validated by physically exposing it. Telstra does not warrant or hold out that its plans are accurate and accepts no responsibility for any inaccuracy. Further on site investigation is required to validate the exact location of Telstra plant prior to commencing construction work. A Certified Locating Organisation is an essential part of the process to validate the exact location of Telstra assets and to ensure the asset is protected during construction works.
 See the Steps- Telstra Duty of Care that was provided in the email response.



OPENING ELECTRONIC MAP ATTACHMENTS -

Telstra Cable Plans are generated automatically in either PDF or DWF file types dependant on the site address and the size of area selected. You may need to download and install free viewing software from the internet e.g.



PDF Map Files (max size A3)

Adobe Acrobat Reader (<http://get.adobe.com/reader/>),



DWF Map Files (all sizes over A3)

Autodesk A360 (<https://360.autodesk.com/viewer>) or

Autodesk Design Review (<http://usa.autodesk.com/design-review/>) for DWF files.
(Windows)



Telstra DBYD map related enquiries

email - Telstra.Plans@team.telstra.com

1800 653 935 (AEST Business Hours only)



REPORT ANY DAMAGE TO THE TELSTRA NETWORK IMMEDIATELY

Report online - <https://service.telstra.com.au/customer/general/forms/report-damage-to-telstra-equipment>

Ph: 13 22 03

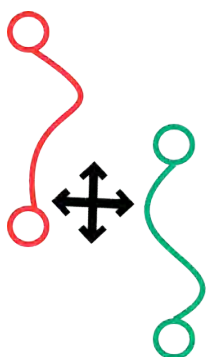
If you receive a message asking for a phone or account number say:

"I don't have one" then say "Report Damage" then press 1 to speak to an operator.



Telstra New Connections / Disconnections

13 22 00



Telstra asset relocation enquiries: 1800 810 443 (AEST business hours only).

NetworkIntegrity@team.telstra.com

<https://www.telstra.com.au/consumer-advice/digging-construction>

Certified Locating Organisation (CLO)

<https://dbydlocator.com/certified-locating-organisation/>



Please refer to attached Accredited Plant Locator.pdf




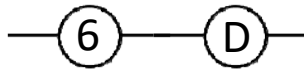


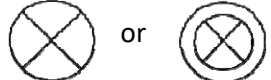

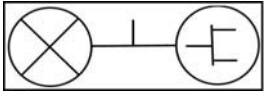








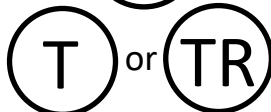
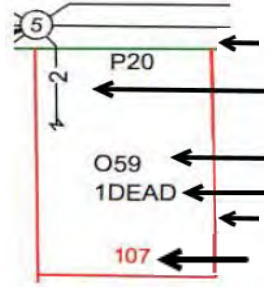

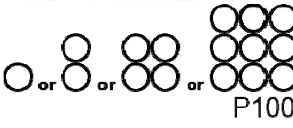

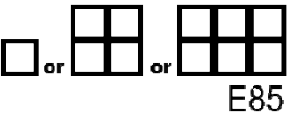
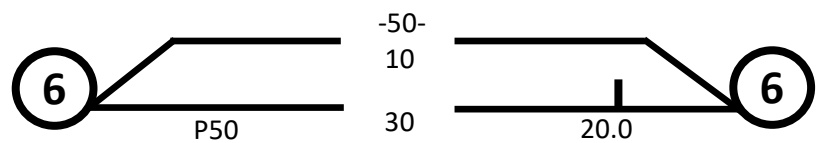
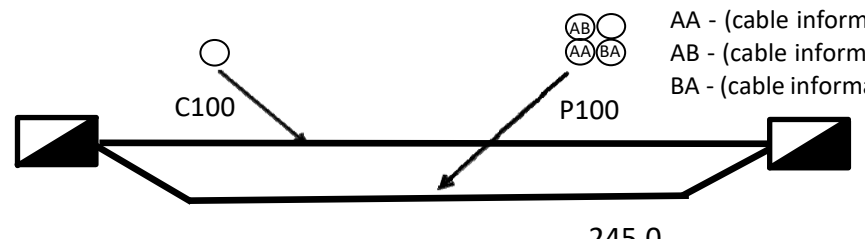
Telstra Smart Communities

Information for new developments (developers, builders, homeowners)

<https://www.telstra.com.au/smart-community>

LEGEND

For more info contact a [Certified Locating Organisation](#) or Telstra Plan Services 1800 653 935

	Exchange (Major Cable Present)		Cable Jointing Pit (number / Letter indicating Pit Type)
	Footway Access Chamber (can vary from 1-lid to 12-lid)		Elevated Joint (above ground joint on buried cable)
	Pillar / Cabinet (above ground / free standing)		Telstra Plant in shared Utility trench
	Above ground complex equipment housing (eg RIM) Please Note: This equipment is powered by 240V Electricity		Aerial Cable
	Other Carrier Telecommunications Cable/Asset		Aerial Cable (attached to joint Use Pole eg. Power)
	Distribution cables in Main Cable ducts		Direct Buried Cable
	Main Cable ducts on a Distribution plan		Marker Post Installed
	Blocked or damaged duct.		Buried Transponder
	Roadside / Front Boundary 2 pair lead-in to property from pit in street 1 O59 ← pair working (pair ID 059) 1DEAD ← 1 pair dead (i.e. spare, not connected) Side / Rear Property Boundary Property Number 107		Marker Post, Transponder
	Single to multiple round conduit Configurations 1,2,4,9 respectively (attached text denotes conduit type and size)		Optical Fibre cable direct buried
	Multiple square conduit Configurations 2, 4, 6 respectively (attached text denotes conduit type and size)	<div style="border: 1px solid black; padding: 5px;"> <p>Some examples of conduit type and size:</p> <p>A - Asbestos cement, P - PVC / Plastic, C - Concrete, GI - Galanised iron, E - Earthenware Conduit sizes <i>nominally</i> range from 20mm to 100mm P50 50mm PVC conduit P100 100mm PVC conduit A100 100mm asbestos cement conduit</p> </div>	
Some Examples of how to read Telstra Plans			
	-50- 10 30		AA - (cable information) AB - (cable information) BA - (cable information)
	P50	20.0	One 50mm PVC conduit (P50) containing a 50-pair and a 10-pair cable between two 6-pits. approximately 20.0m apart, with a direct buried 30-pair cable along the same route
		245.0	Two separate conduit runs between two footway access chambers (manholes) approximately 245m apart A nest of four 100mm PVC conduits (P100) containing assorted cables in three ducts (one being empty) and one empty 100mm concrete duct (C100) along

WARNING: Telstra plans and location information conform to Quality Level 'D' of the Australian Standard AS 5488 - Classification of Subsurface Utility Information. As such, Telstra supplied location information is indicative only. Spatial accuracy is not applicable to Quality Level D. Refer to AS 5488 for further details. Telstra does not warrant or hold out that its plans are accurate and accepts no responsibility for any inaccuracy shown on the plans. FURTHER ON SITE INVESTIGATION IS REQUIRED TO VALIDATE THE EXACT LOCATION OF TELSTRA PLANT PRIOR TO COMMENCING CONSTRUCTION WORK. A plant location service is an essential part of the process to validate the exact location of Telstra assets and to ensure the assets are protected during construction works. The exact position of Telstra assets can only be validated by physically exposing them. Telstra will seek compensation for damages caused to its property and losses caused to Telstra and its customers.

UNITYWATER BYDA MAP

Sequence Number: 221446985

Job Number: 33661709

Printed On: 21/02/2023

Emergency Situations
Call Unitywater:
1300 086 489

This information on this plan is valid
for 30 days from "Printed On" date.

