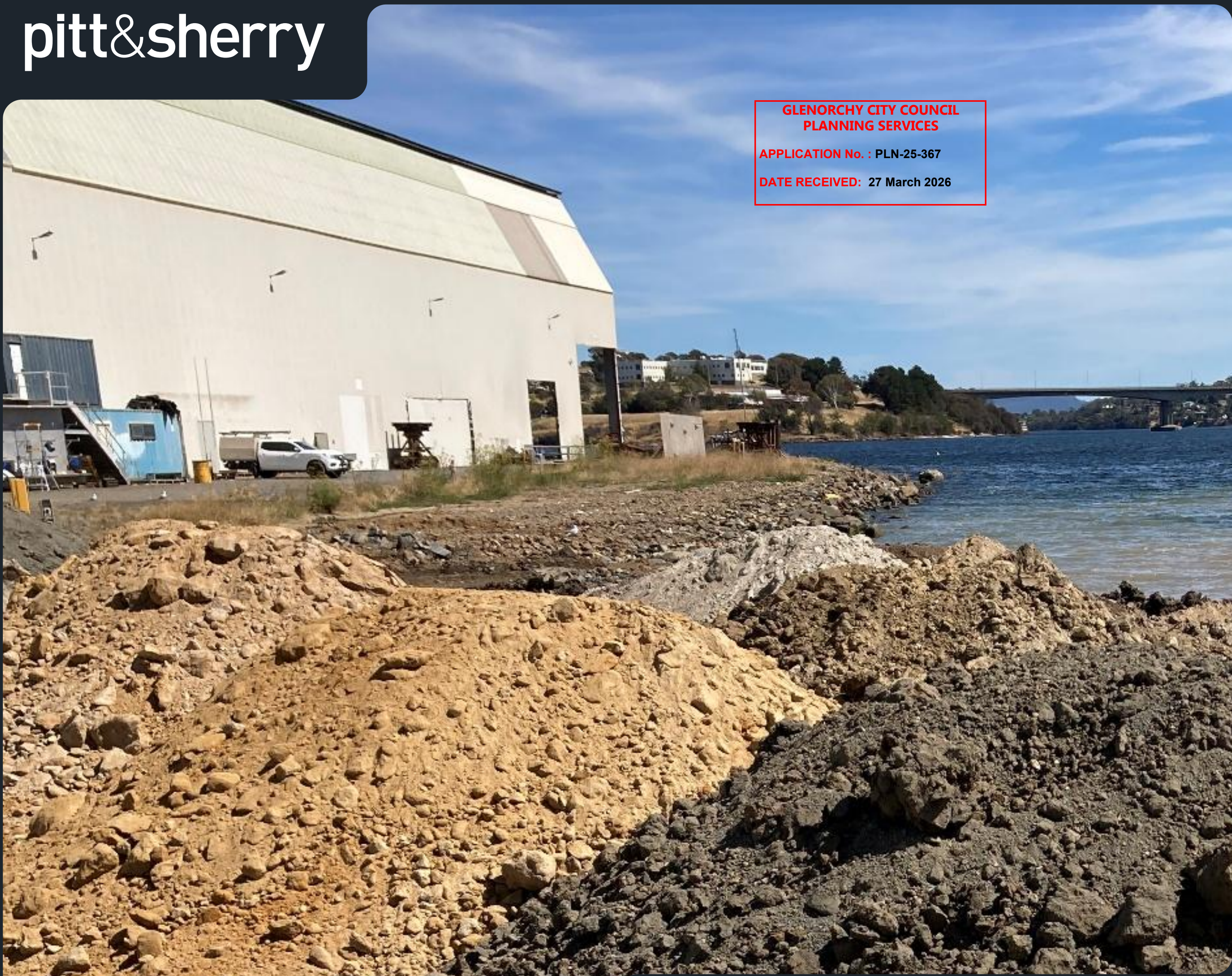
pitt&sherry



Environmental Site Assessment

100 Derwent Park Road, Derwent Park

Prepared for
Incat Tasmania Pty Ltd

Client representative
Danielle Gray

Date
25 March 2026

Rev00

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Appendices

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Revision History					
Rev No.	Description	Prepared by	Reviewed by	Authorised by	Date
RevA	Draft	MM / HF	FKP	FKP	13/03/2026
Rev00	Final Report	MM / HF	FKP	FKP	25/03/2026

Abbreviations

Abbreviation	Description
ACL	Added contaminant limit (aged)
AHD	Australian Height Datum
ACM	Asbestos-containing materials
ASC NEPM	*National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended 2013*
As	Arsenic
ASS	Acid sulfate soils
AST	aboveground storage tank
BaP	Benzo(a)pyrene
Cd	Cadmium
CEO	Chief Executive Officer
CEMP	Construction Environmental Management Plan
CEnvP SC	Certified Environmental Practitioner, Site Contamination specialist
CFEV(s)	Conservation of freshwater ecosystem value(s)
CoPC(s)	Contaminant(s) of potential concern
Council	Glenorchy City Council
Cr	Chromium
CSM	Conceptual Site Model
CT(s)	Certificate(s) of Title
Cu	Copper
DA	Development application
DG	Dangerous goods
EIANZ	Environment Institute of Australia and New Zealand
EIL(s) / ESL(s)	Ecological Investigation Level(s) / Ecological Screening Level (s)
EMPCA	(Tasmanian) *Environmental Management and Pollution Control Act 1994*
EPA	Environment Protection Authority, Tasmania
EPN(s)	Environmental Protection Notice(s)
ESA	Environmental Site Assessment
FCR	Fine crushed rock
GDE(s)	Groundwater dependent ecosystem(s)
GES	Geo-Environmental Solutions (GES) Pty Ltd
GIAP	Groundwater Information Access Portal
Hg	Mercury
IB105	*Information Bulletin No. 105 Classification and Management of Contaminated Soil for Disposal, Version* 3, Environment Protection Authority, 2018

Abbreviation	Description
Incat	Incat Tasmania Pty Ltd
Jd	Dolerite and related rocks
km	Kilometre(s)
LISTmap	Land Information System Tasmania interactive mapping tool
m	Metre(s)
m^2	Square metres
Marine Solutions	Marine Solutions Tasmania Pty Ltd
m bgl	Metre(s) below ground level
Ni	Nickel
Pb	Lead
PCA(s)	Potentially contaminating activity(ies)
PCE(s)	Permit Condition(s) Environmental
PCLC	Potentially Contaminated Land Code (of the Planning Scheme)
PFAS	Perfluoroalkyl- and polyfluoroalkyl substances
PFD	PFD Food Services Pty Ltd
PFOS	perfluorooctanesulfonic acid
PID	Property Identification
pitt&sherry	Pitt & Sherry (Operations) Pty Ltd
Property	100 Derwent Park, Derwent Park, Tasmania 7009, as shown in Figure 1 (Appendix A)
QA/QC	Quality assurance and quality control
Qhmm	Man made deposits
RFI	Request for Information
Scheme	Tasmanian Planning Scheme - Glenorchy
SHR	Site History Review
Site	Area shown on Figure 2 (Appendix A) for the development of a new boat building shed and wharf
SMF	Synthetic mineral fibres
SPR	Source-pathway-receptor
SWMP	Soil and water management plan
SWS	Southern Waste Solutions Pty Ltd
SSP	Single superphosphate fertiliser
THR	Tasmanian Heritage Register
TPH / TRH	Total petroleum hydrocarbons / total recoverable hydrocarbons
UPSS	Underground petroleum storage system(s), including USTs and associated piping
WST	WorkSafe Tasmania
Zn	Zinc

Executive Summary

Background

Incat Tasmania Pty Ltd (Incat) is undertaking the development of a new boat building shed (the Site) for the construction of electric ferries at its existing property at 100 Derwent Park Road, Derwent Park, in Tasmania (the Property). The Property is adjacent to the River Derwent and is located within the general industrial zone, currently utilised for the manufacturing of catamarans and fast ferries within roofed sheds. The Property is surrounded by other industrial facilities such as Impact Fertilisers and Nyrstar's zinc smelter. The proposed new shed will be 120 metres (m) long, 40.81 m wide and 25 m high, above the proposed ground level. The shed will also include a 30 m long wet dock, with sheet piling installed around three sides of the wet dock perimeter. The new shed ground surface will overlap a portion of existing reclamation and an extension of land reclamation. Reclamation works will be undertaken within Crown Land (River Derwent) immediately adjacent to the existing land surface. In addition to the shed, a 6 m wide wharf will also be constructed northwest of the new shed. All reclamation edges will be covered with armour rock on the water side.

Gray Planning lodged a Development Application (DA) to both Crown and Council in December 2025. The Crown have signed their consent to lodge the DA, and Glenorchy City Council (Council) have now issued a further information request. Item #17 of the Request for Information (RFI) from Council requires an Environmental Site Assessment (ESA) to address the Potentially Contaminated Land Code (PCLC) of the Tasmanian Planning Scheme – Glenorchy (the Scheme).

Findings and Conclusions

Based on the findings of this ESA, and noting the limitations in Section 1.5 and the remaining data gaps in Section 8.4 the following conclusions are made:

- A number of on- and offsite PCAs have been identified with potential to have impacted the Site, including:
  - River waters may also be contaminated from offsite sources and given the periodical tidal flooding of the Site and the ingress of tidal waters within the reclamation groundwater, contamination could be waterborne
  - Importation and placement of stockpiles of fill materials which from TasWater for which the source location and associated testing records are not clearly identifiable for each stockpile
  - Historical placement of fill of unknown origins and composition across the whole Site footprint for past reclamation
  - Solid wastes and presence of BDR often associated with ACM
  - Historical presence and operation of adjacent land users (Nyrstar, Impact Fertiliser) and upstream Derwent Barracks (firefighting foams - PFAS)
  - Storage of materials, shipping containers, etc. within the Site footprint, including the movement of mobile plant including hydrocarbon-fuelled equipment
  - The presence of river sediments beneath and adjacent to the Site footprint likely impacted by long term industrial emissions from adjacent industrial facilities
  - The presence of ASS (acid sulfate soils) beneath and adjacent to the Site footprint; the latter will be disturbed by reclamation, sheet piling and pile driving for the new wharf
- 13 test pits were excavated to a maximum depth of 2.0 m bgl and 30 stockpile samples were taken to provide representative coverage of those present at the time of sampling. The investigations identified:
  - Solid wastes and BDR were found through many of the test pit profiles and a number of stockpiles, including bitumen, bricks, concrete rubble, plastic pipe, plastic, terracotta piping, bricks, scrap metals, embedded reinforcing bars in concrete, which pose an aesthetic and environmental risk in poorly managed reclamation works

- A confirmed asbestos fragment was present on the surface of the Site which is expected to have come from pre-existing fill beneath the Site associated with BDR (building demolition rubble)
- SMF were found in the Site soils (also associated with BDR)
- One test pit reported a possible hydrocarbon or similar odour in fill material at between 1.2 and 1.9 m bgl (TP02), but no hydrocarbons were detected in that sample
- No elevated VOCs were detected in test pits (via field screening); this was confirmed by the laboratory results
- Reported concentrations of **lead** were above adopted human health (commercial / industrial setting) in one test pit (TP10 between 0 – 1.0 m bgl)
- Reported concentrations of many metals (zinc, copper, lead, nickel and arsenic) were reported above adopted ecological criteria in a large number of test pit and stockpile samples (some for commercial / industrial criteria and many for areas of ecological significance criteria)

- Given the Site profile includes BDR (building demolition rubble which is often associated with ACM and SMF) and given the imported stockpiles also comprise BDR, the potential remains for ACM fragments and SMF, as well as other contaminants (including lead), to be present within all soils onsite; and
- Based on the proposed development and reclamation works and on the proposed Site use, the risks to human and ecological receptors have been assessed to include some **medium risks** and some **low risks**, for which appropriate mitigation measures must be put in place as detailed in Section 8.5 and reiterated in the Recommendations (Section 9.2).

Description of the Fill Material Quantity, Source and Composition Analysis

pitt&sherry was only able to inspect and sample fill soils that were present at the time of sampling, as new reclamation had already been undertaken with an unknown volume or quality of fill materials. Similarly, fill soils were actively carted and stockpiled onsite during pitt&sherry's sampling. Stockpiled fill soils comprised a range of materials including naturally derived: sands, silts, clays, rock, as well as solid wastes including small and large concrete pieces, bitumen pieces, plastic piping, plastic materials and mesh, scrap steel, partly concrete-embedded reinforced steel bars, bricks, timber, soil and vegetation/wood.

Imported fill soils test results are summarised in Section 7.1.3. It was noted that a number of stockpiles would be classified as Level 2 or Level 3 waste soils in accordance with IB105 (due to metals or benzo(a)pyrene concentrations). PFAS were also detected in some of the samples, and confirmed asbestos was detected in a fragment adjacent to the stockpiles (we could not confirm however if this fragment was from pre-existing disturbed fill, or from newly imported fill).

The source of the fill is from a range of properties which are undergoing works by TasWater as part of the Selfs Point Rising Main works in the sewerage rising main alignment. The risk of contamination from 'Section 2' of the alignment (Elgin, 2024) was deemed to be low. It is understood that TasWater has been carrying out contamination testing on some of the soils, however, reconciliation of the test results against imported soil loads could not be completed.

As no EPA approval (Regulation 21) was provided by TasWater for reuse of these soils onsite, it is understood that Incat is now in the process of removing these stockpiles and soil stockpiles of similar composition from Site. It is also understood that Incat has requested that only tested and confirmed clean fill (i.e. Level 1 fill, per IB105) be brought to Site for reclamation and reuse within the Site surface area. Incat has also requested detailed soil tracking for every load brought to the Site since around mid-February 2026. No EPA approval is required for confirmed Level 1 fill material.

In the event that Level 2 or above waste soils are to be brought to Site, the waste producer must obtain a Regulation 21 approval from EPA for reuse of those soils specifically on the Incat Site and will need to provide this documentation to Incat, and all waste loads will need to be tracked from the correct source to the Incat Site.

The estimated volume of new reclamation fill material required to accommodate the Site footprint for the proposed shed development is approximately 5470 m^3 (per information provided by D. Gray on 19 March 2026, based on JMG plans).

Statement

In response to the PCLC objectives (Section 1.2.1), the proposed development of the Site as a new boat building shed and wharf, and associated reclamation within commercial / industrial and port / marine zonings (Figure 2, Appendix A) complies with:

- P1 (c) of C14.6.1 Performance Criteria – Excavation for the following reasons:
  - This ESA demonstrates that other than at one location (TP10 0 – 1 m bgl), all other soil results were within adopted human health criteria (commercial / industrial land use). This area will be covered by a concrete slab during Site use, and construction and reclamation works must be managed in accordance with a CEMP (refer to Section 9.2)
  - This ESA has identified exceedances of ecological criteria (both commercial / industrial and areas of ecological significance setting) which do not pose a risk under the proposed Site use or construction and reclamation works as long as the works are managed in accordance with a CEMP, and the unsealed Site surface is capped on completion of construction (refer to Section 9.2)
  - This ESA includes recommended protection measures (i.e. a CEMP - refer to Section 9.2), which must be developed before excavation and reclamation commences, and must be implemented for the duration of excavation and reclamation works
  - If the recommended protection measures outlined in Section 9.2 are implemented, excavation and reclamation works will not adversely impact on human health or the environment (including the Derwent Estuary)
- A range of potentially contaminating activities (PCAs) identified to have potentially impacted the Site including historical and ongoing industrial emissions from adjacent facilities (Nyrstar and Impact Fertiliser), PFAS impacted runoff from the upstream Derwent Barracks, importation of unverified TasWater fill stockpiles, and extensive historical placement of heterogeneous fill of unknown origin across the Property for past reclamation. Reclamation soils and river sediments beneath and adjacent to the Site are also likely to contain contaminants due to long-term industrial discharges and ingress of tidal water ingress within reclamation groundwater, with acid sulfate soils (ASS) expected to be disturbed during proposed reclamation and piling works
- Intrusive investigations were undertaken; including 13 test pits excavated to a maximum depth of 2.0 m below ground level and 30 stockpile samples taken to provide representative coverage of those present at the time of sampling. Investigations identified
  - Widespread building demolition rubble (BDR), including bitumen, brick, concrete, plastic and metal wastes found through many test pit profiles and a number of stockpiles.
  - One confirmed asbestos containing ACM fragment (at the Site surface)
  - Synthetic mineral fibres (SMF) were detected in one test pit
  - Lead exceeded adopted human-health criteria in one test pit, and multiple metals (zinc, copper, lead, nickel, arsenic), benzo(a)pyrene and PFAS exceeded ecological criteria across test pits and stockpiles.
- Several stockpiles classified as Level 2 or Level 3 waste (i.e. controlled waste) under IB105 are being removed from Site as an EPA approval for reuse of controlled waste on the Incat Site was not available; and
- Based on the investigation findings and the proposed reclamation and construction activities, the overall risks to human and ecological receptors are assessed as low to medium, requiring implementation of the mitigation measures outlined in the Recommendations (Section 9.2).

Recommendations

Refer to Section 9.2 for the full list of recommendations informed by the findings and conclusions of this ESA.

1. Introduction

1.1 Background

Incat Tasmania Pty Ltd (Incat) is undertaking the development of a new boat building shed and wharf (the Site) for the construction of electric ferries at its existing operation at 100 Derwent Park Road, Derwent Park, in Tasmania (the Property). The Property is adjacent to the River Derwent and is located within a general industrial zone. The Property is surrounded by other industrial facilities such as Impact Fertilisers and Nyrstar's zinc smelter. The Property is utilised for the manufacturing of catamarans and fast ferries within roofed sheds. Refer to Figure 1 for the Property location and Figure 2 for the approximate Site outline and location – both figures are in Appendix A.

The proposed new shed will be 120 metres (m) long, 40.81 m wide and 25 m high, above the proposed ground level. The shed will also include a 30 m long wet dock, with sheet piling installed around three sides of the wet dock perimeter. The new shed ground surface will be constructed on a portion of existing reclaimed land, and a further extension of land reclamation. Reclamation works will be undertaken within Crown Land (River Derwent) immediately adjacent to the existing land surface.

In addition to the shed, a 6 m wide wharf will also be constructed northwest of the new shed. The wharf will comprise a suspended concrete slab, sitting on piles which will be driven into the ground on the land and water sides to support the wharf. All reclamation edges will be covered with armour rock on the water side.

Gray Planning lodged a Development Application (DA) to both Crown and Council in December 2025. The Crown have signed their consent to lodge the DA, and Glenorchy City Council (Council) have now issued a further information request. Item #17 of the Request for Information (RFI) from Council requires an Environmental Site Assessment (ESA) to address the Potentially Contaminated Land Code (PCLC) of the Tasmanian Planning Scheme – Glenorchy (the Scheme):

C14.0 Potentially Contaminated Land Code

C14.6.1 Development Standards for Building and Works

17. *An Environmental Site Assessment, prepared by a certified contaminated site assessment consultant, must be submitted to address the Performance Criteria (P1) for C14.6.1 in the Potentially Contaminated Land Code.*

    The assessment is to demonstrate how the site is suitable for the intended development in relation to risks to human health and the environment. To satisfy (P1) C14.6.1, the assessment must include, but not be limited to:

    1. *Any specific remediation or protection measures that are required to be implemented at the site prior to the commencement of excavation.*

    2. *Any recommended land reclamation construction methods specific to the site that would eliminate adverse impacts on the aquatic environment within the Derwent Estuary.*

    A description of proposed fill material including quantity, source and composition analysis is also required.

Pitt and Sherry (Operations) Pty Ltd (pitt&sherry) was initially engaged by Incat to provide a Site History Review (SHR) which represents Stage 1 of an Environmental Site Assessment (ESA). The purpose of the SHR was to identify potential contamination risks within the Site and from adjacent land, and to determine whether further investigation was required. Based on the SHR findings, and the potential risk of contamination, additional investigations were undertaken, and the assessment progressed to a full ESA. The objective of the ESA is to characterise contamination at the Site and provide recommendations to address the PCLC and Council's specific requirements outlined above.

1.2 Objectives

1.2.1 Potentially Contaminated Land Code

The objective of the PCLC of the Planning Scheme is to ensure that use or development of potentially contaminated land does not adversely impact on human health or the environment (refer to Section C14.0 of the PCLC). The Council's RFI item #17 has been provided in *italics* in Section 1.1.

1.2.2 Environmental Site Assessment

The objectives of this ESA are to obtain and compile available information on the historical uses of the Property and immediate surrounds and assess:

- The potential for contamination to be present within the Site area
- The potential for possible contamination from offsite (including within the broader Property) to impact on the Site from current and historical potentially contaminating activities (PCAs)
- The risks posed by any potential, or identified contamination to human health and/or the environment from the Site during the proposed use and excavation works
- Whether any additional intrusive investigations (e.g. sampling) are required to confirm (or otherwise) the presence of contamination within the Site
- Provide a statement that the Site is suitable for the proposed use and development (from a land contamination perspective); and
- Detail any remediation and/or protection measures required for the Site prior to the commencement of excavation / reclamation.

1.3 Scope of Works

The scope of work for this ESA comprised:

- Scoping and review of the SHR by a Certified Environmental Practitioner, Site Contamination (CEnvP SC[1])
- Site inspection by a CEnvP SC
- Desktop review and compilation of Site-related documentation (from a site-contamination perspective)
- Excavating test pits within the proposed work areas (within the Site) and associated soil sampling
- Inspecting imported soil stockpiles and sampling
- Testing all soil samples for contaminants of potential concern (CoPCs)
- Assessing the potential for the Site to be contaminated and assessing the human health and ecological risks posed by any potential or identified contamination during proposed construction / reclamation work and proposed Site use
- Outlining any recommended management measures to minimise risks from any identified contamination; and
- Compiling the findings and recommendations into an ESA report (this report).

[1] Fiona Keserue-Ponte is a CEnvP SC. A CEnvP SC certified under the Environment Institute of Australia and New Zealand (EIANZ) is 'a site contamination practitioner or a person approved by the Director for the purpose of this code' [the PCLC]

1.4 Legislation and Guidelines

This ESA was undertaken in general accordance with the following legislation and guidelines:

- National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended 2013 (ASC NEPM)
- Australia Standard (AS) 4482.1—2005: Guide to the investigation and sampling of sites with potentially contaminated soil – Part 1: Non-volatile and semi-volatile compounds
- AS 4482.2—1999: Guide to the sampling and analysis of contaminated soils – Part 2: Volatile substances
- PFAS National Environmental Management Plan (PFAS NEMP) Version 3.0. 2025.
- Tasmanian Planning Scheme – Glenorchy (the Scheme)
- Tasmanian Environmental Management and Pollution Control Act 1994 (EMPCA) and relevant Regulations
- Technical Report No. 10 Health Screening Levels for Petroleum Hydrocarbons in Soil and Groundwater September 2011, including errata August 2012; and
- Information Bulletin No. 105, the Classification and Management of Contaminated Soil for Disposal (IB105).

1.5 Limitations

In addition to the general limitations of this report, outlined in *Important information about your report* at the end of this ESA, specific limitations of this ESA include:

- This ESA pertains to the proposed development area only (i.e. the Site, as shown in Figures 1 to 4 in Appendix A); land outside of the Site extent has not been investigated from a contamination perspective, other than where it may impact on the Site
- The quality resolution of some of the early historical images may be insufficient to identify potentially relevant details to this ESA (Section 3.2.2); other information sources have been used to supplement historical aerial photographs (throughout Section 3)
- No assessment of natural values or heritage (historic and/or Aboriginal) was undertaken; mapped features are provided in Table 2 (Section 2.2). A summary of Marine Solutions Tasmania Pty Ltd (Marine Solutions)' survey is outlined in Section 3.1.4; no heritage features are known to occur within the development footprint, which consists entirely of reclaimed land
- No historical title search for the Property was undertaken; potential contamination is expected to be related to the known use of the Property (Section 1.1) and the land has been entirely reclaimed with fill of unknown origins
- Historical information was limited to available information sourced and reviewed in Sections 2 and 3
- No acid sulfate soils (ASS) or sediment sampling of the riverbed adjacent to the Site, within the proposed reclamation footprint, was undertaken. ASS are expected to be present in this area and sediments are also expected to be impacted by heavy metals contamination due to the long-term operation of the zinc works adjacent to the Property
- No groundwater sampling was completed. The Site area is entirely within reclaimed land, and the compacted fill has groundwater which is subject to direct tidal action from the adjacent River Derwent. Groundwater quality is expected to mirror the river's water quality
- No soil leachability testing was undertaken as all soils were expected to remain onsite, with the exception of stockpiles, which were tested to confirm their suitability for reuse, based only on total concentrations

- Soil investigations within the previously reclaimed area were limited by the relatively shallow groundwater level which was influenced by the tide level; as such soil testing did not include the full depth of reclamation. This is not considered to affect the conclusions or recommendations of this ESA, as disturbance of the Site surface will be minimal due to construction consisting of slab on ground; only installation of new underground services may result in soil trenching and disturbance
- As active reclamation was being undertaken during pitt&sherry's investigation, newly placed reclamation materials were not generally inspected or sampled due to lack of access; and
- New soils were being actively brought to Site during pitt&sherry's Site stockpiles' sampling. These new stockpiles were not sampled during our works due to the ongoing active stockpiling.

2. Site Setting

2.1 Site Identification

Site identification details are provided in Table 1. The Property location is shown in Figure 1 (Appendix A).

For the purposes of this report, the Site refers to the proposed development area which partially overlaps the River Derwent as shown by the green shading in Figure 2 (Appendix A).

Much of the information in Table 1 has been sourced either from the LISTmap[2], or the LotSearch report[3] (provided in Appendix B). LotSearch provide a report which compiles a number of databases to help inform environmental context, contamination risk, historical site and neighbouring uses. The LotSearch report also provides a compilation of historical aerial imagery for the requested sites.

Table 1: Site Details

Item	Detail	Information Source
Site Address	Part of 100 Derwent Park Road, Derwent Park, Tasmania 7009	LISTmap - cadastral parcels layer
Certificate Of Title	Part of Volume 168298 Folio 1	LISTmap - cadastral parcels layer
Property ID	Part of PID 7671632	LISTmap – cadastral parcels layer
Property/Site Area	Property Area: 107 000 square metres (m^2) Site Area: 4897.2 m^2	LISTmap – cadastral parcels layer
Current Owner	Inter Cats (Tasmania) Pty Ltd	Client-supplied information
Current Land Use	Boat building yard	Client-supplied information
Local Government	Glenorchy City Council	LISTmap – local government areas layer
Land Tenure	Incat Property is Private Freehold. The proposed area for reclamation is Crown Land. DA documentation states that the Project has been lodged with the Crown for consent.	LISTmap – land tenure layer
Regional Setting	The Site has a waterfront boundary to the River Derwent. The Site is surrounded by industrial properties. The Site is bounded to the north and east by the River Derwent, to the south by the Nyrstar zinc works, Impact Fertiliser, and car parking (owned by Nyrstar, leased to Incat) and to the west by the remainder of Incat's operations / sheds, then further west, PFD Food Services (PFD) and other Incat-owned land and car parking.	LISTmap - Basemaps Property Inspection

[2] Land Information System Tasmania (LIST) interactive mapping tool. Available at: https://maps.thelist.tas.gov.au/listmap/app/list/map
[3] LotSearch 2026. Enviro Professional Report: 100 Derwent Park Road, Derwent Park, Tasmania 7009. Reference LS117721EP. 30 January 2026.

Item	Detail	Information Source
Zoning	100 Derwent River Road, Derwent Park is zoned "General Industrial" under the Planning Scheme. The Site area for reclamation is zoned "Port and Marine." • Zoning to the north and east of the Site is Port and Marine • Zoning to the south is General Industrial and Utilities; and • Zoning to the west is General Industrial.	LISTmap – Tasmanian Planning Scheme layers LotSearch report (Appendix B)

2.2 Site Description

Available information on Site features is summarised in Table 2. Note that generally only features present on the land are detailed. The marine environment is mostly addressed in a separate assessment undertaken by Marine Solutions (refer to Section 3.1.4). Note that **bold red text** signifies a risk of contamination.

Table 2: Site Description

Feature	Description	Information Source
Sensitive Receptors	**Onsite**: sensitive receptors within the Site include Incat employees (daily exposure), Incat contractors, Tasmanian Fast Ferry Museum visitors (intermittent exposure) who access the premises, and the River Derwent. **Offsite** sensitive receptors include: - The closest residential dwellings are present to the east along Saunderson Rd, Risdon located 550 m across the River Derwent to the northeast of the Site • PFD is located 280 m to the west of the Site • TasTafe is located 340 m to the west of the Site • Prince of Wales Bay Marina is located 580 m to the northeast of the Site; and • In addition, Impact Fertiliser is located within 100 m to the south of the Site but is not deemed to be a sensitive receptor due to the facility being a PCA.	LISTmap – multiple layers Site inspection (Section 3.4) LotSearch report (Appendix B)
Infrastructure Features	The Property predominantly comprises of large scale, roofed industrial sheds used for boat building, with an estimated total area of approximately 34,000 m². The area of the Property which includes the Site development footprint, is currently unsealed and was formed via land reclamation, as per the majority of the Property. Existing infrastructure within the Site footprint includes: underground fire main and stand pipes and possibly some underground now disconnected power lines. Refer to Section 3.4 which details Site inspection observations.	LISTmap - Aerial images Site inspection (Section 3.4)
Easements	The easements within the Property (Drainage Easement and Electricity Infrastructure Easement) will not be impacted by the proposed works. The Drainage Easement is located approximately 80 m south and 180 m west of the Site, and the Electricity Infrastructure Easement is located approximately 170 m west of the Site.	LISTmap – easements layer Gray Planning Report 2025

Feature	Description	Information Source
Elevation	Elevation contours show the Site is at less than 5 m Australian Height Datum (AHD). It was evident during the Site inspection and Site sampling, that high tides reach onto the eastern extents of the Site.	LISTmap – elevation (5 m contour) layer LotSearch report (Appendix B)
Topography	The Site is generally level, with slight sloping towards the river. The existing land area of the Site has been formed by land reclamation with fill. Stockpiles were being actively brought to the Site during the pitt&sherry Site inspection and Site sampling, and reclamation works had recently been completed prior to both the inspection and sampling rounds. The western portion of the Property has a steep rock face (dolerite)/ embankment which was formed in the early stages of the reclamation works in the Property area. The rock face and embankment is also present along the southern edge of the Property.	LISTmap – elevation (5 m contour) layer Site inspection (Section 3.4) LotSearch report (Appendix B)
Surface Water	The Site is adjacent to the River Derwent, with no other permanent surface water bodies present onsite. The tidal line for the River Derwent runs along the northeast waterfront boundary, and there was evidence of high tides reaching onto the Site area during both the pitt&sherry Site inspection and Site sampling. Surface water runoff is anticipated to follow the built pavements and stormwater drains where present, or to infiltrate into the unsealed fill surface, and to drain towards the River Derwent.	LISTmap – elevation (5 m contour) layer, hydrographic lines layer Site inspection (Section 3.4) LotSearch report (Appendix B)
Groundwater	There are no public records regarding groundwater for the Site or immediate surrounds. The closest groundwater bore listed in the Groundwater Information Access Portal (GIAP) is 1.6 kilometres (km) west of the Site (Bore ID 17285, 35.1 m depth to water). The main aquifer geology is Tertiary Basalt. LotSearch Report lists the closest boreholes as IF1 (Drill ID 19577, 2.8 m length from surface) and IF2 (Drill ID 19578, 3 m length from surface) 145 m south of the Site. The engineering log by Sloane Weldon Pty Ltd from 2 June 1999 for IF1 and IF2 identifies dolerite as the predominant rock type with light brown orange staining, with fill and wood immediately below the concrete for IF1. As the Site is entirely underlain by reclaimed land comprising fill materials the soils are subject to tidal influence from the adjacent river estuary. Groundwater beneath the Site therefore consists of estuarine waters with fluctuating levels, controlled by the tide. This was confirmed during test pitting work, where some test pits could only be dug during low tide to maximise depth of excavation (to around 1 m below ground level (bgl), otherwise water ingress prevented digging.	GIAP search LotSearch report (Appendix B) Site sampling (Section 5)
Groundwater Dependent Ecosystems (GDE)	No GDEs are mapped within the Site. The River Derwent, immediately adjacent to the Site, is mapped as a moderate potential GDE – from National Assessment.	LISTmap – GDE layer LotSearch report (Appendix B)

Feature	Description	Information Source
Geology	The Site geology consists of: • **Man made deposits** (Qhmm), which are expected to be underlain by • Undifferentiated Cenozoic sequences, or undifferentiated Quaternary sediments and Holocene Alluvial, lacustrine and littoral deposits, underlain by • Dolerite and related rocks (Jd).	LISTmap – geological polygons 25K layer LotSearch report (Appendix B)
Acid Sulfate Soils (ASS)	**ASS mapping includes a high probability (>70 %) of ASS occurrence beneath and adjacent to the Site.** The existing area of reclamation will have covered some of the likely ASS. The proposed new area of reclamation is likely to impact on ASS present beneath the water column.	LISTmap – Coastal ASS (0-20 m AHD) layer LotSearch report (Appendix B)
Heritage	**The Site is**: • Not listed on the Tasmanian Heritage Register (THR), the National Heritage List, the Commonwealth Heritage List or the World Heritage List; and • Not within a Heritage precinct, heritage place, or places of archaeological significance. **Offsite**: • 300 Risdon Road, Lutana is a permanently registered house on the THR 470 m to the southwest of the Site.	LISTmap – Tasmanian Heritage Register layer Planning Scheme LotSearch report (Appendix B)
Ecology	No threatened fauna or flora species have been mapped or recorded within the Site. There are records of the following threatened fauna within 1 km of the Site: • Grey Goshawk (Accipter novaehollandiae) • Eastern Quoll (Dasyurus viverrinus); and • White-bellied Sea-eagle (Haliaeetus leucogaster). There are records of the following threatened flora located within 1 km of the Site: • Risdon peppermint (*Eucalyptus ridonii*) • MacGillivray spiridium (*Spyridium eriocephalum* • Forest germander (*Teucrium corymbosum)* • Crimsontip daisybush (*Olearia hookeri*) • Narrow threadpetal (*Stenopetalum lineare*) • Spur velleia (*Goodenia paradoxa*) • Largefruit seatassel (*Ruppia megacarpa*) • Moleskin dogwood (*Pomaderris pilifera subsp. Talpicutica*) • Fuzzy new holland daisy (*Vittadinia cuneata var.* cuneata); and • Spreading knawel (*Scleranthus fasciculatus*).	LISTmap – Threatened Fauna and Flora layers LotSearch Report (Appendix B)

Feature	Description	Information Source
	All bird records are assumed to be fly-over records only. The quoll record is located in the River Derwent, which is likely a coordinate accuracy error; quolls usage is expected to be a very rare occurrence as habitat present in this area is deemed to be extremely marginal for this species. Refer to Section 3.1.4 for a summary of Marine Solutions' findings regarding aquatic ecology adjacent to the land area.	
Vegetation	No vegetation is mapped for the Property. The vegetation of the immediate surrounds is mapped as "Modified Land – Urban areas (FUR)".	LISTmap – TASVEG 4.0 layer Site inspection (Section 3.4) LotSearch Report (Appendix B)
Wetlands	No wetlands are mapped on the Site. The nearest wetland, ID 15372, is located around 1.3 km northeast of the Site.	LISTmap – Wetlands and Ramsar wetlands, TNVC layers LotSearch Report (Appendix B)
Geoconservation	No geoconservation sites have been mapped within 500 m of the Site.	LISTmap – Geoconservation layer LotSearch Report (Appendix B)

2.3 Natural Hazards

The natural hazard overlays which apply to the Site, as identified through spatial data available on LISTmap and the LotSearch Report are summarised in Table 3.

Table 3: Natural Hazards

Natural Hazard	Description	Information Source
Flood	The Site is **not** within a mapped flood prone area. Flood prone areas **are** mapped within 15 m to the east, south and west of the Site.	LISTmap – flood plain layer and Glenorchy Planning Scheme - Code Overlay map LotSearch Report (Appendix B)
Coastal Inundation	The Site **is** mapped within low, medium and high coastal inundation areas.	LISTmap – coastal inundation layer and Launceston Planning Scheme - Code Overlay map LotSearch Report (Appendix B)
Coastal Erosion	The Site **is** within a mapped coastal erosion investigation area.	LISTmap – coastal erosion layer and Launceston Planning Scheme Code Overlay map LotSearch Report (Appendix B)

Natural Hazard	Description	Information Source
Landslide	The Site is **not** mapped within a landslide area. An area approximately 8 m to the southwest of the Site is mapped as a "Medium Landslide Hazard Area." The western edge of the Property comprises a steep rock cutting in dolerite.	LISTmap – Landslide planning Map and Launceston Planning Scheme Code Overlay map LotSearch Report (Appendix B)
Bushfire	The Site is **not** within the Bushfire-Prone Areas Code under the Planning Scheme, and no records of fire events have been mapped for the Site. There is no vegetation on Site.	LISTmap – Launceston Planning Scheme – Code Overlay layer and fire history layer LotSearch Report (Appendix B)

3. Site History Review

A desktop review of current and historical information (as it relates to potential contamination) was completed for the Site including:

- Review of publicly-available datasets, including Gray Planning Report (2025), GIAP, LISTmap and LotSearch (Appendix B) to document the Site settings (refer to Section 2)
- Client-supplied information (refer to Section 3.1)
- Database search and historical aerial images sourced from the LotSearch report (refer to Section 3.2)
- Consultation with authorities (refer to Section 3.3); and
- Site inspection (Section 3.4).

Where there is the potential for information identified in this section to impact the Site from a contamination perspective, this is identified in **bold red text**. Where PCAs are identified and are considered unlikely to impact on the Site from a contamination perspective, justification is provided.

PCAs which have been identified within the Site and surrounds are shown on Figure 3 (Appendix A). In many instances the location of the PCA is approximate and it is likely that any impact extends beyond the labelled location.

3.1 Client Supplied Information

A summary of Client-supplied information is provided below.

3.1.1 Request For Information

A Request for Information (RFI) was sent to Gray Planning on 2 February 2025. From the information supplied by Incat, the following points are relevant to the Project and potential PCAs:

- No environmentally related incidents (such as fires or spills) that may have impacted soils within the development footprint or adjacent estuarine sediments are known to have occurred from / within the Property and Incat operation
- The visible overflow channel adjacent to the southern Site boundary is known to drain periodically from adjacent operations to the south. From inspection of aerial imagery (refer to Section 3.2.2), the drain appears to flow from a holding pond located south of the Site which is likely managed by Impact Fertilisers; a second drain may feed from the Nyrstar operation as well
- A review of Dangerous Goods (DG) manifest plan for the Property suggests that there are no underground fuel or chemical storage tanks or underground lines, although there could be a short underground feed line between an above ground storage tank (AST), situated in the south of the existing sheds, as it is believed to supply some equipment located within the shed.
- Chemicals stored onsite are understood to be mostly methylated spirits, gas bottles and vehicle oils for onsite activities such as welding and forklift operation
- The fire water main linked to the fire hydrants is the only underground service on the River Derwent side of the Incat sheds (Appendix C)
- The known previous use of the land within the development area was the storage of aluminium components and some shipping containers used as workshops
- **The source of materials used for the reclamation works undertaken approximately 25 years ago is unknown.** It is understood that the loads were visually inspected at the time of unloading, however, these inspections are likely to have been for material suitability from a reclamation compaction perspective, as opposed to contamination perspective

- Antifouling coatings used by Incat are said to be sustainable biocide-free silicone systems. They are stored in a closed environment in the original ship building sheds
- It is understood that no excavation is required as part of the Project as the shed will be installed onto a slab on ground. However, underground services may require trenching excavations and the wharf will require piling which will disturb and potentially generate excess soils
- Waste soil generated will be spread across other areas of the development Site and reused in the reclamation
- The reclamation process will involve placing and pushing imported fill materials along the river's edge, followed by placement of armour rock along the edge of the reclamation to contain the soils. The armour rock is likely to be dolerite boulders sourced from the HBMI Leslie Vale quarry; and
- No environmental monitoring is currently undertaken.

Details regarding the importation of fill to the Incat Property were supplied by Sophie Feltrin (TasWater - Project Delivery Lead) to Stephen Casey (Incat Chief Executive Officer (CEO)) on 11 February 2026.

- Soil and rock from the construction of the Selfs Point Sewer Rising Main, have been imported to the Incat Property under the existing agreement "*Provision of Clean Fill from Selfs Point Sewer Rising Main Construction Site*" (dated 28 November 2025; updated 16 January 2026)
- The topsoil is stripped and retained onsite in windrows prior to transport. The remaining material is then transported for 'temporary storage' at Incat
- Elgin undertook a desktop Preliminary Site Assessment (PSA) in 2024 assessing the alignment for potentially contaminating activities (PCAs). The PSA concluded that the soils could be classified as Clean Fill Type 1. Elgin concluded:
    - Excavated natural soils and FCR [fine crushed rock] from the majority of the Rising Main can be classified as Clean Fill Type 1 without the need for testing. An extract from the Elgin letter is included below for ease of reference:
        - In areas where potentially contaminated material may be present, fill has been tested, segregated, and either reused onsite or disposed of at an appropriately licensed waste facility where classified above Level 1 – Fill Material; and
        - Where testing classified material as Level 1 – Fill Material, some of this material has been transported to INCAT."

3.1.2 Planning Documents

Planning documents relevant to 100 Derwent Park Road, Derwent Park were provided by Gray Planning. From the information supplied, the following points are relevant to the Project and potential PCAs.

- The Proposed works excavation will result in more than 250 square metres (m^2) of disturbance. This disturbance will be predominantly located reclaimed land formed by fill of unknown origins[4].

3.1.3 Environmental Site Assessment by Geo-Environmental Solutions (GES) November 2019

The objective of the GES ESA[5] was to investigate potential site contamination and to assess the suitability and safety of soils for excavation, including potential risks to human health and the environment. It is important to note that the investigation areas assessed as part of the GES ESA (shown in Figure 2 of that ESA) are located 220 m north of the Site; therefore the findings of the ESA are not representative of the contamination conditions within the Site, but provide an indication of the type of contamination which could be encountered, given both GES' investigation and the Site are over reclaimed land. From the ESA, the following key points are relevant to the Project and potential PCAs:

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[4] Pers. Comm. John Smith, Construction Manager, 3/2/2026

[5] Geo -Environmental Solutions (GES). Environmental Site Assessment – 100 Derwent Park Road, Derwent Park (Incat Site). 7 November 2019.

- The potential contamination identified in the ESA was the presence of fill for reclaimed land, as well as industrial activities on the land (boat building and storage of materials) and nearby industrial activities (zinc smelter). All of these activities are similar PCAs to those which are currently present on and near the Site
- The Contaminants of Potential Concern (CoPCs) identified included total petroleum hydrocarbons (TPH), total recoverable hydrocarbons (TRH), benzene, toluene, ethylbenzene and xylenes (BTEX) and polycyclic aromatic hydrocarbons (PAHs) and heavy metals. They were based on past and ongoing site activities (including boat building and the storage, milling and joining of timber) and surrounding industrial activities (zinc smelter and fertiliser facilities)
- Three boreholes sampled to a depth of 1 m had zinc levels at 1 to 2 times above the ASC NEPM Ecological Investigations Levels (EIL) guideline concentration. A soil and water management plan (SWMP) was recommended to mitigate ecological impacts. Two of the boreholes are the closest sampling locations to the Site (approximately 160 m). The elevated zinc levels are likely related to the proximity of the **Nyrstar (zinc smelter)**
- No risks to human receptors associated with dermal contact, dust inhalation, soil ingestion or vapour intrusion were identified, as no exceedances of human health guideline values were detected; and
- Heavy metals were found in 9 of 11 samples and soil waste classification for offsite disposal to landfill was deemed to be Level 2 per IB105.

3.1.4 Marine Ecological Assessment at Incat by Marine Solutions February 2026

Marine Solutions conducted a desktop assessment and field survey to support the marine ecological assessment for the proposed construction and reclamation works at the Incat site, surveying the foreshore area within the Site footprint. The desktop review identified 12 threatened marine species that may occur, or are known to occur, within the proposed development area. Targeted surveys for four of these species were undertaken on 3 February 2026. From the assessment, the following key points are relevant to the Project and potential PCAs.