Legend

	Extent of Unitywater Area		Sewer Gravity Main
	Water Pump Station		Trunk Main
	Water Service		Reticulation Main
	Water Valve		Overflow Main
	Water Pipe (Abandoned)		Sewer Pipe (Abandoned)
	Water Hydrant		Sewer Pressure Main
	Water Fitting		Pressure Sewer
	Water Main		Rising Main
	Trunk Main		Vacuum Main
	Reticulation Main		Pressure Sewer Service
	Sewer Pump Station		Sewer Service
	Sewer Manhole		Recycled Water
	Sewer Valve		Recycled Water Valve
	Sewer Fitting		Recycled Water Hydrant
			Recycled Water Fitting
			Recycled Water Pipe (Abandoned)
			Recycled Water Main

Scale: 1:2051
(If printed at 100%
on A3 size paper)

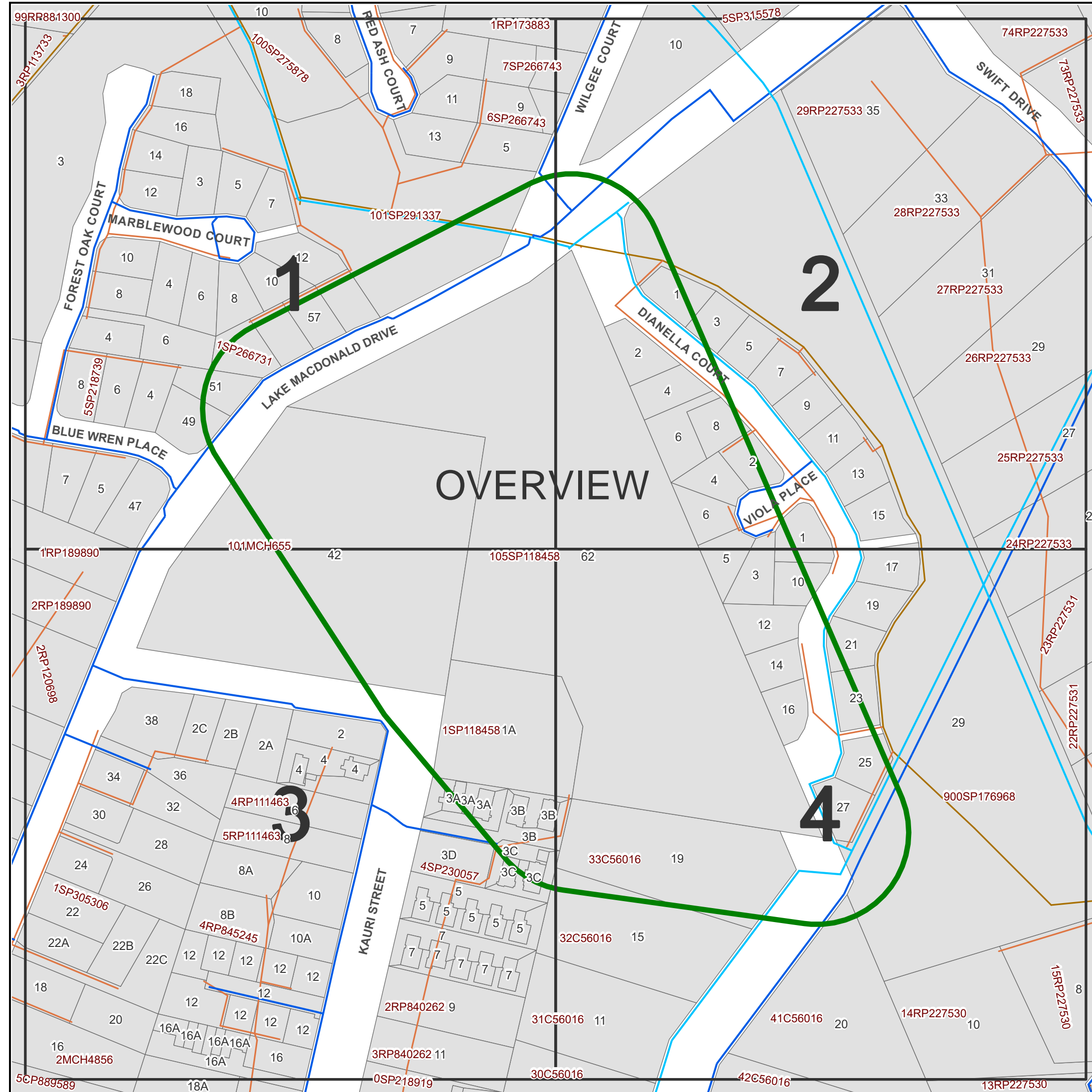


Unitywater

Before You Dig Australia
Geospatial Information Systems
Ground Floor, 33 King St
Caboolture QLD 4510
Inquiries: 1300 0 Unity (1300 086 489)
Email: dbyd@unitywater.com

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Sequence Number: 221446985

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1300 086 489

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Legend

	Extent of Unitywater Area		Sewer Gravity Main
Water			Trunk Main
	Water Pump Station		Reticulation Main
	Water Service		Overflow Main
	Water Valve		Sewer Pipe (Abandoned)
	Water Pipe (Abandoned)	Sewer Pressure Main	
	Water Hydrant		Pressure Sewer
	Water Fitting		Rising Main
Water Main			Vacuum Main
	Trunk Main		Pressure Sewer Service
	Reticulation Main		Sewer Service
Sewer		Recycled Water	
	Sewer Pump Station		Recycled Water Pump Station
	Sewer Manhole		Recycled Water Valve
	Sewer Valve		Recycled Water Hydrant
	Sewer Fitting		Recycled Water Fitting
			Recycled Water Pipe (Abandoned)
			Recycled Water Main

Map Tile: 1
Scale: 1:1000
(If printed at 100%
on A3 size paper)

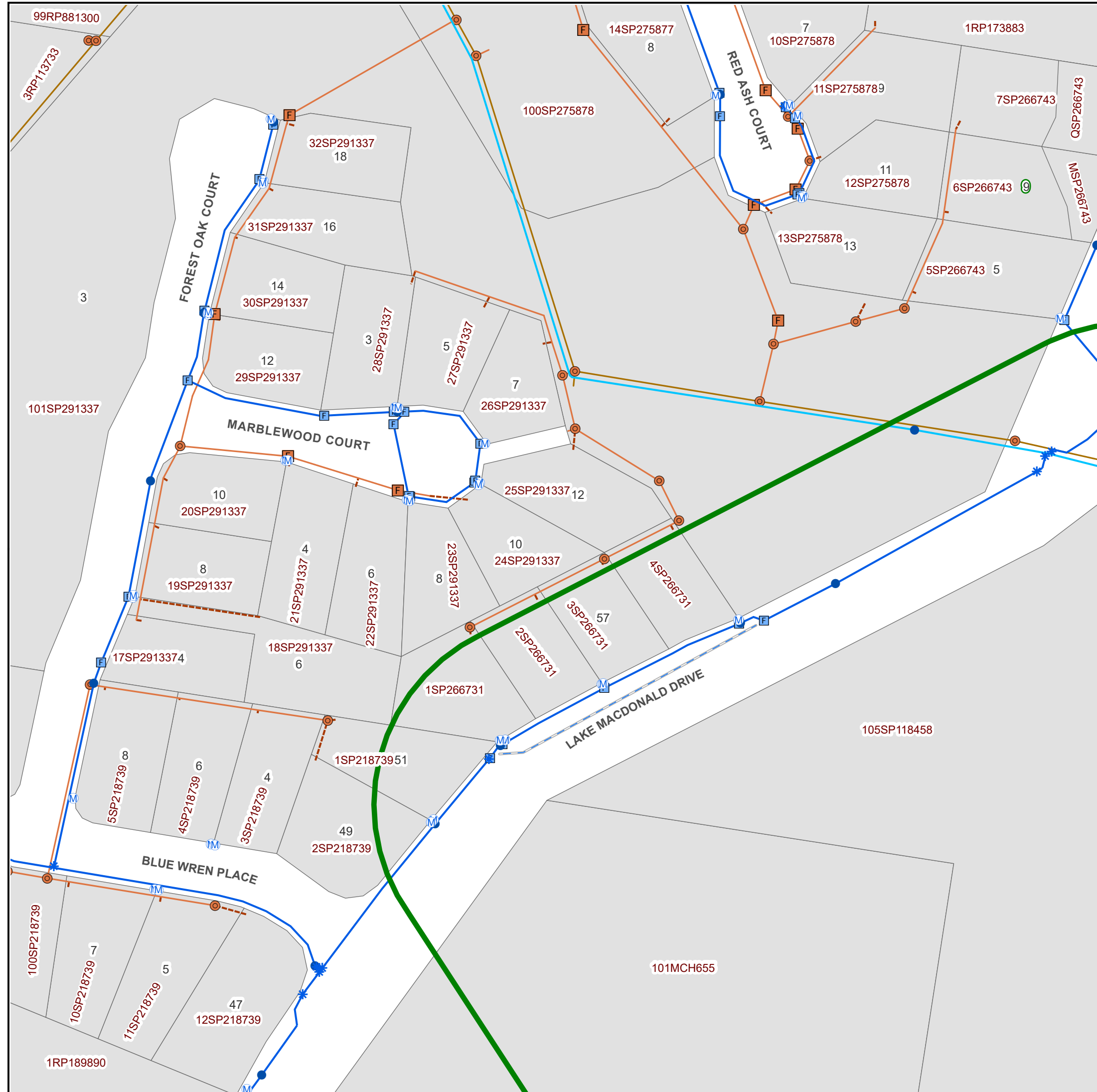


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Legend

	Extent of Unitywater Area		Sewer Gravity Main Trunk Main
	Water Pump Station		Sewer Gravity Main Reticulation Main
	Water Service		Sewer Gravity Main Overflow Main
	Water Valve		Sewer Gravity Main Sewer Pipe (Abandoned)
	Water Pipe (Abandoned)		Sewer Pressure Main Pressure Sewer
	Water Hydrant		Sewer Pressure Main Rising Main
	Water Fitting		Sewer Pressure Main Vacuum Main
	Water Main Trunk Main		Sewer Pressure Main Pressure Sewer Service
	Water Main Reticulation Main		Sewer Pressure Main Sewer Service
	Sewer Sewer Pump Station		Recycled Water Recycled Water Pump Station
	Sewer Sewer Manhole		Recycled Water Recycled Water Valve
	Sewer Sewer Valve		Recycled Water Recycled Water Hydrant
	Sewer Sewer Fitting		Recycled Water Recycled Water Fitting
			Recycled Water Recycled Water Pipe (Abandoned)
			Recycled Water Recycled Water Main

Map Tile: 2
Scale: 1:1000
(If printed at 100%
on A3 size paper)

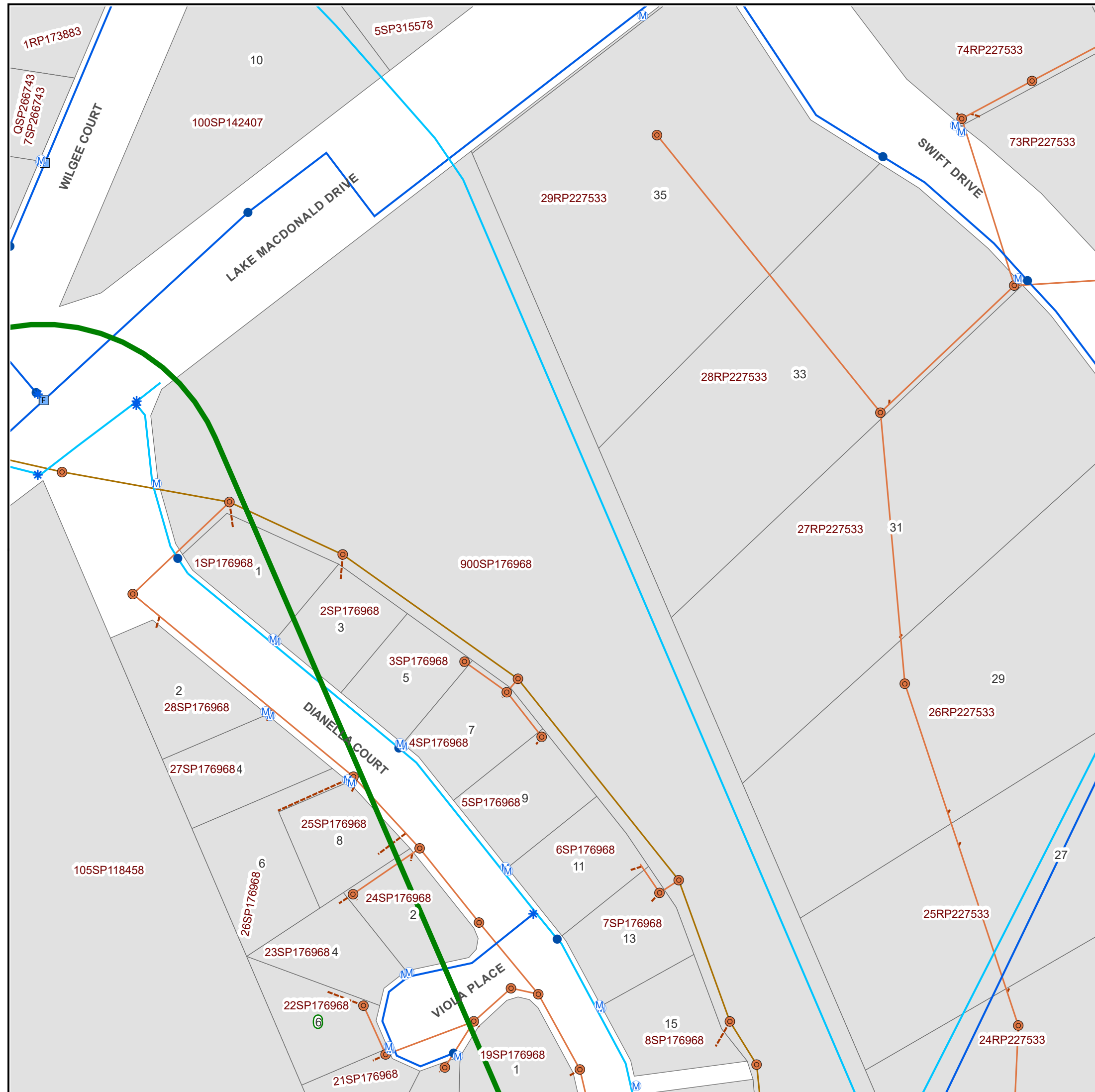


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 1300 086 489

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Legend

	Extent of Unitywater Area		Sewer Gravity Main
	Water Pump Station		Trunk Main
	Water Service		Reticulation Main
	Water Valve		Overflow Main
	Water Pipe (Abandoned)		Sewer Pipe (Abandoned)
	Water Hydrant		Sewer Pressure Main
	Water Fitting		Pressure Sewer
	Water Main		Rising Main
	Trunk Main		Vacuum Main
	Reticulation Main		Pressure Sewer Service
	Sewer Pump Station		Sewer Service
	Sewer Manhole		Recycled Water
	Sewer Valve		Recycled Water Pump Station
	Sewer Fitting		Recycled Water Valve
			Recycled Water Hydrant
			Recycled Water Fitting
			Recycled Water Pipe (Abandoned)
			Recycled Water Main

Map Tile: 3
 Scale: 1:1000
 (If printed at 100%
 on A3 size paper)