- Surveys were limited due to the shoreline being located 10 – 15 m further offshore than expected suggesting that at least 10 m of reclamation has occurred since satellite imagery recorded in 2025
- Reclamation works were progressing during the survey period
- Significant water quality impacts were observed, with a plume of high turbidity due to suspended sediment in the water around the reclamation works
- Results from the survey of the intertidal area noted anthropogenic fill and the subtidal habitat was characterised by bioturbated silt and predominately unvegetated benthic habit, **suggesting the area was previous land reclamation**
- No threatened species (including seastars, spotted handfish) were identified during surveys; and
- Marine Solutions proposed the recommendations outlined in Table 4 (Table 1 of their report).

Table 4: Marine Solutions Summary of Findings, Potential Impacts and Recommendations for the Proposed Incat Development (Table 1 Of MS 2026)

	Summary of findings	Potential impacts	Mitigation methods

Threatened and protected species.	• Desktop assessment revealed 12 threatened marine species may occur in the survey area.
	• No threatened species were identified in field investigations.
	• Mobile and migratory species may utilise study area.
		• Injury or death of marine fauna.
		• Loss of habitat.
		• Acoustic disturbance.
		• Suspended sediments resulting in:
		  ○ Resuspension of historically deposited contaminants (i.e., heavy metals).
		  ○ Deposition of suspended sediment into adjacent habitats.
		• Pest species introduction and/or proliferation.
		• Pollution of waterway with debris.
			• Implement best practice construction methods that minimise benthic disturbance.
			• Implement thorough cleaning protocols to reduce risk of pest species translocation.
			• Silt curtain installation and maintenance.
			• Development of a soil management plan to mitigate impacts of run off.
			• If a sediment plume is observed beyond the silt curtain, additional water quality monitoring may be required.
			• Responsible removal of debris and waste from site.
			• Marine mammal monitoring prior to and during any construction activities that create noise intrusion (e.g., piling) by a trained Marine Mammal Observer (MMO) as per the Underwater Piling and Dredging Noise Guidelines (DIT 2023).
			• A slow start-up of construction works to avoid causing unnecessary shock to animals and to allow them to vacate the area.
			• Implementation of an environmental management plan to manage risk and maintain integrity of mitigations.

Habitat characterisation.	• Desktop assessment highlighted ecologically important habitats in the mid - upper Derwent Estuary. • Several native and introduced marine species were recorded during field investigations. • Evidence of historical land reclamation in the intertidal zone. • Debris recorded throughout the survey area. • Sediment plume observed around active reclamation works.		

3.2 LotSearch Report

An Enviro Pro report has been obtained from LotSearch for the Site and is provided in Appendix B. The report includes:

- A compilation of the data for the Site, sourced from publicly-available and privately-sourced databases; and
- High-resolution historical aerial images for the Site.

The Site history data from the LotSearch report are presented in the following subsections. Where applicable, information from the LotSearch report has also been used to inform the Site setting section (Section 2).

3.2.1 Database Information

Key findings from the databases compiled in the LotSearch report include:

- Environmental Protection Notice (EPN) 7316/2 relates to the operation of a chemical fertiliser plant at Impact Fertilizer (Ameropa Australia Pty Ltd) at 300 Risdon Road, Lutana, 10 m south of the Site. The original Permit Conditions Environmental (PCE) (5960) was granted in 1994. The activity is currently approved to process 220,000 tonnes per year. Impact Fertilizer produce Single Superphosphate (SSP) fertiliser. Given Impact Fertilizer have been approved for operation since 1994 and due to the close proximity to the Site, there is potential that the production process for SSP may have contributed to the contamination at or beneath the Site either due to emissions to air, or to water / sediments prior to reclamation. However, due to the thickness of the reclamation layer over the former sediment layer, contamination in sediments beneath the Site reclamation layer is not expected to pose a risk to Site users or the environment. The main fallout from air emissions from Impact Fertilizers which could have impacted on the Site soils includes fluoride, oxides of nitrogen and total particulates

- EPN 7043/6 relates to the operation of a zinc smelter at 300 Risdon Road, Lutana, 20 m southeast of the Site. Issued to Nyrstar Hobart Pty Ltd, the activity was first approved by the then Department of Environment and Land Management in June 1996 per Permit 3314. **However, the premises have been operating as a zinc smelter for around a century under various permits and operators. The close proximity of the zinc works to the Site and storage / handling / processing of heavy metals (zinc) there is a risk that Nyrstar may have contributed to contamination at or beneath the Site. Air emissions from the zinc smelter are known to impact on soil metals concentrations at locations downwind of the smelter, which could include the Site.** Sediments beneath the reclamation on Site are also likely to have been impacted by the zinc works metals emissions, although, since reclamation is several metres thick, risks to human health and the environment from these contaminated sediments are minimal. **Sediments adjacent to the Site which are proposed to be covered by fill for reclamation purposes are most likely also impacted by heavy metals from the zinc works (and from other industrial operations along the Derwent River)**
- EPN 8736/1 issued to the Glenorchy City Council relates to the operation of aquifer storage and recovery for the Derwent Park Stormwater Harvesting & Industrial Reuse Project. This former activity is located 180 m southwest topographically upgradient of but lateral to the Site, therefore it is unlikely this activity would contribute to contamination of the Site
- EPN 7167/1 relates to the ferrous and non-ferrous foundry located at 12-14 Bender Drive, Derwent Park, 410 m west of the Site. The activity was permitted in 1991 and the EPN was issued in 2009 to vary the conditions. The EPN outlines the regulatory limit for the foundry to not exceed 1400 kg of melting metal per 8-hour day. The distance of this facility from the Site and the fact that the Site is on reclaimed land, suggests that it is unlikely that any contamination from this facility could have impacted directly on the Site
- Permit 7554 relates to the operation of a clinical and related waste depot at 129 Derwent Park Road, located 570 m southwest of the Site. Issued in 2006 to Southern Waste Solutions (SWS), the activity is limited to the receival of 560 tonnes per year of waste. Due to the distance and topographical and lateral location of this current activity relative to the Site, it is unlikely to have contributed to contamination of the Site
- EPN 9208/1 and EPN 8545 relates to the operation of wastewater treatment plant at Prince of Wales Bay, located 631 m southwest of the Site. Permit 3540 was issued by the then Department of Environment and Land Management in 1991 for the Activity and is unlikely to have contributed to contamination of the Site due to being situated lateral to the Site
- There are three surrounding waste management facilities (Shred X – e-waste drop-off facility and paper / cardboard recycling, Cleanaway - Material Recovery Facility; and SWS Transfer station) located between 430 m and 700m of the Site, that are unlikely to have contributed to contamination of the Site as they mostly handle solid wastes
- The closest underground petroleum storage system (UPSS) is within 831 m southeast of the Site, at Nyrstar, 300 Risdon Road, Lutana, located topographically and hydraulically upgradient, but lateral to the Site. The UPSS is unlikely to impact on the Site due to the distance and topographical location; and
- The Derwent Barracks located at Dowsing Point, 910 m northwest of the Site, is a known contamination location that has been assessed as part Defence 3-Year Regional Contamination Investigation Program. **There is a slight risk that mobile contamination from this operation (including perfluoroalkyl- and polyfluoroalkyl substances [PFAS]), could have impacted on the river sediments and water quality near the Site. And given the tidal nature of the river adjacent to the Site, it is possible that PFAS may have been deposited within Site soils.**

3.2.2 Historical Aerial Images Review

Historical aerial images sourced from the LotSearch report are provided in Appendix B.

A review of the main features observed in the historical aerial images is provided in Table 5. Notable information for the images ranging from 1946 to 2025 includes:

- Adjacent industrial activities, including the zinc smelter (Nyrstar) and fertiliser manufacturing operations (Impact Fertiliser), have historically operated to the southeast of the Site. These activities have the potential to have impacted the Site from a contamination perspective. Ongoing industrial operations, including the intensification of Nyrstar's activities from 1969 and the storage and processing of heavy metals (zinc and others) (including storage of waste jarosite), are likely to have contributed to contamination at or beneath the Site, particularly within the underlying sediments, although airshed fallout is also known to have impacted soils in surrounding areas with heavy metals concentrations above background
- The pipeline discharging from the zinc smelter (Nyrstar) is evident since 1969, with a visible plume observed at the discharge location. The pipeline was located 160 m southeast of the Site and was no longer visible in 1997. The nature of the discharge is unknown. It is likely that discharged materials have settled into river sediments and along the shoreline of the River Derwent and would have been reworked and moved around during flood and tide cycles. Given this uncertainty, **there is potential for impacted sediments to have accumulated along the shoreline beneath and adjacent to the Site. These sediments may be disturbed during reclamation works as well as during installation of sheet piles and wharf piles**; and
- Historical aerial imagery from 2003 to 2014 shows evidence of land reclamation within the Site footprint. The chemical and physical composition of the fill materials is unknown[6]. **Given the lack of detail on the nature of the fill materials, there is potential for contaminants to be present within the fill beneath the Site.**

Table 5: Historical Aerial Images Review

Year	Site	Property	Surrounds
1946	• River Derwent	• Not developed, cleared land	• Surrounding areas to the southeast appears to be a timber yard • Train line between the road and large shed west of the Property, road running parallel to the Property; and • Cleared land along the coastline and five houses located along the road frontage.
1957	• River Derwent	• Not developed, cleared land	• The coastline predominantly looks the same as 1946, however a wharf has been constructed to the southeast • The timber yard has been redeveloped into a large industrial facility (zinc works); and • No further development has occurred to the housing.

[6] Pers. Comm. John Smith, Construction Manager, 3/2/2026: although loads of fill brought in around 25 years ago were visually inspected for contamination, the source of the materials is not known and not contamination testing was undertaken

Year	Site	Property	Surrounds
1969	• River Derwent	• Not developed, cleared land	• A pipeline has been constructed north of the wharf. 160 m southeast of the Site. A white plume believed to be from the zinc works surrounding the discharge point can be observed • Further development of the zinc works has occurred • The area between the housing and industrial site has been developed and is utilised for car parking; and • Large shed has approximately doubled in length and appears to have a powder material located outside on the west end (Impact Fertiliser).
1977	• River Derwent	• Not developed, cleared land	• Predominately no change except further expansion to the zinc works (one large tank).
1988	• River Derwent	• Not developed, cleared land	• Further development of the zinc works (one large tank) • Difficult to identify the location of the existing railway and no train carriages indicating a shift towards road transport • Further land clearing has occurred to extend the car park to the northeast; and • Evident white plume from the pipe into the River Derwent (Nyrstar discharge).

Year	Site	Property	Surrounds
1997	• River Derwent	• Significant development has occurred to the Property; and • Significant land reclamation for the development of Incat's Site (long industrial shed, car parking, unsealed storage area); the slope appears to have been cut back along the western and southern side of the Property	• Housing has been removed and land has revegetated (grass); and • Building at the industrial site (zinc works) has been demolished and have not been entirely removed.
2003	• The Site area has been partially reclaimed.	• Further land reclamation has occurred for the development of Incat second shed the development of Incat's Site (second long industrial shed, car parking, unsealed storage area)	• Vegetated land has been cleared for car parking to the southwest of the Property.
2014	• Further reclamation work has occurred within the Site footprint • The site is being used for storage of aluminium components; and • Works have been undertaken along the foreshore, possibly to straighten and reinforce the foreshore edge.	• The building of the second shed has been completed; and • The area surrounding the Incat shed appears to now be a hardstand.	• The car parking to the south west of the Property appears to now be a hardstand.
2025	• No change to the Site footprint is evident; however, storage use has increased.	• A smaller shed has been built onto the eastern side of the second shed.	• The pond to the east of the Property is full. • No other evident changes.

3.3 Consultation with Authorities

WorkSafe Tasmania (WST) have been consulted regarding documents relating to contamination and/or PCAs at the Site or within its vicinity.

The records obtained from these communications are supplied in Appendix D.

3.3.1 WorkSafe Tasmania

An enquiry was lodged with WorkSafe Tasmania (WST) regarding dangerous goods (DG) records for the Site on 28 January 2026. WST confirmed on 12 February 2026 that no files were identified for the Site according to WST general records management system and the EPA's Environmental Relevant Land Use Register (ERLUR).

3.3.2 EPA

Given the extensive public databases on current and historical activities (and known PCAs) in the area of the Site, no direct enquiries have been made with the EPA. A summary of currently regulated premises is provided in Section 3.2.1.

A review of EPA UPSS records in LISTmap identified one UPSS within 1 km of the Site. The nearest active UPSS is Site ID 260, located approximately 830 m southeast of the Site at Nyrstar, 300 Risdon Road, Lutana. Given the distance and as it is topographically and hydraulically lateral to the Site, the UPSS is not expected to have impacted the Site.

3.4 Site Inspection

A Site inspection was completed by Fiona Keserue-Ponte (CEnvP SC) on 3 February 2026. Fiona also attended site on 18 February 2026, at the onset of Site sampling in test pits and in stockpiles.

The inspection checklist is provided in Appendix E and Site photographs in Appendix F.

A summary of Site observations is provided below:

- The western edge of the Property was cut into fresh dolerite; the embankment is near vertical
- The Site surface was unsealed
- Numerous soil and rubble stockpiles were present as well as sundry steel equipment storages
- Reclamation works appeared to have recently occurred and a sediment plume was very visible all along the foreshore
- The northern end of the Site, along the former reclamation edge, showed evidence of erosion with only coarser materials remaining and all fines having been washed away
- Numerous soil and rubble stockpiles were present onsite, many had mixed solid wastes including plastic piping, PVC piping, bent reinforcement steel bars still embedded in concrete, bricks and other demolition rubble. Stockpiles also included rock, gravel, sand, soil, organic matter and plant matter
- There was clear evidence of the high tide flooding the lower reaches of the Site area
- As the Site is underlain entirely by reclamation / fill materials, groundwater beneath the Site is expected to be tidally influenced and water quality would be strongly influenced by the river water quality in terms of both salinity and potential contaminants
- Two underground services were noted onsite, a fire main and standpipes, and an apparently disconnected power plug in pole

- The Site surface showed evidence of the mixed fill nature of the previous reclamation materials which also appeared to have included concrete rubble, bricks, and other solid wastes; and
- A black plastic sheet was present along the southern embankment, south of the Site. The plastic sheet appears to act as erosion control for occasional discharges from either Impact Fertilisers or Nyrstar or both. The discharge flows directly into the river.

The main issues relating to contamination included:

- The presence of mixed fill of unknown origins and contamination status within the existing reclamation
- The presence of mixed fill of unknown contamination status within the existing stockpiles and recent reclamation materials, some of which were eroding and being transported from Site via a sediment plume
- The informal and inadequate containment along the foreshore reclamation, particularly along the recent reclamation edge but also along the older northern edge where all fines had washed away leaving residual small rocks and rubble only acting as very weak armouring for that area of older reclamation
- Groundwater quality beneath the Site is likely to be affected by the river water quality, as groundwater within the reclaimed material would be almost entirely tidally derived; water quality in the area can be strongly affected by discharges from adjacent industrial operations, including from the discharge channel noted along the southern edge of the Site; and
- The unknown contamination status and ASS status of soil being impacted by the active reclamation works which could be mobilising previously contaminated sediment lying at the bottom of the river and also disturbing ASS which could begin oxidising and releasing acid due to the disturbance.

3.5 Integrity Assessment

In order to confirm the findings of the desktop review, cross-referencing between the different information sources has been completed as far as practicable and the information presented within this report is considered to be generally correct, with consideration of the following:

- The LotSearch report (Appendix B) does not identify any addresses associated with potentially contaminating business activities extracted from Universal Business Directories that are mapped to a specific premise or road intersection. This is due to there being no such records captured within the dataset buffer zone, despite the presence of known surrounding industrial activities. The LotSearch report is limited to the datasets available and their defined spatial coverage.

4. Summary of Potential for Contamination

4.1 Potential for Contamination on and Adjacent to the Site

PCAs identified in the SHR sections above as having potential to impact the Site from a contamination perspective are summarised below. Some of the PCAs are shown in Figure 3 within Appendix A. Where an identified PCA is not listed below, it has been dismissed in Section 3 as being unlikely to impact on the Site from a contamination perspective.

- Previously reclaimed land beneath the Site consists of mixed fill of unknown origins, composition and contamination status
- Storage of materials, shipping containers, etc. within the Site footprint (since at least 2003), including movement of mobile plant including hydrocarbon-fuelled equipment
- Recent fill brought to Site and used as recent reclamation materials also included mixed fill from various sources including TasWater earthworks, which does not appear to have been thoroughly tested / characterized for contamination and permitted for reuse onsite
- Recent stockpiles brought to Site but not yet used for the reclamation included mixed fill from various sources including TasWater earthworks, which does not appear to have been thoroughly tested / characterized for contamination and permitted for reuse onsite. BDR was included in the stockpiles; BDR is often associated with asbestos containing materials (ACM). Many stockpiles appear to include organic matter / vegetation / timber pieces which is not suitable as inert reclamation material. Scrap materials such as plastic and PVC piping, steel reinforcement bars sticking out of concrete, etc. are not deemed suitable for reclamation materials as they will break down into micro plastics and rusty by-products respectively
- Fallout from nearby industrial operations is known to have impacted soil quality of downwind land areas with heavy metals concentrations above background; these include impacts from zinc, lead and other heavy metals
- The hydraulically upgradient Australian Defence Force facility at Dowsing Point may be a source of PFAS contamination which could have impacted on the Site as it is regularly flooded by high tides
- Groundwater quality beneath the Site is likely to be affected by the river water quality, as groundwater within the reclaimed material would be almost entirely tidally derived; water quality in the area can be strongly affected by discharges from adjacent industrial operations, including from the discharge channel noted along the southern edge of the Site
- Historically contaminated sediments are expected to be present within the sediment column all along the riverbed, within the proposed reclamation area and beneath the existing reclamation
- ASS are expected to be present all along the riverbed, within the proposed reclamation area and beneath the existing reclamation
- Sediment plumes were observed actively eroding and moving in the tidal river waters from the active reclamation edges of the Site
- There is evidence that the finer materials along the foreshore of the existing reclamation have been eroding due to lack of: proper containment, inadequate reclamation construction method and lack of large armour rock; and
- Abundant reclamation spoil was noted on the riverbed (Marine Solutions, 2026) suggesting that former and current reclamation materials are not contained to the reclamation area only but are also rolling off the reclamation face and spreading on the riverbed. Given the mixed nature and unconfirmed contamination status of the fill used historically and recently for reclamation, there is a risk that contaminated materials have been released onto the nearby riverbed.

4.2 Contaminants of Potential Concern

On the basis of the above, CoPCs are expected to include:

- Heavy metals, in particular zinc and lead
- Hydrocarbons
- ACM and potentially loose fibres; and
- PFAS.

5. Intrusive Investigations

5.1 Objectives

Due to the identified potential Site contamination concerns outlined in Section 4, intrusive investigations were recommended for the Site to characterise the potential contamination of the fill materials, as the contaminants may affect the proposed Site use, proposed construction works, and the proposed extension to the reclamation to create a larger footprint for the Site. As removal of reclaimed materials was not expected to occur, characterisation of soils focussed on the shallower soil horizons in the existing reclamation and on the soil stockpiles present on the Site at the time of sampling. Groundwater was not included in the investigation as groundwater quality is likely to be similar to the river water quality as the Site groundwater is expected to be tidally influenced within the reclaimed fill materials.

The objectives of the intrusive investigations were therefore to:

- Determine the presence and concentrations of CoPCs (refer to Section 4.2), presence / absence of asbestos-containing materials (ACM) and asbestos fibres in the soils / fill materials at the Site as a result of identified PCAs, specifically the fill from unknown sources used during past reclamation works and untested fill recently brought in from TasWater and still stockpiled onsite
- Assess the findings and confirm (or otherwise) the presence of contamination within the Site
- Inform any remediation and protection measures required to be implemented prior to any reclamation works commencing within the Site; and
- If possible, based on the findings, provide a statement that the Site is suitable for proposed development (as per zoning) and proposed excavation, from a contamination perspective.

5.2 Overview

Intrusive investigations completed by pitt&sherry within the Site as a component of this ESA comprised:

- Inspecting and sampling 13 test pits excavated within the Site to a maximum depth of 2 m bgl; and
- Inspecting all fill stockpiles and sampling 30 representative stockpiles within the Site.

Investigation locations and the estimated stockpile area are shown in Figure 4 (Appendix A).

5.3 Sampling Plan

5.3.1 Data Quality Objectives

The data quality objective (DQO) process for this ESA is summarised in Table 6.

Table 6 Summary of Data Quality Objectives

DQO	Details
The Problem	• Unknown concentrations of CoPCs (including presence / absence of ACM or asbestos fibres) in soil / fill materials within the Site due to identified PCAs – specifically the uncontrolled fill used during historical and recent reclamation works from unconfirmed and some untested sources.
Investigation Questions	Investigation questions for this ESA include: • What is the current contamination status (if any) of the soils / fill materials within the Site footprint up to depths relevant to the proposed use and proposed development? • What is the contamination status and waste classification of stockpiles proposed for onsite reuse and reclamation? • Does the level of contamination (if any) at the sampled locations represent an unacceptable risk to human health and/or the environment for the proposed development and reclamation; and • Are any management measures for soils / fill materials likely to be required during the proposed use or redevelopment including reclamation?
Inputs to the Decision	Information inputs to this ESA comprise: • Site setting and Site History Review, including Site inspection – refer to Section 2 and Section 3 • Field visual, olfactory and screening data – refer to Section 5.4 • Summary of potential for contamination – refer to Section 4 • Assessment criteria – refer to Section 5.5 • Summary of results – refer to Section 6 • Interpretation of results, and review of quality assurance and quality control (QA/QC) information, Section 6.1.2 and • Conceptual site model (CSM), source-pathway-receptor (SPR) linkages and risk assessment – refer to Section 8.1
Boundary of the Assessment	• Intrusive investigations were limited to the 13 test pits and 30 waste stockpiles within the Site footprint • A maximum of three samples were taken from each test pit for analyses • A maximum of one sample was taken from each waste stockpile for analyses • Test pit and stockpile locations are shown in Figure 4 (Appendix A); and • Limitations, exclusions, and gaps are noted in Sections 1.5 and 8.4; in addition to "*Important information about your report*", at the end of this ESA.

DQO	Details
Decision Rules	Comparison of reported concentrations of CoPCs in soils / fill materials against adopted assessment criteria (where available) to: • Allow an assessment of whether the contamination status of the soil / fill materials within the Site represents an unacceptable risk to human health and/or the environment under the permitted land uses (based on zoning) and under the proposed land use (general industrial); and • Identify whether any management measures are likely to be needed to manage or remediate any identified contamination risks.
Acceptable Limits on Decision Errors	• Variation in data may arise from samples collected in succession from a single sampling point due to: ○ The potential heterogenous nature of the soils / fill materials ○ The potential heterogenous dispersion of contaminants within the soil / fill profile; and ○ Fragments of materials which may bias samples in certain elements.
Design for Obtaining Data	• Intrusive investigations for the ESA targeted locations for the collection of soil / fill material samples within the Site accordance with the legislation and guidelines outlined in Section 1.4 as applicable to an ESA and considering the limitations in Section 1.5; and • The sampling plan is detailed in Section 5.3.

5.3.2 Sampling Methodology

The sampling methodology for this ESA is summarised in Table 7.

Table 7: Sampling Methodology

Activity	Details
Rationale	• Intrusive investigations were undertaken as a component of this ESA to enable characterisation of the type and contamination status of the fill stockpiles and reclamation fill material • Sampling was developed to enable the determination of the potential risks to human and/or environmental health during proposed reclamation, construction and Site use, posed by the known placement of fill of unknown origins • Contaminants in the fill can be a diffused source and can also be localised, so sampling in accordance with *AS4482.1-2005*[7] was applied to this Site as the fill has been present for several decades and hotspots could also be present from Site PCAs. • The existing reclaimed land area of the Site was estimated at approximately 5000 m^2 or 0.5 ha. According to *AS4482.1-2005,* around 13 sampling locations are recommended to characterise the contamination via a square grid and to detect a circular hotspot of contamination with 95% confidence • Selection of samples in each test pit was based on the logged profile and selected to provide representative samples from the main fill horizons and the base of the test pits

[7] *AS 4482.1-2005 Guide to the investigation and sampling of sites with potentially contaminated soil, Part 1: Non-volatile and semi-volatile compounds – Table E1*

Activity	Details
	• The number of stockpile samples was based on the total volume of soil stockpiles present onsite during sampling; the volume was estimated at 800m3. A total of 30 soil stockpile samples was considered appropriate to provide 1 sample per 27 m3; IB105 requires 1 sample per 25 m3; given the estimated 800 m3 of stockpiles onsite, the density of sampling is deemed sufficient to characterise the contamination status of the stockpiles that were present on the morning of 18 February 2026[8]; and • Soil stockpile samples were selected to provide a representative sample of a group of similar stockpiles, or to characterise stockpiles of only one type of material. The aim was to take representative samples relative to the volume of similar soil types noted in the stockpiles.
CoPCs	Based on previous Site investigations and on identified PCAs, potential CoPCs for the Site were selected as follows (refer to Section 4.2): • 8 heavy metals (arsenic (As), cadmium (Cd), chromium (Cr), copper (Cu), lead (Pb), nickel (Ni), zinc (Zn), mercury (Hg)) – total concentrations only • Hydrocarbons: total petroleum and total recoverable hydrocarbon suite (TPH/TRH), benzene, toluene, ethylbenzene and xylenes (BTEX), and polycyclic aromatic hydrocarbons (PAHs) – total concentrations only • Asbestos fibres and asbestos presence/absence in solid fragments; and • PFAS – total concentrations only.
Investigation Works	• Investigation works were supported by: o John Smith – who operated the excavator and identified underground services to be avoided during excavation of test pits • Test pitting work comprised the excavation of 13 test pits to a maximum depth of 2 m bgl, inspecting the profile and collecting soil samples from different fill horizons/materials for CoPC analysis; water seepage was encountered (refer to Section 6) • Stockpile sampling to provide representative samples of the soil types present onsite at the time of sampling. Soil samples were taken from the surface of stockpiles; and • In accordance with ASC NEPM practice, on completion of sampling, excavated soils / fill materials were backfilled into the excavated test pits. No materials were disposed offsite as a component of this ESA.

[8] It should be noted that new soils were being actively brought to Site during pitt&sherry sampling. These were not sampled during our works

Activity	Details
Sample Collection	• Screening and sampling were undertaken by pitt&sherry staff experienced with contaminated land sampling and under the initial guidance of a CEnvP SC • All soil / fill material samples were collected using single-use disposable nitrile gloves into laboratory-supplied receptacles and snap-lock bags (as appropriate) suitable for the CoPCs to be tested, filled with minimal headspace, sealed, labelled, and placed on ice in portable chiller boxes • Soil / fill material samples were collected from the excavated piles from the nominated depths of the profile. The sampling depth was selected to obtain representative samples from the profile (i.e. different fill materials, natural soils/sediments), was guided by the depth of any obvious contamination (i.e. odour / staining / fill) • Additional samples were collected to satisfy QA/QC requirements at the rate of: o One triplicate set per 20 samples resulting in: - Two triplicate sets for test pits - Two triplicate sets for soil stockpiles; and • Profile descriptions, location information were recorded on test pit / stockpile logs (refer to Appendix F) and sampling locations are shown on Figure 4 (Appendix A).
Visual Observations and Screening	• Refer to Section 5.4 for a summary of visual observations; and • Details are recorded on test pit and stockpile logs (Appendix F).
Photographs	• Representative photographs of test pit profiles and stockpile sampling locations and context are provided in Appendix F.
Decontamination	Decontamination and cross-contamination mitigation procedures included: • Removing excess soil from the excavator bucket between investigation locations • Using single-use disposable nitrile gloves, changed after collection of each sample; and • Using new laboratory-supplied receptacles suitable for the CoPC to be tested for each sample.
Sample Transport	• A chain of custody (CoC) form was submitted to the laboratory with the samples for analysis • Ice was added to the chiller boxes for sample preservation • The samples were transport to the primary laboratory under CoC conditions and within relevant holding times for the CoPCs to be tested; and • CoC forms and laboratory sample receipt notifications are provided in Appendix G.

Activity	Details
Samples For Analysis	• Test pit soils: ○ 38 primary samples were tested for hydrocarbons (TPH/TRH/BTEXN/PAH), total metals (As, Cd, Cr, Cu, Ni, Pb, Zn, Hg) ○ 11 primary samples were tested for absence / presence of asbestos; these were selected from horizons that had BDR ○ 7 primary samples were tested for PFAS (short suite); these were selected from approximately a quarter of the test pits and only from the shallowest soil horizons which are most likely to have been affected by PFAS from the identified offsite source ○ 2 triplicate sets (2 replicated samples of a primary sample) were tested for total metals and hydrocarbons (BTEXN, PAH, TPH/TRH) ○ 2 samples were tested for ASC NEPM soil characterisation screening to assist in determining Site specific EILs for relevant metals (Cr, Cu, Ni and Zn) • Soil stockpiles: ○ 30 primary samples were tested for hydrocarbons (TPH/TRH/BTEXN/PAH), total metals (As, Cd, Cr, Cu, Ni, Pb, Zn, Hg) ○ 3 primary samples were tested for absence / presence of asbestos ○ 5 primary samples were tested for PFAS (short suite, total concentrations) ○ 2 triplicate sets (2 replicated samples of a primary sample) were tested for total metals and hydrocarbons (BTEXN, PAH, TPH/TRH) ○ 2 samples were tested for ASC NEPM soil characterisation screening to assist in determining Site specific EILs for relevant metals (Cr, Cu, Ni and Zn); and • 3 samples for asbestos in bulk solids.
Laboratory Analysis	• All samples were submitted to the National Association of Testing Authorities (NATA)-accredited ALS (ALS Limited – laboratory services; Accreditation No. 825) for testing of identified CoPCs; and • Secondary samples for QA/QC were onforwarded to the NATA-accredited Eurofins Laboratory (Accreditation No. 1261) for testing of identified CoPCs.
Holding Times	• All soil samples were received by the laboratories within the required holding times for the individual parameters tested, with exceptions discussed in Section 7.3.2; and • Quality control details are discussed in Section 7.3.
Assessment Criteria	• Refer to Section 5.5 for adopted assessment criteria and rationale.
Results	• Summary tabulated results are discussed in Section 6 and Section 7 and provided Appendix H.

5.4 Visual Observation and Field Screening

To accompany the visual observations summary provided in the following subsections, refer to Appendix F – for the photographic log, field sheets and details of the encountered soil types, depth intervals, field screening results for VOCs, odours and staining.

5.4.1 Site Observations During Sampling

Site observations during sampling included:

- Field personnel observed that additional fill was being imported to the Site and placed alongside the existing stockpiles
- There was evidence of the high tide having flooded the eastern edge of the Site and the water ingress in the test pits was clearly controlled by the tide. Test pits dug along the eastern portion of the Site were excavated during low tide to maximise the depth of test pitting; and
- Existing stockpiles were moved and mixed in order to facilitate access to the required locations for excavation of some test pits. Stockpiles that had been mixed prior to sampling were noted in the comments of the field sheets (Appendix F).

5.4.2 Soil Profile

The typical, generalised soil profile of test pits encountered (Appendix F) consisted of:

- A fill capping between 0 to approximately 0.2 m bgl, mostly consisting of gravelly silts, clay and sand
- Below 0.2 m bgl, profiles consisted of BDR including red bricks, bitumen, concrete, plastic and PVC pipes, etc. intermixed with predominately gravelly clay and gravelly silt; and
- Water ingress was encountered between 0.7 – 1.9 m bgl, deepening to the west, away from the river. The water ingress was also controlled by the timing of the tide cycle (i.e. shallower water ingress at high tide and vice versa), and the original ground level (the higher the ground level the deeper the water ingress).

5.4.3 Odour and Staining

As documented on the field sheets / logs (Appendix F):

- No odour or staining consistent with potential odourous or staining CoPCs was encountered within fill layers of the test pits, other than in TP02, as noted below
- A slight hydrocarbon odour was noted in one test pit (TP02) at a depth of between 1.2 and 1.9 m bgl; the odourous layer was logged as black clays with gravel; neither of the samples around these depths in TP02 reported any detectable hydrocarbons. The odours may have been due to organic matter in the profile; and
- Stockpiles with organic matter and topsoils were observed to be slightly odorous, likely due to decaying organic matter (e.g. SP03, SP05, SP08 and SP25).

5.5 Assessment Criteria

5.5.1 Rationale

The Site assessment criteria were selected based on the following:

- Unknown composition of fill across the Site, with fill being placed since at least 2003, refer to Section 3.2.2
- Adjacent contaminating land uses which have been ongoing for decades (Impact Fertilisers and others) and near a century in the case of the zinc works (Nyrstar)
- Storage of materials, shipping containers, etc. within the Site footprint (since at least 2003), including movement of mobile plant including hydrocarbon-fuelled equipment
- Importation and placement of stockpiles of fill materials which from TasWater for which the source location and associated testing records are not clearly identifiable; and
- Onsite or adjacent sensitive receptors, including Site users and aquatic ecology (refer to Table 2 and Section 3.1.4).

5.5.2 Soil and Fill Material Adopted Criteria – CoPCs

On the basis of the above rationale and due to the reclamation for the proposed development the following Site assessment criteria have been selected for this ESA:

- ASC NEPM:
  - Health Screening Levels (HSLs) / Health Investigation Levels (HILs) for commercial / industrial land use (HIL/HSL D)
  - Ecological Screening Levels (ESLs) / EILs for commercial / industrial land use settings and nearby areas of ecological significance (River Derwent) to assess the risk to ecological receptors during the proposed commercial Site use and against the permissible zoning uses (Port and Marine), as well as to assess risks to more sensitive ecological receptors within the nearby waterway
  - Site-specific EILs were calculated for Cr, Cu, Ni and Zn for both the test pits and the stockpiles based on the most stringent calculated aged added contaminant limit (ACL) value for each of these metals, and based on two samples each of the test pits and the stockpiles. It should be noted that the ACL was adopted as an EIL in the absence of an established background value. Therefore, the adopted EILs for these metals are very conservative and an exceedance of the EIL does not necessarily signify that ecological harm will occur
- CRC CARE Technical Report No. 10:
  - HSLs for commercial / industrial land uses to assess the risk to human health during direct contact
  - HSLs for Intrusive Maintenance Workers (IMW; i.e. construction and maintenance workers) to assess the risk to human health from vapour intrusion and during direct contact in a shallow trench; and
- PFAS NEMP for HIL D (direct contact).

In addition to these, IB105 waste classification criteria have also been considered to determine the likely classification of the soil stockpiles. It should be noted that soils which are taken from one property to another need to have been classified and any soils classified as Level 2 require approval from EPA for reuse on another property and Level 3 and above are not typically approved by EPA for reuse on another property.

Laboratory reported concentrations of tested CoPCs in soil / fill have been compared against these criteria (where available and as appropriate) (i.e. a Tier 1 Risk Assessment). The criteria are used as thresholds to assist in determining if further investigation, risk assessment and/or management may be required. Asbestos was assessed on a presence / absence basis.

6. Analytical Results

6.1 Analytical Results and Comparison to Adopted Assessment Criteria

Laboratory Certificates of Analysis are provided in Appendix G. Analytical results have been summarised and compared to adopted assessment criteria (where applicable) in the result tables in Appendix H. Basic statistics are also provided.

Appendix H contains:

- Tabulated soil and fill results compared to the following adopted guideline criteria; and
- Tabulated soil triplicate results and calculated relative percentage differences (RPDs) for quality control.

Results are provided in the following:

- The reported concentrations in soils and fill materials are summarised in Section 6.1.1
- The reported concentrations in soils and fill materials assessed against waste classification criteria (Section 6.1.2); and
- Field and laboratory QA/QC are discussed in Section 7.3.

6.1.1 Soils / Fill Materials

A summary of exceedances of adopted Site use assessment criteria (irrespective of soil type, texture or depth) is provided in Table 8 (test pit samples) and Table 9 (stockpile samples). These results represent an assessment of the suitability of soils / fill materials for remaining onsite as part of the existing reclaimed materials (test pit soils) and for reuse in the reclamation (stockpiled soils).

Three solid grab samples of potential ACM fragments were taken from the Site (loose fragments sampled as ACM1 and ACM2, and one solid sample from stockpile SP06, one of which detected asbestos (sample ACM2)).

Assessment Against Human Health Criteria – Commercial / Industrial Site Setting

The results show that there were two human health guideline exceedances for lead in test pit 10 in samples TP10_0.2 m and TP10_0.5 m, which reported concentrations of 2,040 mg/kg and 2,220 mg/kg respectively.

As noted above, sample ACM2 reported presence of three asbestos types, chrysotile, amosite and crocidolite. The fragment was found at surface on the Site, near TP03. The fragment is likely to have come from previous BDR containing fill placed within the previously reclaimed area.

Assessment Against Ecological Criteria – Commercial / Industrial Site Setting

A range of exceedances of commercial / industrial ecological criteria were reported in both the test pits and stockpiles. Of note is the following:

- Two samples reported concentrations of lead in excess of the commercial / industrial lead EIL of 1,800 mg/kg, these were the two samples taken at 0.2 m and 0.5 m bgl in TP10
- Two samples reported concentrations of benzo(a)pyrene (BaP) in excess of the commercial / industrial lead EIL of 1.4 mg/kg; samples TP12_1.0 m and SP08 reported concentrations of 3.2 and 2.1 mg/kg BaP respectively; and
- Four samples reported concentrations of perfluorooctanesulfonic acid (PFOS) in excess of the PFAS NEMP ecological *indirect* exposure criterion (applicable to all land uses). These were in TP05_0.2, TP08_0.1, TP09_0.7 and SP23.

Assessment Against Ecological Criteria – Areas of Ecological Significance Setting

- Test pits

  The following exceedances of ecological criteria for areas of ecological significance were noted in test pits samples:

  - Arsenic: There was one exceedance in TP13_1.0 m bgl
  - Copper: There were seven exceedances of the copper EIL (conservative ACL), which were reported from a range of depths, including near surface and down to 2 m bgl
  - Lead: There were three exceedances' of the lead EIL (generic EIL), all were in TP10 at depths ranging from 0.2 to 1.1 m bgl
  - Nickel: There was one exceedance of adopted nickel EIL (conservative ACL), in TP08 at 1.2 m bgl
  - Zinc: There were 25 exceedances of adopted zinc EIL (conservative ACL), i.e. around 66 % of samples reported exceedances, across all depths of samples
  - BaP: There were two exceedances of adopted BaP EIL, both in TP12 in both the shallow and deeper samples
  - PFOS: There were three exceedances of PFOS ecological criterion (applicable to all land uses) which were reported at depths ranging from 0.1 to 0.7 m bgl
- Stockpiles
  - Copper: There was one exceedance of adopted EIL (conservative ACL) in SP05
  - Lead: There was one exceedance of generic lead EIL in SP05
  - Nickel: There was one exceedance of adopted nickel EIL (conservative ACL) in SP07
  - Zinc: There were 2 exceedances of adopted zinc EIL (conservative ACL) in SP03 and SP05
  - BaP: There was one exceedance of adopted BaP EIL in SP08; and
  - PFOS: There was one exceedance of PFOS ecological criterion (applicable to all land uses) which was reported in SP23.

Table 8: Summary of Exceedances of the Adopted Criteria – Test Pits

Sample ID / Depth (mbgl)	Human Health Criteria				Ecological Criteria			Presence of Asbestos and Other Fibres		
	ASC NEPM HIL / HSL D (vapour intrusion)	CRC CARE HSL D (vapour intrusion)	CRC CARE HSL D (direct contact)	CRC CARE HSL D (IMW)	ASC NEPM EIL/ESL Commercial / Industrial	ASC NEPM - EIL/ESL (areas of ecological significance)	PFAS NEMP - ecological indirect exposure (all land uses)	Asbestos Presence and Type	Synthetic Mineral Fibres (SMF)	Organic Fibres
TP01_0.9	NE	NE	NE	NE	NE	Zn	--	ND	ND	Yes
TP01_1.2	NE	NE	NE	NE	NE		--	--	--	--
TP02_0.1	NE	NE	NE	NE	NE	Zn	NE	--	--	--
TP02_0.9	NE	NE	NE	NE	NE	Zn	--	ND	ND	Yes
TP02_1.9	NE	NE	NE	NE	NE	NE	--	--	--	--
TP03 0.5	NE	NE	NE	NE	NE	NE	--	--	--	--
TP03_1.4	NE	NE	NE	NE	NE	NE	--	--	--	--
TP04_0.2	NE	NE	NE	NE	NE	NE	NE	--	--	--
TP04_1.0	NE	NE	NE	NE	NE	NE	--	--	--	--
TP04_2.0	NE	NE	NE	NE	NE	Cu, Zn	--	--	--	--
TP05_0.2	NE	NE	NE	NE	NE	Zn	PFOS	ND	ND	Yes
TP05_0.6	NE	NE	NE	NE	NE	Zn	--	--	--	--
TP05_1.0	NE	NE	NE	NE	NE	Zn	--	ND	ND	Yes
TP06_0.2	NE	NE	NE	NE	NE	NE	--	--	--	--
TP06_0.4	NE	NE	NE	NE	NE	NE	--	--	--	--
TP06_0.7	NE	NE	NE	NE	NE	NE	--	ND	ND	Yes
TP07_0.1	NE	NE	NE	NE	NE	Zn	--	--	--	--
TP07_0.5	NE	NE	NE	NE	NE	Zn	--	--	--	--
TP07_1.3	NE	NE	NE	NE	NE	Zn	--	--	--	--
TP08_0.1	NE	NE	NE	NE	NE	Zn	PFOS	--	--	--
TP08_0.4	NE	NE	NE	NE	NE	Cu, Zn	--	--	--	--

Sample ID / Depth (mbgl)	Human Health Criteria				Ecological Criteria			Presence of Asbestos and Other Fibres		
	ASC NEPM HIL / HSL D (vapour intrusion)	CRC CARE HSL D (vapour intrusion)	CRC CARE HSL D (direct contact)	CRC CARE HSL D (IMW)	ASC NEPM EIL/ESL Commercial / Industrial	ASC NEPM - EIL/ESL (areas of ecological significance)	PFAS NEMP - ecological indirect exposure (all land uses)	Asbestos Presence and Type	Synthetic Mineral Fibres (SMF)	Organic Fibres
TP08_1.2	NE	NE	NE	NE	NE	Zn	--	ND	ND	Yes
TP09_0.1	NE	NE	NE	NE	NE	Zn	NE	--	--	--
TP09_0.7	NE	NE	NE	NE	NE	Zn	PFOS	ND	ND	Yes
TP09_1.0	NE	NE	NE	NE	NE	NE	--	--	--	--
TP09_1.4	NE	NE	NE	NE	NE	Cu, Zn	--	--	--	--
TP10_0.2	Pb	NE	NE	NE	PB	Cu, Pb, Zn	--	--	--	--
TP10_0.5	Pb	NE	NE	NE	PB	Cu, Pb, Zn	--	--	--	--
TP10_1.1	NE	NE	NE	NE	NE	Pb, Zn	--	ND	ND	Yes
TP11_0.1	NE	NE	NE	NE	NE	Cu, Zn	--	--	--	--
TP11_0.4	NE	NE	NE	NE	NE	Zn	--	--	--	--
TP11_1.0	NE	NE	NE	NE	NE	Zn	--	ND	Yes	Yes
TP11_1.5	NE	NE	NE	NE	NE	Zn	--	--	--	--
TP12_0.2	NE	NE	NE	NE	NE	B(a)P	--	--	--	--
TP12_1.0	NE	NE	NE	NE	B(a)P	B(a)P	--	ND	ND	Yes
TP13_0.1	NE	NE	NE	NE	NE	Zn	NE	ND	ND	Yes
TP13_1.0	NE	NE	NE	NE	NE	As, Cu, Zn	--	--	--	--
TP13_1.4	NE	NE	NE	NE	NE	Zn	--	--	--	--

Notes:

NE – no exceedances reported in the sample.
ND – no asbestos or synthetic mineral fibres (SMF) detected.
BaP - benzo(a)pyrene
'--' not tested for that analyte / suite.
Green shaded cells – indicate exceedances of adopted ecological assessment criteria for the analyte(s) reported within the cell irrespective of soil type, texture and depth.
Blue shaded cells – indicate presence of fibres as reported within the cell.
Yellow shaded cells – indicate exceedance of human health criterion/criteria for the analyte(s) reported within the cell irrespective of soil type, texture and depth.