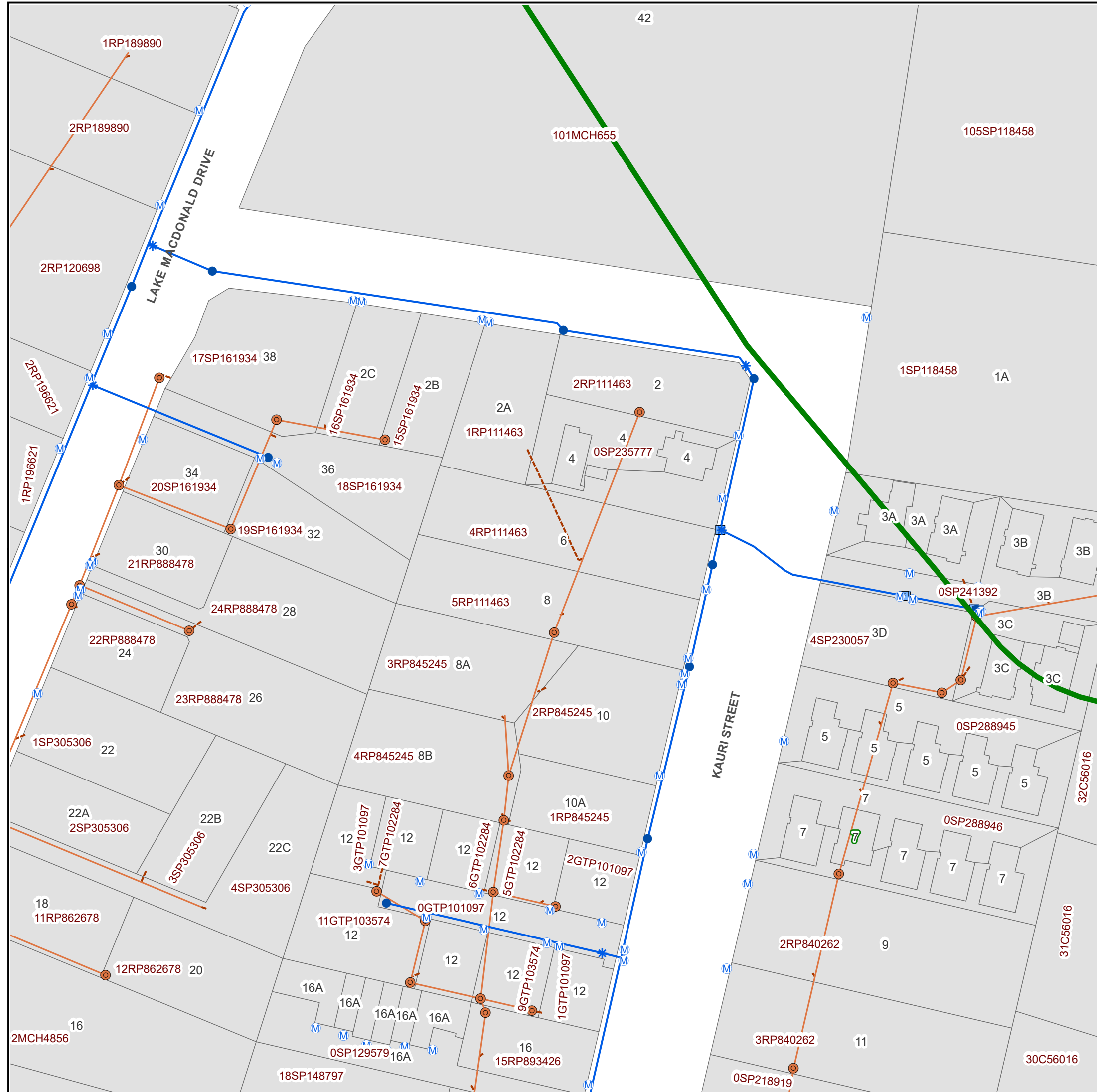


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Legend

	Extent of Unitywater Area		Sewer Gravity Main
Water			Trunk Main
	Water Pump Station		Reticulation Main
	Water Service		Overflow Main
	Water Valve		Sewer Pipe (Abandoned)
	Water Pipe (Abandoned)	Sewer Pressure Main	
	Water Hydrant		Pressure Sewer
	Water Fitting		Rising Main
Water Main			Vacuum Main
	Trunk Main		Pressure Sewer Service
	Reticulation Main		Sewer Service
Sewer		Recycled Water	
	Sewer Pump Station		Recycled Water Pump Station
	Sewer Manhole		Recycled Water Valve
	Sewer Valve		Recycled Water Hydrant
	Sewer Fitting		Recycled Water Fitting
			Recycled Water Pipe (Abandoned)
			Recycled Water Main

Map Tile: 4
Scale: 1:1000
(If printed at 100%
on A3 size paper)

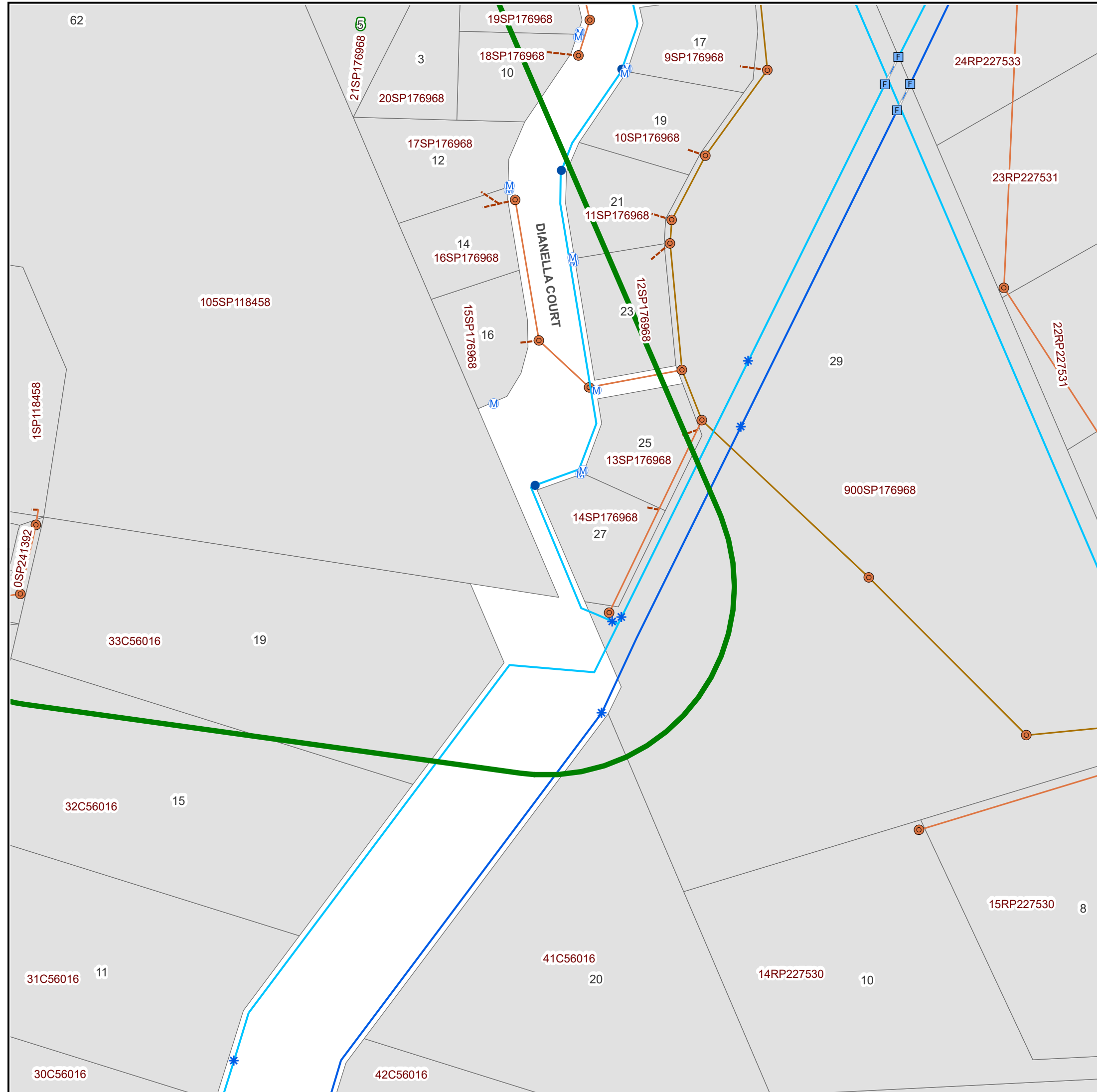


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Andrew Winters
Environmental Advisors Pty Ltd
168 Flaxton Drive
Mapleton QLD 4560

21/02/2023



Dear Andrew Winters

Response to your recent enquiry: Unitywater infrastructure is located on the property

Your recent Before You Dig (BYDA) enquiry about the location of water and sewerage assets on your property of interest has been sent to Unitywater.

Unitywater has located water and/or sewerage infrastructure on the property. Attached is a map locating the infrastructure and identifying the type of infrastructure that has been identified. The map and information contained on this map is valid for 30 days from Unitywater plan print date.

Also attached to this letter is additional information about your responsibilities in relation to our infrastructure.

Sequence No: 221446985

Job No: 33661709

Location: 62 Lake Macdonald Drive Cooroy

If you have further questions, please call the Customer Service Centre on 1300 0 UNITY (1300 086 489).

Yours sincerely



Ivan Beirne

Head of Asset Management





Unitywater
Serving you today, investing in tomorrow.

Important Information

Disclaimer

All Unitywater's records, data and information supplied via BYDA are indicative only. You agree that any plans supplied to you has been or will be provided only for your convenience and has not been and will not be relied upon by you for any purpose.

You also agree that Unitywater does not assume any responsibility or duty of care in respect of, or warrant, guarantee or make any representation as to the Data (including its accuracy, reliability, currency or suitability).

Unitywater's plans only indicates the general vicinity of infrastructure in a geographic area and does not state the depths at which infrastructure could be buried. You must first physically locate the infrastructure by utilising relevant site detection methodologies prior to performing any works or undertaking any activities near or adjacent to our infrastructure. You are solely responsible for the selection of appropriate site detection methodologies at all times.

To the fullest extent permitted by law, Unitywater will not be liable to you in contract, tort, equity, under statute or otherwise arising from or in connection with the provision of any plans to you via BYDA.

Compliance with laws

There may be both indicated and unmarked hazards, dangers or encumbrances, including underground asbestos pipes and abandoned mains within your nominated search area. You are solely responsible for ensuring that appropriate care is taken at all times and that you comply with all mandatory requirements relating to such matters, including in relation to workplace health and safety.

Damaged Infrastructure

Please note that it is an offence under Section 192 of the *Water Supply (Safety and Reliability) Act 2008* to interfere with our infrastructure without Unitywater's written consent.

You may be liable to Unitywater for any loss of or damage to our infrastructure, together with any consequential or indirect loss or damage (including without limitation, loss of use, loss of profits or loss of revenue) arising from or in connection with any interference with Unitywater's infrastructure by you or any other person for which you are legally responsible.

Any damage to Unitywater's Infrastructure must be reported immediately to the (24 Hours) Faults and Emergencies contact number on **1300 0 UNITY** (1300 086 489).

Copyright

All Data is copyright.

Notes

If you require further details on sewerage and water infrastructure, Detailed Infrastructure Plans are available for purchase. A request form is available through Unitywater's website <http://www.unitywater.com> or by contacting the Customer Service Centre on 1300 0 UNITY (1300 086 489).

Unitywater water and sewerage infrastructure is located across Moreton Bay, Sunshine Coast and Noosa local government areas. For information outside these areas you will need to contact the relevant authority.



Appendix N

Groundwater Logs and Other Information



BORE LOG REPORT

Client: Noosa Council
Project: Lake Macdonald Drive, Cooroy
Location: Lot 105, SP118458 Cooroy
Monitoring Bore: MB1
Job Number: 125
Total Depth: 8.0mbgl
Stick-up: 0.8m
Logged by: AW
R L Surface: -
Date: 22/02/2024
Datum: Ground level
Contractor: Legion Drilling
Machinery: Drill Rig
Operator: -
Auger Size: 100mm

Depth	Method	Ground water	Construction	Material Description	Sample ID Test Depth (m)	Test Results/Field Records
0.0				0-3.3 Red silty clay		
2.5						water at 3.3 on sandstone
3.3				3.3-8.0 White/grey sandstone		
5.0						
10.0				refusal on rock at 8mbgl		
15.0						
20.0						
25						

Drill Rig with 100mm auger





BORE LOG REPORT

Client: Noosa Council
Project: Lake Macdonald Drive, Cooroy
Location: Lot 105, SP118458 Cooroy
Monitoring Bore: MB2
Job Number: 125
Total Depth: 30 mbgl
Stick-up: 0.75m
Logged by: AW
R L Surface: -
Date: 22/02/2024
Datum: Ground level
Contractor: Legion Drilling
Machinery: Drill Rig
Operator: -
Auger Size: 100mm

Depth	Method	Ground water	Construction	Material Description	Sample ID Test Depth (m)	Test Results/Field Records
0.0				0-5 Red silty clay		
2.5						
5.0				5-7 White/grey sandstone		water at 5mbgl on sandstone
7.5				7-13 Red to white clay		
10.0						
12.5				13-19 White to red sandstone		
15.0						
17.5				19-30 Blue basalt		
20.0						
30				End BH at 30mbgl - target depth reached		



BORE LOG REPORT

Client: Noosa Council
Project: Lake Macdonald Drive, Cooroy
Location: Lot 105, SP118458 Cooroy
Monitoring Bore: MB3
Job Number: 125
Total Depth: 7.6mbgl
Stick-up: 0.8m
Logged by: AW
R L Surface: -
Date: 22/02/2024
Datum: Ground level
Contractor: Legion Drilling
Machinery: Drill Rig
Operator: -
Auger Size: 100mm

Depth	Method	Ground water	Construction	Material Description	Sample ID Test Depth (m)	Test Results/Field Records
0.0				0-0.5 Grey silt		no water or wet geology encountered
				0.5-2.5 Red silty clay		
2.5				2.5-5.5 white/red mottled clay		
5.0				5.5-7.6 shale or possible blue basalt		
10.0				refusal on rock at 7.6mbgl		
15.0	Drill Rig with 100mm auger					
20.0						
25						



BORE LOG REPORT

Client: Noosa Council
Project: Lake Macdonald Drive, Cooroy
Location: Lot 105, SP118458 Cooroy
Monitoring Bore: MB4
Job Number: 125
Total Depth: 25 mbgl
Stick-up: 0.71m
Logged by: AW
R L Surface: -
Date: 22/02/2024
Datum: Ground level
Contractor: Legion Drilling
Machinery: Drill Rig
Operator: -
Auger Size: 100mm

Depth	Method	Ground water	Construction	Material Description	Sample ID Test Depth (m)	Test Results/Field Records
0.0				0-2.1 Red silty clay		
2.5				2-5 White to grey clay		
5.0				5-8 Red to grey sandstone		
10.0				8-11 Yellow sandstone		
15.0				11-14 Red clay		layer of saturated geology
20.0				14-16.9 Yellow to tan sandstone		
25				16.9-25 White to grey sandstone		
25				End BH at 25mbgl - target depth reached		





Purging and Sampling Record

Bore ID: **MB1**

Job Information	Sampling Information	Bore Information
Client: NSC	Purge Method: AIR / BAILER	SWL(mbTOC): 0.29 m
Project: 62 CASE MICROBIAL DR	Sample Method: BAILER	Screen: 2 - 8 m by 1 m
Proj. No.: 125	WQ Meter Type: YSI	NAPL Check: NP
Sampler: Au	Flow Cell: Y (N)	Ref. datum: ---
Date: 11/13/24	Pump Depth: --- m	Bore Depth: 8 m by 1 m
Round: 1	WLevel Meter Type: Dip / Fox / Int. Foe / Gge	Well Cap Secure? (N)
Field Filtered? Y / N (filter vessel, disposable filter, filter/syringe)		