Table 9: Summary of Exceedances of the Adopted Criteria – Stockpiles

Sample ID / Depth (mbgl)	Human Health Criteria				Ecological Criteria			Presence of Asbestos and Other Fibres		
	ASC NEPM HIL / HSL D (vapour intrusion)	CRC CARE HSL D (vapour intrusion)	CRC CARE HSL D (direct contact)	CRC CARE HSL D (IMW)	ASC NEPM EIL/ESL Commercial / Industrial	ASC NEPM - EIL/ESL (areas of ecological significance)	PFAS NEMP - ecological indirect exposure (all land uses)	Asbestos Presence and Type	Synthetic Mineral Fibres (SMF)	Organic Fibres
SP01	NE	NE	NE	NE	NE	NE	NE	--	--	--
SP02	NE	NE	NE	NE	NE	NE	--	--	--	--
SP03	NE	NE	NE	NE	NE	Zn	--	--	--	--
SP04	NE	NE	NE	NE	NE	NE	--	--	--	--
SP05	NE	NE	NE	NE	NE	Cu, Pb, Zn	--	--	--	--
SP06	NE	NE	NE	NE	NE	NE	NE	ND	--	--
SP07	NE	NE	NE	NE	NE	Ni	--	--	--	--
SP08	NE	NE	NE	NE	BaP	BaP	--	--	--	--
SP09	NE	NE	NE	NE	NE	NE	--	--	--	--
SP10	NE	NE	NE	NE	NE	NE	NE	--	--	--
SP11	NE	NE	NE	NE	NE	NE	--	--	--	--
SP12	NE	NE	NE	NE	NE	NE	--	--	--	--
SP13	NE	NE	NE	NE	NE	NE	--	--	--	--
SP14	NE	NE	NE	NE	NE	NE	--	--	--	--
SP15	NE	NE	NE	NE	NE	NE	--	--	--	--
SP16	NE	NE	NE	NE	NE	NE	--	--	--	--
SP17	NE	NE	NE	NE	NE	NE	--	--	--	--
SP18	NE	NE	NE	NE	NE	NE	--	--	--	--
SP19	NE	NE	NE	NE	NE	NE	--	--	--	--
SP20	NE	NE	NE	NE	NE	NE	--	--	--	--
SP21	NE	NE	NE	NE	NE	NE	--	--	--	--

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Sample ID / Depth (mbgl)	Human Health Criteria				Ecological Criteria			Presence of Asbestos and Other Fibres		
	ASC NEPM HIL / HSL D (vapour intrusion)	CRC CARE HSL D (vapour intrusion)	CRC CARE HSL D (direct contact)	CRC CARE HSL D (IMW)	ASC NEPM EIL/ESL Commercial / Industrial	ASC NEPM - EIL/ESL (areas of ecological significance)	PFAS NEMP - ecological indirect exposure (all land uses)	Asbestos Presence and Type	Synthetic Mineral Fibres (SMF)	Organic Fibres
SP22	NE	NE	NE	NE	NE	NE	--	ND	ND	Yes
SP23	NE	NE	NE	NE	NE	NE	PFOS	--	--	--
SP24	NE	NE	NE	NE	NE	NE	--	--	--	--
SP25	NE	NE	NE	NE	NE	NE	--	--	--	--
SP26	NE	NE	NE	NE	NE	NE	--	--	--	--
SP27	NE	NE	NE	NE	NE	NE	--	ND	ND	Yes
SP28	NE	NE	NE	NE	NE	NE	NE	--	--	--
SP29	NE	NE	NE	NE	NE	NE	--	--	--	--
SP30	NE	NE	NE	NE	NE	NE	--	--	--	--
ACM1	NE	NE	NE	NE	NE	NE	--	ND	--	--
ACM2	NE	NE	NE	NE	NE	NE	--	Yes	--	--

Notes:

NE – no exceedances reported in the sample.
ND – no asbestos or synthetic mineral fibres (SMF) detected.
BaP - benzo(a)pyrene
'--' not tested for that analyte / suite.
Green shaded cells – indicate exceedances of adopted ecological assessment criteria for the analyte(s) reported within the cell irrespective of soil type, texture and depth.
Blue shaded cells – indicate presence of fibres as reported within the cell.
Yellow shaded cells – indicate exceedance of human health criterion/criteria for the analyte(s) reported within the cell irrespective of soil type, texture and depth.

6.1.2 Waste Classification of Soils / Fill Materials

A summary of exceedances of waste classification criteria of stockpiles is provided in the summary results tables (Appendix H). It provides an assessment of the waste classification of the soil fill materials stockpiled for reuse onsite either within the reclamation area or to build up the Site surface.

The results show that several of the stockpiles sampled would be classified as either Level 2 – low level contaminated soils or Level 3 – contaminated soils according to classification against IB105 criteria. Exceedances were reported in the following:

- Stockpiles classified as Level 2 low level contaminated soil:
  - Three stockpiles (SP03, SP05, SP07) reported Cu, Pb, Ni and/or Zn total concentrations in excess of IB105 Level 1 fill criteria
  - One stockpile (SP10) reported an exceedance for BaP IB105 Level 1 fill criterion
- Level 3 contaminated soil:
  - One stockpile (SP08) reported and exceedance of BaP IB105 Level 2 low level contaminated criterion; and
- Two stockpiles (SP10 and SP23) reported detectable PFAS concentrations.

These results are discussed further in Section 7.1.3.

7. Discussion

The following sections provide a discussion of the results summarised in Section 6.

In addition, findings from the QA/QC assessment are discussed in Section 7.3.

7.1 CoPCs in Solid / Fill Materials / Solids Remaining Onsite

7.1.1 Asbestos, Synthetic Mineral Fibres and Organic Fibres

Asbestos is a known carcinogen. Disturbing any amount of asbestos can release fibres into the air. These could be inhaled, which may lead to diseases such as asbestosis, lung cancer or mesothelioma in later years in the lungs and potentially other diseases or complications if swallowed. Selected soil samples from test pits and stockpiles from the Site were tested for presence and absence of asbestos fibres, generally when BDR was identified, where fibres were more likely to be present. Where tested, no asbestos was found in soils / fill materials at or above the LOR of 0.1 g/kg by polarised light microscopy including dispersion staining, as noted in Table 8 and Table 9. Three solid fragment grab samples were collected from the Site (two from the ground and one from stockpile SP22) which were considered potential ACM material. Sample ACM2, returned a positive asbestos result; this sample was found loose on the Site, near TP03. The fragment is likely to have come from previous BDR containing fill placed within the previously reclaimed area.

Synthetic mineral fibres (SMF) presence or absence has been reported for the same samples tested for asbestos fibres. From the samples tested, one test pit sample, TP11 at 1 m bgl detected the presence of SMF. A significant quantity of red bricks was observed within this test pit layer. The next deeper horizon in TP11, at 1.5 m bgl contained extensive BDR, including bricks, tiles, bitumen, metal fragments, wire, and concrete. SMF may have been from insulating materials or similar, related to the BDR materials.

Organic fibres generally do not pose risks to human health or the environment and are likely associated with vegetation rootlets. Organic fibres presence or absence has been reported for the same samples tested for asbestos fibres. All 13 samples tested reported the presence of organic fibres. The fibres are likely related to vegetation rootlets in soils intermixed with the BDR and other fill materials tested; they do not require any particular management other than erosion and sediment control, which is applicable to all earthworks.

7.1.2 Other CoPCs Within Existing Reclamation Soils (Test Pits)

Human Health Criteria (Commercial / Industrial)

The reported exceedances of the human health criterion (commercial / industrial land use setting) for lead were limited to one test pit (TP10) and occurred in the samples taken from the shallow profile (0.2 m bgl: 2040 mg/kg Pb, and 0.5 m bgl: 2220 mg/kg Pb) within the existing reclaimed area of the Site. The next deeper sample in TP10, taken at 1.1 m bgl, reported a relatively elevated concentration (655 mg/kg), but not in excess of the ASC NEPM human health HIL commercial / industrial criterion of 1,500 mg/kg Pb.

Shallow soils (0 – 1 m bgl) at, and around the location of TP10 should therefore be considered a risk to human health for both Site users and earthmoving contractors. The source of the contamination is likely to be from the imported fill used for the reclamation, since the contamination extends to 0.5 m bgl and beyond.

During previous land reclamation activities on the Property there was limited tracking / testing of imported fill. The isolated nature of this exceedance is consistent with the use of heterogeneous fill materials from multiple sources imported during the reclamation process, however it also highlights the fact that other similarly contaminated soils could be present anywhere within the previous reclamation area beneath and around the Site footprint.

Sample ACM2 was confirmed as asbestos containing. It was found near TP03 and likely associated with BDR previously used as fill in the pre-existing reclaimed area. As BDR was also detected within the new fill soils, it is very possible for ACM to also be present in imported soils which contain BDR.

Ecological Criteria (Commercial / Industrial)

Exceedances of commercial / industrial ecological criteria within the existing reclamation area included the following:

- Lead in TP10 at 0.2 m and 0.5 m bgl
- BaP in sample TP12_1.0 m bgl; and
- PFOS (ecological *indirect* exposure criterion, applicable to all land uses) in TP05_0.2, TP08_0.1 and TP09_0.7 m bgl.

All exceedances are at shallow depths, which are typically considered higher risk for ecological receptors. Ecological receptors within the Site are limited to seagulls, based on observations during the investigations; there is no vegetation onsite and wildlife use is expected to be very rare. There is however a risk of these soils being disturbed and eroding during the proposed construction and reclamation earthworks, particularly given the proximity to the River Derwent and more sensitive ecological receptors within the aquatic ecosystem.

These exceedances are assessed as presenting limited ecological risk during the proposed Site use, as most of the Site soils will be covered by a slab and exposure to terrestrial organisms will be limited. Groundwater permeating the reclamation is from the river and could potentially leach metals, BaP and PFOS, however, these are already ubiquitous in the immediate area of the Site and Property, due to existing industrial operations, and the contributions from the Site reclamation materials leaching into groundwater are expected to be negligible compared to contributions from other nearby industrial activities.

Ecological Criteria (Areas Of Ecological Significance)

Over 60% of test pit soil samples reported Zn concentrations in excess of adopted ecological (conservative ACL) criterion, with a number of samples also reporting Pb, Cu and one each of As and Ni exceedances of adopted ecological criteria. The Pb exceedances are the most significant as they also exceeded commercial / industrial Pb ecological criterion in TP10. In addition, BaP in TP12 and PFOS was reported in excess of ecological criteria, with BaP in TP12 (1 m bgl) also exceeding the commercial / industrial ecological criterion.

The areas of ecological significance criteria were adopted to assess the risk from soil eroding from Site and impacting on more sensitive aquatic and foreshore environments. Given the above, strict management of Site soils should be implemented during excavations for construction / underground services, etc, and during earthmoving reclamation works. Site soils are not considered suitable for use within the reclamation area, unless the are placed within a fully contained bunded pocket which will prevent any erosion into the waterway.

7.1.3 Other CoPCs Within Newly Imported Stockpiled Soils

Human Health Criteria (Commercial / Industrial)

None of the tested stockpile soil samples reported any exceedances of commercial / industrial human health criteria adopted for the Site and proposed earthworks.

Ecological Criteria (Commercial / Industrial)

The following tested stockpile soil samples reported exceedances of commercial / industrial ecological criteria adopted for the Site and proposed earthworks:

- BaP in SP08; and
- PFOS (ecological *indirect* exposure criterion, applicable to all land uses) in SP23.

It is understood that Incat has organised for these two stockpiles and others with similar materials, to be removed from Site[9].

Ecological Criteria (Areas of Ecological Significance)

A number of stockpiles reported exceedances of areas of ecological significance criteria, including: SP03, SP05, SP07, SP08 and SP23.

As noted above, SP08 and SP23 (and stockpiles with similar materials) are understood to have been removed from Site. In addition, SP03, SP05, SP07, and stockpiles of similar materials, are also understood to have been removed from Site.

7.1.4 Future Fill Material

As noted in Section 6.1.2, a number of sampled soil stockpiles reported concentrations which were either Level 2 or Level 3 per IB105, and a number of the samples reported detectable PFAS concentrations. A confirmed ACM piece was also sampled near TP03 likely associated with BDR which was previously used in the pre-existing reclamation. As BDR is also present in imported fill, there is a risk that ACM could be included in that fill.

As no EPA approval (Regulation 21) was provided by TasWater for reuse of Level 2 and Level 3 (controlled waste) soils onsite, it is understood that Incat is now in the process of removing these stockpiles and soil stockpiles of similar composition from Site.

It is also understood that Incat has requested that only tested and confirmed clean fill (i.e. Level 1 fill, per IB105) be brought to Site for reclamation and reuse within the Site surface area. Due to the presence of BDR in some stockpiles and the risk of ACM being associated with BDR and due to the detected PFAS in some stockpiles, the waste producer must test for all potential contaminants in the waste soils prior to classifying them under IB105. Incat has also requested detailed soil tracking for every load brought to the Site since around mid-February 2026.

No EPA approval is required for confirmed Level 1 fill material.

In the event that Level 2 or above waste soils are to be brought to Site, the waste producer must obtain a Regulation 21 approval from EPA for reuse of those soils specifically on the Incat Site and will need to provide this documentation to Incat, and all waste loads will need to be tracked from the correct source to the Incat Site. IB105 does not normally permit the reuse of soils classified as Level 3 or above, nor soils which contain asbestos or PFAS.

7.2 Summary of Identified Contamination

Analytical results (Section 6) and the associated discussion (Section 6.1.2 and 7.1) demonstrates that within the Site:

- **One** confirmed ACM fragment was identified at the Site surface and is likely to have come from pre-existing fill / BDR materials
- **One** confirmed sample for SMF was detected in pre-existing fill materials
- **One** test pit, TP02, had a hydrocarbon odour in soils / fill materials, but none of the TP02 samples reported any detectable hydrocarbons
- **No** elevated VOCs were detected in soils / fill materials samples (via field screening)
- Reported concentrations of CoPCs were **above** adopted **human health** for **Pb** in one test pit (TP10)
- Reported concentrations of CoPCs were sporadically **above** adopted commercial / industrial **ecological** criteria
- Reported concentrations of CoPCs were predominantly **above** adopted areas of **ecological** significance criteria (adopted to assess potential impacts from reclamation on sensitive aquatic receptors)

[9] Brett Gadd, Incat, emails of 4 and 5 March 2026

- Some solid wastes were noted within the profile and stockpiles, including bitumen, bricks, concrete rubble, plastic pipe, plastic, terracotta piping, bricks, scrap metals, embedded reinforcing bars in concrete; and
- In addition, although a number of newly-imported stockpiles reported concentrations above Level 2 or Level 3 IB105 waste soil classification, and exceeded adopted ecological criteria, it is understood that due to these results, Incat is in the process of removing these stockpiles and similar soils from Site and these are therefore not included in the risk assessment of this ESA.

7.3 Quality Control / Quality Assurance Assessment

Laboratory QA/QC reports are provided in Appendix G. A tabulated summary of the field QA/QC results is provided in Appendix H.

7.3.1 Field QA/QC Assessment

Field QA/QC results are summarised below:

- Samples for CoPC analysis were received by the laboratory at a temperature of less than 6 degrees Celsius (0.8, 1.3, 2.6 °C) (refer to ALS sample receipt notification, Appendix G)
- One trip blank was submitted with the soils batch, and all VOCs were reported below the laboratory LOR
- Triplicated samples results show that:
  - Metals concentrations are variable with both the interlaboratory and intralaboratory triplicated samples, this is expected to be due to the fill heterogeneity. The number of samples taken from both the stockpiles and test pits however, provided a sufficient dataset to characterise the expected ranges in metals concentrations across the Site area and within the imported fill stockpiles; and
  - Hydrocarbon concentrations were generally consistent between interlaboratory and intralaboratory triplicated samples.

7.3.2 Laboratory QA/QC Assessment

The laboratory quality interpretive report from ALS noted:

- No method blank value outliers occurred
- No laboratory control outliers occurred
- Duplicate outliers exist: the laboratory carried out internal duplication of several of the Incat soil samples, the RPDs exceeded their criteria for reported metals concentrations, confirming the very heterogeneous mix of the Site fill materials. Due to the number of samples taken, the spread of samples provide a good representation of the expected range of metal concentrations within the shallower profile of the Site
- Matrix spike outliers exist: the laboratory spiked a number of Incat soil samples with known metals concentrations. The reported concentrations (recoveries) were generally less than the laboratory objective and in some instances were higher than the laboratory recovery target. It is therefore possible that the metals concentrations reported in this ESA are under-reported (or over-reported) or this could be a reflection of the very heterogeneous nature of the fill
- No surrogate recovery outliers occurred
- No analysis holding time outliers occurred; and
- No quality control sample frequency outliers occurred.

7.3.3 QA/QC Conclusions

Based on the findings of the QA/QC assessment detailed in this section (and related appendices), it is considered that the analytical data are generally representative of the concentrations of tested CoPC at the specified locations at the time of sampling. Although some variation in reported concentrations of some CoPC between primary and secondary samples exists, particularly for metals, the reported concentrations of CoPCs are overall of acceptable quality for the purposes of this ESA as they characterise the range of metals concentrations across the Site.

8. Risk Assessment

8.1 Conceptual Site Model

A preliminary Conceptual Site Model (CSM) has been developed, to identify potentially significant source-pathway-receptor (SPR) linkages in relation to human health and the environment. Unacceptable risks from contamination may occur if the SPR linkage is complete.

8.1.1 Sources of Potential Contamination

Sources of potential contamination at the Site were documented in Section 4.1 and identified contamination was summarised in Section 7.2.

Sources

In summary, contamination sources for the Site are:

- Historical and recent placement of fill of unknown origins and composition across the whole Site
- Storage of materials, and use of hydrocarbon-fuelled mobile equipment
- Solid wastes and presence of BDR often associated with ACM
- The presence of river sediments beneath and adjacent to the Site footprint which are expected to be impacted by long term industrial emissions from adjacent industrial facilities – these have not being tested as part of this ESA
- The presence of acid sulfate soils beneath and adjacent to the Site footprint
- Historic and current adjacent industrial land uses which are known to have metals-contaminated air emissions; and
- River waters may also be contaminated from offsite sources and given the periodical tidal flooding of the Site and the ingress of tidal waters within the reclamation groundwater, contamination could be waterborne.

Identified Contamination

- **SMF** were detected in Site fill materials, associated with BDR
- One confirmed **ACM** fragment was identified at the Site surface and is likely to have come from pre-existing fill / BDR materials
- **Solid wastes** were noted within the test pit profiles and in numerous new stockpiles including bitumen, bricks, concrete rubble, plastic pipe, plastic, terracotta piping, bricks, scrap metals, embedded reinforcing bars in concrete, which pose an aesthetic and environmental risk in poorly managed reclamation works
- Isolated pockets of contamination in excess of **human health** criterion of lead at TP10 and potentially in other areas of the Site; and
- Metals concentrations including As, Cu, Pb, Ni, and Zn, as well as BaP and PFOS reported in excess of **ecological** criteria both commercial / industrial and areas of ecological significance criteria.

In addition, ASS and contaminated sediments are expected to be present within the footprint of the proposed reclamation area.

8.1.2 Potential Receptors

Potential receptors within, and in the vicinity of the Site, which may be exposed to identified CoPC include:

- Human receptors:
  - Current and future Site and Property users (general industrial)
  - Construction and excavation workers at the Site
- Ecological receptors:
  - Terrestrial fauna and existing flora in the vicinity of the Site – expected to be minimal; and
  - Aquatic ecosystem near the Site.

Any future development (other than the proposed development) should undergo a separate investigation and risk assessment. This CSM only considers the proposed Site use as a boat building yard, and specifically, only considers the proposed development described in Section 1.1.

Furthermore, the risk posed by ASS which may be present beneath, and in particular, adjacent to the Site on the riverbed, has not been assessed in the CSM. If more than 100 tonnes of ASS are to be disturbed by the reclamation works, an ASS investigation should be undertaken to assess whether ASS are present and therefore, whether an ASS Management Plan is required.

The contamination status of sediments adjacent to the Site and within the proposed reclamation footprint on the riverbed has not been assessed. However, these sediments are known to be impacted by heavy metals contamination. Dumping of materials for reclamation is likely to mobilise sediments into the water column and cause them to be transported further by the river waters.

8.1.3 Potential Exposure Pathways

Potential migration pathways through which receptors within, and in the vicinity of the Site, may be exposed to identified CoPC include:

- Human and biota contact with contaminated soils (if excavated and if allowed to erode into the waterway)
- Inhalation of loose soil particles impacted by Pb, other heavy metals, SMF or asbestos fibres; and
- Safety and aesthetic impacts from exposure to solid wastes (onsite, along the reclamation edge and on the riverbed).

Migration of contamination to groundwater has not been considered in the CSM. Most of the groundwater is from tidal influence from the adjacent river and the groundwater quality beneath the Site will be strongly influenced by the tidal waters. Minor leaching inputs from the reclamation fill contaminants is likely to be insignificant compared to inputs from adjacent industrial operations.

Refer to Section 3.1.4 for the Marine Ecological Assessment undertaken on the aquatic environment adjacent to the reclamation and within the proposed reclamation area (MS, 2026).

8.2 Risk Matrices

Potential human health and environmental risks have been assessed using the matrices outlined in Table 10, Table 11 and Table 12. The matrices have been developed by pitt&sherry based on the principles outlined in AS ISO 31000 *Risk Management – Guidelines*.

Table 10: Likelihood Ranking

Likelihood	Description
Almost Certain	Expected to happen
Likely	Expected to happen more than once per year
Possible	Expected to happen more than once or twice every five years
Unlikely	Expected to happen once or twice every ten years
Rare	Expected to happen once or twice every 100 years

Table 11: Consequence Ranking

Consequence	Description
Catastrophic	• One or more fatalities; and • and Significant impairment of ecosystem function.
Major	• Injury or illness that requires hospitalisation and/or results in permanent impairment (e.g. inhalation of asbestos fibres) • Major impairment of ecosystem function • Major impacts on soil, air or water that requires a large, coordinated clean-up; and • Offsite discharges / emissions with an impact that is long term.
Moderate	• Injury or illness that requires medical treatment and/or a temporary work restriction (e.g. direct contact with contaminants and/or acidic drainage water) • Moderate impacts on soil, air or water that requires coordinated clean-up; and • Offsite discharges / emissions with an impact that is short term.
Minor	• Direct contact with contaminants and/or acidic drainage water that requires medical treatment and/or a temporary work restriction • Minor impacts on soil, air or water that requires local clean-up; and • No offsite discharges / emissions.
Insignificant	• Injury or illness that requires no more than first aid treatment and no work restriction; and • Direct impacts on soil or water within immediate work area and immediately cleaned up with no residual contamination.

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Table 12: Risk Assessment Matrix

Consequence / Likelihood	Catastrophic	Major	Moderate	Minor	Insignificant
Almost Certain	Extreme	Extreme	Extreme	High	Medium
Likely	Extreme	Extreme	High	Medium	Medium
Possible	Extreme	High	Medium	Medium	Low
Unlikely	High	Medium	Medium	Low	Very Low
Rare	High	Medium	Low	Very low	Very Low

8.3 Source-Pathway-Receptor Linkages

The source-pathway-receptor (SPR) assessment evaluates the identified and potential sources, receptors and exposure pathways for contamination in light of the findings of intrusive investigations. Unacceptable risks from identified contamination may occur if the SPR linkage is complete.

SPR linkages for the various combinations are provided in Table 13, with shading as follows:

- Grey shading indicates the SPR linkage is incomplete or not applicable
- Green shading indicates the SPR linkage is potentially complete and low risk or can be managed (management measure noted in blue font)
- Yellow shading indicates the SPR linkage is potentially complete and medium risk and can be managed (management measure noted in blue font); and
- Blue font indicates a recommended management measure.

8.4 Remaining Data Gaps

The heterogeneous nature of soils / fill materials means that concentrations of CoPCs are likely to vary across adjacent sample locations (stockpiles and test pits) and depths. The following data gaps are noted with respect to the DQOs outlined in Table 6 (Section 5.3.1):

- Concentrations of CoPCs in test pit soils / fill materials at depths greater than 2.0 m bgl and beyond the locations and stockpiles tested are not known, and associated human health and ecological risks are not known. Screening and analytical results are limited to the locations, depths and media tested, at the time of sampling. The testing grid aimed to provide a statistically robust dataset which can provide reasonable certainty regarding the type and level of contamination that may be present within the Site and could be encountered within the shallower profile of the Site during excavation works
- Groundwater quality beneath the Site was not tested; as groundwater is expected to be from river water ingress into the reclamation fill, the water quality will be very similar to the river water quality
- Ambient concentrations of CoPCs in surface water are not known. However, surface water from the Site is expected to percolate through the soil surface within the Site or in close proximity to the Site and would discharge directly to the adjacent River Derwent; and
- No ASS investigation or sediment sampling was completed within the riverbed.

In addition, the limitations listed in Section 1.5 and the general limitations and qualifications listed at the end of this ESA, in the section titled *Important information about your report* should be noted.

8.5 Risk Evaluation and Proposed Management Measures

Based on Table 14, and noting the limitations of this ESA described above, and the remaining data gaps in Section 8.4, the CSM has identified a number of complete SPR linkages. The risk to human health (including workers during potential future excavation works) and ecological receptors (terrestrial and aquatic) at and near the Site under the proposed commercial / industrial boat building use is considered to include mostly **low and medium risks.**

The identified low and medium risks to Site users (under the proposed development arrangements), construction workers for the proposed development and reclamation, ongoing maintenance workers who may need to access service trenches, or periodically carry out excavations, and sensitive ecological receptors on- and adjacent to the Site are to be managed by:

- Excavation, reclamation and construction works related to the Site area and Site development, must be managed under a Construction Environmental Management Plan (CEMP) which must include measures for:
  - Nominating a responsible person to oversee the proper implementation of the CEMP in order to minimise the identified risks to human health and the environment (Table 13)
  - Advising construction and reclamation **workers** of the following and ensuring appropriate work health and safety measures are put in place:
    - A confirmed asbestos fragment was present on the surface of the Site which is expected to have come from pre-existing fill beneath the Site associated with BDR (building demolition rubble)
    - SMF were found in the Site soils (also associated with BDR)
    - An elevated Pb concentration was detected in shallow soils (0-1 m bgl) in and around TP10 and could occur elsewhere in Site soils
    - CoPC concentrations in the Site soils and the new fill exceed ecological criteria and must be handled in accordance with the CEMP
    - Other contamination could be encountered and may require additional management
  - Any **fill** brought to Site (for reclamation or to raise surface levels, etc.) must either be certified clean fill, or fill approved for reuse on *this* Site by the EPA. Confirmation documents and fill transport tracking should be obtained to ensure the fill received is acceptable from a contamination perspective
  - **Debris** such as plastics, scrap steel, cement sheeting, plastic piping, and other demolition materials unsuitable for reclamation, such as vegetation and wood, should be removed from the imported fill before the fill is used in the new reclamation area; dispose of these wastes to landfill or prevent them from being brought to Site
  - **Dust** management must be put in place at all times to prevent soils and any potential asbestos- or SMF fibres from becoming airborne
  - **Effective erosion** and sediment runoff controls including stockpile management and containment must be put in place to **prevent erosion** into the river
  - The entire new reclamation footprint is expected to be underlain by **ASS** (acid sulfate soils). If more than 100 t of ASS are likely to be disturbed during the reclamation works, an ASS assessment should be undertaken, and an ASS Management Plan should be developed to address the risk and minimise environmental impacts
  - **Reclamation works** must be undertaken in a manner that (these have adopted and have expanded on the Marine Solutions (2026) Mitigation Methods outlined in their report's Table 1):
    - Implements a slow start up of construction works to avoid causing unnecessary shock to aquatic animals and to allow them to vacate the area (Marine Solutions, 2026)
    - Implements marine mammal monitoring prior to and during any construction activities that create noise intrusion (e.g. sheet piling, and pier piling, as well as reclamation) by a trained Marine Mammal Observer as per the *Underwater Piling and Dredging Noise Guidelines* (2023) (Marine Solutions, 2026)

        - Avoids using solid wastes such as plastic and scrap steel, etc. which breakdown and pose safety and contamination risks
        - Minimises generation of silt plumes from materials dumped into the river's edge
        - Ensures any solid wastes used are fully and deeply buried in the reclamation to prevent safety and environmental risks
        - Minimises impacts on riverbed sediments which are expected to be contaminated and likely ASS, and avoid these sediments becoming waterborne or mobilising beyond the reclamation footprint. If an ASS Management Plan has been developed (as mentioned above), it must be implemented
        - Avoids discharging any solid wastes and soils beyond the proposed reclamation footprint, and avoids littering the riverbed
        - Contains all reclamation materials to within the reclamation footprint with the use of containment strategies such as rock bunding, silt curtains and/or other best practice reclamation methods
        - The whole reclamation edge must be covered effectively to prevent erosion of fines over time and must include armour rock to prevent wave erosion. The edge treatment should be extended for the full length of the proposed new wharf
    - Dealing with any encountered pockets of contamination, which may include stop works, communicate with Site supervisor, and involvement of an experienced contaminated land professional if necessary to assist with management measures
    - Sheet piling and wharf piling works should be undertaken with similar precautions to the reclamation works, outlined above
    - Any soils excavated, extruded or otherwise generated during the construction works of the slab/shed, wharf and underground services, etc. must either be buried onsite, or placed in a controlled manner within the reclamation, as detailed above. If any Site soils are to be taken offsite, they must be tested for offsite disposal in accordance with IB105; any soils which are Level 2 or above are controlled wastes and require EPA approval for disposal to landfill. None of the onsite soils are permitted for reuse on any other property without testing and prior EPA approval
    - On completion of construction works, the Site surface areas should be checked for any potential ACM fragments which should be removed from the Site surface. The roadway and all unsealed areas around the Site must be covered by blue metal gravel or similar to prevent access to soils by Site users and fauna, and to prevent erosion and dust generation from Site soils; this will also improve trafficability
- **Any future earthworks or underground maintenance works on Site** must consider the presence of the following in the Site fill soils and advice workers to take effective work health and safety precautions:
    - Potential presence of asbestos materials and fibres
    - Potential presence of (SMF) synthetic mineral fibres
    - Potential presence of pockets of elevated metals contamination e.g. lead, in excess of commercial/industrial criteria
    - Potential presence of solid wastes such as rusted scrap metal and other hazardous angular materials
    - Any excavated soils must be placed back into the Site profile, or must be tested for offsite disposal in accordance with IB105; any soils which are Level 2 or above are controlled wastes and require EPA approval for disposal to landfill. None of the onsite soils within the existing reclamation are permitted for reuse on any other property without testing and prior EPA approval; and
    - Excavated soils must be contained to prevent dust generation and erosion and must not be allowed to discharge to the river.

Table 13: Source-Pathway-Receptor Linkages, Risk Assessment and Recommended Management

Source	Human Receptors		Ecological Receptors	
	Current And Future Site and Property Users (Industrial)	Construction And Excavation Workers at the Site	Terrestrial Fauna and Existing Flora In The Vicinity of the Site (Likely Minimal)	Aquatic Ecosystem Near the Site
SMF were detected in Site fill materials, associated with BDR	SMF could become airborne and inhaled if excavated Site users as part of Incat's operation will not come into contact with soils and SMF as the new shed will be on a slab and the roadway will be covered by blue metal gravel or similar for trafficability	SMF could become airborne and inhaled if excavated Excavation works within the Site and adjacent Property area for the proposed new shed and wharf development must be completed under a CEMP which must address avoidance of dust generation and soil erosion	SMF could become airborne and inhaled by avifauna if excavated; other fauna are unlikely to use the Site Excavation works within the Site and adjacent Property area for the proposed new shed and wharf development must be completed under a CEMP which must address avoidance of dust generation and soil erosion	SMF will not impact on the adjacent aquatic ecosystems
One asbestos fragment was detected within the fill onsite (it is not clear if it was from the old or the new fill)	Asbestos fibres could become airborne and inhaled if excavated Site users as part of Incat's operation will not come into contact with soils and ACM as the new shed and wharf will be on a slab and the roadway will be covered by blue metal gravel or similar for trafficability	Asbestos fibres could become airborne and inhaled if excavated Excavation works within the Site and adjacent Property area for the proposed new shed and wharf development must be completed under a CEMP which must address avoidance of dust generation and soil erosion, as well as potential to encounter ACM and other contaminants	Asbestos fibres could become airborne and inhaled by avifauna if excavated; other fauna are unlikely to use the Site Excavation works within the Site and adjacent Property area for the proposed new shed and wharf development must be completed under a CEMP which must address avoidance of dust generation and soil erosion, as well as potential to encounter ACM and other contaminants	ACM will not impact on the adjacent aquatic ecosystem

Source	Human Receptors		Ecological Receptors	
	Current And Future Site and Property Users (Industrial)	Construction And Excavation Workers at the Site	Terrestrial Fauna and Existing Flora In The Vicinity of the Site (Likely Minimal)	Aquatic Ecosystem Near the Site
Solid wastes were noted within the test pit profiles and in numerous new stockpiles including bitumen, bricks, concrete rubble, plastic pipe, plastic, terracotta piping, bricks, scrap metals, embedded reinforcing bars in concrete, which pose an aesthetic and environmental risk in poorly managed reclamation works	Site users will not come into contact with solid wastes as the reclamation and construction works will ensure any solid wastes are buried in the reclamation, the new shed and wharf will have a slab and roadways will be covered with blue metal gravel or similar for trafficability	Construction and excavation workers during development and maintenance works may come into contact with solid wastes within the reclamation and the fill material brought to Site for the new areas of reclamation. Construction and reclamation works should be completed under a CEMP which should outline how solid wastes should be handled, either by offsite disposal, or effectively buried to prevent safety or aesthetic impacts.	Solid wastes, in particular plastics, scrap steel and other sharp or contaminating wastes pose a risk to any fauna using the Site, if left exposed at the soil surface. Construction and reclamation works should be completed under a CEMP which should outline how solid wastes should be handled, either by offsite disposal, or effectively buried to prevent safety or aesthetic impacts	Solid wastes, in particular plastics, scrap steel and other sharp or contaminating wastes pose a risk to the aquatic ecosystem (leaching of plastic/micro plastics and oxidising steel) and aquatic fauna (swallowing, injury, etc.) if left exposed along the reclamation edge or if they breakdown over time and leach/shed into the aquatic ecosystem. Construction and reclamation works should be completed under a CEMP which should outline how solid wastes should be handled, either by offsite disposal, or effectively buried to prevent safety or aesthetic impacts; reclamation must be undertaken to prevent solid wastes from being deposited beyond the actual reclamation footprint to avoid littering the riverbed

Source	Human Receptors		Ecological Receptors	
	Current And Future Site and Property Users (Industrial)	Construction And Excavation Workers at the Site	Terrestrial Fauna and Existing Flora In The Vicinity of the Site (Likely Minimal)	Aquatic Ecosystem Near the Site
Isolated pockets of contamination in excess of human health criterion of lead at TP10 and potentially in other areas of the Site	Site users as part of Incat's operation will not come into contact with soils as the new shed and wharf will be on a slab and the roadway will be covered by blue metal gravel or similar for trafficability	Pb concentrations at and around TP10 between 0 and 1 m bgl exceeded human health commercial / industrial criteria. Construction and reclamation works should be completed under a CEMP which should ensure excavated soils are contained to prevent them becoming airborne or eroding and to prevent human contact	Refer to next row which addresses impacts to terrestrial ecological receptors	Refer to next row which addresses impacts to aquatic ecological receptors
Metals concentrations including As, Cu, Pb, Ni, and Zn, as well as BaP and PFOS reported in excess of ecological criteria both commercial / industrial and areas of ecological significance criteria.	Other than Pb discussed above, none of the other reported CoPCs exceeded human health criteria for Site use.	There is a risk that excavated soils from the existing reclamation or new fill soils impacted by CoPCs in excess of ecological criteria could impact on the receiving aquatic ecosystem. Construction and reclamation works should be completed under a CEMP which should ensure excavated soils are contained to prevent them becoming airborne or eroding and any soils being used for reclamation must be contained to prevent silt plumes.	Birds or other occasional fauna will not come into contact with Site soils as the new shed and wharf will be on a slab and the roadway will be covered by blue metal gravel or similar for trafficability. Construction and reclamation works should be completed under a CEMP which should ensure excavated soils are contained to prevent them becoming airborne or eroding and any soils being used for reclamation must be contained to prevent silt plumes.	There is a risk that excavated soils during construction and dumped soils during reclamation, will create a silt plume in the aquatic system and could cause contaminated soils to migrate into the aquatic ecosystem since some CoPC concentrations exceed ecological criteria for both commercial / industrial and areas of ecological significance. Construction and reclamation works should be completed under a CEMP which should ensure excavated soils are contained to prevent them becoming airborne or eroding and any soils being used for reclamation must be contained to prevent silt plumes.

Source	Human Receptors		Ecological Receptors	
	Current And Future Site and Property Users (Industrial)	Construction And Excavation Workers at the Site	Terrestrial Fauna and Existing Flora In The Vicinity of the Site (Likely Minimal)	Aquatic Ecosystem Near the Site
The presence of acid sulfate soils beneath and adjacent to the Site footprint.	Site users under Incat's operation will not come into contact with ASS.	There is a risk of disturbing ASS during the dumping of materials to construct the reclamation. If more than 100 t of ASS are likely to be disturbed an ASS assessment and ASS management plan should be developed to address the risk.	Not applicable to terrestrial fauna as not ASS will be brought to surface.	There is a risk of disturbing ASS during the dumping of materials to construct the reclamation. Disturbed ASS generate acidity which can impact on water quality. If more than 100 t of ASS are likely to be disturbed an ASS assessment and ASS management plan should be developed to address the risk.
The presence of contaminated sediments adjacent to the Site footprint	Site users under Incat's operation will not come into contact with river sediments	There is a risk of disturbing and mobilising contaminated river sediments from the riverbed during the dumping of materials to construct the reclamation. The reclamation works should be managed under a CEMP which must outline best practice methods to minimise sediment disturbance and mobilisation and measures to contain and prevent offsite dispersal of any mobilised (potentially contaminated) sediments.	Not applicable to terrestrial fauna as not riverbed sediments will be brought to surface	There is a risk of disturbing and mobilising contaminated river sediments from the riverbed during the dumping of materials to construct the reclamation. The reclamation works should be managed under a CEMP which must outline best practice methods to minimise sediment disturbance and mobilisation and measures to contain and prevent offsite dispersal of any mobilised (potentially contaminated) sediments.

9. Conclusions and Recommendations

9.1 Conclusions

Based on the findings of this SHR and noting the limitations in Section 1.5 and the remaining data gaps in Section 8.4, the conclusions are as follows:

- A number of on- and offsite PCAs have been identified with potential to have impacted the Site, including:
  - River waters may also be contaminated from offsite sources and given the periodical tidal flooding of the Site and the ingress of tidal waters within the reclamation groundwater, contamination could be waterborne.
  - Importation and placement of stockpiles of fill materials which from TasWater for which the source location and associated testing records are not clearly identifiable for each stockpile
  - Historical placement of fill of unknown origins and composition across the whole Site footprint for past reclamation
  - Solid wastes and presence of BDR often associated with ACM
  - Historical presence and operation of adjacent land users (Nyrstar, Impact Fertiliser) and upstream Derwent Barracks (firefighting foams - PFAS)
  - Storage of materials, shipping containers, etc. within the Site footprint, including the movement of mobile plant including hydrocarbon-fuelled equipment
  - The presence of river sediments beneath and adjacent to the Site footprint likely impacted by long term industrial emissions from adjacent industrial facilities
  - The presence of ASS (acid sulfate soils) beneath and adjacent to the Site footprint; the latter will be disturbed by reclamation, sheet piling and pile driving for the new wharf
- 13 test pits were excavated to a maximum depth of 2.0 m bgl and 30 stockpile samples were taken to provide representative coverage of those present at the time of sampling
- The investigations identified:
  - Solid wastes and BDR were found through many of the test pit profiles and a number of stockpiles, including bitumen, bricks, concrete rubble, plastic pipe, plastic, terracotta piping, bricks, scrap metals, embedded reinforcing bars in concrete, which pose an aesthetic and environmental risk in poorly managed reclamation works
  - A confirmed asbestos fragment was present on the surface of the Site which is expected to have come from pre-existing fill beneath the Site associated with BDR (building demolition rubble)
  - SMF were found in the Site soils (also associated with BDR)
  - One test pit reported a possible hydrocarbon or similar odour in fill material at between 1.2 and 1.9 m bgl (TP02), but no hydrocarbons were detected in that sample
  - No elevated VOCs were detected in test pits (via field screening); this was confirmed by the laboratory results
  - Reported concentrations of **lead** were above adopted human health (commercial / industrial setting) in one test pit (TP10 between 0 – 1.0 m bgl)
  - Reported concentrations of many metals (zinc, copper, lead, nickel and arsenic) were reported above adopted ecological criteria in a large number of test pit and stockpile samples (some for commercial / industrial criteria and many for areas of ecological significance criteria)
- Given the Site profile includes BDR (building demolition rubble which is often associated with ACM and SMF) and given the imported stockpiles also comprise BDR, the potential remains for ACM fragments and SMF, as well as other contaminants (including lead), to be present within all soils onsite; and

- Based on the proposed development and reclamation works and on the proposed Site use, the risks to human and ecological receptors have been assessed to include some **medium risks** and some **low risks**, for which appropriate mitigation measures must be put in place as detailed in Section 8.5 and reiterated in the Recommendations (Section 9.2).

Description of the Fill Material Quantity, Source and Composition Analysis

pitt&sherry was only able to inspect and sample fill soils that were present at the time of sampling, as new reclamation had already been undertaken with an unknown volume or quality of fill materials. Similarly, fill soils were actively carted and stockpiled onsite during pitt&sherry's sampling. Stockpiled fill soils comprised a range of materials including naturally derived: sands, silts, clays, rock, as well as solid wastes including small and large concrete pieces, bitumen pieces, plastic piping, plastic materials and mesh, scrap steel, partly concrete-embedded reinforced steel bars, bricks, timber, soil and vegetation/wood.

Imported fill soils test results are summarised in Section 7.1.3. It was noted that a number of stockpiles would be classified as Level 2 or Level 3 waste soils in accordance with IB105 (due to metals or benzo(a)pyrene concentrations). PFAS were also detected in some of the samples, and confirmed asbestos was detected in a fragment adjacent to the stockpiles (we could not confirm however if this fragment was from pre-existing disturbed fill, or from newly imported fill).

The source of the fill is from a range of properties which are undergoing works by TasWater as part of the Selfs Point Rising Main works in the sewerage rising main alignment. The risk of contamination from 'Section 2' of the alignment (Elgin, 2024) was deemed to be low. It is understood that TasWater has been carrying out contamination testing on some of the soils, however, reconciliation of the test results against imported soil loads could not be completed.

As no EPA approval (Regulation 21) was provided by TasWater for reuse of Level 2 and Level 3 (controlled waste) soils onsite, it is understood that Incat is now in the process of removing these stockpiles and soil stockpiles of similar composition from Site.

It is also understood that Incat has requested that only tested and confirmed clean fill (i.e. Level 1 fill, per IB105) be brought to Site for reclamation and reuse within the Site surface area. Due to the presence of BDR in some stockpiles and the risk of ACM being associated with BDR and due to the detected PFAS in some stockpiles, the waste producer must test for all potential contaminants in the waste soils prior to classifying them under IB105. Incat has also requested detailed soil tracking for every load brought to the Site since around mid-February 2026.

No EPA approval is required for confirmed Level 1 fill material.

In the event that Level 2 or above waste soils are to be brought to Site, the waste producer must obtain a Regulation 21 approval from EPA for reuse of those soils specifically on the Incat Site and will need to provide this documentation to Incat, and all waste loads will need to be tracked from the correct source to the Incat Site. IB105 does not normally permit the reuse of soils classified as Level 3 or above, nor soils which contain asbestos or PFAS.

The estimated volume of new reclamation fill material required to accommodate the Site footprint for the proposed shed development is approximately 5740 m^3 (based on information from D.Gray on 19 March 2026, obtained from JMG plans)

Statement

In response to the PCLC objectives (Section 1.2.1), the proposed development of the Site as a new boat building shed and wharf, and associated reclamation within commercial / industrial and port / marine zonings (Figure 2, Appendix A) complies with:

- P1 (c) of C14.6.1 Performance Criteria – Excavation for the following reasons:
  - This ESA demonstrates that other than at one location (TP10 0 – 1 m bgl), all other soil results were within adopted human health criteria (commercial / industrial land use). This area will be covered by a concrete slab during Site use, and construction and reclamation works must be managed in accordance with a CEMP (refer to Section 9.2)
  - This ESA has identified exceedances of ecological criteria (both commercial / industrial and areas of ecological significance setting) which do not pose a risk under the proposed Site use or construction and

reclamation works as long as the works are managed in accordance with a CEMP, and the unsealed Site surface is capped on completion of construction (refer to Section 9.2)

- This ESA includes recommended protection measures (i.e. a CEMP - refer to Section 9.2), which must be developed before excavation and reclamation commences, and must be implemented for the duration of excavation and reclamation works; and
- If the recommended protection measures outlined in Section 9.2 are implemented, excavation and reclamation works will not adversely impact on human health or the environment (including the Derwent Estuary).