Time	Volume (L)	Temp (°C)	pH (pH units)	Elec. Cond (µS/cm)	Dis. Oxygen (mg/L)	Ox-Red Pt (± mV)	SWL (m TOC)	Comment
0	BAILERS							Colour, turbidity, sediment load, sheen, odour, flow rate, purged dry?
Stable when (3 consecutive readings)		-	+/- 0.05 pH	+/- 3%	+/- 10%	+/- 10 mV	stable	
1129	1	23.3	3.99	127	6.12	163	SAFE	11:22 AM - 1.76 bTOC SWL AFTER
1130	2	23.1	3.96	106	4.9	157	COMMENTS	30 BAILERS REMOVED. TOWNS 0-85 mbtoC
1131	3	22.8	3.83	124	3.30	149		AT 11:27 AM.
1132	4	22.8	3.85	125	3.74	137		CLEAR TO BAWN TURBID
1133	5	22.7	3.82	125	3.69	136		
								SAMPLE MB1-1

Field QA Checks:

Air bubbles in vials? Y / **(N)** Any violent reactions? Y / **(N)**
 Decontamination as per NEPM procedure? **(Y)** / N
 Was sampling equipment pre-cleaned? **(Y)** / N
 COC updated? **(N)**

Parameters	BTEX	TPH	PAH	CHC	PCB	OCP	OPP	Tot. Metal	Biol.
Preservatives			SAFE	COE					



Purging and Sampling Record

Bore ID: **MB2**

Job Information		Sampling Information		Bore Information	
Client: NSC	Purge Method: AM / BAUER	SWL(mbTOC): 2.72	m	Logic Check: <input checked="" type="checkbox"/>	
Project: 62 LAKE MCK DV	Sample Method: BAUER	Screen: 12-30 mbsl	m	Stick Up: 0.75	m
Proj. No.: 125	WQ Meter Type: YSI	NAPL Check: NO		Bore Diam.: 50	mm
Sampler: AW	Flow Cell: Y (N)	Pump Depth:	m	Well Cap Secure? <input checked="" type="checkbox"/>	Y/N
Date: 14/3/24	WLevel Meter Type: Dip / Fox / Int.Fce / Gge	Ref.datum: -		Bore Depth: 30	m
Round: 1	Field Filtered? Y / N (filter vessel, disposable filter, filter/syringe)				

Time	Volume	Temp	pH	Elec. Cond	Dis. Oxygen	Ox-Red Pt.	SWL	Comment:
	(L)	(°C)	(pH units)	($\mu S/cm$)	(mg/L)	(± mV)	(m TOC)	Colour, turbidity, sediment load, sheen, odour, flow rate, purged dry?
0	BAUER			45				
Stable when (3 consecutive readings):		-	+/- 0.05 pH	+/- 3%	+/- 10%	+/- 10 mV	stable	
1056	1	22.5	5.46	315	3.13	102	SEE	10:46 AM - AFTER 30 BAUERS SWL
1057	2	22.3	5.50	318	1.95	86	COMMENTS	BTOC WAS 5.66m - RECOVERED TO
1057	3	22.1	5.54	317	2.37	78		4.81 mbtlc at 10:54 AM.
1058	4	22.0	5.53	321	1.88	70		TURBIDITY FROM CLEAR TO MILKY.
1059	5	22.2	5.59	321	2.23	66		
1100	6	22.2	5.59	321	2.10	64		SAMPLE MB2-1

Field QA Checks:

Air bubbles in vials? Y / N

Any violent reactions? Y / N

Decontamination as per NEPM procedure? Y / N

Was sampling equipment pre-cleaned? Y / N

COC updated? Y / N

Parameters	BTEX	TPH	PAH	CHC	PCB	OCP	OPP	Tot. Metal	Biol.				
Preservatives					SAT		COC						

Table 1C Groundwater Investigation Levels (GILs)

Substance	Groundwater Investigation Levels		
	Fresh Waters ^A	Marine Waters ^A	Drinking Water ^B
	(µg/L)	(µg/L)	(mg/L)
Metals and Metalloids			
Aluminium, Al pH>6.5	55	-	-
Antimony	-	-	0.003
Arsenic	24 as As(III) 13 as As(V)	-	0.01
Barium	-	-	2
Beryllium	-	-	0.06
Boron	370 ^C	-	4
Cadmium H	0.2	0.7 ^D	0.002
Chromium, Cr (III) H	-	27	-
Chromium, Cr (VI)	1 ^C	4.4	0.05
Cobalt	-	1	-
Copper H	1.4	1.3	2
Iron, (Total)	-	-	-
Lead H	3.4	4.4	0.01
Manganese	1900 ^C	-	0.5
Mercury (Total)	0.06 ^D	0.1 ^D	0.001
Molybdenum	-	-	0.05
Nickel H	11	7	0.02
Selenium (Total)	5 ^D	-	0.01
Silver	0.05	1.4	0.1
Tributyl tin (as Sn)	-	0.006 ^C	-
Tributyl tin oxide	-	-	0.001
Uranium	-	-	0.017
Vanadium	-	100	-
Zinc H	8 ^C	15 ^C	-
Non-metallic Inorganics			
Ammonia ^E (as NH ₃ -N at pH 8)	900 ^C	910	-
Bromate	-	-	0.02
Chloride	-	-	-
Cyanide (as un-ionised Cn)	7	4	0.08
Fluoride	-	-	1.5
Hydrogen sulphide (un-ionised H ₂ S measured as S)	1	-	-
Iodide	-	-	0.5
Nitrate (as NO ₃)	refer to	refer to	50

Substance	Groundwater Investigation Levels		
	Fresh Waters ^A	Marine Waters ^A	Drinking Water ^B
	(µg/L)	(µg/L)	(mg/L)
	guideline	guideline	
Nitrite (as NO ₂)	refer to guideline	refer to guideline	3
Nitrogen	refer to guideline	refer to guideline	-
Phosphorus	refer to guideline	refer to guideline	-
Sulphate (as SO ₄)	-	-	500
Organic alcohols/other organics			
Ethanol	1400	-	-
Ethylenediamine tetra-acetic acid (EDTA)	-	-	0.25
Formaldehyde	-	-	0.5
Nitrilotriacetic acid	-	-	0.2
Anilines			
Aniline	8	-	-
2,4-Dichloroaniline	7	-	-
3,4-Dichloroaniline	3	150	-
Chlorinated Alkanes			
Dichloromethane	-	-	0.004
Trichloromethane (chloroform)	-	-	0.003
Trihalomethanes (total)	-	-	0.25
Tetrachloromethane (carbon tetrachloride)	-	-	0.003
1,2-Dichloroethane	-	-	0.003
1,1,2-Trichloroethane	6500	1900	-
Hexachloroethane	290 ^D	-	-
Chlorinated Alkenes			
Chloroethene (vinyl chloride)	-	-	0.0003
1,1-Dichloroethene	-	-	0.03
1,2-Dichloroethene	-	-	0.06
Tetrachloroethene (PCE) (Perchloroethene)	-	-	0.05
Chlorinated Benzenes			
Chlorobenzene	-	-	0.3
1,2- Dichlorobenzene	160	-	1.5
1,3- Dichlorobenzene	260	-	-
1,4- Dichlorobenzene	60	-	0.04

Substance	Groundwater Investigation Levels		
	Fresh Waters ^A	Marine Waters ^A	Drinking Water ^B
	(µg/L)	(µg/L)	(mg/L)
1,2,3- Trichlorobenzene	3 ^D	-	0.03 for individual or total trichlorobenzenes
1,2,4- Trichlorobenzene	85 ^D	20 ^D	
1,3,5-Trichlorobenzene	-	-	
Polychlorinated Biphenyls (PCBs)			
Aroclor 1242	0.3 ^D	-	-
Aroclor 1254	0.01 ^D	-	-
Other Chlorinated Compounds			
Epichlorohydrin	-	-	0.1
Hexachlorobutadiene	-	-	0.0007
Monochloramine	-	-	3
Monocyclic Aromatic Hydrocarbons			
Benzene	950	500 ^C	0.001
Toluene	-	-	0.8
Ethylbenzene	-	-	0.3
Xylenes	350 (as o-xylene) 200 (as p-xylene)	-	0.6
Styrene (Vinyl benzene)	-	-	0.03
Polycyclic Aromatic Hydrocarbons (PAHs)			
Naphthalene	16	50 ^C	-
Benzo[a]pyrene	-	-	0.00001
Phenols			
Phenol	320	400	-
2-Chlorophenol	340 ^C	-	0.3
4-Chlorophenol	220	-	-
2,4-Dichlorophenol	120	-	0.2
2,4,6-Trichlorophenol	3 ^D	-	0.02
2,3,4,6-Tetrachlorophenol	10 ^D	-	-
Pentachlorophenol	3.6 ^D	11 ^D	0.01
2,4-Dinitrophenol	45	-	-
Phthalates			
Dimethylphthalate	3700	-	-
Diethylphthalate	1000	-	-
Dibutylphthalate	10 ^D	-	-
Di(2-ethylhexyl) phthalate	-	-	0.01