9.2 Recommendations

Based on the findings of this ESA, **identified low and medium risks** to Site users (under the proposed development arrangements), construction workers for the proposed development and reclamation, ongoing maintenance workers who may need to access service trenches, or periodically carry out excavations, and sensitive ecological receptors on- and adjacent to the Site are to be managed by:

- Excavation, reclamation and construction works related to the Site area and Site development, must be managed under a Construction Environmental Management Plan (CEMP) which must include measures for:
  - Nominating a responsible person to oversee the proper implementation of the CEMP in order to minimise the identified risks to human health and the environment (Table 13)
  - Advising construction and reclamation **workers** of the following and ensuring appropriate work health and safety measures are put in place:
    - A confirmed asbestos fragment was present on the surface of the Site which is expected to have come from pre-existing fill beneath the Site associated with BDR (building demolition rubble)
    - SMF were found in the Site soils (also associated with BDR)
    - An elevated Pb concentration was detected in shallow soils (0-1 m bgl) in and around TP10 and could occur elsewhere in Site soils
    - CoPC concentrations in the Site soils and the new fill exceed ecological criteria and must be handled in accordance with the CEMP
    - Other contamination could be encountered and may require additional management
  - Any **fill** brought to Site (for reclamation or to raise surface levels, etc.) must either be certified clean fill, or fill approved for reuse on *this* Site by the EPA. Confirmation documents and fill transport tracking should be obtained to ensure the fill received is acceptable from a contamination perspective
  - **Debris** such as plastics, scrap steel, cement sheeting, plastic piping, and other demolition materials unsuitable for reclamation, such as vegetation and wood, should be removed from the imported fill before the fill is used in the new reclamation area; dispose of these wastes to landfill or prevent them from being brought to Site
  - **Dust** management must be put in place at all times to prevent soils and any potential asbestos- or SMF fibres from becoming airborne
  - **Effective erosion** and sediment runoff controls including stockpile management and containment must be put in place to **prevent erosion** into the river
  - The entire new reclamation footprint is expected to be underlain by **ASS** (acid sulfate soils). If more than 100 t of ASS are likely to be disturbed during the reclamation works, an ASS assessment should be undertaken, and an ASS Management Plan should be developed to address the risk and minimise environmental impacts
  - **Reclamation works** must be undertaken in a manner that (these have adopted and have expanded on the Marine Solutions (2026) Mitigation Methods outlined in their report's Table 1):

    - Implements a slow start up of construction works to avoid causing unnecessary shock to aquatic animals and to allow them to vacate the area (Marine Solutions, 2026)
    - Implements marine mammal monitoring prior to and during any construction activities that create noise intrusion (e.g. sheet piling, and pier piling, as well as reclamation) by a trained Marine Mammal Observer as per the *Underwater Piling and Dredging Noise Guidelines* (2023) (Marine Solutions, 2026)
    - Avoids using solid wastes such as plastic and scrap steel, etc. which breakdown and pose safety and contamination risks
    - Minimises generation of silt plumes from materials dumped into the river's edge
    - Ensures any solid wastes used are fully and deeply buried in the reclamation to prevent safety and environmental risks
    - Minimises impacts on riverbed sediments which are expected to be contaminated and likely ASS, and avoid these sediments becoming waterborne or mobilising beyond the reclamation footprint. If an ASS Management Plan has been developed (as mentioned above), it must be implemented
    - Avoids discharging any solid wastes and soils beyond the proposed reclamation footprint, and avoids littering the riverbed
    - Contains all reclamation materials to within the reclamation footprint with the use of containment strategies such as rock bunding, silt curtains and/or other best practice reclamation methods
    - The whole reclamation edge must be covered effectively to prevent erosion of fines over time and must include armour rock to prevent wave erosion. The edge treatment should be extended for the full length of the proposed new wharf
  - Dealing with any encountered pockets of contamination, which may include stop works, communicate with Site supervisor, and involvement of an experienced contaminated land professional if necessary to assist with management measures
  - Sheet piling and wharf piling works should be undertaken with similar precautions to the reclamation works, outlined above
  - Any soils excavated, extruded or otherwise generated during the construction works of the slab/shed, wharf and underground services, etc. must either be buried onsite, or placed in a controlled manner within the reclamation, as detailed above. If any Site soils are to be taken offsite, they must be tested for offsite disposal in accordance with IB105; any soils which are Level 2 or above are controlled wastes and require EPA approval for disposal to landfill. None of the onsite soils are permitted for reuse on any other property without testing and prior EPA approval; and
  - On completion of construction works, the Site surface areas should be checked for any potential ACM fragments which should be removed from the Site surface. The roadway and all unsealed areas around the Site must be covered by blue metal gravel or similar to prevent access to soils by Site users and fauna, and to prevent erosion and dust generation from Site soils; this will also improve trafficability.
- **Any future earthworks or underground maintenance works on Site** must consider the presence of the following in the Site fill soils and advice workers to take effective work health and safety precautions:
  - Potential presence of asbestos materials and fibres
  - Potential presence of (SMF) synthetic mineral fibres
  - Potential presence of pockets of elevated metals contamination e.g. lead, in excess of commercial/industrial criteria
  - Potential presence of solid wastes such as rusted scrap metal and other hazardous angular materials
  - Any excavated soils must be placed back into the Site profile, or must be tested for offsite disposal in accordance with IB105; any soils which are Level 2 or above are controlled wastes and require EPA approval for disposal to landfill. None of the onsite soils are permitted for reuse on any other property without testing and prior EPA approval; and
  - Excavated soils must be contained to prevent dust generation and erosion and must not be allowed to discharge to the river.

10. References

Australia Standard (AS) 4482.1—2005: Guide to the investigation and sampling of sites with potentially contaminated soil – Part 1: Non-volatile and semi-volatile compounds.

Australia Standard (AS) 4482.2—1999: Guide to the sampling and analysis of contaminated soils – Part 2: Volatile substances.

Department for Infrastructure and Transport, South Australia (DIT) (2023). *Underwater Piling and Dredging Noise Guidelines.* First published 2012. First update 2023.

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Environmental Management and Pollution Control Act 1994.

Friebel, E., & Nadebaum, P.*Technical Report No. 10 Health Screening Levels for Petroleum Hydrocarbons in Soil and Groundwater.* September 2011, including errata August 2012.

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Gray Planning. *Town Planning compliance advice reproposed New Shed for existing Ship Building use, Signage and associated development including fill (reclamation).* 11 December 2025.

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Land Information System Tasmania interactive mapping tool.

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Tasmanian Planning Scheme – Glenorchy (the Scheme).

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In some circumstances the scope of services may have been limited by a range of factors such as time, budget, access and/or site disturbance constraints. The Report may only be used and relied on by the Client for the purpose set out in the Report. Any use which a third party makes of this document, or any reliance on or decisions to be made based on it, is the responsibility of the Client or such third parties.

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pitt&sherry does not accept responsibility arising from, or in connection with, any change to the Site conditions. pitt&sherry is also not responsible for updating the Report if the Site conditions change.

Figures

Appendix A

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INCAT ESA

Figure 1: Property Location

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N

0 100 200 300
Metres

Scale: 1:3,000 @A3

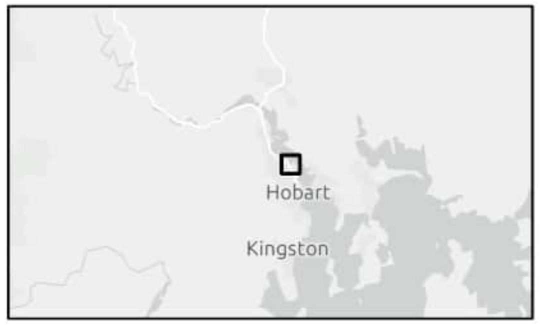
Coordinate System: GDA2020 MGA Zone 55

MAP REF: P.26.0075
AUTHOR: HF
REV: C
DATE: 13/03/2026
DATA SOURCES: Aerial imagery from ESRI, Data from Spatial Services, State of NSW, Project Specific Data

LEGEND

Name
- INCAT
- Impact Fertilisers Australia
- Nyrstar
- PFD Food Services

- Cadastral Parcels
- Property
- General Industrial
- Port and Marine
- Utilities



INCAT ESA

Figure 2:
Proposed Development Footprint

N

0 25 50 75 100
Metres
Scale: 1:2,500 @A3

Coordinate System: GDA2020 MGA Zone 55

MAP REF: P.26.0075
AUTHOR: HF
REV: C
DATE: 13/03/2026
DATA SOURCES: Aerial imagery from ESRI, Data from Spatial Services, State of NSW, Project Specific Data

LEGEND

- Site Outline (approximate)
- Facility
  - New Shed Structure
  - New Wet Dock
  - New Wharf Structure
- Property
- Cadastral Parcels

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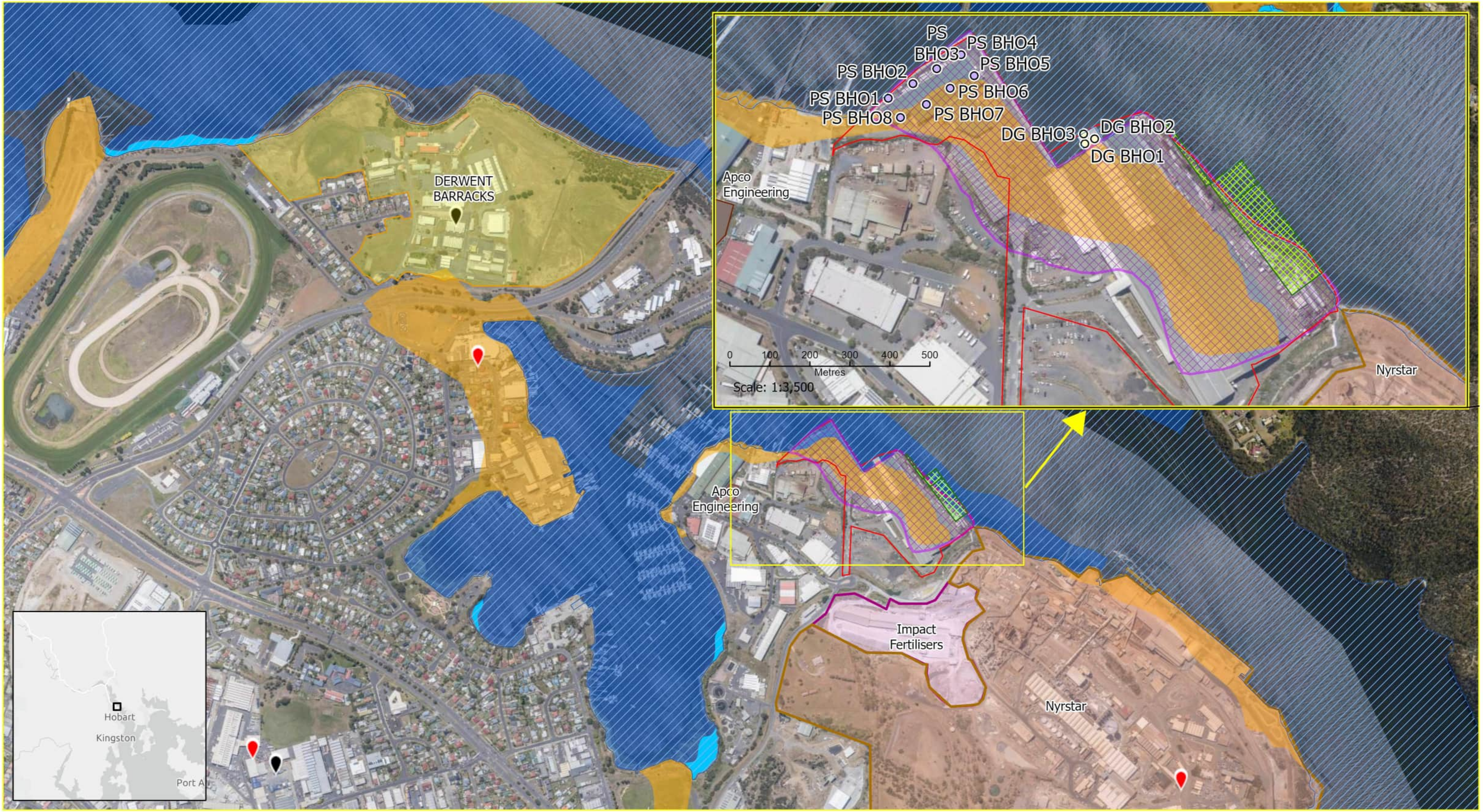

N

0 100 200 300 400
Metres

Scale: 1:9,000 @A3

Coordinate System: GDA2020 MGA Zone 55

INCAT ESA

Figure 3:
Potentially Contaminating Activities

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MAP REF: P.26.0075
AUTHOR: HF
REV: A
DATE: 13/03/2026
DATA SOURCES: Aerial imagery from ESRI, Data from Spatial Services, State of NSW, Project Specific Data

LEGEND

Property
- Property

Site Outline (approximate)
- Site Outline (approximate)

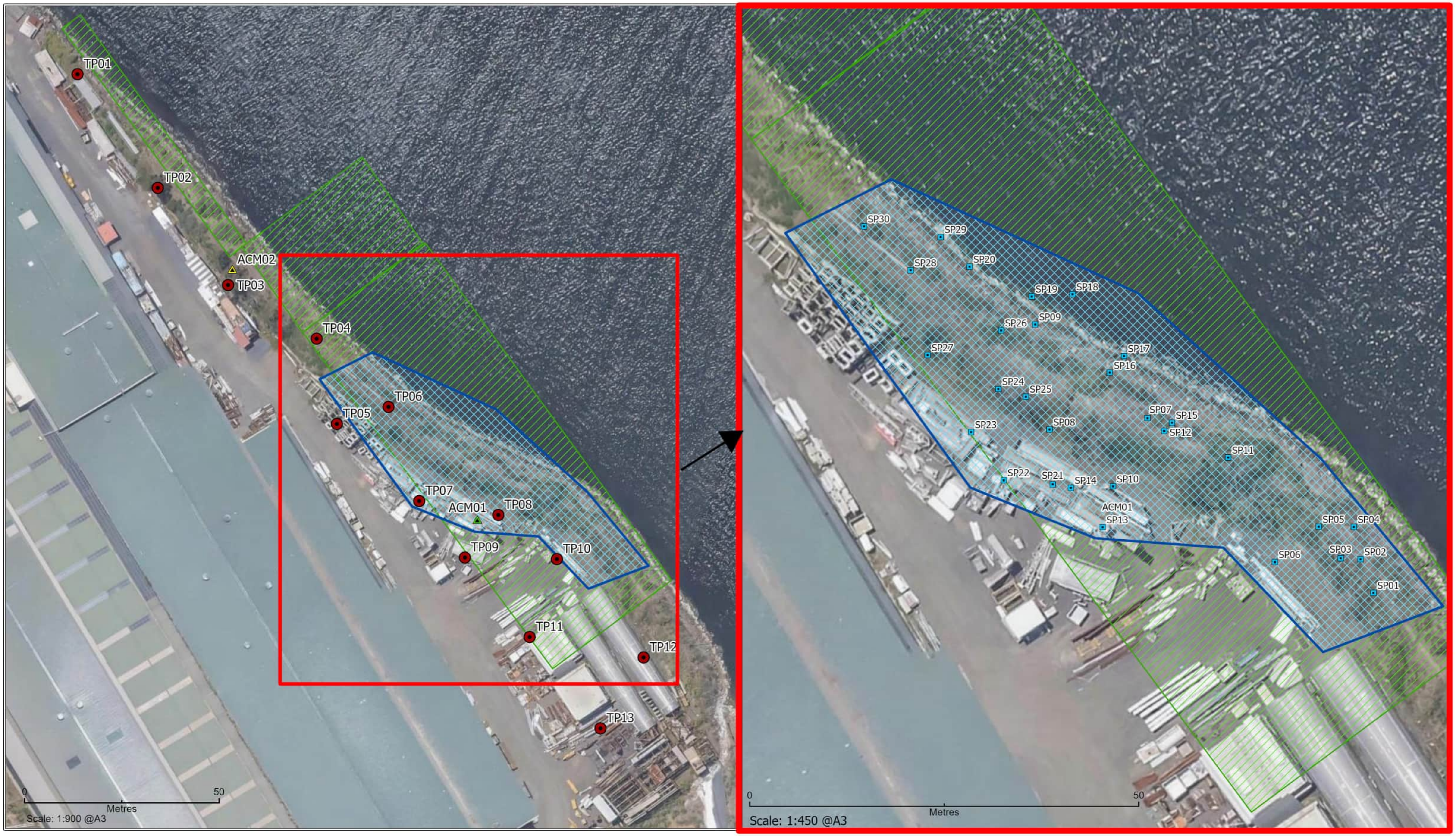
Coastal Acid Sulfate Soils [0 - 20m AHD]
- Low
- High (Intertidal)
- High (Subtidal)

Regulated Premesis
- Impact Fertilisers
- Nyrstar
- Apco Engineering

Long term PCAs
- Derwent Barracks
- Long-term industrial discharges - River Derwent
- Reclaimed land - Fill of unkown origin

EPA Underground Petroleum Storage Systems
- Active
- Permanently Decommissioned

Boreholes
- DeGraves
- Plate Shed



INCAT ESA

Figure 4:
Sampling Locations

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N

Coordinate System: GDA2020 MGA Zone 55

MAP REF: P.26.0075
AUTHOR: HF
REV: D
DATE: 13/03/2026
DATA SOURCES: Aerial imagery from ESRI, Data from Spatial Services, State of NSW, Project Specific Data

LEGEND

Sample Type

- Stockpile
- Test Pit
- Confirmed Asbestos Containing Material
- Potential Asbestos Containing Material
- Stockpile extents (approximate)
- Site Outline (approximate)

Document Set ID: 3616604
Version: 2, Version Date: 19/05/2026

LotSearch Report

Appendix B

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LOTSEARCH

LOTSEARCH ENVIRO PROFESSIONAL

Date: 30 January 2026 14:39:05

Reference: LS117721 EP

Address: 100 Derwent Park Road, Derwent Park, TAS 7009

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 within Buffer
EPA Regulated Premises	Environment Protection Authority TAS	09/01/2026	18/07/2025	Monthly	1000	0	12	19
National Waste Management Facilities Database	Geoscience Australia	30/05/2025	19/01/2023	Annually	1000	0	0	4
National Liquid Fuel Facilities	Geoscience Australia	28/10/2025	30/11/2022	Annually	1000	0	0	0
EPA Underground Petroleum Storage Systems	Environment Protection Authority TAS	07/01/2026	07/01/2026	Monthly	1000	0	0	1
Points of Interest - Service Stations	Land Tasmania	17/11/2025	11/07/2025	Quarterly	1000	0	0	0
Airservices Australia National PFAS Management Program	Airservices Australia	12/01/2026	21/05/2025	Monthly	2000	0	0	0
Defence Controlled Areas	Australian Department of Defence	13/01/2026	13/01/2026	Quarterly	2000	0	0	0
Defence 3 Year Regional Contamination Investigation Program	Australian Department of Defence	12/11/2025	02/09/2022	Quarterly	2000	0	0	1
National Unexploded Ordnance (UXO)	Australian Department of Defence	13/01/2026	13/01/2026	Quarterly	2000	0	0	1
Authority Land - Defence	Land Tasmania	06/11/2025	11/07/2025	Quarterly	2000	0	0	0
UBD Business Directories (Premise & Intersection Matches)	Hardie Grant			Not required	100	0	0	0
UBD Business Directories (Road & Area Matches)	Hardie Grant			Not required	100	-	0	0
UBD Business Directory Dry Cleaners & Motor Garages/Service Stations (Premise & Intersection Matches)	Hardie Grant			Not required	250	0	0	0
UBD Business Directory Dry Cleaners & Motor Garages/Service Stations (Road & Area Matches)	Hardie Grant			Not required	250	-	0	0
Points of Interest	Land Tasmania	17/11/2025	11/07/2025	Quarterly	1000	0	0	1
Easements	Land Tasmania	17/11/2025	16/07/2025	Quarterly	0	0	0	0
Groundwater Prospectivity	Mineral Resources Tasmania	03/06/2025	02/08/2010	Annually	1000	0	1	3
Boreholes (Drill Holes)	Mineral Resources Tasmania	07/11/2025	06/11/2025	Quarterly	2000	0	0	106
National Groundwater Information System (NGIS) Boreholes	Bureau of Meteorology	30/05/2025	04/03/2025	Annually	2000	0	0	1
Geology of Tasmania: Geology Units 1:25000	Mineral Resources Tasmania	11/02/2025	16/07/2024	Annually	1000	0	2	22
Geology of Tasmania: Geology Faults 1:25000	Mineral Resources Tasmania	11/02/2025	16/07/2024	Annually	1000	0	0	0
Geology of Tasmania: Geology Linears 1:25000	Mineral Resources Tasmania	11/02/2025	16/07/2024	Annually	1000	0	1	5
Atlas of Australian Soils	Australian Bureau of Agricultural and Resource Economics and Sciences	13/01/2026	17/02/2011	Annually	1000	1	1	1
Atlas of Australian Acid Sulfate Soils	CSIRO	13/01/2026	21/02/2013	Annually	1000	1	3	3
Areas of Tasmania with Potential to Contain Acid Sulfate Soils	TAS Department of Natural Resources and Environment	08/05/2025	18/01/2019	Annually	1000	1	2	11
Tasmanian Planning Scheme & Interim Planning Scheme - Zones	Tasmanian Planning Commission	09/01/2026	29/10/2025	Monthly	1000	2	2	34
Tasmanian Planning Scheme & Interim Planning Scheme - Overlays	Tasmanian Planning Commission	09/01/2026	29/10/2025	Monthly	1000	2	3	64
Tasmanian Planning Scheme & Interim Planning Scheme - Flood Overlay	Tasmanian Planning Commission	09/01/2026	29/10/2025	Monthly	1000	0	1	3
Tasmanian Planning Scheme & Interim Planning Scheme - Coastal Inundation Overlay	Tasmanian Planning Commission	09/01/2026	29/10/2025	Monthly	1000	3	3	11
Tasmanian Planning Scheme & Interim Planning Scheme - Coastal Erosion Overlay	Tasmanian Planning Commission	09/01/2026	29/10/2025	Monthly	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 within Buffer
Tasmanian Planning Scheme & Interim Planning Scheme - Landslide Overlay	Tasmanian Planning Commission	09/01/2026	29/10/2025	Monthly	1000	0	1	3
Tasmanian Planning Scheme & Interim Planning Scheme - Bushfire Overlay	Tasmanian Planning Commission	09/01/2026	29/10/2025	Monthly	1000	0	0	1
Fire History	TAS Department of Natural Resources and Environment	09/01/2026	02/09/2025	Monthly	1000	0	0	9
Commonwealth Heritage List	Australian Department of Climate Change, Energy, the Environment and Water	28/10/2025	04/12/2014	Annually	500	0	0	0
National Heritage List	Australian Department of Climate Change, Energy, the Environment and Water	28/10/2025	04/12/2014	Annually	500	0	0	0
Tasmanian Heritage Register	Heritage Tasmania	17/11/2025	18/07/2025	Quarterly	500	0	0	1
Authority Land - Aboriginal Land	Land Tasmania	06/11/2025	11/07/2025	Quarterly	500	0	0	0
TASVEG 4.0	TAS Department of Natural Resources and Environment	17/12/2025	11/10/2020	Annually	1000	0	1	9
Threatened Native Vegetation Communities 2014	TAS Department of Natural Resources and Environment	16/12/2025	19/02/2021	Annually	1000	0	0	2
Ramsar Wetlands of Australia	Australian Department of Climate Change, Energy, the Environment and Water	19/05/2025	05/03/2025	Annually	1000	0	0	0
Collaborative Australian Protected Areas Database (CAPAD) 2022 - Terrestrial	Australian Department of Climate Change, Energy, the Environment and Water	20/03/2025	19/06/2024	Annually	1000	0	0	1
Collaborative Australian Protected Areas Database (CAPAD) 2022 - Marine	Australian Department of Climate Change, Energy, the Environment and Water	20/03/2025	30/06/2022	Annually	1000	0	0	0
Groundwater Dependent Ecosystems Atlas	Bureau of Meteorology	30/05/2025	07/05/2020	Annually	1000	0	0	1
Inflow Dependent Ecosystems Likelihood	Bureau of Meteorology	30/05/2025	07/05/2020	Annually	1000	0	0	1
Property Boundaries & Roads	Land Tasmania	09/01/2026	10/07/2025	Monthly		-	-	-
Topographic Data	Land Tasmania	17/11/2025	09/07/2025	Annually		-	-	-

Aerial Imagery 2025

100 Derwent Park Road, Derwent Park, TAS 7009

Legend

Site Boundary

Report Buffer

Scale:

0 30 60 90 120
Meters

Coordinate System:
GDA 2020 MGA Zone 55

Date: 30 January 2026

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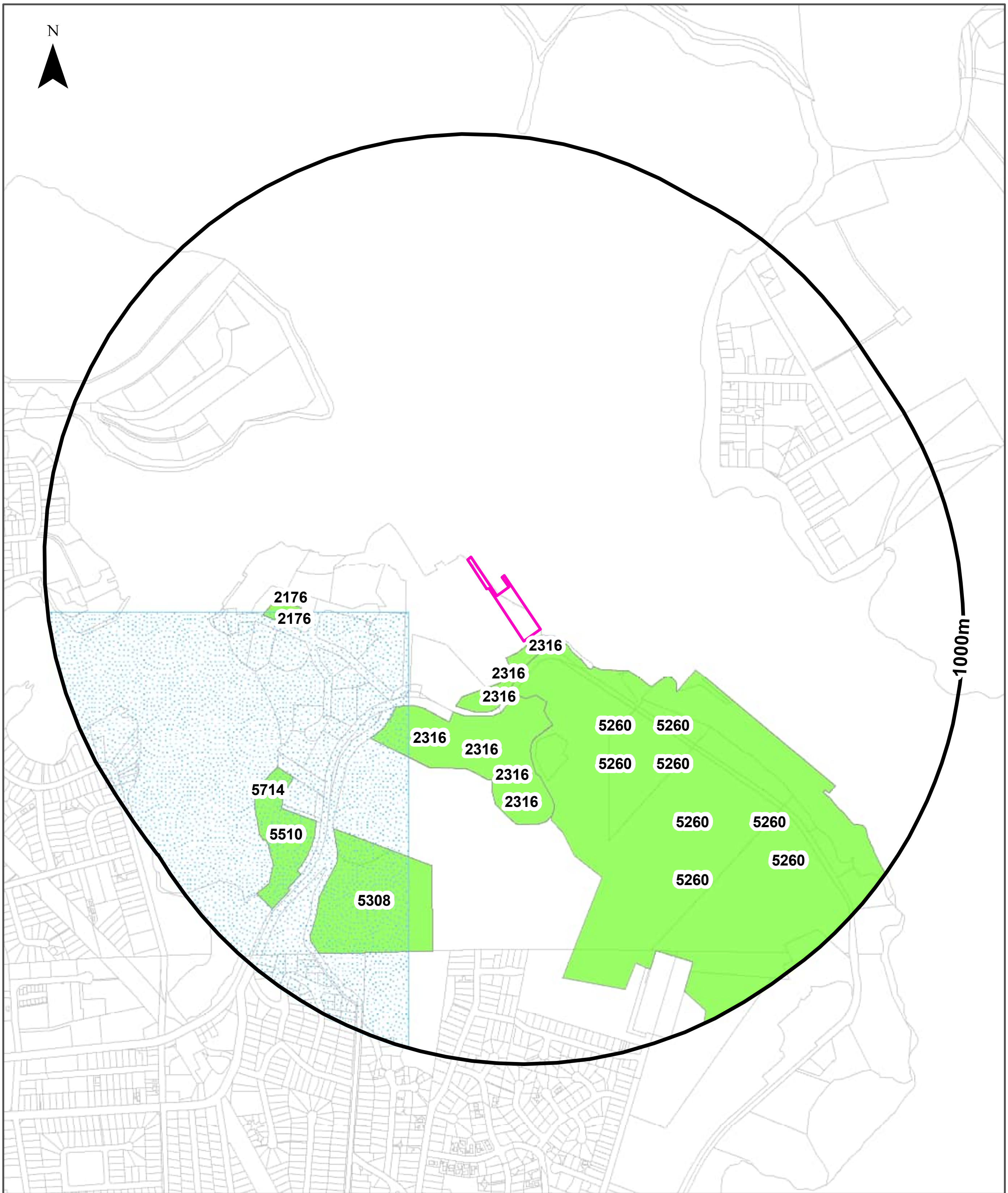
EPA Regulated Premises

100 Derwent Park Road, Derwent Park, TAS 7009



Legend

- Site Boundary
- Report Buffer
- Property Boundaries
- Current Contaminated Land
- Former Contaminated Land
- Former Other Activity
- Current Other Activity

Scale: 0 100 200 400 600 Metres

Data Sources: Cadastral Parcels from www.theLIST.tas.gov.au © StateofTasmania Released under CC BY Aus 3.0

Coordinate System: GDA 2020 MGA Zone 55

Date: 30 January 2026

EPA Regulated Premises

100 Derwent Park Road, Derwent Park, TAS 7009

EPA Regulated Premises

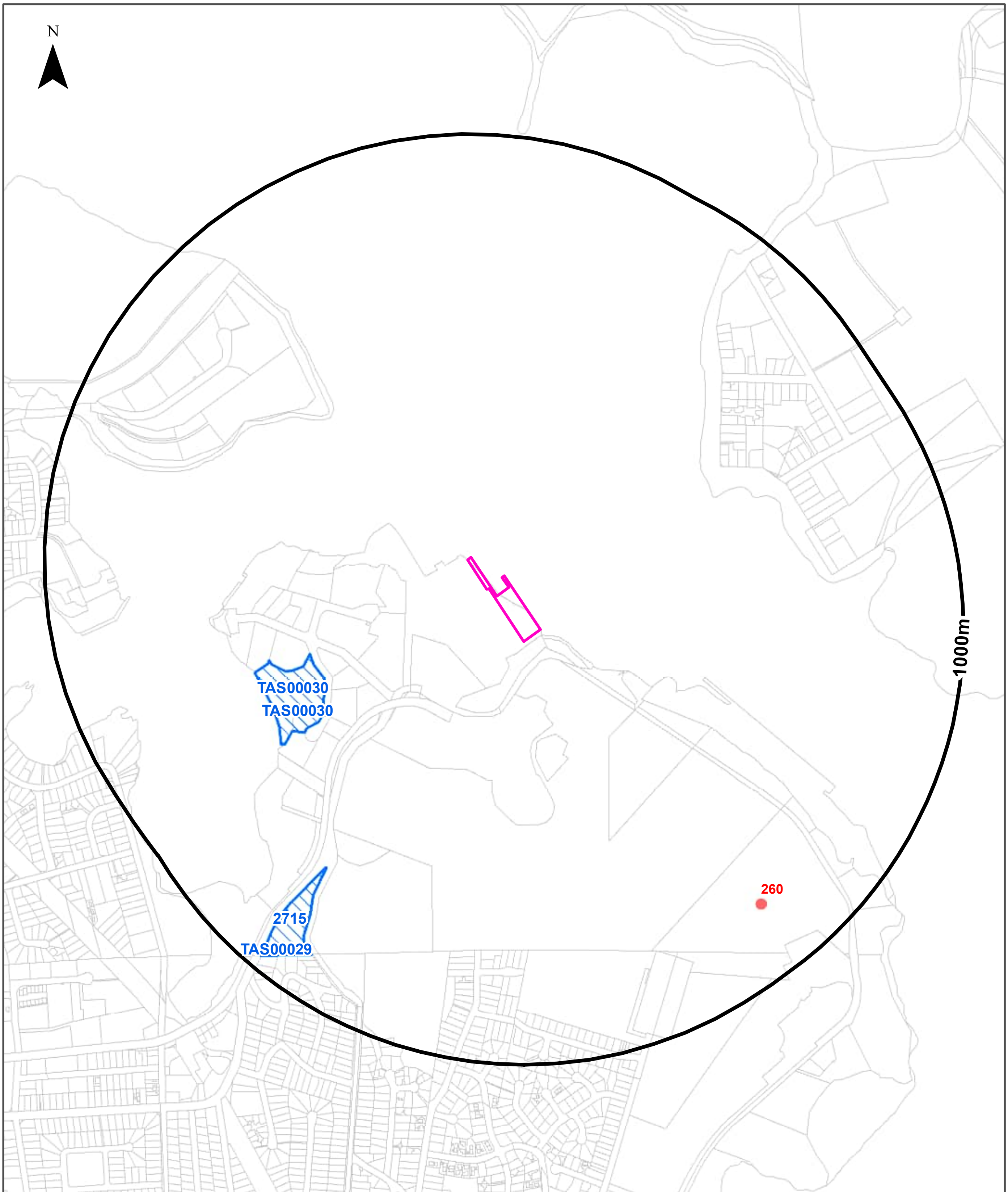
EPA Regulated Premises within the dataset buffer:

Site Id	Premise	Client	Activity Category	Activity Type	Doc No.	Document Type	Status	Loc Conf	Dist	Dir
2316	FERTILISER MANUFACTURER DERWENT PARK	AMEROPA AUSTRALIA PTY LTD	Petroleum and Chemical Activities	1A1 Chemical Works - manufacture (through chemical reaction) of any inorganic chemical	5960	Permit or Permit Conditions Environmental (PCE)	Current	Premise Match	9m	South
	FERTILISER MANUFACTURER DERWENT PARK	AMEROPA AUSTRALIA PTY LTD	Petroleum and Chemical Activities	1A1 Chemical Works - manufacture (through chemical reaction) of any inorganic chemical	6159	Permit or Permit Conditions Environmental (PCE)	Current	Premise Match	9m	South
	FERTILISER MANUFACTURER DERWENT PARK	AMEROPA AUSTRALIA PTY LTD	Petroleum and Chemical Activities	1A1 Chemical Works - manufacture (through chemical reaction) of any inorganic chemical	7316/2	Environment Protection Notice (EPN)	Current	Premise Match	9m	South
	FERTILISER MANUFACTURER DERWENT PARK	AMEROPA AUSTRALIA PTY LTD	Petroleum and Chemical Activities	1A1 Chemical Works - manufacture (through chemical reaction) of any inorganic chemical	7316/1	Environment Protection Notice (EPN)	Former	Premise Match	9m	South
5260	HOBART ZINC SMELTER	NYRSTAR HOBART PTY LTD	Petroleum and Chemical Activities	1A1 Chemical Works - manufacture (through chemical reaction) of any inorganic chemical	10449	Permit or Permit Conditions Environmental (PCE)	Current	Premise Match	20m	South East
	HOBART ZINC SMELTER	NYRSTAR HOBART PTY LTD	Petroleum and Chemical Activities	2D Metallurgical Works	3314	Permit or Permit Conditions Environmental (PCE)	Current	Premise Match	20m	South East
	HOBART ZINC SMELTER	NYRSTAR HOBART PTY LTD	Petroleum and Chemical Activities	3B2 Other (non-inert) Waste Depots	6120	Permit or Permit Conditions Environmental (PCE)	Current	Premise Match	20m	South East
	HOBART ZINC SMELTER	NYRSTAR HOBART PTY LTD	Petroleum and Chemical Activities	2D Metallurgical Works	6158	Permit or Permit Conditions Environmental (PCE)	Current	Premise Match	20m	South East
	HOBART ZINC SMELTER	NYRSTAR HOBART PTY LTD	Petroleum and Chemical Activities	2D Metallurgical Works	7043/5	Environment Protection Notice (EPN)	Current	Premise Match	20m	South East
	HOBART ZINC SMELTER	NYRSTAR HOBART PTY LTD	Petroleum and Chemical Activities	2D Metallurgical Works	7043/6	Environment Protection Notice (EPN)	Current	Premise Match	20m	South East
	HOBART ZINC SMELTER	NYRSTAR HOBART PTY LTD	Petroleum and Chemical Activities	111A an activity that requires a permit and is co-located with a level 2 activity and is NOT ancillary to that level 2 activity.	8664	Permit or Permit Conditions Environmental (PCE)	Current	Premise Match	20m	South East
	HOBART ZINC SMELTER	NYRSTAR HOBART PTY LTD	Petroleum and Chemical Activities	2D Metallurgical Works	10058	Environment Protection Notice (EPN)	Former	Premise Match	20m	South East

Site Id	Premise	Client	Activity Category	Activity Type	Doc No.	Document Type	Status	Loc Conf	Dist	Dir
5714	DERWENT PARK STORMWATER HARVESTING & INDUSTRIAL REUSE PROJECT - AQUIFER STORAGE & RECOVERY	GLENORCHY CITY COUNCIL	Miscellaneous	B2 activity assessed by the Board under section 27(2) of EMPCA	8736/1	Environment Protection Notice (EPN)	Former	Area Match	184m	South West
2176	BENDERS DRIVE DERWENT PARK METAL FOUNDRY	APCO ENGINEERING PTY LTD	Manufacturing and Mineral Processing	2C1 Ferrous & Non-ferrous Metal Melting (works discharging all wastewater to external approved Wastewater Treatment Works)	55	Permit or Permit Conditions Environmental (PCE)	Current	Premise Match	409m	West
	BENDERS DRIVE DERWENT PARK METAL FOUNDRY	APCO ENGINEERING PTY LTD	Manufacturing and Mineral Processing	2C1 Ferrous & Non-ferrous Metal Melting (works discharging all wastewater to external approved Wastewater Treatment Works)	7617/1	Environment Protection Notice (EPN)	Current	Premise Match	409m	West
5308	LUTANA CLINICAL WASTE TREATMENT PLANT	COPPING REFUSE DISPOSAL SITE JOINT AUTHORITY	Materials Handling	3B1 Inert Waste Depots	7554	Permit or Permit Conditions Environmental (PCE)	Current	Premise Match	572m	South West
5510	PRINCE OF WALES BAY WASTEWATER TREATMENT PLANT	TASMANIAN WATER & SEWERAGE CORPORATION PTY LTD	Wastewater Treatment	3A Wastewater Treatment Works	3540	Permit or Permit Conditions Environmental (PCE)	Current	Premise Match	631m	South West
	PRINCE OF WALES BAY WASTEWATER TREATMENT PLANT	TASMANIAN WATER & SEWERAGE CORPORATION PTY LTD	Wastewater Treatment	3A Wastewater Treatment Works	8545/1	Environment Protection Notice (EPN)	Current	Premise Match	631m	South West
	PRINCE OF WALES BAY WASTEWATER TREATMENT PLANT	TASMANIAN WATER & SEWERAGE CORPORATION PTY LTD	Wastewater Treatment	3A Wastewater Treatment Works	9208/1	Environment Protection Notice (EPN)	Current	Premise Match	631m	South West

Waste Management and Liquid Fuel Facilities

100 Derwent Park Road, Derwent Park, TAS 7009



Legend

- Site Boundary
- Report Buffer
- Property Boundaries
- Service Station
- EPA Underground Petroleum Storage System
- Waste Management Facilities
- National Liquid Fuel Facilities

Scale: 0 100 200 400 600 Metres

Data Sources: Cadastral Parcels from www.theLIST.tas.gov.au © StateofTasmania Released under CC BY Aus 3.0

Coordinate System: GDA 2020 MGA Zone 55

Date: 30 January 2026

Waste Management and Liquid Fuel Facilities

100 Derwent Park Road, Derwent Park, TAS 7009

National Waste Management Facilities Database

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

Site Id	Owner	Name	Address	Management Type	Facility Type	Status	Loc Conf	Dist	Dir
TAS00030	SHRED-X	SHRED-X TAS	4-8 SUNMONT STREET, DERWENT PARK	DROP-OFF	E-WASTE DROP-OFF FACILITY	OPERATIONAL	Premise Match	433m	West
TAS00030	SHRED-X	SHRED-X TAS	4-8 SUNMONT STREET, DERWENT PARK	RECYCLING	PAPER AND CARDBOARD RECYCLING FACILITY	OPERATIONAL	Premise Match	433m	West
2715	SKM	SKM Derwent Park Transfer Station	127 Derwent Park Road, Derwent Park		Transfer Station		Premise Match	708m	South West
TAS00029	CLEANAWAY	CLEANAWAY MRF DERWENT PARK	127 DERWENT PARK ROAD, DERWENT PARK	RECYCLING	MATERIALS RECOVERY FACILITY (MRF)	OPERATIONAL	Premise Match	708m	South West

Source: Waste Management Facilities Database

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	Dir
N/A	No records in buffer										

National Liquid Fuel Facilities Data Source: Geoscience Australia

Waste Management and Liquid Fuel Facilities

100 Derwent Park Road, Derwent Park, TAS 7009

EPA Underground Petroleum Storage Systems

EPA Underground Petroleum Storage Systems within the dataset buffer:

Site Id	Site Status	Register Status	Loc Conf	Distance	Direction
260	Active	Current EPA Site	As Supplied	831m	South East

EPA Underground Petroleum Storage Systems Data Source: Environment Protection Authority Tasmania

Service Stations

Service stations from the LIST Points of Interest dataset within the dataset buffer:

Map Id	Name	Distance	Direction
N/A	No records within buffer		

Points of Interest from www.theLIST.tas.gov.au©State of Tasmania

PFAS Investigation and Management Programs

100 Derwent Park Road, Derwent Park, TAS 7009

Airservices Australia National PFAS Management Program

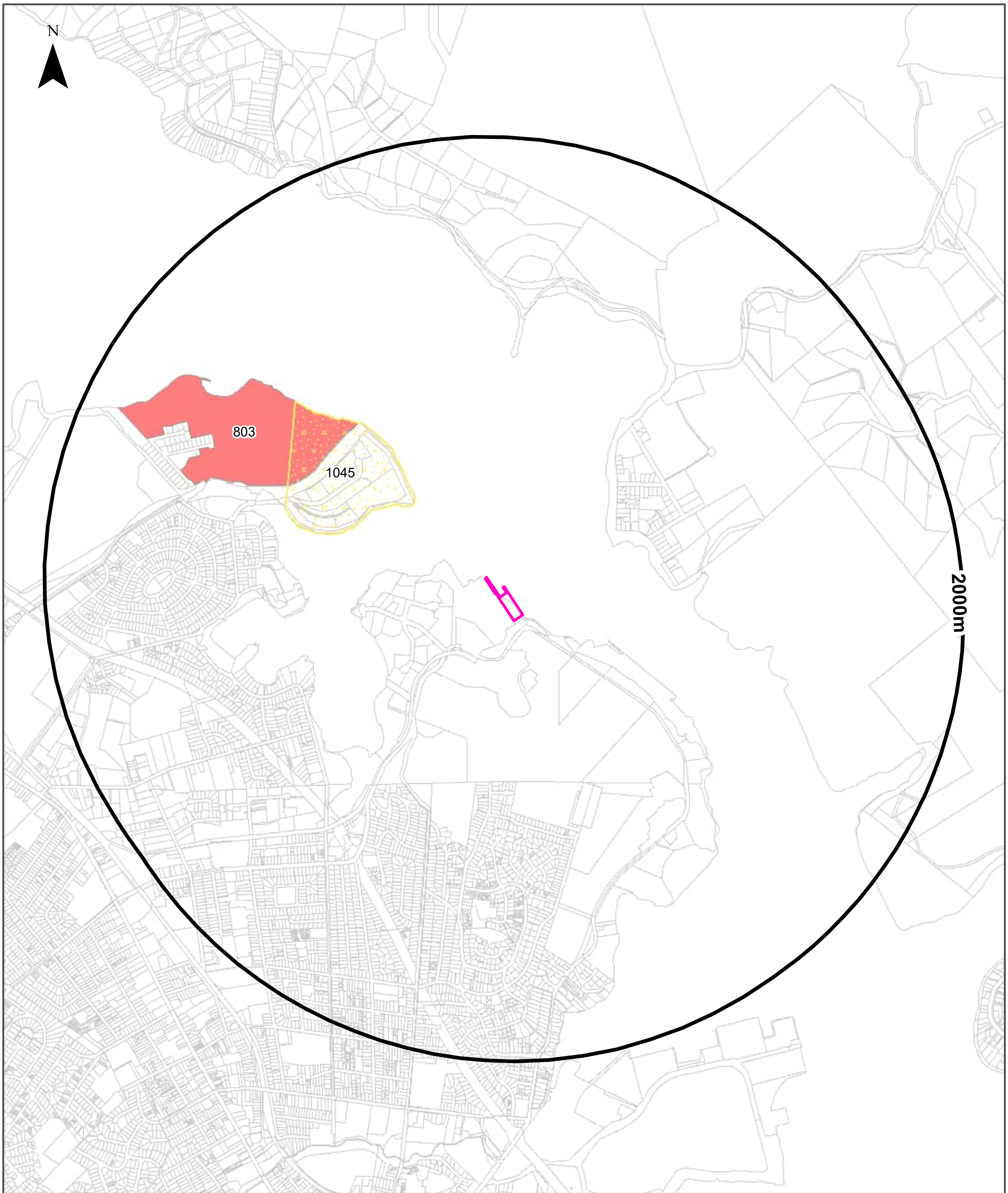
Sites being investigated or managed by Airservices Australia for PFAS contamination within the dataset buffer:

Map Id	Site Name	Impacts	Location Confidence	Distance	Direction
N/A	No records in buffer				

Airservices Australia National PFAS Management Program Data Custodian: Airservices Australia

Defence Sites and Unexploded Ordnance

100 Derwent Park Road, Derwent Park, TAS 7009



Legend

- Site Boundary
- Report Buffer
- Property Boundaries

Defence 3 Year RCIP

- Known Contamination
- No Known Contamination

Authority Land

- Defence Land

DCA

- Defence Controlled Area

UXO

- Substantial Potential
- Slight Potential
- Remote Potential
- Sea Dumping of Depth Charges
- Information
- Other
- Other Sea Dumping Sites

Scale: 0 100 200 400 600 800 1,000 1,200 Metres

Data Sources: Cadastral Parcels from www.theLIST.tas.gov.au © StateofTasmania Released under CC BY Aus 3.0

Coordinate System: GDA 2020 MGA Zone 55

Date: 30 January 2026

Defence Sites and Unexploded Ordnance

100 Derwent Park Road, Derwent Park, TAS 7009

Defence Controlled Areas (DCA)

Defence Controlled Areas provided by the Department of Defence within the dataset buffer:

Site ID	Location Name	Loction Confidence	Distance	Direction
N/A	No records in buffer			

Defence Controlled Areas, Data Custodian: Department of Defence, Australian Government

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	Location Confidence	Distance	Direction
803	Derwent Barracks	Dowsing Point, Tasmania	YES	Premise Match	910m	North West

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

National Unexploded Ordnance (UXO)

Sites which have been assessed by the Department of Defence for the potential presence of unexploded ordnance within the dataset buffer:

Site ID	Location Name	Category	Area Description	Additional Information	Commonwealth	Loc Conf	Distance	Direction
1045	Dowsing Point	Other	This site was a Ammunition Depot during WW2.		Contains Commonwealth Land	11	470m	North West

National Unexploded Ordnance (UXO), Data Custodian: Department of Defence, Australian Government

Defence Land

Defence land from the LIST Authority Land dataset within the dataset buffer:

Map Id	Title Volume	Title Folio	Location Confidence	Distance	Direction
N/A	No records in buffer				

Authority Land from www.theLIST.tas.gov.au©State of Tasmania

Historical Business Directories

100 Derwent Park Road, Derwent Park, TAS 7009

Business Directory Records 1950-1991 Premise or Road Intersection Matches

Potentially contaminative business activities extracted from Universal Business Directories from years 1950, 1960, 1971, 1984 and 1991, mapped to a premise or road intersection, within the dataset buffer:

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance	Direction
	No records in buffer						

Business Directory Records 1950-1991 Road or Area Matches

Potentially contaminative business activities extracted from Universal Business Directories from years 1950, 1960, 1971, 1984 and 1991, 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
	No records in buffer					

Historical Business Directories

100 Derwent Park Road, Derwent Park, TAS 7009

Dry Cleaners, Motor Garages & Service Stations 1950-1991 Premise or Road Intersection Matches

Dry Cleaners, Motor Garages & Service Stations from UBD Business Directories for years 1950, 1960, 1971, 1984 and 1991, mapped to a premise or road intersection, within the dataset buffer:

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance	Direction
	No records in buffer						

Dry Cleaners, Motor Garages & Service Stations 1950-1991 Road or Area Matches

Dry Cleaners, Motor Garages & Service Stations from UBD Business Directories for years 11950, 1960, 1971, 1984 and 1991, 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
	No records in buffer					

Aerial Imagery 2014

100 Derwent Park Road, Derwent Park, TAS 7009

Legend

- Site Boundary
- Report Buffer

Scale: 0 30 60 90 120 Meters

Coordinate System: GDA 2020 MGA Zone 55

Date: 30 January 2026

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Aerial Imagery 2003

100 Derwent Park Road, Derwent Park, TAS 7009

Legend

- Site Boundary
- Report Buffer

Scale: 0 30 60 90 120 Meters

Coordinate System: GDA 2020 MGA Zone 55

Date: 30 January 2026

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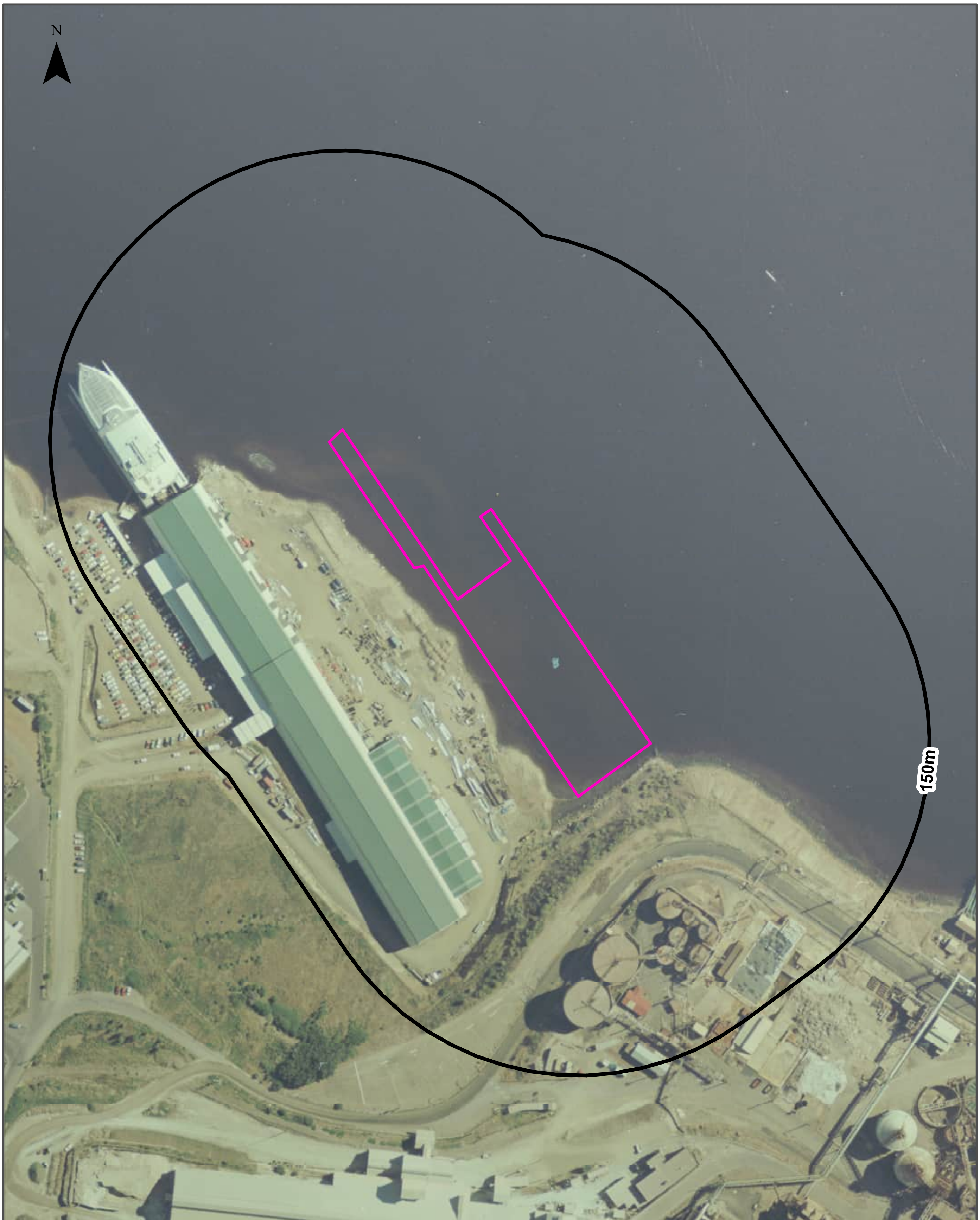
Aerial Imagery 1997

100 Derwent Park Road, Derwent Park, TAS 7009



Legend

Site Boundary

Report Buffer

Scale:

0 30 60 90 120
Meters

Coordinate System:
GDA 2020 MGA Zone 55

Date: 30 January 2026

Data Source Aerial Imagery: Base image by TASMAP © State of Tasmania

Aerial Imagery 1988

100 Derwent Park Road, Derwent Park, TAS 7009

Legend

Site Boundary

Report Buffer

Scale:

0 30 60 90 120
Meters

Coordinate System:
GDA 2020 MGA Zone 55

Date: 30 January 2026

Data Source Aerial Imagery: Base image by TASMAP © State of Tasmania

Aerial Imagery 1977

100 Derwent Park Road, Derwent Park, TAS 7009

Legend

Site Boundary

Report Buffer

Scale:

0 30 60 90 120
Meters

Coordinate System:
GDA 2020 MGA Zone 55

Date: 30 January 2026

Data Source Aerial Imagery: Base image by TASMAP © State of Tasmania

Aerial Imagery 1969

100 Derwent Park Road, Derwent Park, TAS 7009

Legend

Site Boundary

Report Buffer

Scale:

0 30 60 90 120
Meters

Coordinate System:
GDA 2020 MGA Zone 55

Date: 30 January 2026

Data Source Aerial Imagery: Base image by TASMAP © State of Tasmania

Aerial Imagery 1957

100 Derwent Park Road, Derwent Park, TAS 7009

Legend

Site Boundary

Report Buffer

Scale:

0 30 60 90 120
Meters

Coordinate System:
GDA 2020 MGA Zone 55

Date: 30 January 2026

Data Source Aerial Imagery: Base image by TASMAP © State of Tasmania

Aerial Imagery 1946

100 Derwent Park Road, Derwent Park, TAS 7009

Legend

Site Boundary

Report Buffer

Scale:

0 30 60 90 120
Meters

Coordinate System:
GDA 2020 MGA Zone 55

Date: 30 January 2026

Data Source Aerial Imagery: Base image by TASMAP © State of Tasmania

Historical Map c.1987

100 Derwent Park Road, Derwent Park, TAS 7009

Legend

Site Boundary

Buffer 1000m

Scale: 0 360 720 1,080 1,440 Meters

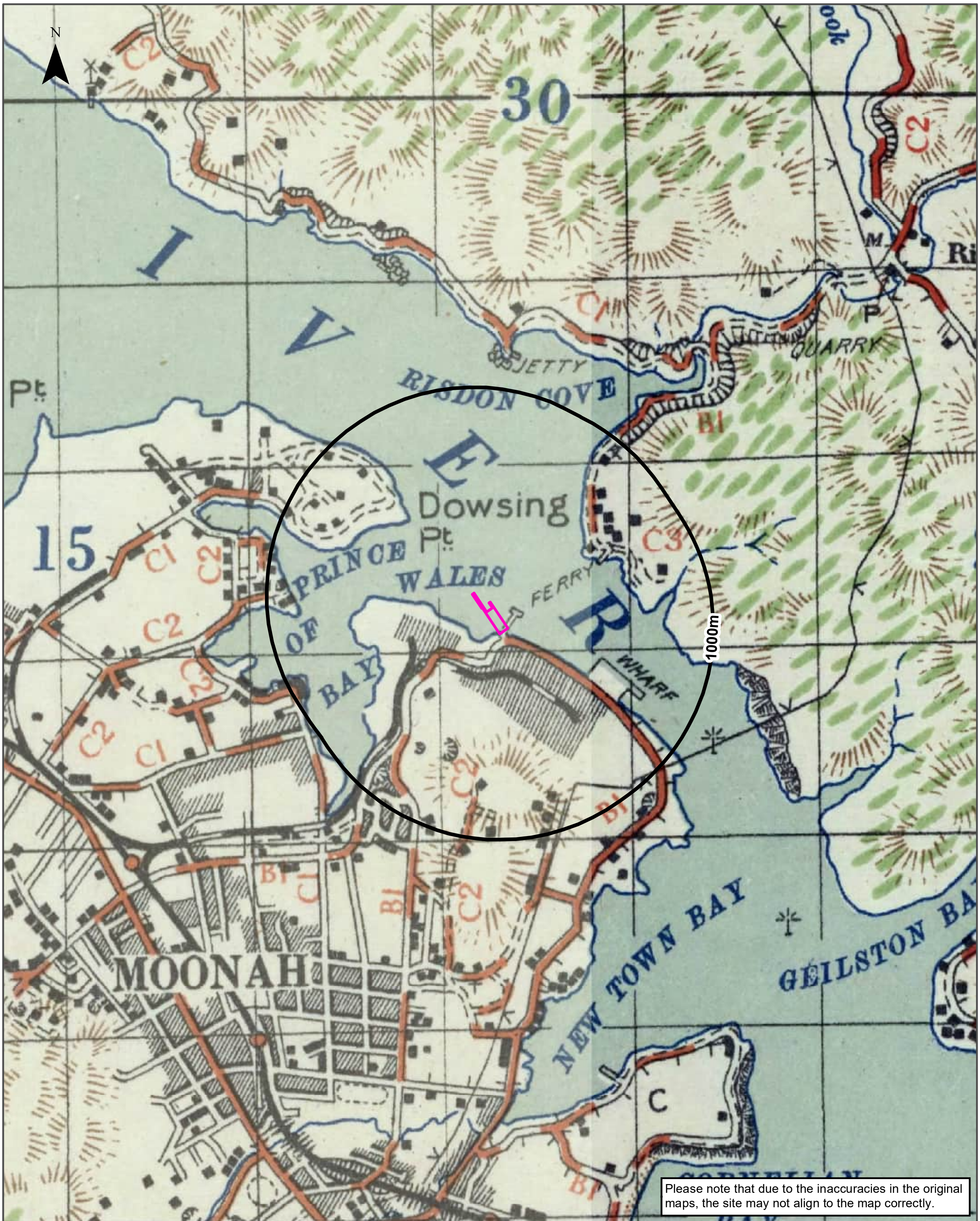
Coordinate System: GDA 2020 MGA Zone 55

Date: 29 January 2026

Data Source: Tasmania 1:100,000 Topographic Mapping Series
Department of Natural Resources and Environment Tasmania

Historical Map c.1942

100 Derwent Park Road, Derwent Park, TAS 7009



Please note that due to the inaccuracies in the original maps, the site may not align to the map correctly.

Legend

- Site Boundary
- Buffer 1000m

Scale: 0 360 720 1,080 1,440 Meters

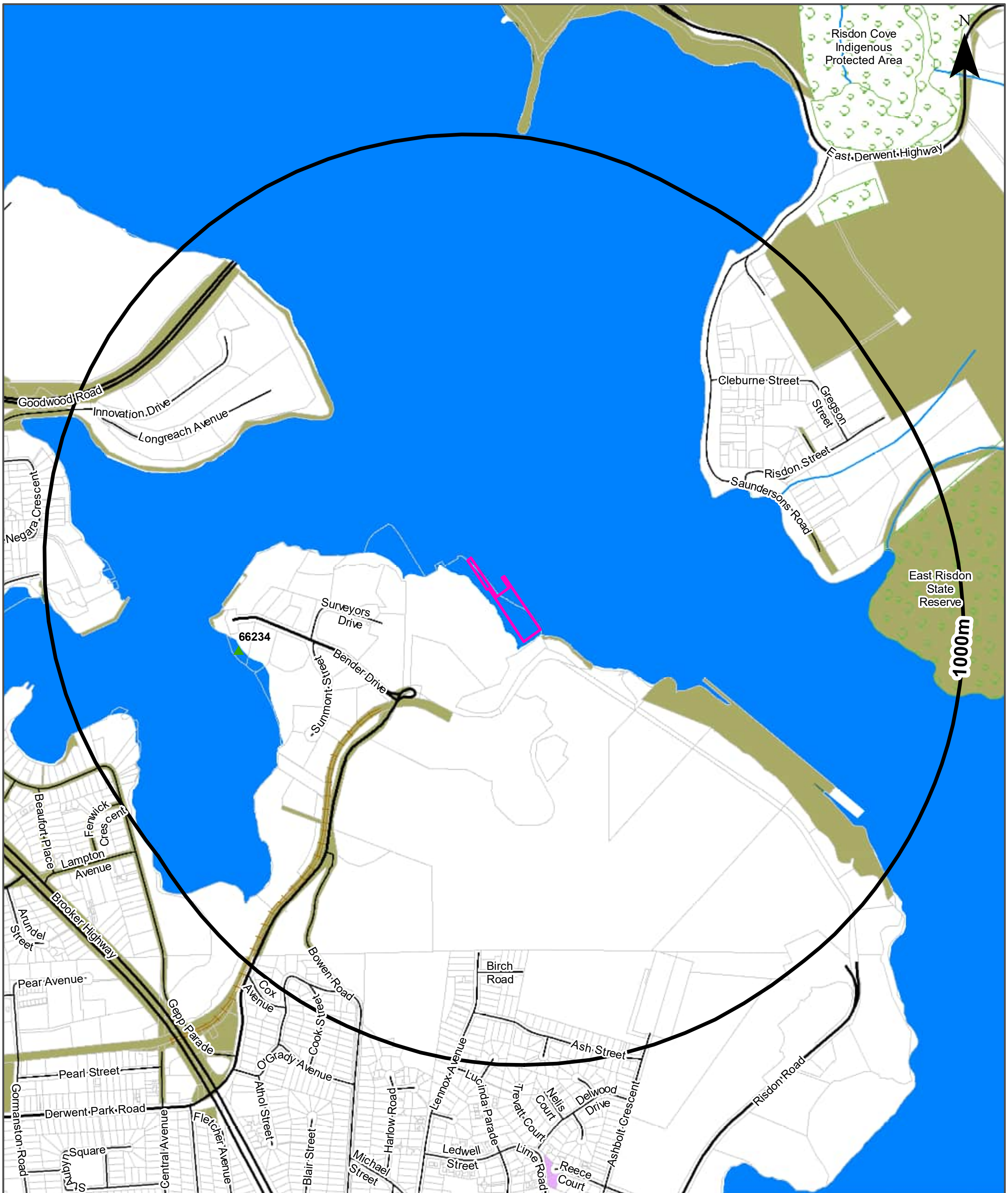
Coordinate System: GDA 2020 MGA Zone 55

Date: 29 January 2026

Data Sources: Australia 1:63,360 Military Survey
Produced by Australian Section Imperial General Staff

Topographic Features

100 Derwent Park Road, Derwent Park, TAS 7009



Legend

- Site Boundary
- Report Buffer
- Property Boundaries
- Point of Interest
- Easement
- Crown Land
- Reserves
- National Parks, Forests and Conservation Areas
- Waterbody
- Road
- Arterial Road/Highway
- Rail
- Fire Trail
- Rivers

Scale: 0 100 200 400 600 Metres

Data Sources: Cadastral Parcels from www.theLIST.tas.gov.au © StateofTasmania Released under CC BY Aus 3.0

Coordinate System: GDA 2020 MGA Zone 55

Date: 30 January 2026

Topographic Features

100 Derwent Park Road, Derwent Park, TAS 7009

Points of Interest

Features from the LIST Points of Interest dataset that exist within the dataset buffer:

Map Id	Feature Type	Feature Subtype	Name	Distance	Direction
66234	Tourist feature	Industrial	Spotty Dog Brewery and Taphouse	581m	West

Easements

Features from the LIST Easements dataset that exist on-site:

Map Id	Feature Type	Feature Subtype
N/A	No records within buffer	

Elevation Contours (m AHD) 10m Interval at 1:25,000

100 Derwent Park Road, Derwent Park, TAS 7009

Legend

- Site Boundary
- Report Buffer
- Property Boundaries
- Elevation Contour (m AHD)

Scale:
0 100 200 400 600
Metres

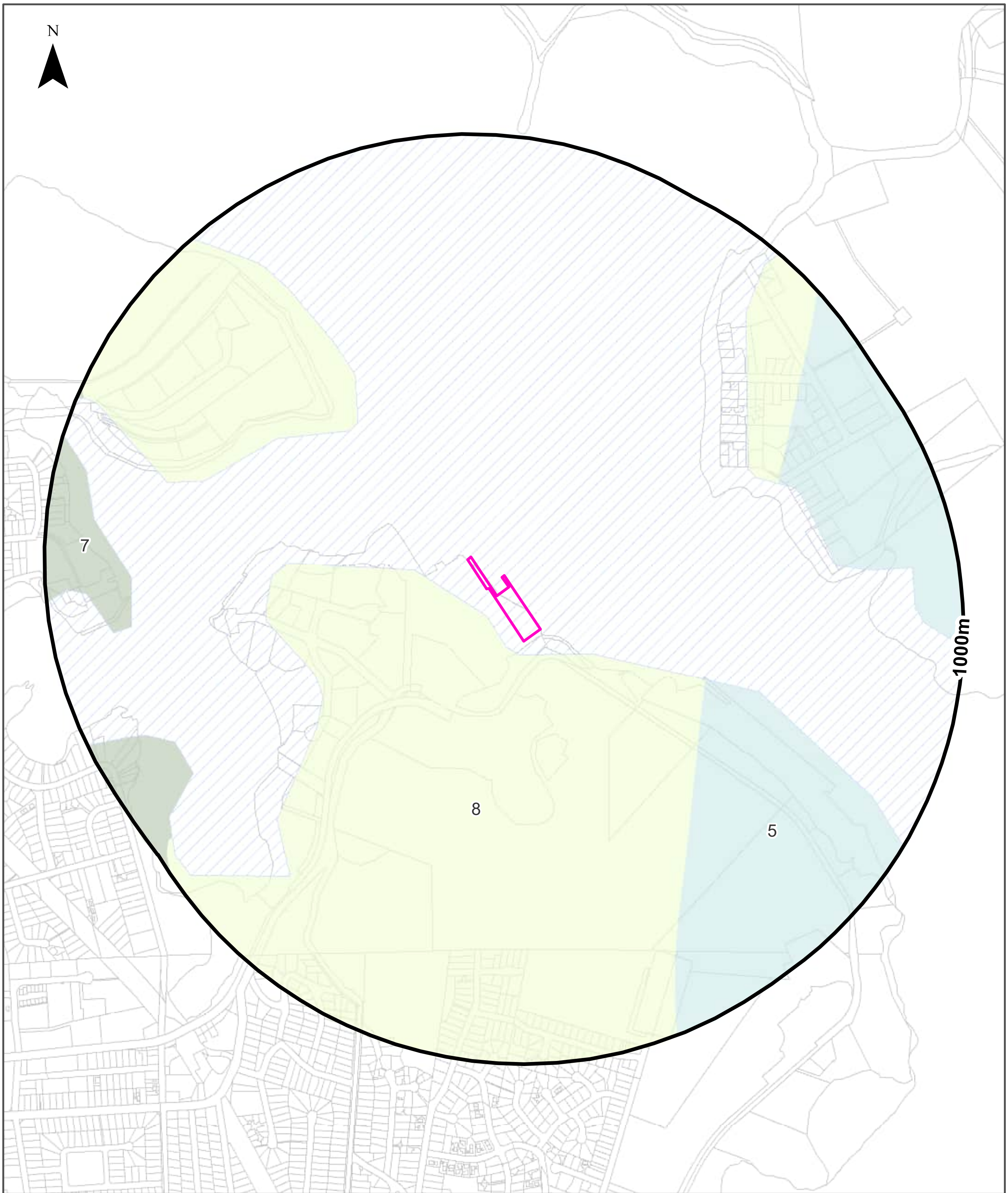
Data Sources: Cadastral Parcels from www.theLIST.tas.gov.au © StateofTasmania Released under CC BY Aus 3.0

Coordinate System: GDA 2020 MGA Zone 55

Date: 30 January 2026

Hydrogeology

100 Derwent Park Road, Derwent Park, TAS 7009



Legend

- Site Boundary
- Report Buffer
- Property Boundaries

Hydrogeology

- 0: Not Mapped
- 1: Porous - High
- 2: Porous - Moderate to High
- 3: Porous - Low to Moderate
- 4: Porous - Low to High
- 5: Fractured Rock (Intergranular) - High
- 6: Fractured Rock - Moderate to High
- 7: Fractured Rock (Tertiary basalt) - High
- 8: Fractured Rock - Moderate
- 9: Fractured Rock - Low to Moderate
- Water body

Scale: 0 100 200 400 600 Metres

Data Sources: Cadastral Parcels from www.theLIST.tas.gov.au © StateofTasmania Released under CC BY Aus 3.0

Coordinate System: GDA 2020 MGA Zone 55

Date: 30 January 2026

Hydrogeology & Groundwater

100 Derwent Park Road, Derwent Park, TAS 7009

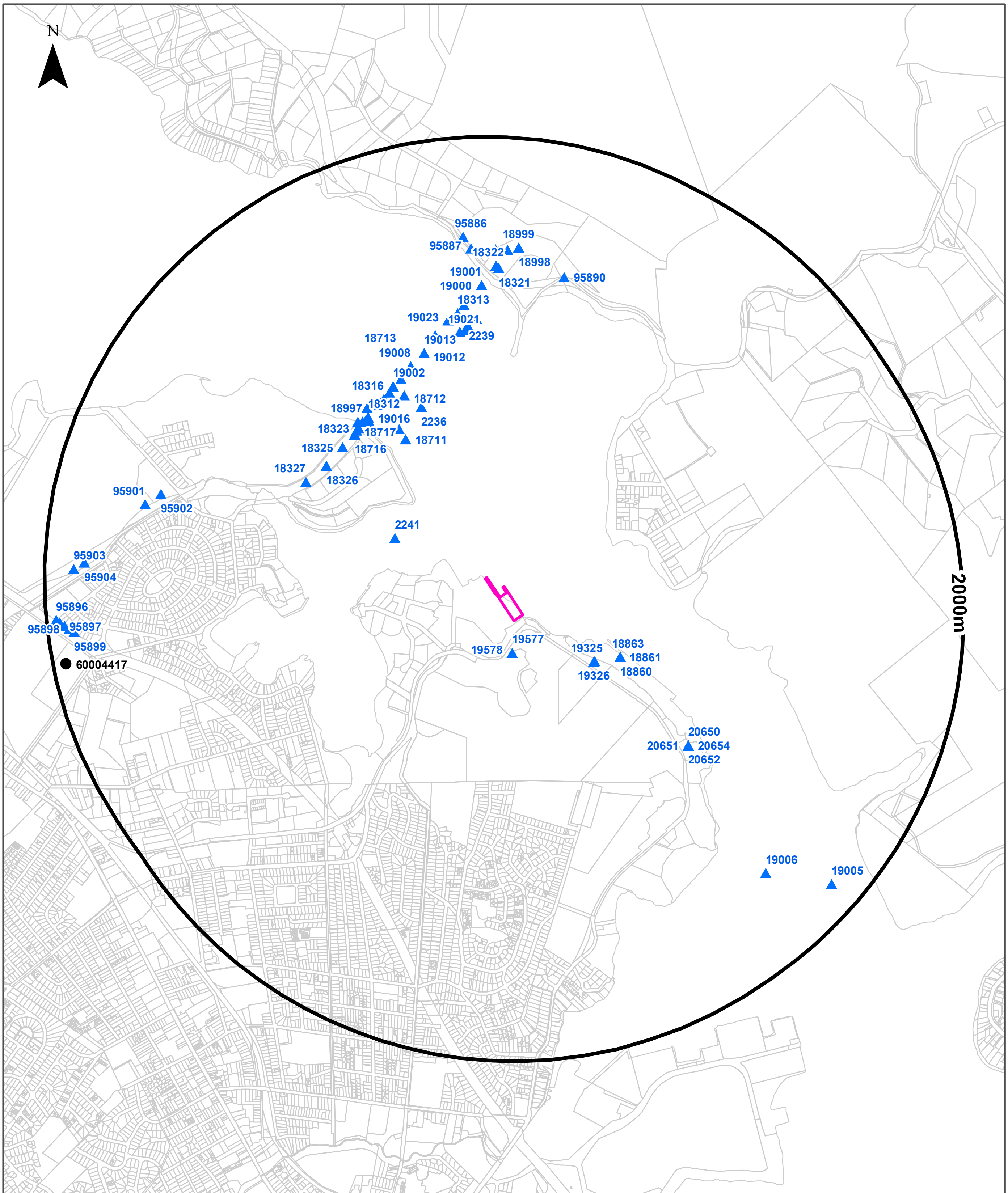
Hydrogeology

Description of aquifers within the dataset buffer:

Proscode	Aquifer Type	Prospectivity	Rock Groups	General Aquifer Characteristics	Pollution Vulnerability	Pollution Vulnerability Description	Distance
8	FRACTURED ROCK	MODERATE	Jurassic dolerite. Triassic basalt - St Marys. Tertiary basalt - Scottsdale, Ringarooma, Tamar and Bream Creek.	Yields often suitable for domestic/stock purposes; less commonly irrigation quantities (up to 20 L/s) have been found. Dolerite is usually less fractured than basalts and in most locations is of lower prospectivity. Quality is variable and water salinity in the low rainfall areas often restricts its use (water quality is expected to be mainly good in the north and northeast parts of Tasmania, as well as the Central Plateau). Aquifers are often unconfined, semiconfined to confined.	Moderate	Can be high if fractured zones are not overlain by low permeability material.	30m
5	FRACTURED ROCK (Intergranular on some horizons)	HIGH	Triassic, quartzose and lithic sandstones, mudstone, minor coal. Terrestrial origin (R, Rv, Rq). Permian mudstone, siltstone and sandstone (often pebbly), minor limestone, conglomerate and tillite. Mainly marine origin (P).	Yields suitable for most domestic and livestock purposes; in some cases sufficient for irrigation (up to 25 L/s). Quality is good in the north and the northeast where water is usually suitable for a wide range of purposes. In the southeast water salinity restricts use in many locations. Here near surface small yielding zones often yield poorer quality groundwater than deeper higher yielding zones. Aquifers are mainly unconfined to confined locally.	High	High - Unless a layer of low permeability material overlies the aquifer.	406m
7	FRACTURED ROCK	HIGH	Tertiary basalt.	Usually highly prospective, yields mostly sufficient for domestic and stock purposes; small to moderate irrigation quantities are often obtained (yields up to 38 L/s). Aquifers often intensely fractured and vesicular. Yields are generally higher than for other fractured rock aquifers. Prone to overuse in low rainfall areas (Pawleena Road near Sorell and Campbell Town). Quality usually suitable for most purposes in the north and northeast. In the low rainfall southeastern part of the state salinity is moderate to high and restricts water use. Aquifers can be unconfined to confined.	High	Very occasional deep clay soils may offer some protection and lower vulnerability	794m

Boreholes

100 Derwent Park Road, Derwent Park, TAS 7009



Legend

- Site Boundary
- Report Buffer
- Property Boundaries
- NGIS Boreholes
- MRT Drillholes

Scale: 0 100 200 400 600 800 1,000 1,200 Metres

Data Sources: Cadastral Parcels from www.theLIST.tas.gov.au © StateofTasmania Released under CC BY Aus 3.0

Coordinate System: GDA 2020 MGA Zone 55

Date: 30 January 2026

Boreholes

100 Derwent Park Road, Derwent Park, TAS 7009

Boreholes (Drill Holes)

Drill hole locations provided by Mineral Resources Tasmania within the dataset buffer:

Drill ID	Name	Purpose	Location	Drill Date	Start Point	Length (m)	Elevation (m AHD)	Azimuth	Dip	Dist	Dir
19577	IF1	Engineering geology	Impact Fertilizers - EZ Risdon	6/2/1999	Surface	2.8	29.3	0	-90	145m	South
19578	IF2	Engineering geology	Impact Fertilizers - EZ Risdon	6/2/1999	Surface	3	29.3	0	-90	145m	South
19326	PEZ-2	Engineering geology	Pasminco - EZ Risdon	10/8/1997	Surface	6.25	5	0	-90	386m	South East
19325	PEZ-1	Engineering geology	Pasminco - EZ Risdon	10/8/1997	Surface	6.55	5	0	-90	389m	South East
2241	Hole 7	Engineering geology	Dowsing Point Bridge	10/7/1963	unknown	47				449m	North West
18863	BH4	Engineering geology	Pasminco Acid Storage - EZ Risdon	12/12/1995	Surface	6		0	-90	482m	South East
18860	BH1	Engineering geology	Pasminco Acid Storage - EZ Risdon	12/12/1995	Surface	5.94	14.9	0	-90	482m	South East
18862	BH3	Engineering geology	Pasminco Acid Storage - EZ Risdon	12/12/1995	Surface	5.2	14	0	-90	482m	South East
18861	BH2	Engineering geology	Pasminco Acid Storage - EZ Risdon	12/12/1995	Surface	4.45	16.3	0	-90	482m	South East
18711	BH1 (J1)	Engineering geology	Bowen Bridge	4/24/1975	Surface	49		0	-90	725m	North West
2235	Hole 1	Engineering geology	Dowsing Point Bridge	8/19/1963	unknown	52				781m	North West
2236	Hole 2	Engineering geology	Dowsing Point Bridge	8/28/1963	unknown	50				828m	North West
18325	WA1	Engineering geology	Bowen Bridge West Approach	5/6/1976	Surface	17.36		0	-90	880m	North West
18716	BW3	Engineering geology	Bowen Bridge	3/29/1977	Surface	14		0	-90	881m	North West
18717	BW4	Engineering geology	Bowen Bridge	3/23/1977	Surface	13		0	-90	881m	North West
18718	BW5	Engineering geology	Bowen Bridge	2/15/1977	Surface	19		0	-90	881m	North West
18721	BW9	Engineering geology	Bowen Bridge	4/4/1977	Surface	23		0	-90	881m	North West
18720	BW8	Engineering geology	Bowen Bridge	7/7/1977	Surface	6		0	-90	881m	North West
18719	BW7	Engineering geology	Bowen Bridge	4/6/1977	Surface	4		0	-90	881m	North West
18326	WA2	Engineering geology	Bowen Bridge West Approach	5/26/1976	Surface	15.25		0	-90	884m	North West
19016	BHD21	Engineering geology	Bowen Bridge	12/8/1976	Surface	51		0	-90	886m	North West
19018	BHD23	Engineering geology	Bowen Bridge	12/6/1976	Surface	53		0	-90	886m	North West
19015	BHD20	Engineering geology	Bowen Bridge	11/29/1976	Surface	52		0	-90	886m	North West
18324	W2	Engineering geology	Bowen Bridge West Abutment	8/18/1976	Surface	20.27		0	-90	889m	North West
18323	W1	Engineering geology	Bowen Bridge West Abutment	4/27/1976	Surface	12.11		0	-90	891m	North West
18319	D10	Engineering geology	Bowen Bridge	7/8/1976	Surface	25.66		0	-90	899m	North West
18320	D11	Engineering geology	Bowen Bridge	8/2/1976	Surface	29.84		0	-90	903m	North West
18312	D3	Engineering geology	Bowen Bridge	4/21/1976	Surface	40.14		0	-90	904m	North West

Drill ID	Name	Purpose	Location	Drill Date	Start Point	Length (m)	Elevation (m AHD)	Azimuth	Dip	Dist	Dir
18997	BHD-Pier 1	Engineering geology	Bowen Bridge	7/1/1975	Surface	19		0	-90	904m	North West
18712	BH2 (J2)	Engineering geology	Bowen Bridge	5/3/1975	Surface	55		0	-90	907m	North West
19017	BHD22	Engineering geology	Bowen Bridge	12/10/1976	Surface	48		0	-90	917m	North West
18318	D9	Engineering geology	Bowen Bridge	6/21/1976	Surface	54.28		0	-90	923m	North West
18310	D1	Engineering geology	Bowen Bridge	3/30/1976	Surface	57.32		0	-90	924m	North West
18327	WA3	Engineering geology	Bowen Bridge West Approach	6/10/1976	Surface	11.97		0	-90	924m	North West
18317	D8	Engineering geology	Bowen Bridge	6/16/1976	Surface	51.54		0	-90	928m	North West
18316	D7	Engineering geology	Bowen Bridge	6/10/1976	Surface	52.69		0	-90	934m	North West
18714	BH4 (J4)	Engineering geology	Bowen Bridge	8/23/1975	Surface	49		0	-90	940m	North West
18311	D2	Engineering geology	Bowen Bridge	3/9/1976	Surface	50.6		0	-90	947m	North West
20650	MB64	Engineering geology	Pasminco Smelter	9/6/2002	Surface	11.8		0	-90	958m	South East
20651	MB65	Engineering geology	Pasminco Smelter	9/2/2002	Surface	15.1		0	-90	958m	South East
20652	MB66	Engineering geology	Pasminco Smelter	9/2/2002	Surface	15.2		0	-90	958m	South East
20653	MB67	Engineering geology	Pasminco Smelter	9/3/2002	Surface	13.65		0	-90	958m	South East
20654	MB68	Engineering geology	Pasminco Smelter	9/5/2002	Surface	11.6		0	-90	958m	South East
20655	MB69	Engineering geology	Pasminco Smelter	9/1/2002	Surface	10.3		0	-90	958m	South East
20656	MB70	Engineering geology	Pasminco Smelter	9/3/2002	Surface	13.15		0	-90	958m	South East
20657	MB71	Engineering geology	Pasminco Smelter	9/4/2002	Surface	11.5		0	-90	958m	South East
20658	MB72	Engineering geology	Pasminco Smelter	9/4/2002	Surface	9.15		0	-90	958m	South East
20659	MB73	Engineering geology	Pasminco Smelter	9/9/2002	Surface	7.45		0	-90	958m	South East
20660	MB74	Engineering geology	Pasminco Smelter	9/9/2002	Surface	8.75		0	-90	958m	South East
20661	MB75	Engineering geology	Pasminco Smelter	9/5/2002	Surface	6.15		0	-90	958m	South East
19002	BHP301	Engineering geology	Bowen Bridge Pier 3	12/1/1975	Surface	55		0	-90	965m	North West
19032	BHD38	Engineering geology	Bowen Bridge	12/16/1977	Surface	46		0	-90	965m	North West
19031	BHD36	Engineering geology	Bowen Bridge	12/21/1977	Surface	44		0	-90	965m	North West
19033	BHD39	Engineering geology	Bowen Bridge	12/15/1977	Surface	48		0	-90	965m	North West
18315	D6	Engineering geology	Bowen Bridge	5/17/1976	Surface	43.23		0	-90	980m	North West
19008	BHD13	Engineering geology	Bowen Bridge	1/18/1977	Surface	37		0	-90	1017m	North
19010	BHD15	Engineering geology	Bowen Bridge	1/12/1977	Surface	40		0	-90	1017m	North
19009	BHD14	Engineering geology	Bowen Bridge	1/1/1977	Surface	43		0	-90	1017m	North
19007	BHD12	Engineering geology	Bowen Bridge	1/1/1977	Surface	43		0	-90	1017m	North
19012	BHD17	Engineering geology	Bowen Bridge	1/4/1977	Surface	32		0	-90	1055m	North
19013	BHD18	Engineering geology	Bowen Bridge	1/28/1977	Surface	35		0	-90	1055m	North
19011	BHD16	Engineering geology	Bowen Bridge	1/20/1977	Surface	40		0	-90	1055m	North
19014	BHD19	Engineering geology	Bowen Bridge	2/2/1977	Surface	32		0	-90	1055m	North

Drill ID	Name	Purpose	Location	Drill Date	Start Point	Length (m)	Elevation (m AHD)	Azimuth	Dip	Dist	Dir
18713	BH3 (J3)	Engineering geology	Bowen Bridge	7/10/1975	Surface	42		0	-90	1103m	North West
18314	D5	Engineering geology	Bowen Bridge	5/24/1976	Surface	43.85		0	-90	1105m	North
2239	Hole 5	Engineering geology	Dowsing Point Bridge	9/19/1963	unknown	30				1120m	North
19029	BHD34	Engineering geology	Bowen Bridge	2/9/1977	Surface	25		0	-90	1121m	North
19030	BHD35	Engineering geology	Bowen Bridge	2/15/1977	Surface	32		0	-90	1121m	North
19003	BHP601	Engineering geology	Bowen Bridge Pier 6	5/1/1980	Surface	33		0	-90	1121m	North
19027	BHD32	Engineering geology	Bowen Bridge	2/21/1977	Surface	36		0	-90	1121m	North
19028	BHD33	Engineering geology	Bowen Bridge	12/10/1977	Surface	31		0	-90	1121m	North
2238	Hole 4	Engineering geology	Dowsing Point Bridge	9/11/1963	unknown	17				1127m	North
2237	Hole 3	Engineering geology	Dowsing Point Bridge	9/5/1963	unknown	23				1146m	North
2240	Hole 6	Engineering geology	Dowsing Point Bridge	10/1/1963	unknown	23				1174m	North
19023	BHD28	Engineering geology	Bowen Bridge	2/24/1977	Surface	19		0	-90	1179m	North
19025	BHD30	Engineering geology	Bowen Bridge	3/3/1977	Surface	20		0	-90	1179m	North
19026	BHD31	Engineering geology	Bowen Bridge	3/4/1977	Surface	15		0	-90	1179m	North
19004	BHP700	Engineering geology	Bowen Bridge Pier 7	12/6/1980	Surface	30		0	-90	1179m	North
19024	BHD29	Engineering geology	Bowen Bridge	2/7/1977	Surface	15		0	-90	1179m	North
18313	D4	Engineering geology	Bowen Bridge	6/2/1976	Surface	30.33		0	-90	1206m	North
19020	BHD25	Engineering geology	Bowen Bridge	3/9/1977	Surface	11		0	-90	1241m	North
19022	BHD27	Engineering geology	Bowen Bridge	3/1/1977	Surface	12		0	-90	1241m	North
19021	BHD26	Engineering geology	Bowen Bridge	3/10/1977	Surface	14		0	-90	1241m	North
19019	BHD24	Engineering geology	Bowen Bridge	3/8/1977	Surface	16		0	-90	1241m	North
19001	BHE6	Engineering geology	Bowen Bridge	1/24/1977	Surface	15		0	-90	1327m	North
19000	BHE4	Engineering geology	Bowen Bridge	3/23/1977	Surface	10		0	-90	1327m	North
18321	E1	Engineering geology	Bowen Bridge East Abutment	7/27/1976	Surface	15.19		0	-90	1405m	North
95890	3216451_05	Engineering geology	East Derwent Highway Slip Lane	9/6/2012	Surface	2.5		0	-90	1408m	North
18322	E2	Engineering geology	Bowen Bridge East Abutment	8/6/1976	Surface	14.6		0	-90	1415m	North
95888	3216451_03	Engineering geology	East Derwent Highway Slip Lane	9/6/2012	Surface	2.1		0	-90	1489m	North
95889	3216451_04	Engineering geology	East Derwent Highway Slip Lane	9/6/2012	Surface	1.7		0	-90	1490m	North
95887	3216451_02	Engineering geology	East Derwent Highway Slip Lane	9/6/2012	Surface	2.3		0	-90	1494m	North
18998	BHEO3	Engineering geology	Bowen Bridge	7/1/1975	Surface	58		0	-90	1504m	North
18999	BHEO4	Engineering geology	Bowen Bridge	7/1/1975	Surface	60		0	-90	1504m	North
95902	TP2	Engineering geology	Brooker Highway, Elwick Road & Goodwood Road Upgrade	4/1/2015	Surface	2.1		0	-90	1520m	West
95886	3216451_01	Engineering geology	East Derwent Highway Slip Lane	9/6/2012	Surface	2.5		0	-90	1550m	North
95901	TP1	Engineering geology	Brooker Highway, Elwick Road & Goodwood Road Upgrade	4/1/2015	Surface	1.6		0	-90	1580m	West

Drill ID	Name	Purpose	Location	Drill Date	Start Point	Length (m)	Elevation (m AHD)	Azimuth	Dip	Dist	Dir
19006	BH2	Engineering geology	Bedlam Walls Bridge	1/1/1975	Surface	77		0	-90	1609m	South East
95904	TP4	Engineering geology	Brooker Highway, Elwick Road & Goodwood Road Upgrade	4/1/2015	Surface	1.1		0	-90	1820m	West
19005	BH1	Engineering geology	Bedlam Walls Bridge	1/1/1975	Surface	58		0	-90	1860m	South East
95903	TP3	Engineering geology	Brooker Highway, Elwick Road & Goodwood Road Upgrade	4/1/2015	Surface	1.25		0	-90	1867m	West
95899	3217132_04	Engineering geology	Brooker Highway, Elwick Road & Goodwood Road Upgrade	4/8/2014	Surface	3		0	-90	1881m	West
95898	3217132_03	Engineering geology	Brooker Highway, Elwick Road & Goodwood Road Upgrade	4/8/2014	Surface	3		0	-90	1901m	West
95900	3217132_05	Engineering geology	Brooker Highway, Elwick Road & Goodwood Road Upgrade	4/8/2014	Surface	3.3		0	-90	1921m	West
95897	3217132_02	Engineering geology	Brooker Highway, Elwick Road & Goodwood Road Upgrade	4/8/2014	Surface	3		0	-90	1940m	West
95896	3217132_01	Engineering geology	Brooker Highway, Elwick Road & Goodwood Road Upgrade	4/8/2014	Surface	3.1		0	-90	1956m	West

Source: Boreholes (Drill Holes) Creative Commons 4.0 © Mineral Resources Tasmania

Boreholes

100 Derwent Park Road, Derwent Park, TAS 7009

Boreholes (NGIS)

Boreholes from the National Groundwater Information System (NGIS) within the dataset buffer:

NGIS Bore Id	State Bore Id	Drilled Date	Bore Depth (m)	Drilled Depth (m)	Elevation (m)	Distance	Direction
60004417	3228	26/10/1984		29.00	19.90	1940m	West

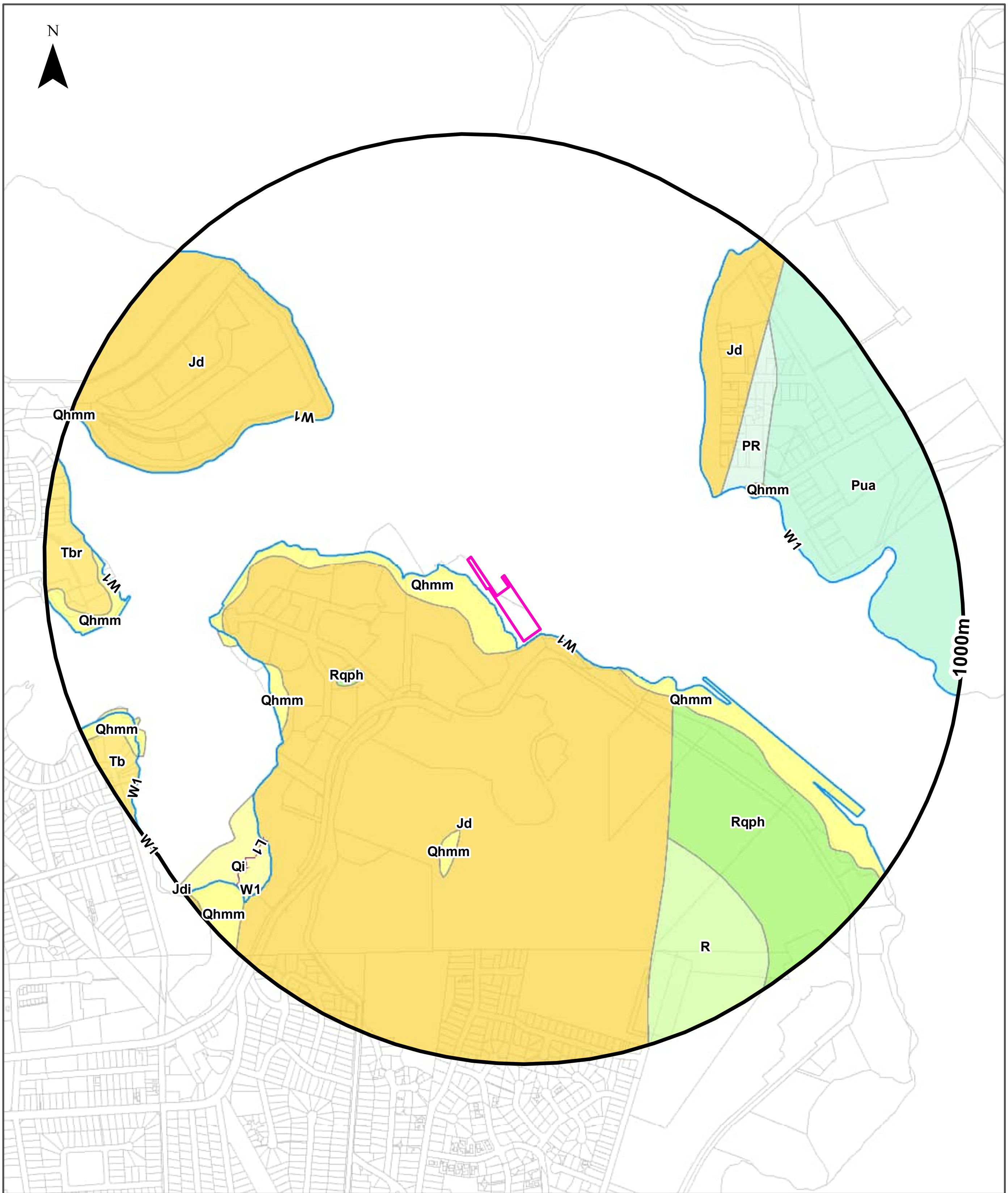
Borehole Logs (NGIS)

Borehole logs from the National Groundwater Information System (NGIS) within the dataset buffer:

NGIS Bore Id	Driller's Log	Distance	Direction
60004417	0.00m-29.00m 29.00m-29.00m	1940m	West

Geology 1:25,000

100 Derwent Park Road, Derwent Park, TAS 7009



Legend

- Site Boundary
- Report Buffer
- Property Boundaries

Linear Geological Structures and Boundaries

- Faulted boundary
- Geological contact
- Trendline
- Fold axis
- Lineament
- Water/coastline

Scale:
0 100 200 400 600
Metres

Data Sources: Cadastral Parcels from www.theLIST.tas.gov.au © StateofTasmania Released under CC BY Aus 3.0

Coordinate System: GDA 2020 MGA Zone 55

Date: 30 January 2026

Geology

100 Derwent Park Road, Derwent Park, TAS 7009

Geological Units (1:25,000)

Geological units that occur within the dataset buffer:

Code	Description	Stratigraphy	Age Range	Distance
Jd	Dolerite and related rocks	Jurassic igneous rocks>Tasmanian Dolerite	Pliensbachian to Toarcian	7m
Qhmm	Man-made deposits.	Undifferentiated Cenozoic sequences>Undifferentiated Quaternary sediments>Holocene alluvial, lacustrine and littoral deposits	Upper Pleistocene to Holocene	11m
Rqph	Freshwater predominantly cross-bedded quartzose to feldspathic sandstone commonly with overturned cross-bedding, subordinate siltstone with sparse plant and vertebrate fossils (Knocklofty Formation).	Late Carboniferous to Triassic sedimentary sequences>Parmeener Supergroup>Upper Parmeener Supergroup>Upper Fluviolacustrine Sequence - Quartz Sandstone Sequence (Rq)>Knocklofty Formation	Wuchiapingian to Carnian	351m
PR	Undifferentiated Parmeener Supergroup rocks.	Late Carboniferous to Triassic sedimentary sequences>Parmeener Supergroup	Kasimovian to Norian	531m
R	Undifferentiated Upper Parmeener Supergroup rocks.	Late Carboniferous to Triassic sedimentary sequences>Parmeener Supergroup>Upper Parmeener Supergroup>Upper Fluviolacustrine Sequence (Rv)	Changhsingian to Norian	573m
Pua	Generally unfossiliferous glaciomarine interbedded non-fissile and fissile siltstone and silty sandstone, with common bioturbation and lonestones, rare pebbly beds and fossiliferous beds; top beds of laminated grey to brown siltstone with thin beds of we	Late Carboniferous to Triassic sedimentary sequences>Parmeener Supergroup>Lower Parmeener Supergroup>Upper Glaciomarine Sequence - Abels Bay Formation and correlates>Abels Bay Formation	Roadian to Wuchiapingian	625m
Qi	Undifferentiated bay, estuarine, deltaic and alluvial deposits of sand, shelly sand, pebbly sand, pebble to boulder size gravels, clayey sand, silt and clay.	Undifferentiated Cenozoic sequences>Undifferentiated Quaternary sediments	Gelasian to Holocene	727m
Tbr	Transitional olivine basalt.	Undifferentiated Cenozoic sequences>Undifferentiated Paleogene - Neogene sequences>Paleogene - Neogene basalt and related rocks	Maastrichtian to Tortonian	847m
Tb	Basalt.	Undifferentiated Cenozoic sequences>Undifferentiated Paleogene - Neogene sequences>Paleogene - Neogene basalt and related rocks	Maastrichtian to Tortonian	904m
Jdi	Inferred dolerite beneath soil or Cainozoic deposits.	Jurassic igneous rocks>Tasmanian Dolerite	Pliensbachian to Toarcian	986m

Geology

100 Derwent Park Road, Derwent Park, TAS 7009

Linear Geological Structures (1:25,000)

Faults that occur within the dataset buffer:

Code	Description	Movement Sense	Observation Method	Distance
N/A	No records in buffer			

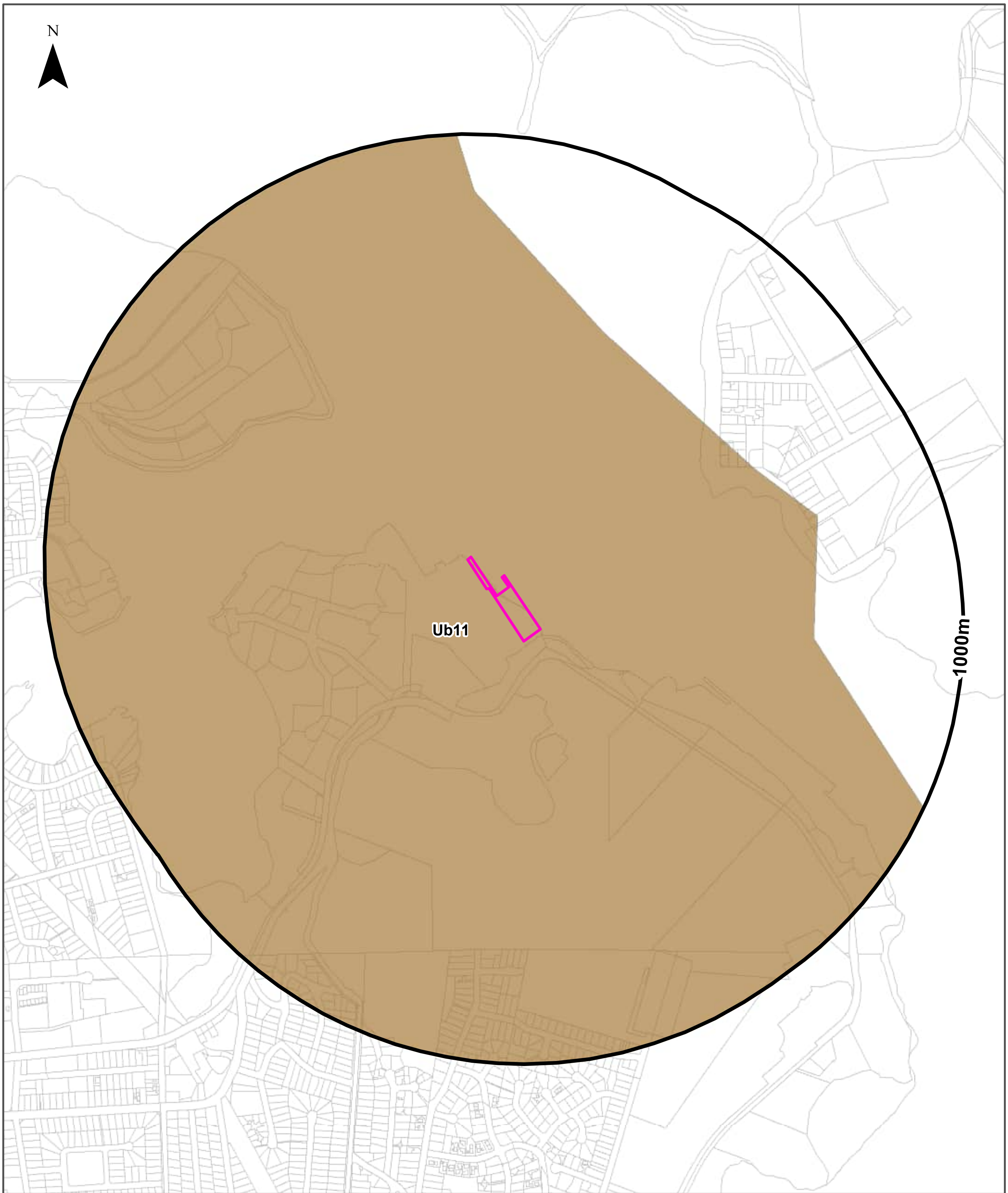
Other linear geological structures that occur within the dataset buffer:

Code	Description	Observation Method	Distance
W1	coastline	unknown	7m
L1	lineament	aerial photograph	774m

Data Source: Geology of Tasmania, Mineral Resources Tasmania

Atlas of Australian Soils

100 Derwent Park Road, Derwent Park, TAS 7009



Legend

- Site Boundary
- Report Buffer
- Property Boundaries

Australian Soil Classification Orders

Anthroposol	Kandosol	Tenosol
Calcarosol	Kurosol	Vertosol
Chromosol	Organosol	Lake
Dermosol	Podosol	No Data
Ferrosol	Rudosol	
Hydrosol	Sodosol	

Scale: 0 100 200 400 600 Metres

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Coordinate System: GDA 2020 MGA Zone 55

Date: 30 January 2026

Soils

100 Derwent Park Road, Derwent Park, TAS 7009

Atlas of Australian Soils

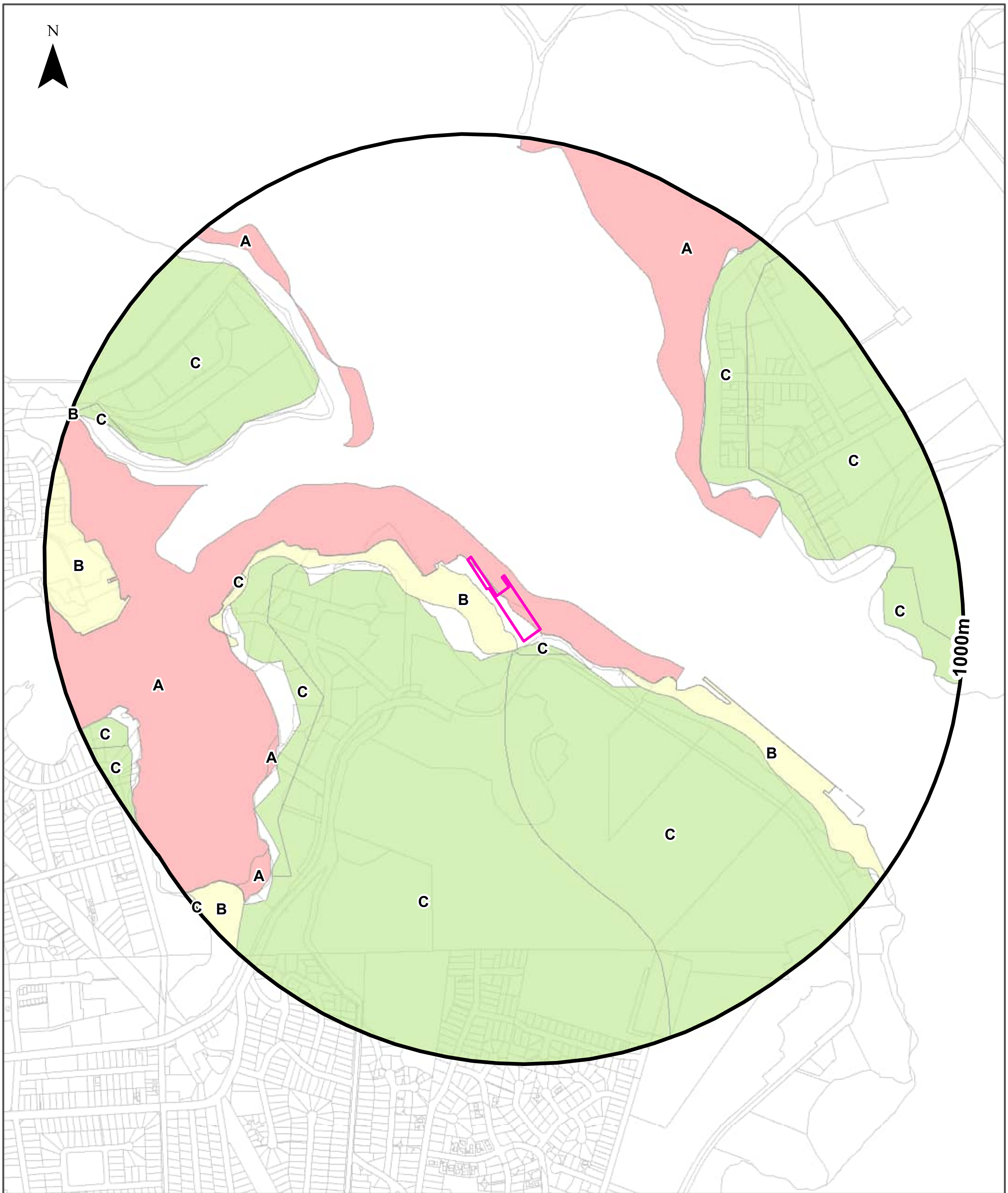
Australian soil types within the dataset buffer:

Symbol	Soil Order	Map Unit Description	Distance to Nearest Feature
Ub11	Sodosol	Coastal plains: plains of hard neutral yellow mottled soils (Dy3.42) in association with (Dy3.43), (Dy3.12), (Ug5.16), and (Uc2.33); some saline flats and marshes with undescribed soils, fringed in places along the coast by dunes, as for unit A8.	On-site

Atlas of Australian Soils: ABARES

Atlas of Australian Acid Sulfate Soils

100 Derwent Park Road, Derwent Park, TAS 7009



Legend

- Site Boundary
- Report Buffer
- Property Boundaries

Probability of occurrence of Acid Sulfate Soils

- A. High (>70%)
- B. Low (6-70%)
- C. Extremely Low (1-5%)
- D. No Chance (0%)
- No Data

Scale:
0 100 200 400 600
Metres

Data Sources: Cadastral Parcels from www.theLIST.tas.gov.au © StateofTasmania Released under CC BY Aus 3.0

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Date: 30 January 2026

Acid Sulfate Soils

100 Derwent Park Road, Derwent Park, TAS 7009

Atlas of Australian Acid Sulfate Soils

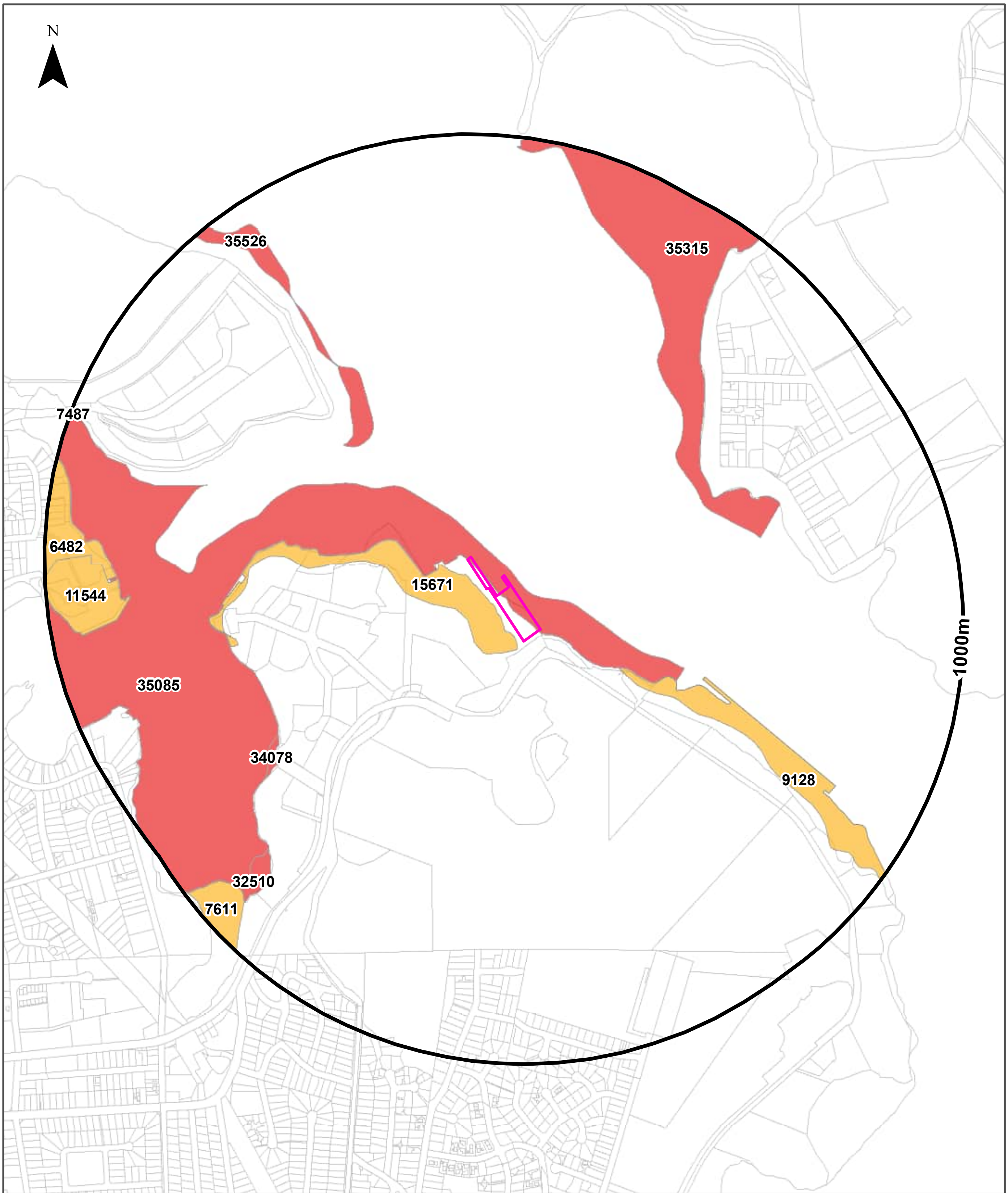
Atlas of Australian Acid Sulfate Soil categories within the dataset buffer:

Class	Description	Distance to Nearest Feature
A	High Probability of occurrence. >70% chance of occurrence.	On-site
C	Extremely low probability of occurrence. 1-5% chance of occurrence with occurrences in small localised areas.	10m
B	Low Probability of occurrence. 6-70% chance of occurrence.	11m

Atlas of Australian Acid Sulfate Soils Data Source: CSIRO

Acid Sulfate Soils

100 Derwent Park Road, Derwent Park, TAS 7009



Legend

Site Boundary

Report Buffer

Property Boundaries

Probability of occurrence of Acid Sulfate Soils

Extremely Low (1-5%)

Low (6-70%)

High (>70%)

Scale: 0 100 200 400 600 Metres

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Coordinate System: GDA 2020 MGA Zone 55

Date: 30 January 2026

Acid Sulfate Soils

100 Derwent Park Road, Derwent Park, TAS 7009

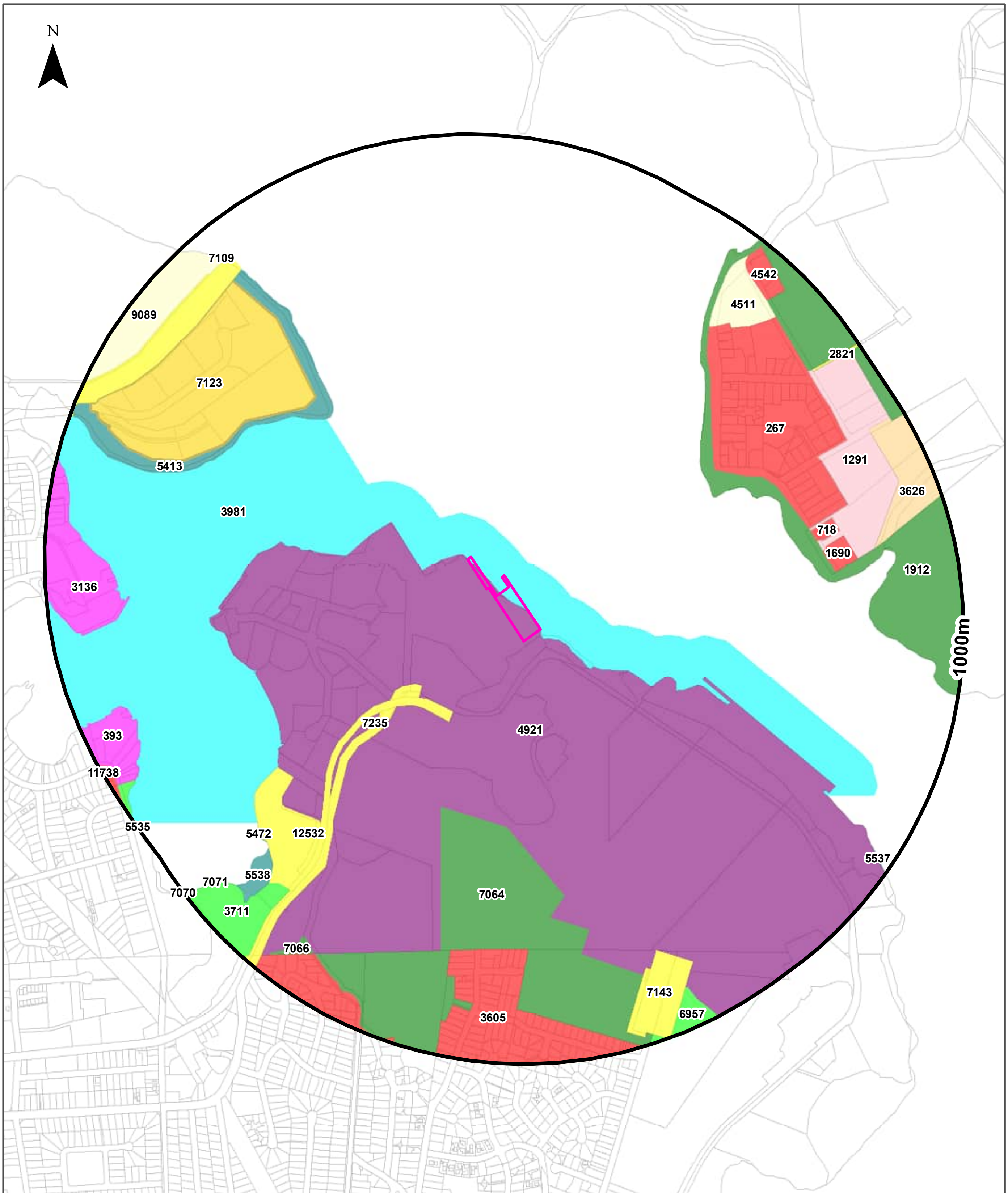
Areas of Tasmanian with Potential to Contain Acid Sulfate Soils

Coastal, inland and marine areas of Tasmania with the potential to contain acid sulfate soils, within the dataset buffer:

Map Id	Atlas Code	Probability	Total Weight	Depth Range	Distance	Direction
35085	Aa(p2)	High		0-5m	0m	On-site
15671	Bx(p3)	Low	1.5		11m	West
9128	Bx(p3)	Low	1.5		204m	South East
35526	Aa(p2)	High		0-5m	371m	West
35315	Aa(p2)	High		0-5m	484m	North
34078	Ab(p3)	High		0-5m	601m	South West
32510	Ab(p3)	High		0-5m	775m	South West
11544	Bu(p3)	Low	2		802m	West
6482	Bu(p3)	Low	2		831m	West
7611	Bf(p3)	Low	3		890m	South West
7487	Bx(p3)	Low	2.5		977m	West

Planning Zones

100 Derwent Park Road, Derwent Park, TAS 7009



Legend

- Site Boundary
- Report Buffer
- Property Boundaries

Scale: 0 100 200 400 600 Metres

Data Sources: Cadastral Parcels from www.theLIST.tas.gov.au © StateofTasmania Released under CC BY Aus 3.0

Coordinate System: GDA 2020 MGA Zone 55

Date: 30 January 2026

Planning

100 Derwent Park Road, Derwent Park, TAS 7009

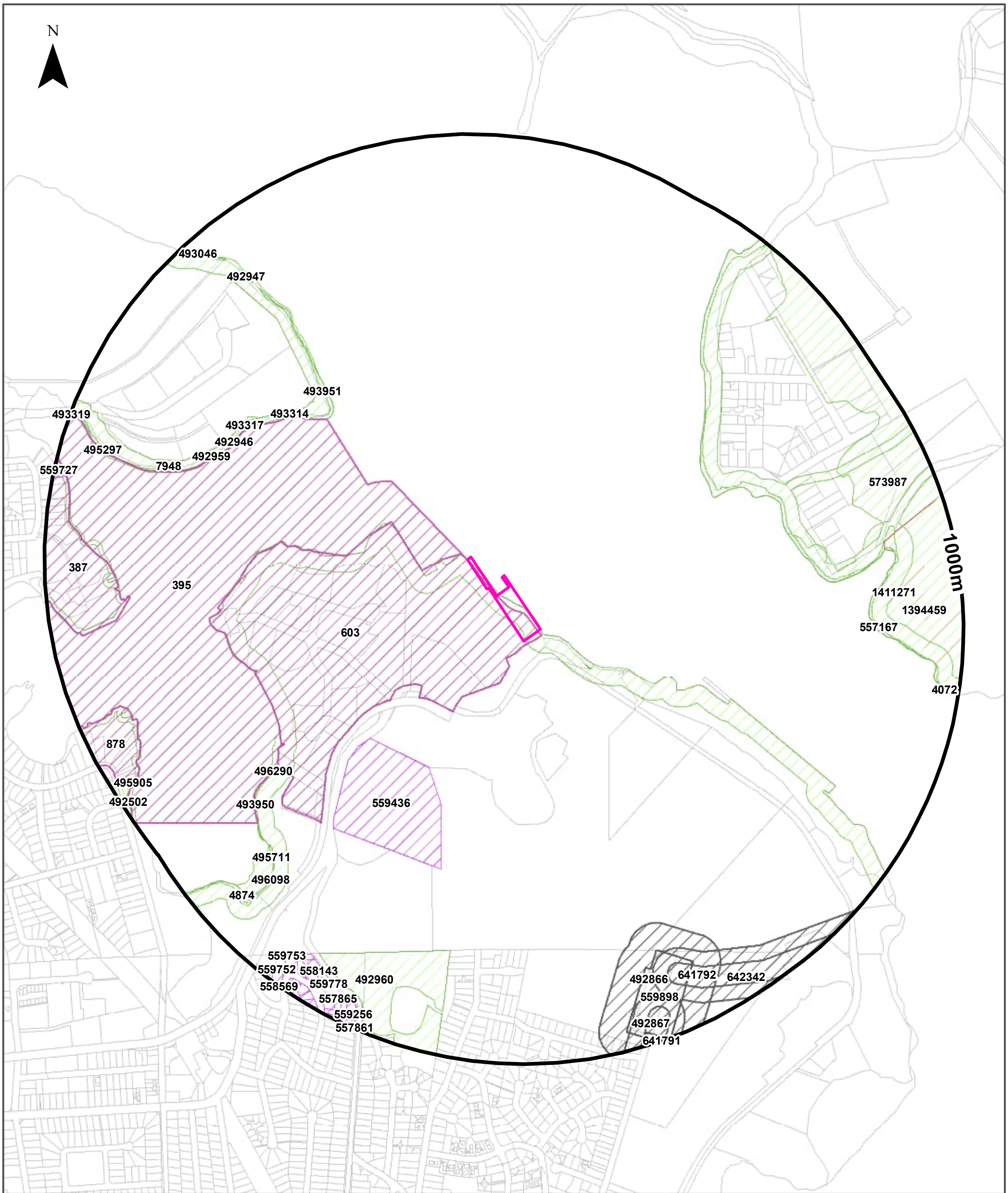
Planning Scheme Zoning

Planning Scheme Zones within the dataset buffer:

Map Id	Zone Code	Zone Name	Plan Scheme	Distance	Direction
4921	19	General Industrial	Glenorchy Local Provisions Schedule	0m	On-site
3981	25	Port and Marine	Glenorchy Local Provisions Schedule	0m	On-site
12532	26	Utilities	Glenorchy Local Provisions Schedule	236m	North West
7235	19	General Industrial	Glenorchy Local Provisions Schedule	376m	South West
7064	29	Open Space	Glenorchy Local Provisions Schedule	431m	South
5413	23	Environmental Management	Glenorchy Local Provisions Schedule	471m	North West
1912	29	Open Space	Clarence Local Provisions Schedule	513m	East
7123	31	Particular Purpose	Glenorchy Local Provisions Schedule	527m	North West
267	8	General Residential	Clarence Local Provisions Schedule	551m	North East
1291	11	Rural Living	Clarence Local Provisions Schedule	677m	North East
718	8	General Residential	Clarence Local Provisions Schedule	679m	East
1690	8	General Residential	Clarence Local Provisions Schedule	692m	East
3605	8	General Residential	Glenorchy Local Provisions Schedule	727m	South
4511	27	Community Purpose	Clarence Local Provisions Schedule	762m	North East
5472	23	Environmental Management	Glenorchy Local Provisions Schedule	762m	South West
5538	23	Environmental Management	Glenorchy Local Provisions Schedule	775m	South West
7143	26	Utilities	Glenorchy Local Provisions Schedule	793m	South
3136	18	Light Industrial	Glenorchy Local Provisions Schedule	803m	West
3711	28	Recreation	Glenorchy Local Provisions Schedule	807m	South West
3626	22	Landscape Conservation	Clarence Local Provisions Schedule	812m	East
393	18	Light Industrial	Glenorchy Local Provisions Schedule	867m	West
7066	29	Open Space	Glenorchy Local Provisions Schedule	870m	South West
2821	26	Utilities	Clarence Local Provisions Schedule	875m	East
7072	23	Environmental Management	Glenorchy Local Provisions Schedule	893m	South West
4542	8	General Residential	Clarence Local Provisions Schedule	899m	North East
6957	28	Recreation	Glenorchy Local Provisions Schedule	901m	South
9089	27	Community Purpose	Glenorchy Local Provisions Schedule	910m	West
7109	23	Environmental Management	Glenorchy Local Provisions Schedule	914m	North West
7071	23	Environmental Management	Glenorchy Local Provisions Schedule	917m	South West
5537	23	Environmental Management	Glenorchy Local Provisions Schedule	937m	South East
7069	23	Environmental Management	Glenorchy Local Provisions Schedule	959m	South West
11738	8	General Residential	Glenorchy Local Provisions Schedule	975m	West
7070	23	Environmental Management	Glenorchy Local Provisions Schedule	995m	South West
5535	23	Environmental Management	Glenorchy Local Provisions Schedule	995m	South West

Planning Overlays

100 Derwent Park Road, Derwent Park, TAS 7009



Legend

- Site Boundary
- Report Buffer
- Property Boundaries

Scale: 0 100 200 400 600 Metres

Data Sources: Cadastral Parcels from www.theLIST.tas.gov.au © StateofTasmania Released under CC BY Aus 3.0

Coordinate System: GDA 2020 MGA Zone 55

Date: 30 January 2026

Planning

100 Derwent Park Road, Derwent Park, TAS 7009

Planning Scheme Overlays

Planning Scheme Overlays within the dataset buffer:

Map Id	Overlay Code	Overlay Name	Plan Scheme	Description	Class	Distance	Direction
603	1	Local Area Objectives	Glenorchy Local Provisions Schedule	General Industrial Local Objective Overlay Area		0m	On-site
7948	Natural Assets Code	Waterway and coastal protection area	Glenorchy Local Provisions Schedule	Alterations of electronic planning map made under s.80O of LUPAA		0m	On-site
395	1	Local Area Objectives	Glenorchy Local Provisions Schedule	Port and Marine Local Objective Overlay Area		21m	West
559436	Local Historical Heritage Code	Local heritage place	Glenorchy Local Provisions Schedule	heritage place and place listed on Tasmanian Heritage Register,REF_NO: 0137, THR_REF: 1614		373m	South West
493951	Natural Assets Code	Future coastal refugia area	Glenorchy Local Provisions Schedule			471m	North West
557167	Natural Assets Code	Future coastal refugia area	Clarence Local Provisions Schedule	Alterations of electronic planning map made under s.80O of LUPAA		513m	North East
1411271	Natural Assets Code	Waterway and coastal protection area	Clarence Local Provisions Schedule	Alterations of electronic planning map made under s.80O of LUPAA		513m	North East
493314	Natural Assets Code	Priority vegetation area	Glenorchy Local Provisions Schedule			527m	North West
493317	Natural Assets Code	Priority vegetation area	Glenorchy Local Provisions Schedule			588m	North West
492946	Natural Assets Code	Future coastal refugia area	Glenorchy Local Provisions Schedule			618m	North West
573987	Natural Assets Code	Priority vegetation area	Clarence Local Provisions Schedule	Data source - Entura. Alterations of electronic planning map made under s.80O of LUPAA		626m	East
492959	Natural Assets Code	Priority vegetation area	Glenorchy Local Provisions Schedule			637m	North West
496290	Natural Assets Code	Future coastal refugia area	Glenorchy Local Provisions Schedule			646m	South West
493937	Natural Assets Code	Future coastal refugia area	Glenorchy Local Provisions Schedule			671m	West
493950	Natural Assets Code	Future coastal refugia area	Glenorchy Local Provisions Schedule			684m	South West
492866	Electricity Transmission Infrastructure Protection Code	Substation facility buffer area	Glenorchy Local Provisions Schedule			729m	South
492960	Natural Assets Code	Priority vegetation area	Glenorchy Local Provisions Schedule			750m	South
495711	Natural Assets Code	Future coastal refugia area	Glenorchy Local Provisions Schedule			768m	South West
1394459	Potentially Contaminated Land Code	Potentially contaminated land	Clarence Local Provisions Schedule	Historic Lime Stone Quarry/Fertiliser Plant/Zinc Smelter Soil Contamination		777m	East
559898	Local Historical Heritage Code	Local heritage place	Glenorchy Local Provisions Schedule	heritage place,REF_NO: 0425, THR_REF:		793m	South
492867	Electricity Transmission Infrastructure Protection Code	Substation facility	Glenorchy Local Provisions Schedule			794m	South
387	1	Local Area Objectives	Glenorchy Local Provisions Schedule	Light Industrial Local Objective Overlay Area		803m	West
642342	Electricity Transmission Infrastructure Protection Code	Electricity transmission corridor	Glenorchy Local Provisions Schedule			804m	South
496098	Natural Assets Code	Future coastal refugia area	Glenorchy Local Provisions Schedule			808m	South West
4874	Natural Assets Code	Future coastal refugia area	Glenorchy Local Provisions Schedule			827m	South West
492947	Natural Assets Code	Future coastal refugia area	Glenorchy Local Provisions Schedule			830m	North West

Map Id	Overlay Code	Overlay Name	Plan Scheme	Description	Class	Distance	Direction
641792	Electricity Transmission Infrastructure Protection Code	Inner protection area	Glenorchy Local Provisions Schedule			839m	South East
495297	Natural Assets Code	Future coastal refugia area	Glenorchy Local Provisions Schedule			862m	West
878	1	Local Area Objectives	Glenorchy Local Provisions Schedule	Light Industrial Local Objective Overlay Area		867m	West
559948	Local Historical Heritage Code	Local heritage place	Glenorchy Local Provisions Schedule	heritage place,REF_NO: 0022, THR_REF:		893m	South West
559287	Local Historical Heritage Code	Local heritage place	Glenorchy Local Provisions Schedule	heritage place,REF_NO: 0023, THR_REF:		899m	South West
558143	Local Historical Heritage Code	Local heritage place	Glenorchy Local Provisions Schedule	heritage place,REF_NO: 0024, THR_REF:		906m	South West
493046	Natural Assets Code	Future coastal refugia area	Glenorchy Local Provisions Schedule			910m	North West
559753	Local Historical Heritage Code	Local heritage place	Glenorchy Local Provisions Schedule	heritage place,REF_NO: 0066, THR_REF:		912m	South West
559778	Local Historical Heritage Code	Local heritage place	Glenorchy Local Provisions Schedule	heritage place,REF_NO: 0025, THR_REF:		914m	South West
641791	Electricity Transmission Infrastructure Protection Code	Inner protection area	Glenorchy Local Provisions Schedule			918m	South
558297	Local Historical Heritage Code	Local heritage place	Glenorchy Local Provisions Schedule	heritage place,REF_NO: 0065, THR_REF:		918m	South West
559729	Local Historical Heritage Code	Local heritage place	Glenorchy Local Provisions Schedule	heritage place,REF_NO: 0064, THR_REF:		922m	South West
4072	Natural Assets Code	Future coastal refugia area	Clarence Local Provisions Schedule	Alterations of electronic planning map made under s.80O of LUPAA		934m	East
557865	Local Historical Heritage Code	Local heritage place	Glenorchy Local Provisions Schedule	heritage place,REF_NO: 0026, THR_REF:		940m	South West
495905	Natural Assets Code	Future coastal refugia area	Glenorchy Local Provisions Schedule			940m	South West
559448	Local Historical Heritage Code	Local heritage place	Glenorchy Local Provisions Schedule	heritage place,REF_NO: 0027, THR_REF:		941m	South West
559445	Local Historical Heritage Code	Local heritage place	Glenorchy Local Provisions Schedule	heritage place,REF_NO: 0028, THR_REF:		943m	South
558301	Local Historical Heritage Code	Local heritage place	Glenorchy Local Provisions Schedule	heritage place,REF_NO: 0055, THR_REF:		946m	South West
559293	Local Historical Heritage Code	Local heritage place	Glenorchy Local Provisions Schedule	heritage place,REF_NO: 0054, THR_REF:		962m	South West
559256	Local Historical Heritage Code	Local heritage place	Glenorchy Local Provisions Schedule	heritage place,REF_NO: 0029, THR_REF:		962m	South
558141	Local Historical Heritage Code	Local heritage place	Glenorchy Local Provisions Schedule	heritage place,REF_NO: 0060, THR_REF:		963m	South West
558831	Local Historical Heritage Code	Local heritage place	Glenorchy Local Provisions Schedule	heritage place,REF_NO: 0061, THR_REF:		964m	South West
559752	Local Historical Heritage Code	Local heritage place	Glenorchy Local Provisions Schedule	heritage place,REF_NO: 0068, THR_REF:		967m	South West
559280	Local Historical Heritage Code	Local heritage place	Glenorchy Local Provisions Schedule	heritage place,REF_NO: 0059, THR_REF:		968m	South West
492502	Natural Assets Code	Future coastal refugia area	Glenorchy Local Provisions Schedule			968m	South West
560691	Local Historical Heritage Code	Local heritage place	Glenorchy Local Provisions Schedule	heritage place and place listed on Tasmanian Heritage Register,REF_NO: 0071, THR_REF:1614		970m	South West
559727	Local Historical Heritage Code	Local heritage place	Glenorchy Local Provisions Schedule	heritage place,REF_NO: 0416, THR_REF:		971m	West
559929	Local Historical Heritage Code	Local heritage place	Glenorchy Local Provisions Schedule	heritage place,REF_NO: 0053, THR_REF:		973m	South West
558856	Local Historical Heritage Code	Local heritage place	Glenorchy Local Provisions Schedule	heritage place,REF_NO: 0058, THR_REF:		979m	South West
559289	Local Historical Heritage Code	Local heritage place	Glenorchy Local Provisions Schedule	heritage place,REF_NO: 0069, THR_REF:		980m	South West
559908	Local Historical Heritage Code	Local heritage place	Glenorchy Local Provisions Schedule	heritage place,REF_NO: 0030, THR_REF:		980m	South
559440	Local Historical Heritage Code	Local heritage place	Glenorchy Local Provisions Schedule	heritage place,REF_NO: 0062, THR_REF:		984m	South West
558548	Local Historical Heritage Code	Local heritage place	Glenorchy Local Provisions Schedule	heritage place,REF_NO: 0052, THR_REF:		987m	South West
560057	Local Historical Heritage Code	Local heritage place	Glenorchy Local Provisions Schedule	heritage place,REF_NO: 0057, THR_REF:		992m	South West