Substance	Groundwater Investigation Levels		
	Fresh Waters ^A	Marine Waters ^A	Drinking Water ^B
	(µg/L)	(µg/L)	(mg/L)
Pesticides			
Acephate	-	-	0.008
Aldicarb	-	-	0.004
Aldrin plus Dieldrin	-	-	0.0003
Ametryn	-	-	0.07
Amitraz	-	-	0.009
Amitrole	-	-	0.0009
Asulam	-	-	0.07
Atrazine	13	-	0.02
Azinphos-methyl	-	-	0.03
Benomyl	-	-	0.09
Bentazone	-	-	0.4
Bioresmethrin	-	-	0.1
Bromacil	-	-	0.4
Bromoxynil	-	-	0.01
Captan	-	-	0.4
Carbaryl	-	-	0.03
Carbendazim (Thiophanate-methyl)	-	-	0.09
Carbofuran	0.06	-	0.01
Carboxin	-	-	0.3
Carfentrazone-ethyl	-	-	0.1
Chlorantraniliprole	-	-	6
Chlordane	0.03 ^D	-	0.002
Chlorfenvinphos	-	-	0.002
Chlorothalonil	-	-	0.05
Chlorpyrifos	0.01 ^D	0.009 ^D	0.01
Chlorsulfuron	-	-	0.2
Clopyralid	-	-	2
Cyfluthrin, Beta-cyfluthrin	-	-	0.05
Cypermethrin isomers	-	-	0.2
Cyprodinil	-	-	0.09
1,3-Dichloropropene	-	-	0.1
2,2-DPA	-	-	0.5
2,4-D [2,4-dichlorophenoxy acetic acid]	280	-	0.03
DDT	0.006 ^D	-	0.009
Deltramethrin	-	-	0.04

Substance	Groundwater Investigation Levels		
	Fresh Waters ^A	Marine Waters ^A	Drinking Water ^B
	(µg/L)	(µg/L)	(mg/L)
Diazinon	0.01	-	0.004
Dicamba	-	-	0.1
Dichloroprop	-	-	0.1
Dichlorvos	-	-	0.005
Dicofol	-	-	0.004
Diclofop-methyl	-	-	0.005
Dieldrin plus Aldrin	-	-	0.0003
Diflubenzuron	-	-	0.07
Dimethoate	0.15	-	0.007
Diquat	1.4	-	0.007
Disulfoton	-	-	0.004
Diuron	-	-	0.02
Endosulfan	0.03 ^D	0.005 ^D	0.02
Endothal	-	-	0.1
Endrin	0.01 ^D	0.004 ^D	-
EPTC	-	-	0.3
Esfenvalerate	-	-	0.03
Ethion	-	-	0.004
Ethoprophos	-	-	0.001
Etridiazole	-	-	0.1
Fenamiphos	-	-	0.0005
Fenarimol	-	-	0.04
Fenitrothion	0.2	-	0.007
Fenthion	-	-	0.007
Fenvalerate	-	-	0.06
Fipronil	-	-	0.0007
Flamprop-methyl	-	-	0.004
Fluometuron	-	-	0.07
Fluproponate	-	-	0.009
Glyphosate	370	-	1
Haloxypof	-	-	0.001
Heptachlor	0.01 ^D	-	-
Heptachlor epoxide	-	-	0.0003
Hexazinone	-	-	0.4
Imazapyr	-	-	9
Iprodione	-	-	0.1
Lindane (γ-HCH)	0.2	-	0.01

Substance	Groundwater Investigation Levels		
	Fresh Waters ^A	Marine Waters ^A	Drinking Water ^B
	(µg/L)	(µg/L)	(mg/L)
Malathion	0.05	-	0.07
Mancozeb (as ETU, ethylene thiourea)	-	-	0.009
MCPA	-	-	0.04
Metaldehyde	-	-	0.02
Metham (as methylisothiocyanate, MITC)	-	-	0.001
Methidathion	-	-	0.006
Methiocarb	-	-	0.007
Methomyl	3.5	-	0.02
Methyl bromide	-	-	0.001
Metiram (as ETU, ethylene thiourea)	-	-	0.009
Metolachlor/s–Metolachlor	-	-	0.30
Metribuzin	-	-	0.07
Metsulfuron-methyl	-	-	0.04
Mevinphos	-	-	0.006
Molinate	3.4	-	0.004
Napropamide	-	-	0.4
Nicarbazin	-	-	1
Norflurazon	-	-	0.05
Omethoate	-	-	0.001
Oryzalin	-	-	0.4
Oxamyl	-	-	0.007
Paraquat	-	-	0.02
Parathion	0.004 ^C	-	0.02
Parathion methyl	-	-	0.0007
Pebulate	-	-	0.03
Pendimethalin	-	-	0.4
Pentachlorophenol	-	-	0.01
Permethrin	-	-	0.2
Picloram	-	-	0.30
Piperonyl butoxide	-	-	0.6
Pirimicarb	-	-	0.007
Pirimiphos methyl	-	-	0.09
Polihexanide	-	-	0.7
Profenofos	-	-	0.0003
Propachlor	-	-	0.07

Substance	Groundwater Investigation Levels		
	Fresh Waters ^A	Marine Waters ^A	Drinking Water ^B
	(µg/L)	(µg/L)	(mg/L)
Propanil	-	-	0.7
Propargite	-	-	0.007
Propazine	-	-	0.05
Propiconazole	-	-	0.1
Propyzamide	-	-	0.07
Pyrasulfatole	-	-	0.04
Pyrazophos	-	-	0.02
Pyroxsulam	-	-	4
Quintozene	-	-	0.03
Simazine	3.2	-	0.02
Spirotetramat	-	-	0.2
Sulprofos	-	-	0.01
2,4,5-T	36	-	0.1
Tebuthiuron	2.2	-	-
Temephos	-	0.05 ^D	0.4
Terbacil	-	-	0.2
Terbufos	-	-	0.0009
Terbuthylazine	-	-	0.01
Terbutryn	-	-	0.4
Thiobencarb	2.8	-	0.04
Thiometon	-	-	0.004
Thiram	0.01	-	0.007
Toltrazuril	-	-	0.004
Toxafene	0.1 ^D	-	-
Triadimefon	-	-	0.09
Trichlorfon	-	-	0.007
Triclopyr	-	-	0.02
Trifluralin	2.6 ^D	-	0.09
Vernolate	-	-	0.04
Surfactants			
Linear alkylbenzene sulfonates (LAS)	280	-	-
Alcohol ethoxylated sulfate (AES)	650	-	-
Alcohol ethoxylated surfactants (AE)	140	-	-

A Investigation levels apply to typical slightly-moderately disturbed systems. See ANZECC &

Substance	Groundwater Investigation Levels		
	Fresh Waters ^A	Marine Waters ^A	Drinking Water ^B
	(µg/L)	(µg/L)	(mg/L)

ARMCANZ (2000) for guidance on applying these levels to different ecosystem conditions.