Map Id	Overlay Code	Overlay Name	Plan Scheme	Description	Class	Distance	Direction
558569	Local Historical Heritage Code	Local heritage place	Glenorchy Local Provisions Schedule	heritage place,REF_NO: 0157, THR_REF:		993m	South West
558303	Local Historical Heritage Code	Local heritage place	Glenorchy Local Provisions Schedule	heritage place,REF_NO: 0063, THR_REF:		994m	South West
493319	Natural Assets Code	Priority vegetation area	Glenorchy Local Provisions Schedule			995m	North West
557861	Local Historical Heritage Code	Local heritage place	Glenorchy Local Provisions Schedule	heritage place,REF_NO: 0031, THR_REF:		996m	South

Natural Hazards - Flood

100 Derwent Park Road, Derwent Park, TAS 7009

Legend

- Site Boundary
- Report Buffer
- Property Boundaries
- Flood Prone Area

Scale:
0 100 200 400 600
Metres

Data Sources: Cadastral Parcels from www.theLIST.tas.gov.au © StateofTasmania Released under CC BY Aus 3.0

Coordinate System: GDA 2020 MGA Zone 55

Date: 30 January 2026

Natural Hazards

100 Derwent Park Road, Derwent Park, TAS 7009

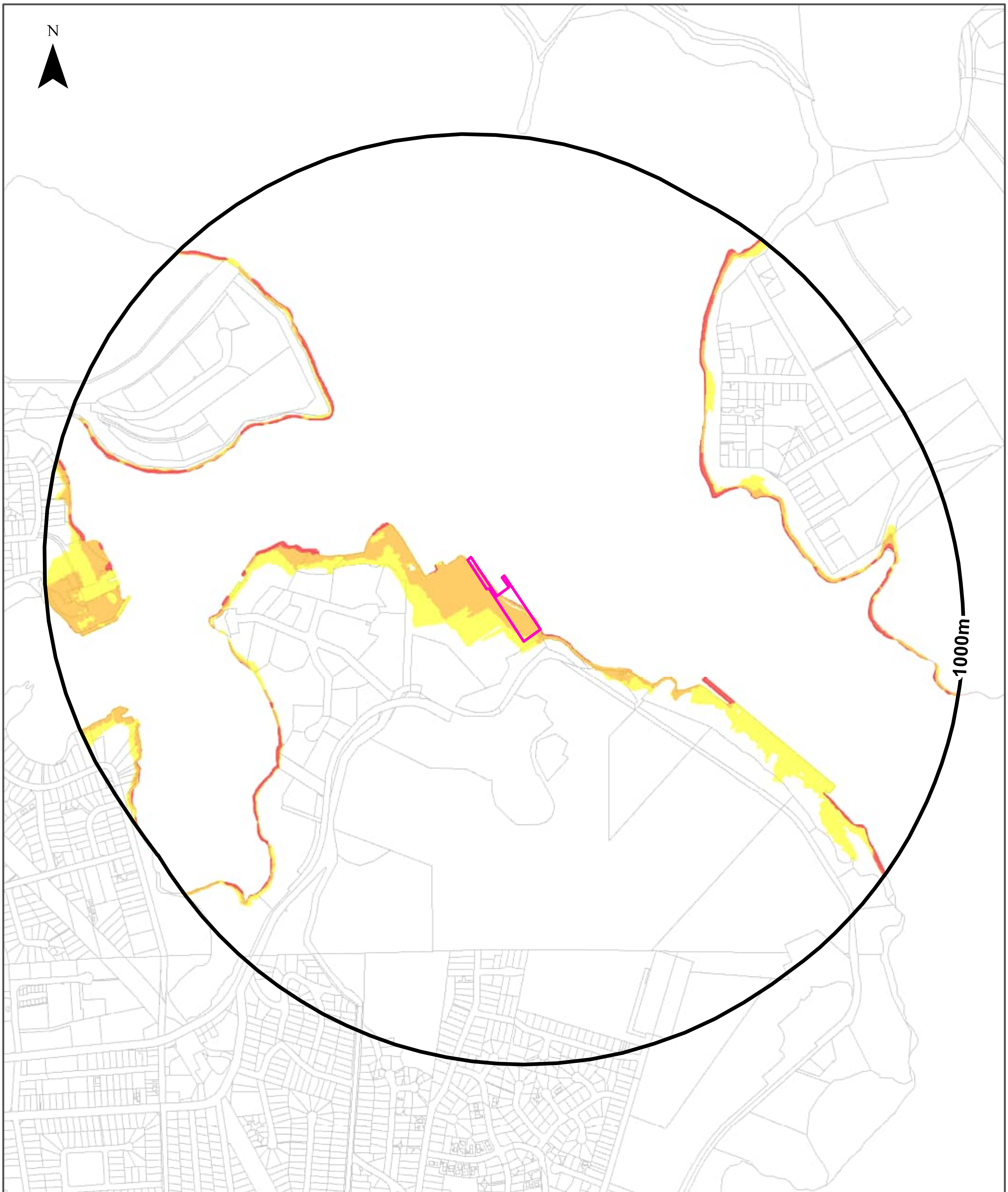
Planning Scheme Overlays - Flood

Planning Scheme Flood Overlays within the dataset buffer:

Overlay Code	Overlay Name	Plan Scheme	Description	Class	Distance to Nearest Feature
Flood-prone Hazard Areas Code	Flood-prone areas	Glenorchy Local Provisions Schedule			15m
Flood-prone Hazard Areas Code	Flood-prone areas	Clarence Local Provisions Schedule	Amendment PDPSAMEND-2021-022806. Alterations of electronic planning map made under s.80O of LUPAA		513m
Flood-prone Hazard Areas Code	Flood-prone areas	Clarence Local Provisions Schedule	Amendment reference: PDPSAMEND-2021-022806		600m

Natural Hazards - Coastal Inundation

100 Derwent Park Road, Derwent Park, TAS 7009



Legend

- Site Boundary
- Report Buffer
- Property Boundaries

Coastal Inundation Hazard Areas

- Coastal Inundation Hazard Area
- Coastal Inundation Investigation Area
- High Coastal Inundation Hazard
- Medium Coastal Inundation Hazard
- Low Coastal Inundation Hazard
- Non LiDAR < 10m

Scale: 0 100 200 400 600 Metres

Data Sources: Cadastral Parcels from www.theLIST.tas.gov.au © StateofTasmania Released under CC BY Aus 3.0

Coordinate System: GDA 2020 MGA Zone 55

Date: 30 January 2026

Natural Hazards

100 Derwent Park Road, Derwent Park, TAS 7009

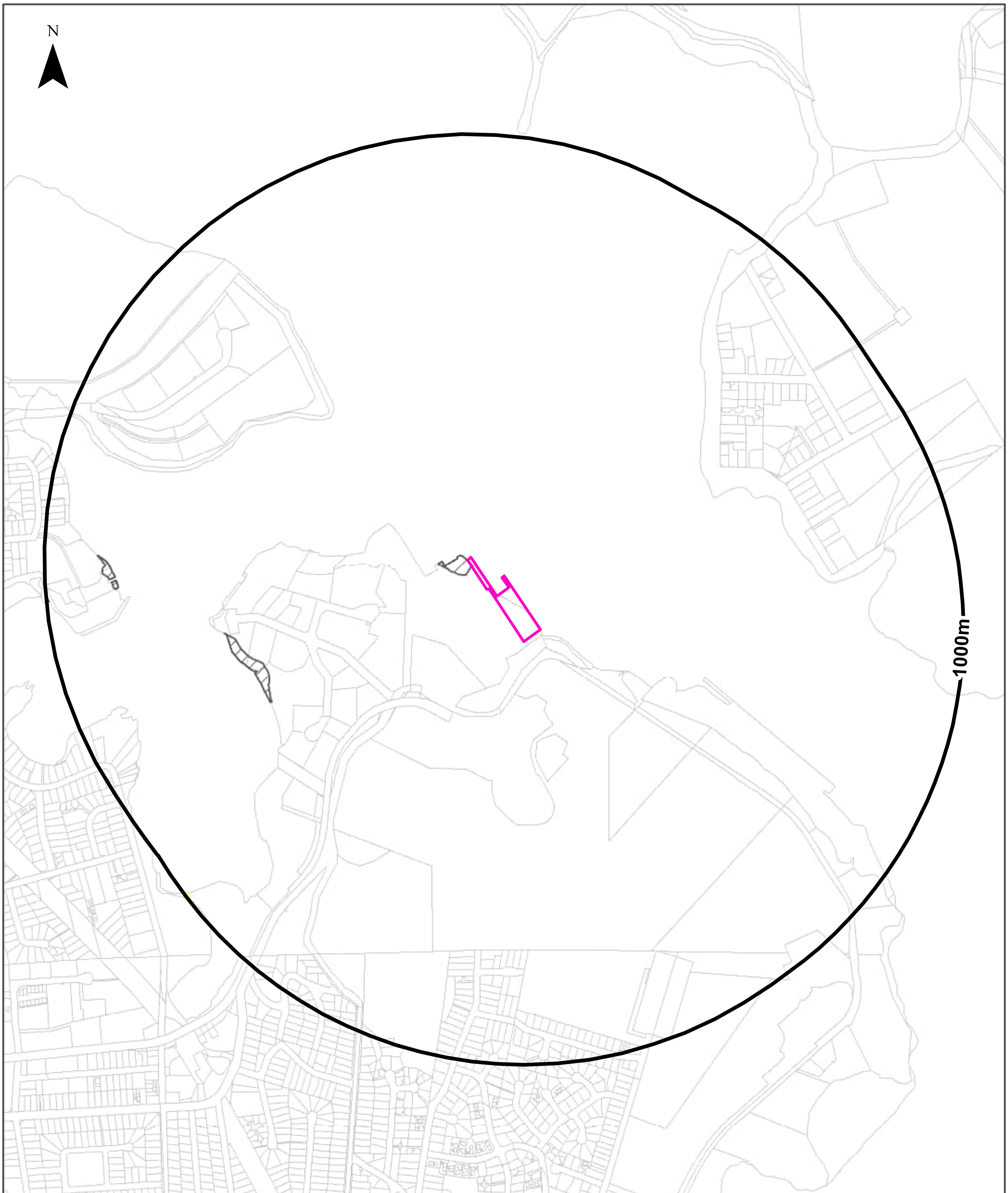
Planning Scheme Overlays - Coastal Inundation

Planning Scheme Coastal Inundation Overlays within the dataset buffer:

Overlay Code	Overlay Name	Plan Scheme	Description	Class	Distance to Nearest Feature
Coastal Inundation Hazard Code	High coastal inundation hazard band	Glenorchy Local Provisions Schedule		High coastal inundation hazard band	On-site
Coastal Inundation Hazard Code	Low coastal inundation hazard band	Glenorchy Local Provisions Schedule		Low coastal inundation hazard band	On-site
Coastal Inundation Hazard Code	Medium coastal inundation hazard band	Glenorchy Local Provisions Schedule		Medium coastal inundation hazard band	On-site
Coastal Inundation Hazard Code	High coastal inundation hazard band	Clarence Local Provisions Schedule	Alterations of electronic planning map made under s.80O of LUPAA		513m
Coastal Inundation Hazard Code	Medium coastal inundation hazard band	Clarence Local Provisions Schedule			522m
Coastal Inundation Hazard Code	Low coastal inundation hazard band	Clarence Local Provisions Schedule			525m
Coastal Inundation Hazard Code	High coastal inundation hazard band	Clarence Local Provisions Schedule	Data source - DPAC		547m
Coastal Inundation Hazard Code	Medium coastal inundation hazard band	Clarence Local Provisions Schedule	Data source - DPAC		549m
Coastal Inundation Hazard Code	Low coastal inundation hazard band	Clarence Local Provisions Schedule	Data source - DPAC		564m
Coastal Inundation Hazard Code	Medium coastal inundation hazard band	Clarence Local Provisions Schedule	Alterations of electronic planning map made under s.80O of LUPAA		628m
Coastal Inundation Hazard Code	Low coastal inundation hazard band	Clarence Local Provisions Schedule	Alterations of electronic planning map made under s.80O of LUPAA		843m

Natural Hazards - Coastal Erosion

100 Derwent Park Road, Derwent Park, TAS 7009



Legend

- Site Boundary
- Report Buffer
- Property Boundaries

Coastal Erosion Hazard Areas

- Coastal Erosion Hazard
- Coastal Erosion Investigation Area
- High Coastal Erosion Hazard
- Medium Coastal Erosion Hazard
- Low Coastal Erosion Hazard

Scale: 0 100 200 400 600 Metres

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Coordinate System: GDA 2020 MGA Zone 55

Date: 30 January 2026

Natural Hazards

100 Derwent Park Road, Derwent Park, TAS 7009

Planning Scheme Overlays - Coastal Erosion

Planning Scheme Coastal Erosion Overlays within the dataset buffer:

Overlay Code	Overlay Name	Plan Scheme	Description	Class	Distance to Nearest Feature
Coastal Erosion Hazard Code	Coastal erosion investigation area	Glenorchy Local Provisions Schedule		Coastal erosion investigati on area	On-site
Coastal Erosion Hazard Code	Low coastal erosion hazard band	Glenorchy Local Provisions Schedule		Low coastal erosion hazard band	992m

Natural Hazards - Landslide

100 Derwent Park Road, Derwent Park, TAS 7009

Legend

- Site Boundary
- Report Buffer
- Property Boundaries

Landslide Hazard Areas

- High Landslide Hazard
- Medium-Active Landslide Hazard
- Medium Landslide Hazard
- Low Landslide Hazard
- Landslide Hazard Area

Scale: 0 100 200 400 600 Metres

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Coordinate System: GDA 2020 MGA Zone 55

Date: 30 January 2026

Natural Hazards

100 Derwent Park Road, Derwent Park, TAS 7009

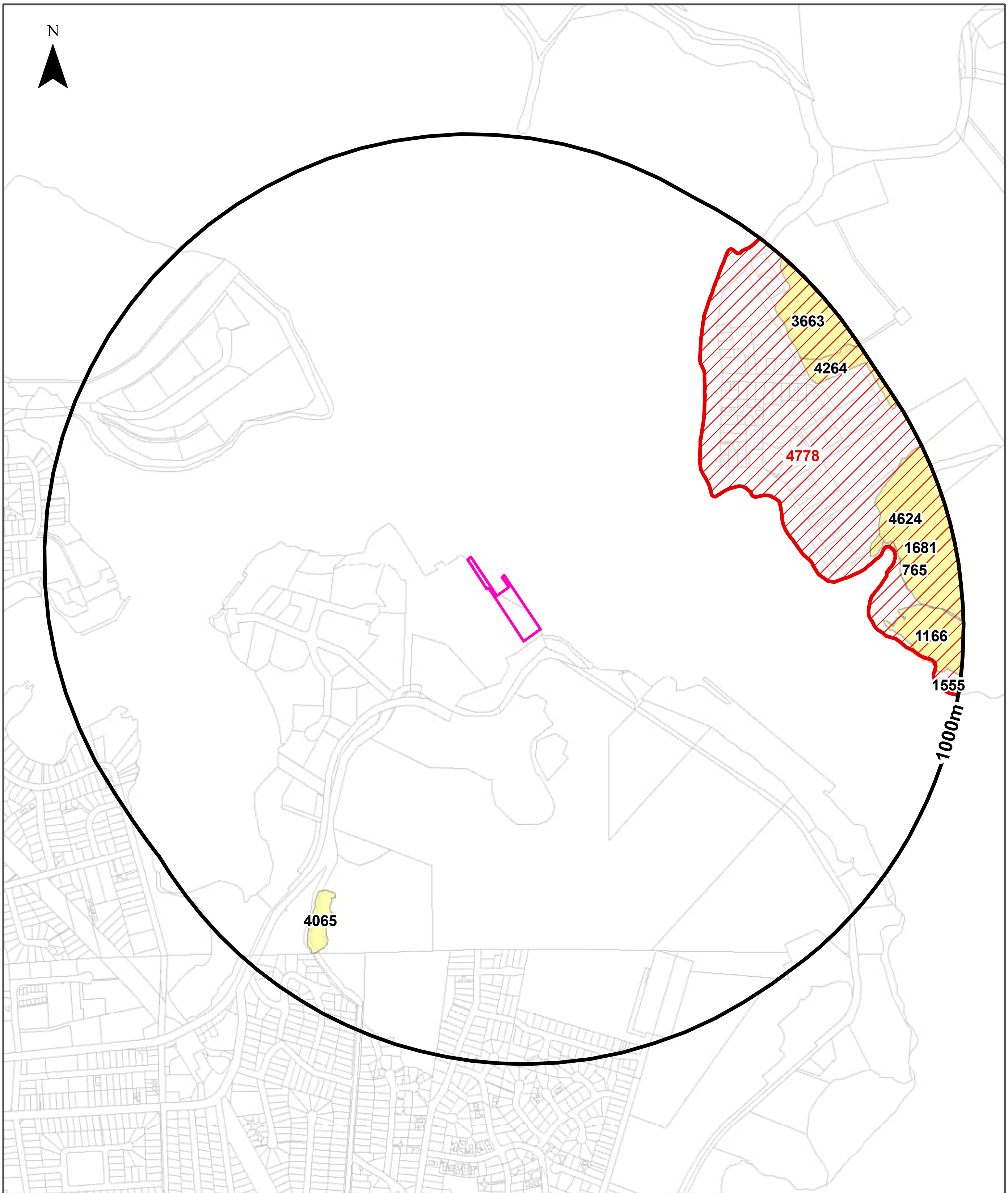
Planning Scheme Overlays - Landslide

Planning Scheme Landslide Overlays within the dataset buffer:

Overlay Code	Overlay Name	Plan Scheme	Description	Class	Distance to Nearest Feature
Landslip Hazard Code	Medium landslip hazard band	Glenorchy Local Provisions Schedule			8m
Landslip Hazard Code	Low landslip hazard band	Glenorchy Local Provisions Schedule			637m
Landslip Hazard Code	Medium landslip hazard band	Clarence Local Provisions Schedule			702m

Natural Hazards - Bushfire

100 Derwent Park Road, Derwent Park, TAS 7009



Legend

- Site Boundary
- Report Buffer
- Property Boundaries
- Bushfire Prone Areas

Bushfire History - Fire Severity

- High
- Moderate
- Medium
- Low-Medium
- Low
- No Severity Provided

Scale: 0 100 200 400 600 Metres

Data Sources: Cadastral Parcels from www.theLIST.tas.gov.au © StateofTasmania Released under CC BY Aus 3.0

Coordinate System: GDA 2020 MGA Zone 55

Date: 30 January 2026

Natural Hazards

100 Derwent Park Road, Derwent Park, TAS 7009

Planning Scheme Overlays - Bushfire

Planning Scheme Bushfire Overlays within the dataset buffer:

Map Id	Overlay Code	Overlay Name	Plan Scheme	Description	Class	Distance	Direction
4778	Bushfire-prone Areas Code	Bushfire-prone areas	Clarence Local Provisions Schedule	Alterations of electronic planning map made under s.80O of LUPAA		513m	North East

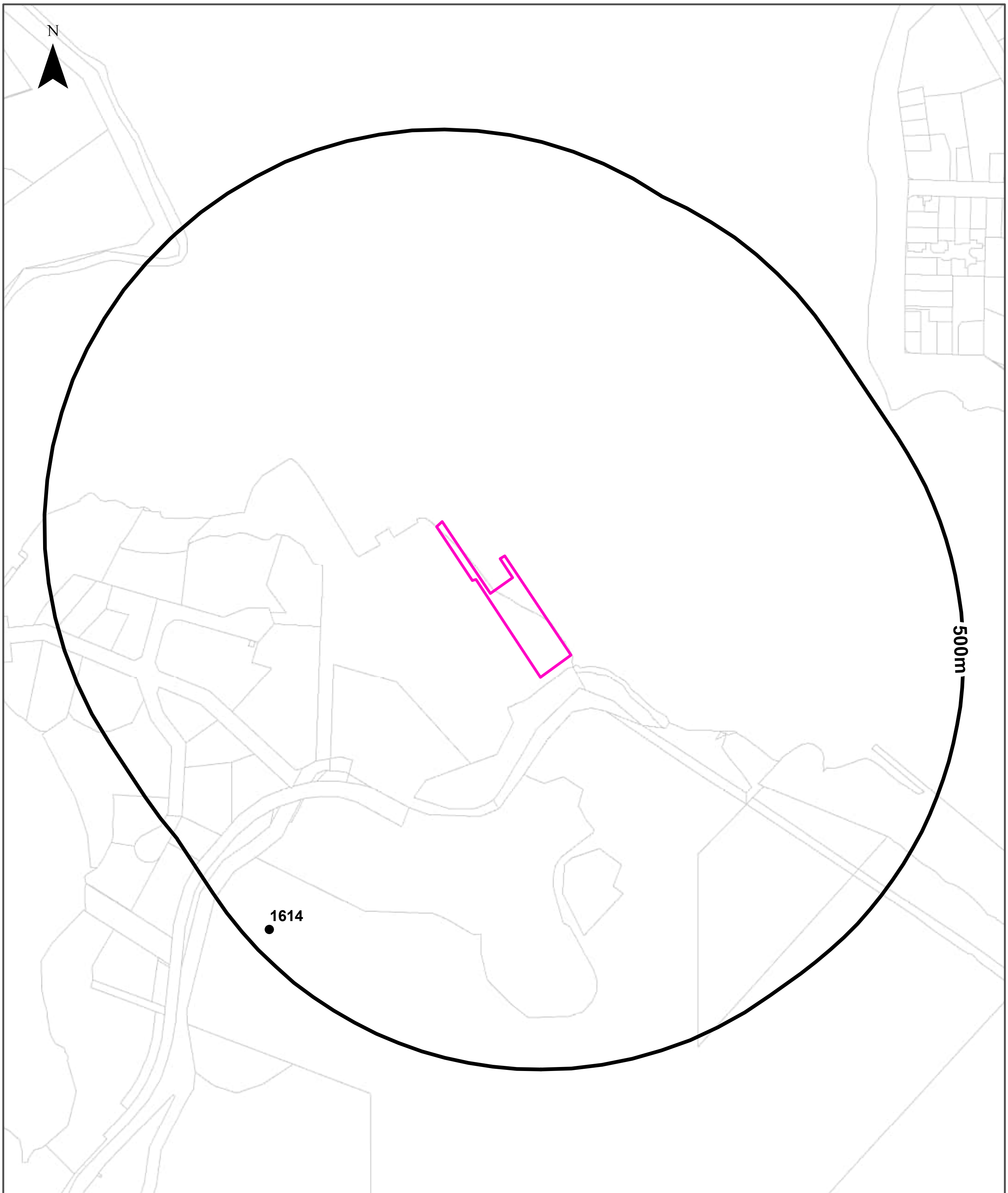
Bushfire History

Bushfire history within the dataset buffer:

Map Id	Fire Name	Fire Type	Ignition Date	Severity	Incident Number	Distance	Direction
4065	Bender Drive	Bushfire	2015-03-22		226926	743m	South West
765	Risdon NR	Bushfire	1994-03-09		1602	797m	East
1681	Porter Bay (East Risdon)	Bushfire	2001-01-28		1604	797m	East
1166	East Risdon #2	Bushfire	2003-03-18		1608	810m	East
4624	Porter Bay ERSR5AP	Planned Burn	2018-03-03		ERSR5AP	832m	East
4264	Gregson Street ERCL2AP	Planned Burn	2014-09-24		ERCL2AP	859m	North East
3663	Church Point Road ERCLIAP	Planned Burn	2014-03-27		ERCLIAP	868m	North East
1555	Tommy's Bight (East Risdon)	Bushfire	2002-02-04		1602	957m	East
1724	Saundersons Rd Risdon	Bushfire	2012-01-10		190332	964m	East

Heritage

100 Derwent Park Road, Derwent Park, TAS 7009



Legend

- Site Boundary
- Report Buffer
- Property Boundaries
- Heritage Register
- National Heritage List
- Commonwealth Heritage List
- Aboriginal Land

Scale:
0 100 200
Metres

Data Sources: Cadastral Parcels from www.theLIST.tas.gov.au © StateofTasmania Released under CC BY Aus 3.0

Coordinate System:
GDA 2020 MGA Zone 55

Date: 30 January 2026

Heritage

100 Derwent Park Road, Derwent Park, TAS 7009

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
N/A	No records in buffer							

National Heritage List

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

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

Tasmanian Heritage Register

Tasmanian Heritage Register sites within the dataset buffer:

Map Id	Name	Address	Status	CPR No	Title	Folio	Dist	Dir
1614	Derwent Park	300 RISDON RD LUTANA TAS 7009	Permanently Registered	CPR10979	128862	1	472m	South West

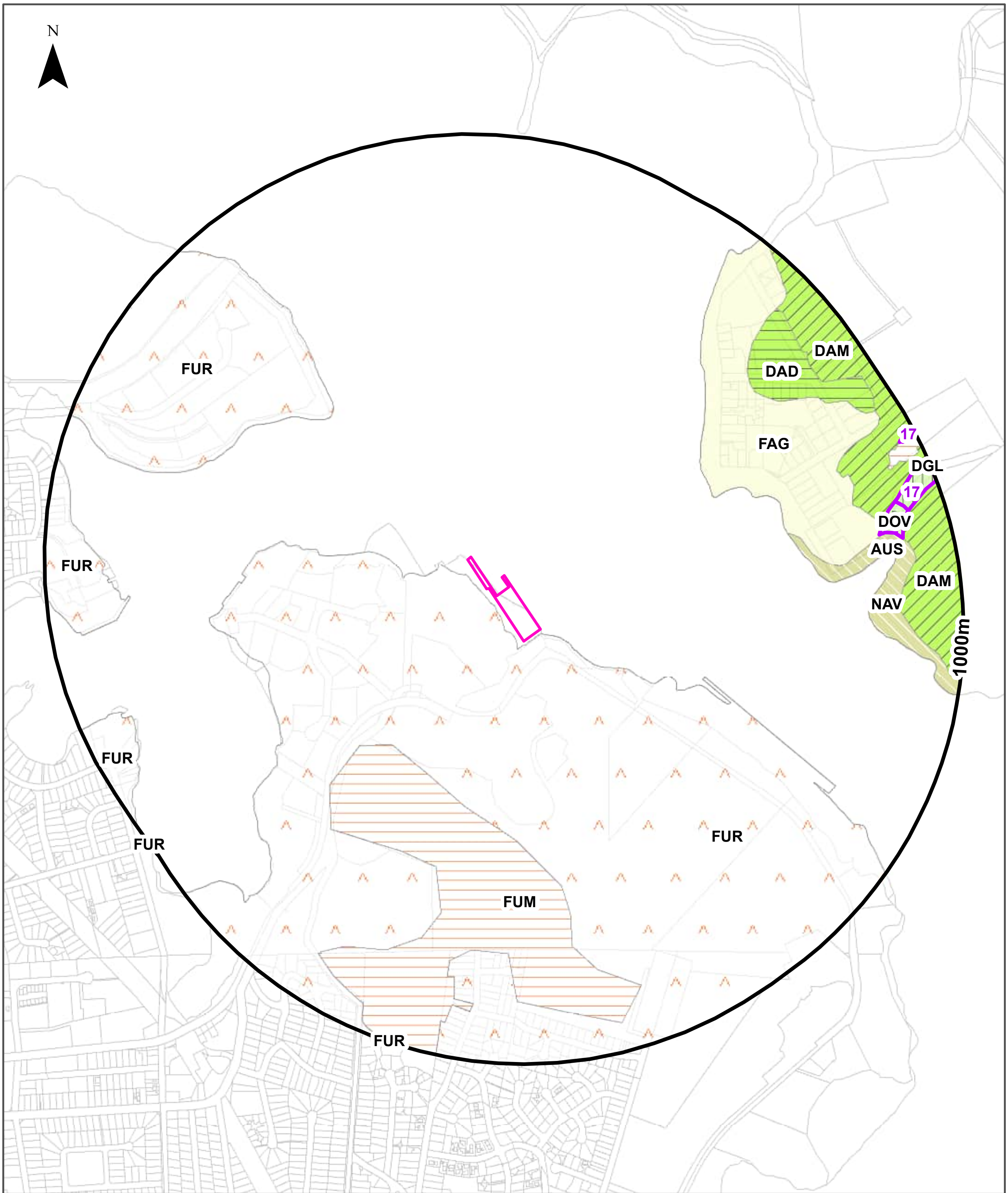
Aboriginal Land

Aboriginal land from the LIST Authority Land dataset within the dataset buffer:

Map Id	Instrument Type	Instrument No	Gazettal Date	Volume	Folio	Distance	Direction
N/A	No records in buffer						

Ecological Constraints

100 Derwent Park Road, Derwent Park, TAS 7009



Legend

- Site Boundary
- Report Buffer
- Property Boundaries
- Ramsar Wetlands
- Threatened Native Vegetation Communities

Scale: 0 100 200 400 600 Metres

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Coordinate System: GDA 2020 MGA Zone 55

Date: 30 January 2026

Ecological Constraints

100 Derwent Park Road, Derwent Park, TAS 7009

TASVEG

TASVEG vegetation units within the dataset buffer:

Vegetation Code	Vegetation Group	Description	Distance to Nearest Feature
FUR	Modified land	Urban areas	7m
FUM	Modified land	Extra-urban miscellaneous	386m
FAG	Modified land	Agricultural land	513m
NAV	Non eucalypt forest and woodland	Allocasuarina verticillata forest	626m
DAD	Dry eucalypt forest and woodland	Eucalyptus amygdalina forest and woodland on dolerite	734m
DAM	Dry eucalypt forest and woodland	Eucalyptus amygdalina forest on mudstone	793m
AUS	Saltmarsh and wetland	Saltmarsh (undifferentiated)	831m
DOV	Dry eucalypt forest and woodland	Eucalyptus ovata forest and woodland	831m
DGL	Dry eucalypt forest and woodland	Eucalyptus globulus dry forest and woodland	891m

Threatened Native Vegetation Communities

Threatened native vegetation communties within the dataset buffer:

Schedule Id	Schedule Name	Distance to Nearest Feature
20	Eucalyptus ovata forest and woodland	831m
17	Eucalyptus globulus dry forest and woodland	891m

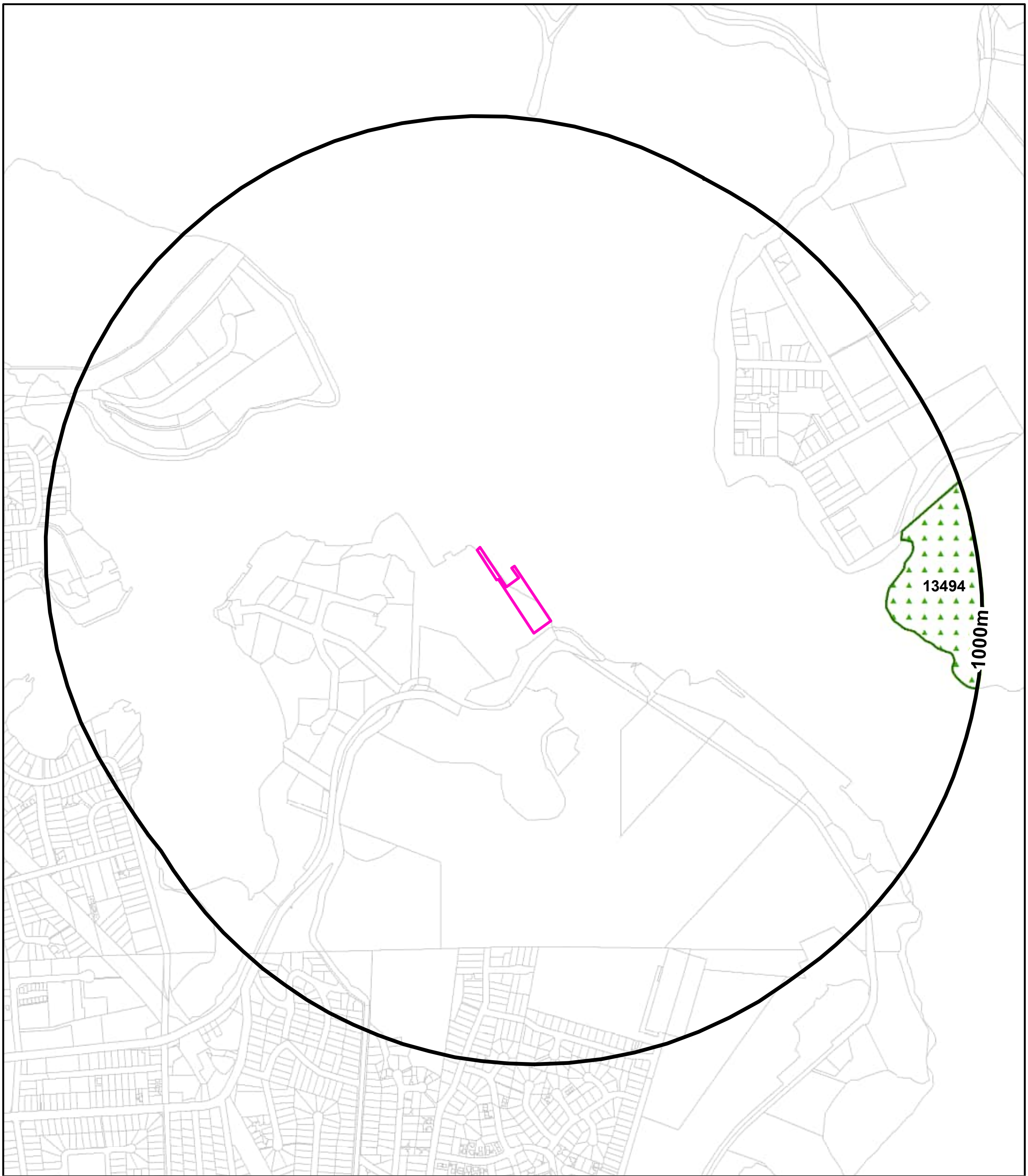
Ramsar Wetlands

Ramsar Wetlands within the dataset buffer:

Map Id	Ramsar Name	Wetland Name	Designation Date	Source	Distance	Direction
N/A	No records in buffer					

Ecological Constraints - Protected Areas

100 Derwent Park Road, Derwent Park, TAS 7009



Legend

IUCN category

Site Boundary	Strict Nature Reserve	Natural Monument or Feature	Protected area sustainable use of natural resources
Buffer 1000m	Wilderness Area	Habitat/Species Management Area	Uncategorised Protected Area
Property Boundary	National Park	Protected Landscape/Seascape	

Scale: 0 100 200 400 600 Meters	Data Sources: Cadastral Parcels from www.theLIST.tas.gov.au © StateofTasmania Released under CC BY Aus 3.0	Coordinate System: GDA 2020 MGA Zone 55	Date: 30 January 2026

Ecological Constraints

100 Derwent Park Road, Derwent Park, TAS 7009

Collaborative Australian Protected Areas Database - Terrestrial

Protected areas in terrestrial environments identified by the CAPAD within the dataset buffer:

Map ID	Area Name	Area Details	Management Category	Authority	Jurisdiction	Dist	Dir
13494	East Risdon	State Reserve	National Park	Department of Natural Resources and Environment Tasmania	State	777m	East

Collaborative Australian Protected Areas Database - Marine

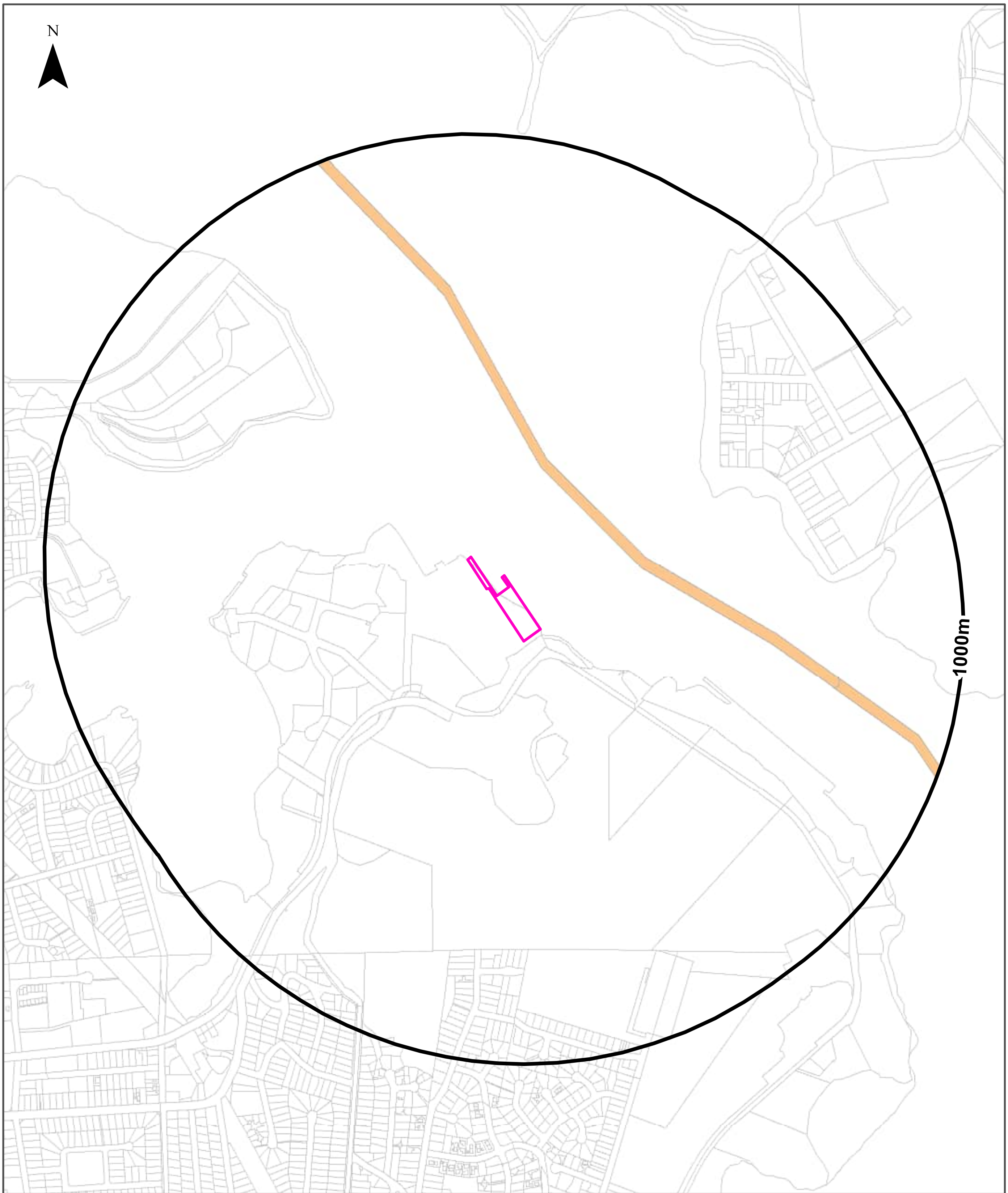
Protected areas in marine environments identified by the CAPAD within the dataset buffer:

Map ID	Area Name	Area Details	Management Category	Authority	Jurisdiction	Dist	Dir
N/A	No records in buffer						

Source: Collaborative Australian Protected Areas Database (CAPAD) 2022

Ecological Constraints - Groundwater Dependent Ecosystems Atlas

100 Derwent Park Road, Derwent Park, TAS 7009



Legend

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

Scale: 0 100 200 400 600 Metres

Data Sources: Cadastral Parcels from www.theLIST.tas.gov.au © StateofTasmania Released under CC BY Aus 3.0

Coordinate System: GDA 2020 MGA Zone 55

Date: 30 January 2026

Ecological Constraints

100 Derwent Park Road, Derwent Park, TAS 7009

Groundwater Dependent Ecosystems Atlas

GDEs within the dataset buffer:

Type	GDE Potential	Geomorphology	Ecosystem Type	Aquifer Geology	Distance to Nearest Feature
Aquatic	Moderate potential GDE - from national assessment	Fault block hills and mountains on dolerite, sandstone, and mudstone, with granite residuals, ria coast.	River		242m

Groundwater Dependent Ecosystems Atlas Data Source: The Bureau of Meteorology

Ecological Constraints - Inflow Dependent Ecosystems Likelihood

100 Derwent Park Road, Derwent Park, TAS 7009

Legend

- Site Boundary
- Report Buffer
- Property Boundaries
- NULL
- 1 (Low)
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10 (High)

Scale: 0 100 200 400 600 Metres

Data Sources: Cadastral Parcels from www.theLIST.tas.gov.au © StateofTasmania Released under CC BY Aus 3.0

Coordinate System: GDA 2020 MGA Zone 55

Date: 30 January 2026

Ecological Constraints

100 Derwent Park Road, Derwent Park, TAS 7009

Inflow Dependent Ecosystems Likelihood

IDEs within the dataset buffer:

Type	IDE Likelihood	Geomorphology	Ecosystem Type	Aquifer Geology	Distance to Nearest Feature
Aquatic	10	Fault block hills and mountains on dolerite, sandstone, and mudstone, with granite residuals, ria coast.	River		242m

Inflow Dependent Ecosystems Likelihood Data Source: The Bureau of Meteorology

Location Confidences

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
Area Match	Georeferenced to an approximate or general area
Road Match	Georeferenced to a road or rail corridor
Road Intersection	Georeferenced to a road intersection
Buffered Point	A point feature buffered to x metres
Adjacent Match	Land adjacent to a georeferenced feature
Network of Features	Georeferenced to a network of features
Suburb Match	Georeferenced to a suburb boundary
As Supplied	Spatial data supplied by provider

Click for Use of Report - Applicable Terms

Fire Services Plan

Appendix C

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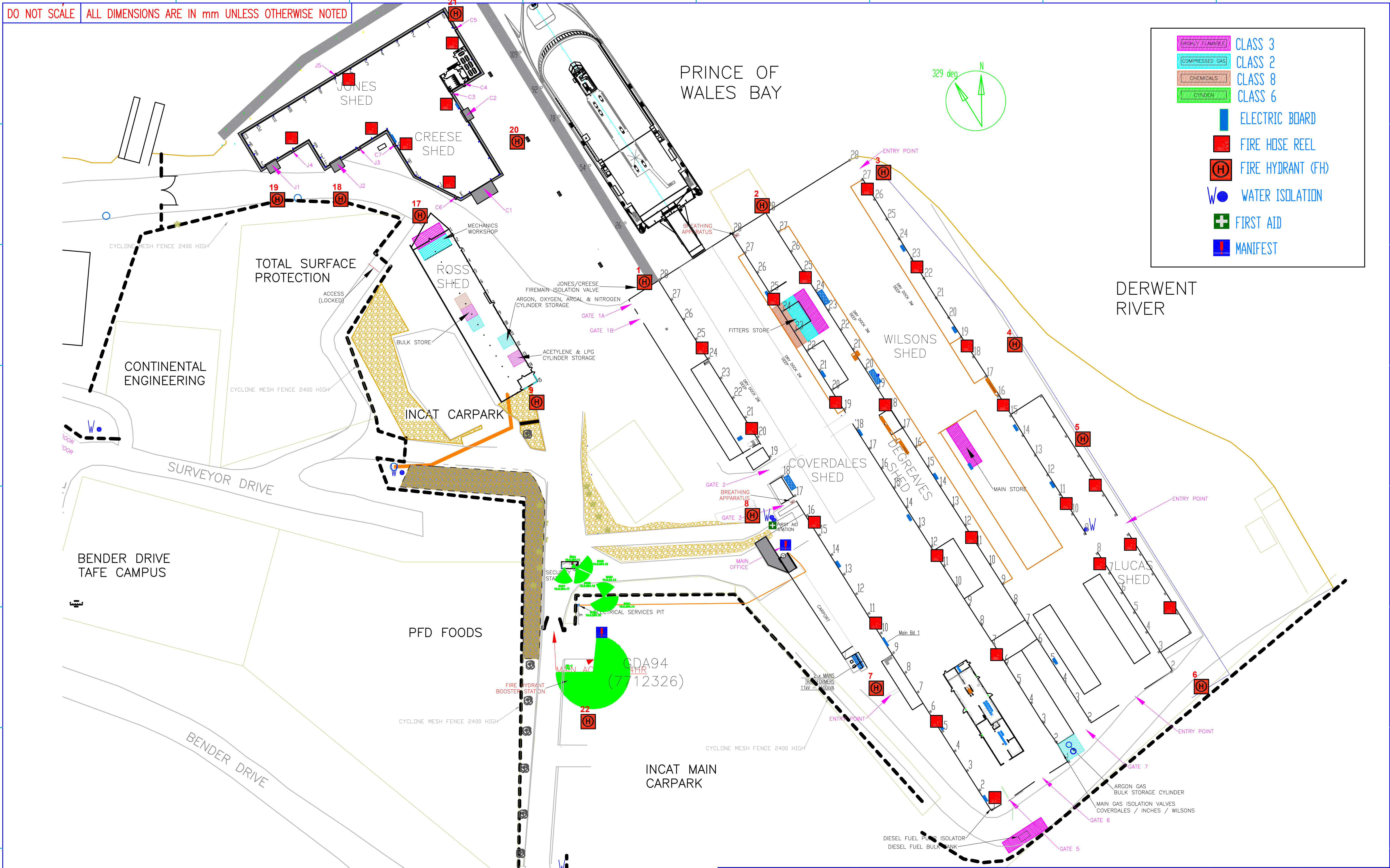

Client/ Project: INCAT	THIS DRAWING AND THE INFORMATION CONTAINED HEREON, IS SUPPLIED ON THE UNDERSTANDING THAT IT IS THE EXCLUSIVE PROPERTY OF REVOLUTION DESIGN PTY. LTD. AND MUST NOT BE USED OR REPRODUCED IN WHOLE OR IN PART, WITHOUT PERMISSION IN WRITING.	Title: AREA 1 FIRE SERVICES	Drawn: R.TURNER	Approved: J.SMITH
			Checked: J.SMITH	Date: DD/MMM/YY
revolution DESIGN PTY LTD	16 Bender Drive Moonah Tasmania 7009 Australia PHONE/ FACSIMILE +61 3 6274 1845 EMAIL revolutiondesign@revolutiondesign.com.au INTERNET www.revolutiondesign.com.au		Designed: J.S (OTHERS)	Scale: N.T.S
		SHEET 1 OF X	Drg. No. 100-DP-001-5	Rev –

DRAWING No.	TO BE READ IN CONJUNCTION WITH:	Rev	JNo	Date	Drawn	Chk	Description

B&W A2

WorkSafe Tasmania Email

Appendix D

pitt&sherry

Jeannie Stuart

From:	Fiona Keserue-Ponte
Sent:	Thursday, 12 February 2026 10:27 AM
To:	Case, Lorraine
Cc:	Maddison Mayjor
Subject:	RE: P.26.0075 DG File - 100 Derwent Pk Rd - Incat

Hi Lorraine,

Welcome back 😊 I hope you had a good break.
Thanks very much for the reply and clarification.
Warm regards,
Fiona

pitt&sherry | **Fiona Keserue-Ponte**

Senior Principal Environmental Scientist
Mobile +61 0490 942 351 | fkeseruepontе@pittsh.com.au | pittsh.com.au

From: Case, Lorraine <Lorraine.Case@justice.tas.gov.au>
Sent: Thursday, 12 February 2026 10:25 AM
To: Fiona Keserue-Ponte <FKeseruePonte@pittsh.com.au>
Subject: RE: P.26.0075 DG File - 100 Derwent Pk Rd - Incat

Hi Fiona

I'm back today – checked our general records management system and the EPA's Environmentally Relevant Land Use Register (ERLUR) and no file/s were identified for this site. We do have a dangerous substances file for Incat Tasmania at 18 Bender Drive only.