- B Investigation levels are taken from the health values of the Australian Drinking Water Guidelines (NHMRC 2011).
- C Figure may not protect key species from chronic toxicity, refer to ANZECC & ARMCANZ (2000) for further guidance.
- D Chemical for which possible bioaccumulation and secondary poisoning effects should be considered, refer to ANZECC & ARMCANZ (2000) for further guidance.
- E For changes in GIL with pH refer to ANZECC & ARMCANZ (2000) for further guidance.
- H Values have been calculated using a hardness of 30 mg/L CaCO₃ refer to ANZECC & ARMCANZ (2000) for further guidance on recalculating for site-specific hardness.



Appendix O
Calibration Certificates

Gas Calibration Certificate



Instrument GA5000
 Serial No. G505722
 Sensors CH4, CO2, O2, CO, H2S

Air-Met Scientific Pty Ltd
 1300 137 067

Item	Test	Pass	Comments
Battery	Charge Condition	✓	
	Fuses	✓	
	Capacity	✓	
	Recharge OK?	✓	
Switch/keypad	Operation	✓	
Display	Intensity	✓	
	Operation (segments)	✓	
Grill Filter	Condition	✓	
	Seal	✓	
Pump	Operation	✓	
	Filter	✓	
	Flow	✓	
	Valves, Diaphragm	✓	
PCB	Condition	✓	
Connectors	Condition	✓	
Sensor	O2	✓	
	CH4	✓	
	CO2	✓	
	CO	✓	
	H2S	✓	
Alarms	Beeper	✓	
	Settings	✓	
Software	Version		
Datalogger	Operation		
Download	Operation		
Other tests:			

Certificate of Calibration

This is to certify that the above instrument has been calibrated to the following specifications:

Diffusion mode Aspirated mode

Sensor	Serial no	Calibration gas and concentration	Certified	Gas bottle No	Instrument Reading
O2		20.9% Vol	NIST	Fresh Air	20.90%
CH4		60% Vol	NIST	BR126	60%
CO2		40%	NIST	BR126	40%
CO		100ppm	NIST	BR222	100ppm
H2S		25ppm	NIST	BR222	25ppm

Calibrated by:

Morgan Shelton

Calibration date: 5/06/2024

Next calibration due: 5/12/2024



Air-Met Scientific Pty Ltd
1300 137 067

Gas Calibration Certificate

Instrument Eagle 2
Serial No. E2J267
Sensors CH4, CO2, O2, CO, H2S, IB

Item	Test	Pass	Comments
Battery	Charge Condition	✓	
	Fuses	✓	
	Capacity	✓	
	Recharge OK?	✓	
Switch/keypad	Operation	✓	
Display	Intensity	✓	
	Operation (segments)	✓	
Grill Filter	Condition	✓	
	Seal	✓	
Pump	Operation	✓	
	Filter	✓	
	Flow	✓	
	Valves, Diaphragm	✓	
PCB	Condition	✓	
Connectors	Condition	✓	
Sensor	O2	✓	
	CH4	✓	
	CO2	✓	
	H2S	✓	
	CO	✓	
	IB	✓	
Alarms	Beeper	✓	
	Settings	✓	
Software	Version		
Datalogger	Operation		
Download	Operation		
Other tests:			

Certificate of Calibration

This is to certify that the above instrument has been calibrated to the following specifications:

Diffusion mode	Aspirated mode	Calibration gas and concentration	Certified	Gas bottle No	Instrument Reading
Sensor	Serial no				
IBL		100ppm IB	NIST	BR220	
CH4		50% LEL CH4	NIST	BR236	50% LEL CH4
CO2		2.5% CO2	NIST	BR240	2.5% CO2
H2S		25ppm H2S	NIST	BR236	25.0 ppm H2S
CO		100ppm CO	NIST	BR236	100ppm CO
O2		18% O2	NIST	BR236	18% O2

Calibrated by: _____

Andrew Kneen

Calibration date: 15/02/2024

Next calibration due: 13/08/2024



SERVICE AND CALIBRATION CERTIFICATE

Customer: AirMet Scientific Pty Ltd (AIRMET) **Job No:** 72393
Instrument: Eagle 2 Portable Gas Detector **Date:** 11/01/2023
Serial No: E2H066 **Next Calibration Due:** 11/07/2023

**** As per specification, this instrument should be fully calibrated every 6 months as per manufacturer's recommendations ****

Comments: Service and calibration.
Replaced faulty H2S and O2 sensors. Supplied new probe and CO2 scrubber.

The instrument has been serviced and adjusted as indicated:

Sensor / Input Type	Calibration Equipment Used	Gas Serial No.	Actual Signal Level Applied	Indication Pre-calibration	Indication Post Calibration
Combustible	Methane 50.2% LEL	19526	50.2% LEL	58% LEL	50% LEL
OXYGEN	Oxygen 12.0% VOL	19526	12.0% VOL	FAIL	12.0% VOL
Hydrogen Sulphide	Hydrogen Sulphide 25.2 ppm	19526	25.2 ppm	FAIL	25.0 ppm
Carbon Monoxide	Carbon Monoxide 50.2 ppm	19526	50.2 ppm	61 ppm	50 ppm
Carbon Dioxide	Carbon Dioxide 2.5% VOL	BE129155	2.50% VOL	2.80% VOL	2.50% VOL

Service carried out by:

CONTROL EQUIPMENT PTY LTD

GLEN MACPHERSON
Service Technician

Gas mixtures manufactured with balances calibrated by an ISO 17025 accredited Company using NIST traceable weights and meets or exceeds the requirements of NIST Handbook 44.

Calibration test 121088, 121097, 121091, or 121100 dated 18th January 2019 applies.

WEIGHTS SETS USED: Kit # 92231, Test # 2740564, Kit # 03610, Test # VA-19-1135 T3

Test # VA-19-11350B T5, Test # VA-19-11350F, VA-19-11350E, VA-19-11350D, IM1966 Test # VA-19-11340H

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Representatives / Offices in:
Sydney Melbourne
Hobart Adelaide
Auckland Wellington
www.controlequipment.com.au

Oil / Water Interface Meter

Instrument **Solinst Interface Meter (60M)**
Serial No. **483914**



airmet

Air-Met Scientific Pty Ltd
1300 137 067

Item	Test	Pass	Comments
Battery	Compartment	✓	
	Capacity	✓	
Probe	Cleaned/Decon.	✓	
	Operation	✓	
Connectors	Condition	✓	
		✓	
Tape Check	Cleaned	✓	
Connectors	Checked for cuts	✓	
Instrument Test	At surface level	✓	

Certificate of Calibration

This is to certify that the above instrument has been cleaned and tested.

Calibrated by: _____ **Morten Peters**

Calibration date: **04-Mar-24**

Next calibration due: **04-Jun-24**

Multi Parameter Water Meter

Instrument YSI Quatro Pro Plus
Serial No. 16E103115



airmet

Air-Met Scientific Pty Ltd
1300 137 067

Item	Test	Pass	Comments
Battery	Charge Condition	✓	
	Fuses	✓	
	Capacity	✓	
Switch/keypad	Operation	✓	
	Display	Intensity	✓
Grill Filter	Operation (segments)	✓	
	Condition	✓	
PCB	Seal	✓	
	Condition	✓	
Connectors	Condition	✓	
Sensor	1. pH	✓	
	2. mV	✓	
	3. EC	✓	
	4. D.O	✓	
	5. Temp	✓	
Alarms	Beeper		
	Settings		
Software	Version		
Data logger	Operation		
Download	Operation		
Other tests:			

Certificate of Calibration

This is to certify that the above instrument has been calibrated to the following specifications:



Sensor	Serial no	Standard Solutions	Certified	Solution Bottle Number	Instrument Reading
1. pH 7.00		pH 7.0		413995	pH 7.0
2. pH 4.00		pH 4.0		414104	pH 4.0
3. ORP		234.28mV		418135/418134	229.15mV
4. EC		2760uS		414103	2760uS
5. D.O		100%		water	99.4% - 758.4mmHg
6. Temp		22.6°C		MultiTherm	23.2°C

Calibrated by: Morgan Shelton

Calibration date: 07-Mar-24

Next calibration due: 3-Sep-24



Appendix P

Soil Laboratory Summary Tables