Kind regards

Lorraine Case
Information Support Officer | Business Services / Corporate Governance

WorkSafe TASMANIA

Department of Justice
30 Gordons Hill Road
Rosny Park Tasmania 7018 Australia
PO Box 56, Rosny Park TAS 7018
P: 03 6166 4656
E: WSTDisclosures@justice.tas.gov.au | **W:** worksafe.tas.gov.au

Department of Justice

Tasmanian Government

We act with Integrity Respect Accountability Our workplaces are Inclusive Collaborative

In recognition of the deep history and culture of this Island, we acknowledge Tasmanian Aboriginal people, the original and continuing Custodians of the Land, Sea and Sky. We acknowledge and pay our respects to all Tasmanian Aboriginal people, all of whom have survived invasion and dispossession, and continue to maintain their identity, culture and Aboriginal rights.

From: Fiona Keserue-Ponte <FKeseruePonte@pittsh.com.au>
Sent: Thursday, 12 February 2026 10:13 AM
To: Clifford, Amy <Amy.Clifford@justice.tas.gov.au>; Maddison Mayjor <MMayjor@pittsh.com.au>
Cc: Case, Lorraine <Lorraine.Case@justice.tas.gov.au>
Subject: RE: P.26.0075 DG File - 100 Derwent Pk Rd - Incat

Hi Amy, (or Lorraine if you are back?)
Have you had any luck with this search?
We understand there should be a file, but don't want to put in a formal request unless you can confirm there is definitely one, as we need to obtain client/landowner authorisation.
Thanks,
Fiona

pitt&sherry | **Fiona Keserue-Ponte**

Senior Principal Environmental Scientist
Mobile +61 0490 942 351 | fkeseruponte@pittsh.com.au | pittsh.com.au

---

From: Clifford, Amy <Amy.Clifford@justice.tas.gov.au>
Sent: Wednesday, 28 January 2026 12:02 PM
To: Maddison Mayjor <MMayjor@pittsh.com.au>
Cc: Fiona Keserue-Ponte <FKeseruePonte@pittsh.com.au>
Subject: RE: P.26.0075 DG File

Hi Maddy

Thanks for your email. We will investigate it and get back to you as soon as practicable.

Kind regards
Amy

Amy Clifford
Executive Officer | Office of the Executive Director

Department of Justice
30 Gordons Hill Road
ROSNY PARK TAS 7018
PO Box 56
ROSNY PARK TAS 7018
P: 03 6166 9160 (please note my new number)
E: amy.clifford@justice.tas.gov.au | **W**: worksafe.tas.gov.au

Department of Justice

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From: Maddison Mayjor <MMayjor@pittsh.com.au>
Sent: Wednesday, 28 January 2026 9:29 AM
To: Clifford, Amy <Amy.Clifford@justice.tas.gov.au>
Cc: Fiona Keserue-Ponte <FKeseruePonte@pittsh.com.au>
Subject: FW: P.26.0075 DG File

You don't often get email from mmayjor@pittsh.com.au. Learn why this is important

Good morning Amy,

I have just sent the below email off to Lorainne and have received the out of office to contact yourself!

We are currently undertaking a Site History Review for development at Incat's boat building yard at 100 Derwent Park Road, Derwent Park.

Do you have relevant information and files for this property?

Kind regards,

Maddy

pitt&sherry

Maddison Mayjor

Experienced Environmental & Planning Consultant

+61 3 6210 1412
mmayjor@pittsh.com.au

Hobart / *Nipaluna* — Level 1, Surrey House, 199 Macquarie Street
PO Box 94, Hobart TAS 7001 | Phone +61 3 62 101 453

THE PITT&SHERRY difference

Connect on LinkedIn

From: Maddison Mayjor
Sent: Wednesday, 28 January 2026 9:09 AM
To: Case, Lorraine <lorraine.case@justice.tas.gov.au>
Cc: Fiona Keserue-Ponte <FKeseruePonte@pittsh.com.au>
Subject: P.26.0075 DG File

Hi Lorraine,

I hope you are enjoying the warmer weather we have been having!

We are doing a Site History Review for development at Incat's boat building yard at 100 Derwent Park Road, Derwent Park.

Do you have a file and relevant information for this property?

Kind regards,

Maddy

pitt&sherry

Maddison Mayjor

Experienced Environmental & Planning Consultant

+61 3 6210 1412
mmayjor@pittsh.com.au

Hobart / *Nipaluna* — Level 1, Surrey House, 199 Macquarie Street
PO Box 94, Hobart TAS 7001 | Phone +61 3 62 101 453

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Site Inspection Notes

Appendix E

pitt&sherry

Environmental Site Assessment

Site Inspection Checklist

General site notes (e.g. weather, client contact name, position and years' experience on site, who is accompanying the inspection, etc.)	Site/address	100 Derwent Pk Rd
Warm & Sunny Met with Brett Gadd - Tech. Advisor Shipbuilding and John Smith - Builder. Brett has been with Incat 30 years. John has built all of the Property buildings	Project #:	P.26.0075
	Date:	3/2/2026
	p&s staff:	Fiona Keserue-Ponte CENVP SC

Item	Notes
The land	
Current uses of the ~~site~~ Property	New build - Shipyard Site area is vacant, with soil piles
Current uses of the surrounding land	Carparking west East - River Derwent South - all industrial Northwest - Industrial
Vegetation extent and type	None
Topography in relation to surrounding areas	Lower - on reclaimed land Steep/tall rock cutting on west & South boundaries
Slope (position on slope, direction)	Level site
Surface water drainage	To river and through unsealed ground

Item	Notes
Evidence of cut and fill activities	Yes - steep embankment on west & south boundaries. Entire Property is on reclaimed land
Presence of pits, pond or lagoons	~~There are grated stormwater pits, no other ponds, pits or lagoons on the site.~~ There is a large pond on the adjacent property to the ~~east~~ South west
Signs of erosion	~~Minor gravel erosion is apparent from the site to the north which has an unsealed gravel hardstand which is higher than the site forecourt and gravel erodes onto the forecourt and risks blocking the stormwater drains~~ Yes - there was a sediment plume adjacent to the site due to placement of new fill
Buildings	
Details of buildings - age, occupancy	Metal sheds on slabs, 1997 – 2014 Approx, shipbuilding workforce
Building construction (frame, openings and height)	" " " " Large openings at either end
Building construction (slab on ground or other, presence or absence of crawl spaces and basements)	as above, no basements.
The means of heating (fuel type) and cooling in the buildings on the site	None, except for office -.
Description of services and utilities	Utilities/services noted on the site only included a firemain and underground power (likely informal)
Condition of buildings (e.g. cracks in foundations)	None noted, but not on the "Site" development area
Hazardous building materials - e.g. lead or asbestos	Not relevant to Site area as building won't be modified.

Item	Notes
Presence of septic tanks	No
Evidence of services on site, in particular underground services (provide preferential pathways for contamination)	fire main u/g power, informal but ~~[illegible]~~ operation does not generate ~~[illegible]~~ liquid wastes
Any underground stormwater / mains water / sewerage lines - sketch on plan	No
Underground services / water	
Any underground gas - sketch on plan	No
Any underground communications lines - sketch on plan	No
Any underground power lines - sketch on plan	only outlets noted - line path unknown and likely informal
Quality of surface water	sediment erosion was visible from edge of reclamation
Presence and type of groundwater bores on the site and adjacent landholdings	None
Sheens on water surfaces	No
Condition of GW bore headworks	N/A

Item	Notes
Measurement of GW (water table and/or piezometric) levels	N/A
Contamination	
Disturbed, coloured or stained soil	Mixed fill piles & mixed historical reclamation materials including solid wastes (concrete, bitumen, pipes, scrap steel, bricks, etc)
Bare soil patches	Entire site was bare of vegetation
Disturbed or stressed vegetation	None present
Odours	No
Presence and condition of any underground storage tank (USTs) and associated infrastructure	None noted
Presence or absence of bonded asbestos-containing materials (bonded ACM) on the ground surface	None noted in visual inspection
Presence and condition of chemical containers, holding tanks, bunds etc.	None present on site
Any evidence of on-site spillage of dangerous goods and/or off-site migration	None noted but many areas were covered in soil stockpiles
Presence of pits containing buried waste	No - entire site is reclaimed land with mixed fill comprising soils and solid wastes.

Item	Notes
Other	
Presence of fill materials, including building demolition rubble, mixed wastes, soils of unknown origins, etc.	Yes – as noted above – not just in historical reclamation materials but recently imported fill also.
Presence of stockpiles, fill, containment areas, sumps, drains and waste disposal areas - operational and closed	All reclaimed land – including solid wastes (inert)
Debris or waste disposal	" " " including solid wastes (inert)
Underground structures that may be associated with sub-surface construction	No (other than U/g services – fire main)
Condition of materials storage and handling facilities and any solid or liquid waste disposal areas	Not inspected – requested WST manifest
Neighbouring Uses	Detailed above
Any evidence of contamination from neighbouring properties	A drainage channel for "white" staining fluid which drains to the Derwent adjacent to SE boundary of the site
Are neighbouring uses potentially contaminating	Yes – Nyrstar: heavy metals, acids, hydrocarbons Impact fertilizers: fluoride, etc.
Were historical neighbouring uses potentially contaminating	Yes – above operations have been very long term.

** Note suggested sampling locations in a site figure

- Sample existing reclamation to the water table ≈ 1m.
- " Imported (Taswater) fill if needed (depends on documentation available)
-

Field Sampling

Appendix F

Incat Soil Sampling - Photo register

Project:	**P.26.0075**
Date:	03/02/2026 (Site inspection) & 18 - 19/02/2026 (Site walkover / sampling)
p&s staff:	FKP & MM & HF

Contents

1. Site Inspection

Images taken 3 February 2026 – by Fiona Keserue-Ponte	**Comment**
	Dolerite rockface in the western portion of the Property.

Images taken 3 February 2026 – by Fiona Keserue-Ponte	Comment
	Looking south across the Site, towards Nyrstar.
	Looking north across the Site showing active reclamation edge, with eroding sediment and tide flooded edge.
	Looking along the southern Site edge, with remaining armour rock; note the extent of the sediment plumes both along the edge and further out into the water.

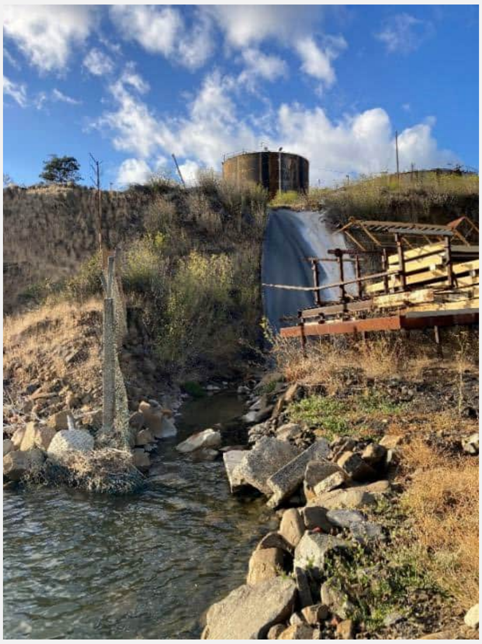
Images taken 3 February 2026 – by Fiona Keserue-Ponte	Comment
	Example of a waste soil stockpile present on the day, with concrete rubble, timber and rocks, intermixed with sand and gravel.
	Looking south across the Site, towards Nyrstar, showing the mixed nature of stockpiles present on the day, including concrete rubble, large plastic pipe, organic matter/soils, gravel, sand.
	Detail of the above (IMG_3593) showing also exposed reinforced steel bars protruding from the concrete.

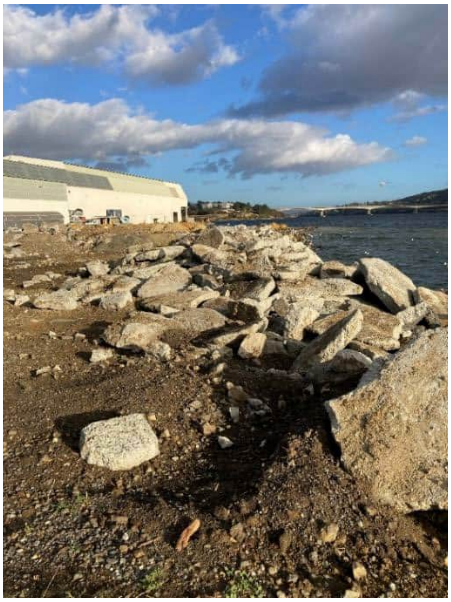
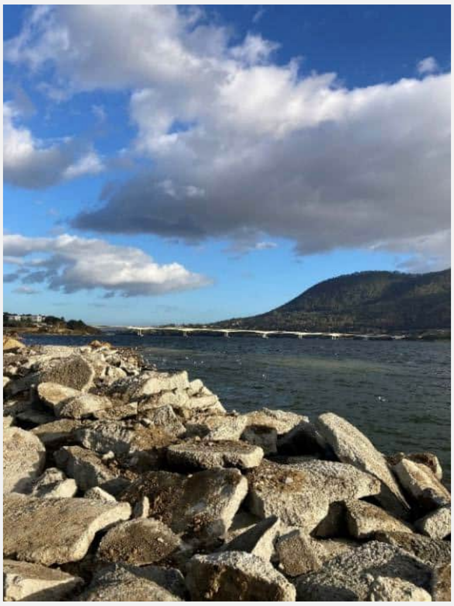
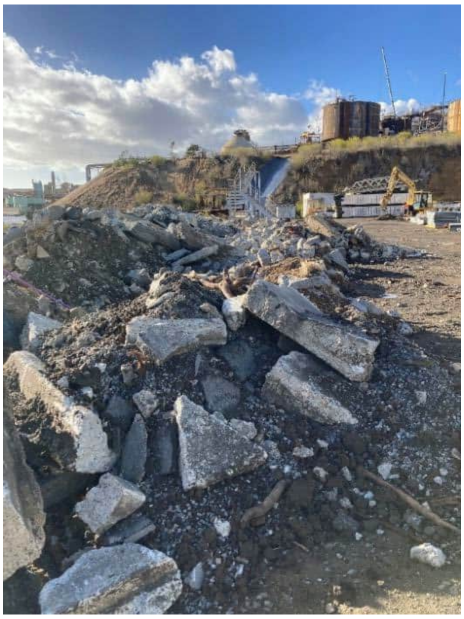
Images taken 3 February 2026 – by Fiona Keserue-Ponte	Comment
	More examples of stockpiles present on the day, showing very large pieces of concrete demolition rubble and mixed soils, cobbles.
	Examples of stockpiles with sand, blue metal gravel, bitumen, PVC piping, rock concrete rubble, etc.
	Example of waste soil stockpiles present on the day, including rock, sand, soil, organic matter, concrete rubble, solid wastes (bricks, bitumen).

Images taken 3 February 2026 – by Fiona Keserue-Ponte	Comment
	Similar to previous, also showing the sediment plume.
	Power point connection.
	Fire fighting main stand pipe and 3 m tide marked on the sheet pile steel.

Images taken 3 February 2026 – by Fiona Keserue-Ponte	Comment
	Looking north along the area that will house the new wharf.
	Looking north along the northern end of the Site, showing inadequate rock revetment / armouring which has allowed erosion of all the fine reclamation materials.
	Looking from the northern end of the Site along the alignment of the fire main.

2. Site Walkover

Images taken 18 February 2026 – by Fiona Keserue-Ponte	**Comments**
	Concrete rubble and sundry storages in the southern end of the Site
	Drainage route for overflows from Impact Fertiliser and Nyrstar which report to the channel immediately along the south side of the Site into the river; waters are understood to flow down the black plastic sheet, as evidenced by the white staining

Images taken 18 February 2026 – by Fiona Keserue-Ponte	Comments
	Abundant large concrete rubble blocks pushed along the edge of the reclamation area; note visible sediment plume towards the middle of the image.
	Abundant large concrete rubble blocks pushed along the edge of the reclamation area; note visible sediment plume towards the middle of the image.
	New concrete rubble stockpile mixed with soils and gravel and other rubbish and plastic pipe.

Images taken 18 February 2026 – by Fiona Keserue-Ponte	Comments
	Potential asbestos sheeting sampled.

3. Test Pits

ID / Depth	Images taken 18 & 19 February 2026 – by Harry Fairweather	Comment
TP01 0 - 0.9		Very homogeneous layer of loose silty fill, BDR throughout, concrete and brick fragments
TP01 0.9 - 1.1		Black layer coinciding with water ingress at 1.2m, otherwise similar composition to above
TP01		Profile of TP01 Water ingress at 1.2 m bgl

ID / Depth	Images taken 18 & 19 February 2026 – by Harry Fairweather	Comment
TP02 0 - 0.2		Loose silty gravels, small amount of BDR, mainly brick
TP02 0.3 - 1.2		Stiff to yielding clays, BDR(concrete, pipe, brick) with evident fill layer. Surface water observed through layer
TP02 1.2 - 1.9		Black clays with gravels, BDR (bricks, bitumen). Water ingress at 1.4 m bgl. Slight hydrocarbon smell

ID / Depth	Images taken 18 & 19 February 2026 – by Harry Fairweather	Comment
TP02		TP02 profile Water ingress at 1.9 m bgl
TP03 0 - 1.1		Brown gravelly clay with BDR (bitumen, brick and gravels)
TP03 1.1 - 1.4		Grey colour change Gravels, bitumen, rocks (possibly mudstone) Water ingress at 1.4 m bgl.

ID / Depth	Images taken 18 & 19 February 2026 – by Harry Fairweather	Comment
TP03		TP03 Profile Water ingress at 1.4 m bgl
TP03		Facing north of TP03 to the location of proposed works TP03 close proximity to River Derwent
TP04 0 - 0.3		Top layer was very soft and unconsolidated with gravelly silts and reworked natural throughout

ID / Depth	Images taken 18 & 19 February 2026 – by Harry Fairweather	Comment
TP04 0.3 - 1		Very wet mixed layer of reworked natural materials with some BDR rubble (brick and bitumen) throughout
TP04		Profile of TP04
TP05 0 - 0.2		Rock and concrete rubble interspersed throughout with stiff clays and hunks of gravel

ID / Depth	Images taken 18 & 19 February 2026 – by Harry Fairweather	Comment
TP05 0.2 - 0.6		As above layer, rubble throughout, but with a greater prevalence of loose soils and small gravels
TP05 0.6 - 1		Similar consistency and composition to above layers but darker in colour Water ingress at 1.0 m bgl
TP06 0 - 0.2		Stiff clays with gravel interspersed throughout. Some BDR (plastic and small brick fragments)

ID / Depth	Images taken 18 & 19 February 2026 – by Harry Fairweather	Comment
TP06 0.2 - 0.4		Clays interspersed throughout with more loose unconsolidated silts and gravels than layer above BDR (brick and concrete) fragments throughout
TP06 0.5 - 0.7		Fill layer with BDR (red brick and very large concrete chunks, rebar and electrical wire) Digging extremely difficult due to slabs of cement Water ingress at 0.7 m bgl
TP06		Profile of TP06 Water ingress at 0.7 m bgl

ID / Depth	Images taken 18 & 19 February 2026 – by Harry Fairweather	Comment
TP07 0 - 0.2		Top layer with blue metal gravels and fine silty sands
TP07 0.2 - 0.5		Stiff claying silts, reworked natural fill
TP07 0.7 - 1.3		Loose gravelly silts and significant red brick throughout Some pieces of concrete. Water ingress at 1.3 m bgl

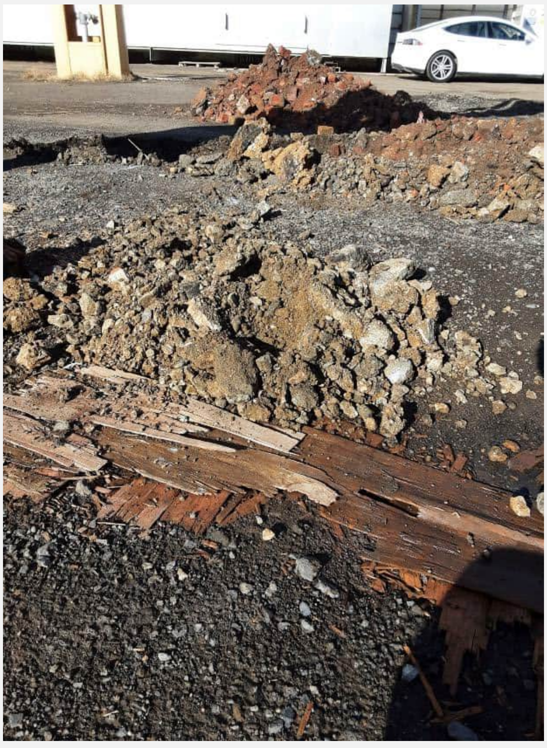
ID / Depth	Images taken 18 & 19 February 2026 – by Harry Fairweather	Comment
TP07		TP07 depth profile Water ingress at 1.3 m bgl
TP08 0 - 0.2		Top layer
TP08 0.2 - 0.5		Reworked natural material, some blue metal gravel throughout

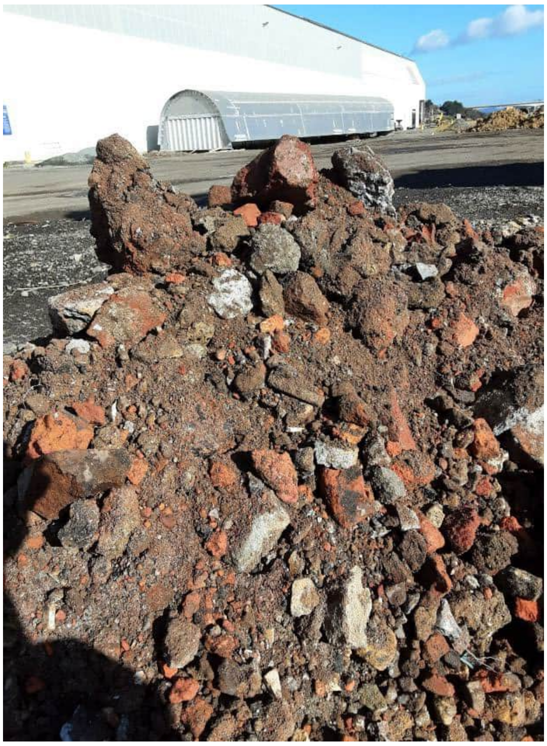
ID / Depth	Images taken 18 & 19 February 2026 – by Harry Fairweather	Comment
TP08 0.5 - 1.2		Homogeneous brown clays, some small chunks of BDR (brick) Water ingress at 1.2 m bgl
TP08		Profile of TP08 Water ingress at 1.2 m bgl
TP09 0 - 0.1		Top layer of red bricks. Test pit of interest due composition of predominately red brick

ID / Depth	Images taken 18 & 19 February 2026 – by Harry Fairweather	Comment
TP09 0.1 - 0.7		Mixed BDR with predominately red brick and fewer concrete tiles and hunks of plastic also evident.
TP09 0.7 - 1		Similar layer to above
TP09 1 - 1.4		Extensive BDR with red brick still predominant Pieces of cement and angle iron also very occurrent

Document Set ID: 3616604
Version: 2, Version Date: 19/05/2026

ID / Depth	Images taken 18 & 19 February 2026 – by Harry Fairweather	Comment
TP09		Profile of TP09 Distinct layers can be observed.
TP10 0 - 0.2		Top layer of road base like material
TP10 0.2 - 0.5		Top layer with sandy gravels throughout. Layer was observed to be loose consisting of reworked naturals and some black streaky material

ID / Depth	Images taken 18 & 19 February 2026 – by Harry Fairweather	Comment
TP10 0.5 - 1.1		Fill layer containing mostly brick rubble and loose unconsolidated soils. Other BDR present including plastic netting and concrete. Water ingress at 1.1 m bgl
TP10		Profile of TP10 Evident red brick in deeper profile Water ingress at 1.1 m bgl
TP11 0 - 0.1		Top layer of brown gravelly silts.

ID / Depth	Images taken 18 & 19 February 2026 – by Harry Fairweather	Comment
TP11 0.1 - 1		Red brown gravelly silts with significant red brick BDR throughout layer
TP11 0.3 - 0.4		Dark streaky (black brown) fill layer of interest
TP11 - 1 - 1.5		Extensive BDR throughout layer; including brick, tile and bitumen, a steel sign, small extents of wire and large blocks of concrete Red brick most extensive BDR component Water ingress at 1.5 m bgl

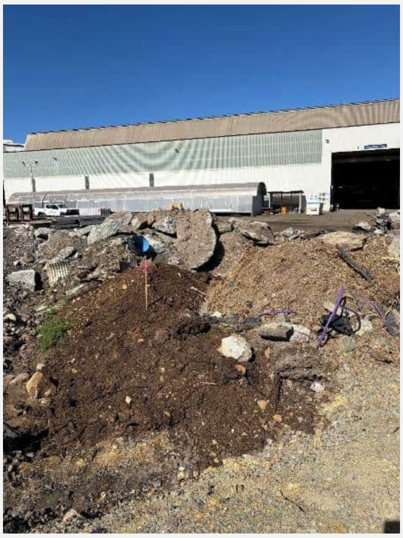
ID / Depth	Images taken 18 & 19 February 2026 – by Harry Fairweather	Comment
TP11		Profile of TP11 Evident red brick BDR below surface layer of TP11 Water ingress at 1.5 m bgl
TP12 0 - 0.4		Sandy fill layer with some BDR, red brick, metal fencing and cobbles throughout
TP12 0.4 - 1		Greater BDR concentration than above layer with mostly brick and reworked natural material. Some black clays Water ingress at 0.9 m bgl

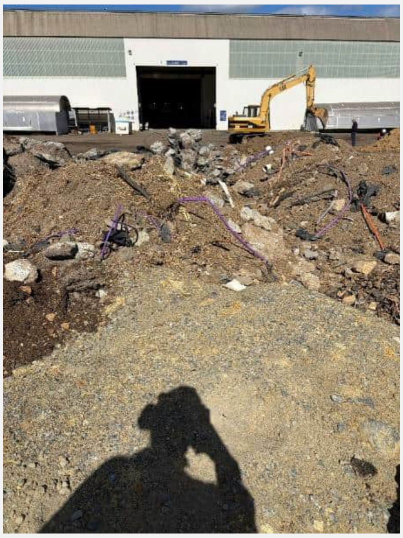
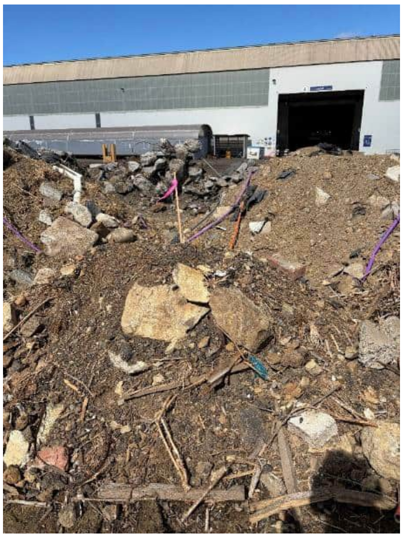
ID / Depth	Images taken 18 & 19 February 2026 – by Harry Fairweather	Comment
TP12		Profile of T12 Water ingress at 0.9 m bgl
TP13 0 - 0.2		Top layer of fill
TP13 0.2 - 0.5		Fill material consisting of brown gravelly clays

ID / Depth	Images taken 18 & 19 February 2026 – by Harry Fairweather	Comment
TP13 0.5 - 1		Much finer and less rubbly than above layer
TP13 1 - 1.4		Homogeneous soil profile from approximately 200 millimetres depth Refusal at 1.4m
TP13		Profile of TP13 No water ingress

4. Stockpiles

ID	Images taken 18 & 19 February 2026 – by Maddison Mayjor	Comment
SP01		Image of samples taken and stockpile material types
SP01		Stake indicates location of SP01 looking west towards Incat Lucas' shed
SP0**2**		Stake indicates location of SP02 looking west towards Incat Lucas' shed

ID	Images taken 18 & 19 February 2026 – by Maddison Mayjor	Comment
SP02		Grey sandy gravel with timber and black basalt like material
SP03		Brown soils with organic matter
SP03		Stake indicates location of SP03 looking towards Incat Lucas' shed

ID	Images taken 18 & 19 February 2026 – by Maddison Mayjor	Comment
SP04		Yellow sand with blue metal gravel, large concrete broken slab, timber and bitumen mixed in the mixed fill stockpile
SP04		Standing on SP04 facing Incat Lucas' shed. Yellow sand with blue metal gravel, large concrete broken slab, timber and bitumen mixed in the mixed fill stockpile Note amount of mixed waste comprising plastic piping, PVC piping, vegetation, concrete rubble, geomesh, reinforced steel bars protruding from concrete, etc, on the adjacent SP05.
SP05		Stake indicates location of SP05 looking towards Incat Lucas' shed. Evidence of building demolition rubble (BDR), timber, plastic, organics.

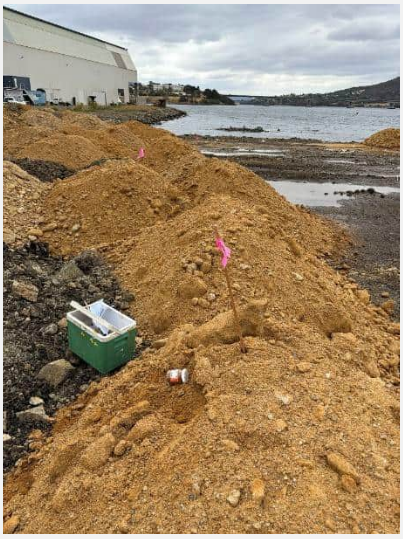
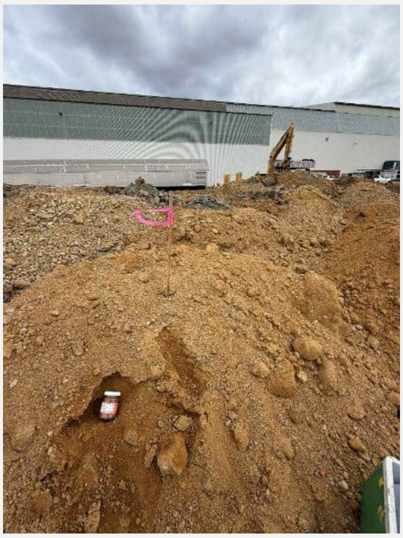
ID	Images taken 18 & 19 February 2026 – by Maddison Mayjor	Comment
SP05		SP05 facing River Derwent, evident BDR and vegetation
SP06		Mixture of BDR, plastic polypipe (PVC and plastic) and other wastes on brown soils with gravel.
SP07		Blue metal gravel and other gravels, large boulders, metals, loose woven plastic (geomesh). 4 - 5 stockpiles - 70m³. Note these stockpiles were moved to make access for TP08.

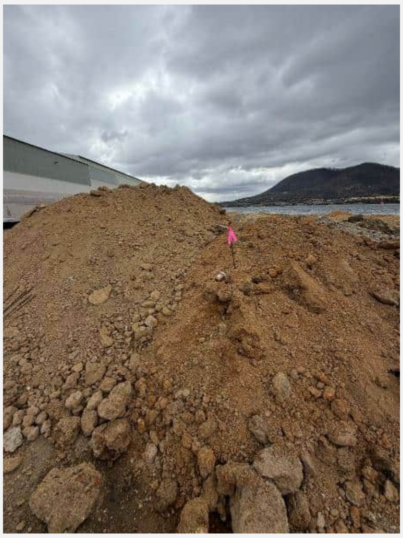
ID	Images taken 18 & 19 February 2026 – by Maddison Mayjor	Comment
SP07		SP07 facing towards Incat Lucas' shed. Note these stockpiles were moved to make access for TP08 to the south.
SP08		SP08 facing towards northern end of Incat Lucas' shed. Clear difference in the brown / grey colour and composition (large black / brown lumps, clays) of this stockpile in comparison to surroundings. This was the only stockpile of this composition observed on Site.
SP08		Close up view of material from SP08.

ID	Images taken 18 & 19 February 2026 – by Maddison Mayjor	Comment
SP09		SP09 brown soils mixed with organic matter / vegetation, rock. Looking toward Incat Lucas' shed.
SP10		Close up view of materials in SP10: fine silts, gravels and rock.
SP12		Facing Incat Lucas' shed from SP12. Similar material to SP15.

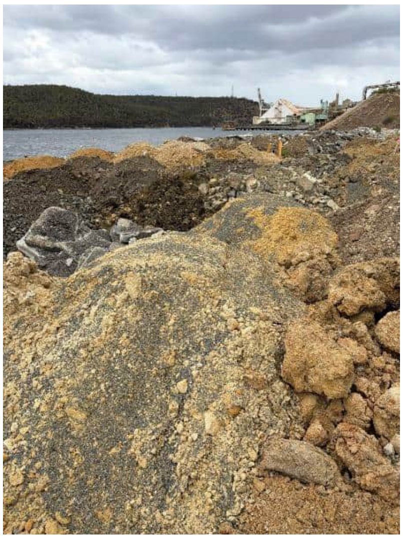
ID	Images taken 18 & 19 February 2026 – by Maddison Mayjor	Comment
SP13		SP13 facing River Derwent. Large pile with bitumen, sandy gravels. Stockpile was moved during excavation works for test pit TP09.
SP14		Sand with blue metal gravel. Similar to SP13.
SP16		Two similar stockpiles. Further stockpile tested. Facing towards Incat Lucas' shed.

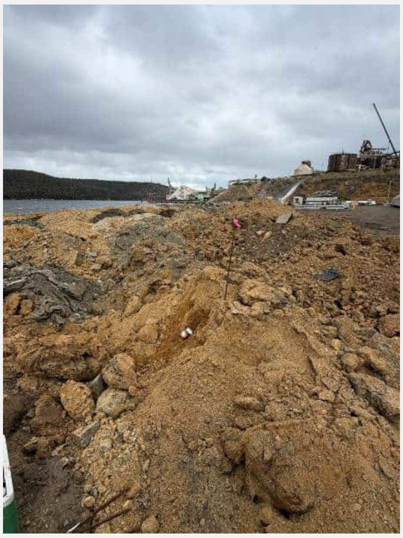
Document Set ID: 3616604
Version: 2, Version Date: 19/05/2026

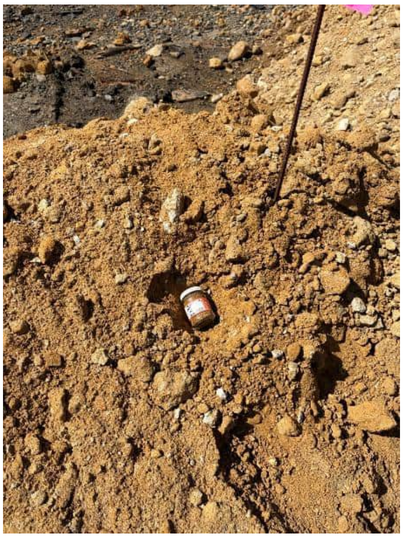
ID	Images taken 18 & 19 February 2026 – by Maddison Mayjor	Comment
SP17		Yellow/orange sand intermixed with gravel and blue metal gravel and concrete rubble. 3 stockpiles. Photo taken facing north along the eastern boundary of the stockpiles and of the Site.
SP18		SP18, north of SP17 facing north along the River Derwent foreshore and eastern edge of the Site. SP18 composition was similar colour to SP17, with white clay / sandstone pieces and less gravels.
SP19		Yellow / orange sandy gravel mixed with concrete pieces. Facing the Incat Lucas' shed.

ID	Images taken 18 & 19 February 2026 – by Maddison Mayjor	Comment
SP20		Yellow / orange sandy gravel, blue metal gravel and small to large concrete rubble. Facing north from SP19.
SP21		Yellow / orange-brown gravelly silts and coarse clay with orange colours. Facing north towards the northern end of the Incat Lucas' shed.
SP22		Stockpile moved during excavation of TP07. Sandy gravels with bitumen fragments. Facing southeast from the northern end of the Site.

ID	Images taken 18 & 19 February 2026 – by Maddison Mayjor	Comment
SP23		SP23 containing large bitumen rubble, concrete rubble, and gravels. Facing towards the northern end of the Incat shed and Site area.
SP23		SP23 containing large bitumen rubble, concrete rubble, and gravels. SP23 was moved during excavation of TP07, which is evident in this image as the southern side of SP23 has been scraped. Facing eastward from the western side of the Site.
SP24		Yellow sand with blue metal gravels. Facing eastwards from the western side of the Site.

ID	Images taken 18 & 19 February 2026 – by Maddison Mayjor	Comment
SP24		Facing south of the Site from the top of SP24. The two stockpiles captured were similar to the composition of SP24 and located immediately south.
SP25		Clayey sands. Photo taken from the north of the Site, facing south across the Site.
SP26		SP26 was tested as the representative sample of three stockpiles that were similar and comprised of clay and sand with lots of gravel and large rock (white and yellow - mudstone/sandstone).

ID	Images taken 18 & 19 February 2026 – by Maddison Mayjor	Comment
SP27		Photo taken from the northern end of the stockpiles, facing towards the south of the Site. Materials included sand with bitumen, gravels, clay and rock.
SP28		Very large yellow stockpile with clay, rock and gravel.
SP29		Yellow sandy gravel with larger rocks boulders, dried clay, concrete and large bitumen pieces.

ID	Images taken 18 & 19 February 2026 – by Maddison Mayjor	Comment
SP30		Yellow/orange sand with small and larger gravels and rock.

SOIL SAMPLING FIELD DATA SHEET	Project number:	P.26.0075	
	Project name:	INCAT ESA	

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Site I.D	**INCAT - 100 Derwent Pk Rd**
Date	**18 - 19 February 2026**
Personnel	**Harrison Fairweather Maddison Mayjor**
Weather	**Overcast**

Note: all materials sampled were fill

ID	Sample ID	Depth Start	Depth End	Date	Material Description	Moisture (D, M, W)	PID (ppm)	Colour	Odour	Comments
TP01	**TP01_0.9**	0	0.9	2/18/2026	Gravelly Silt	moist wet	0	Brown	No	Very homogeneous layer of loose silty fill, BDR (Builders demolition rubble) throughout, concrete, rear and brick fragments
TP01	**TP01_1.2**	0.9	1.1	2/18/2026	Gravelly Silt	wet	0	Black	No	Black layer coinciding with water ingress at 1.2 m bgl, otherwise similar composition to above, qcp/qcs4 taken
TP02	**TP02_0.1**	0	0.2	2/19/2026	Gravelly Silt	dry	0	Brown	No	Loose silty gravels, small amount of BDR (brick)
TP02	**TP02_0.9**	0.3	1.2	2/19/2026	Silty Clay	moist	0	Brown with black	No	Clays - stiff to yielding, BDR with concrete, pipe brick fill layer, surface water observed through layer
TP02	**TP02_1.9**	1.2	1.9	2/19/2026	Gravelly Clay	moist	0.1	Brown with streaks of black	Yes	Black clays with gravels, BDR and bitumen. Water ingress at 1.9 m bgl. Slight hydrocarbon smell
TP03	**TP02_1.4**	1.1	1.4	2/19/2026	Gravelly Clay	moist	0	Brown with more black	No	Grey colour change. Layer consists of gravels, bitumen, rocks (mudstone). Water ingress at 1.4 m bgl.
TP03	**TP03_0.5**	0	1.1	2/19/2026	Gravelly Clay	moist	0	Dark brown with some blacks	No	Brown gravelly clay. Layer consists of bitumen, brick, gravels
TP04	**TP04_0.2**	0	0.3	2/18/2026	Gravelly Silt	moist wet	0	Brown	No	Top layer, very soft and unconsolidated, gravelly silts, reworked natural throughout, qcp/qcs03 taken
TP04	**TP04_1.0**	0.3	1	2/18/2026	Gravelly Silt	moist wet	0	Brown/black	No	Mixed layer of reworked natural materials and very wet. Some BDR rubble consisting of brick and bitumen throughout
TP04	**TP04_2.0**	1	2	2/18/2026	Silty Clay	moist wet	0	Black grey	No	Stiff to yielding silty clays of varying texture and density, mixed through with gravel, rock and BDR (tile and brick)
TP05	**TP05_0.2**	0	0.2	2/18/2026	Gravelly Clay	dry moist	0	Black brown	No	Rock and concrete rubble interspersed throughout with stiff clays and hunks of gravel
TP05	**TP05_0.6**	0.2	0.6	2/18/2026	Gravelly Clay	moist	0	Brown	No	As above layer, rubble throughout, but with a greater prevalence of loose soils and small gravels
TP05	**TP05_1.0**	0.6	1	2/18/2026	Gravelly Silt	moist wet	0	Black brown	No	Similar consistency and composition to above layers but darker in colour. Water ingress at 1.0 m bgl.
TP06	**Tp06_0.2**	0	0.2	2/18/2026	Silty Clay	moist	0	Black brown	No	Stiff clays with gravel interspersed throughput, some BDR in the form of plastic and small brick fragments
TP06	**TP06_0.4**	0.2	0.4	2/18/2026	Gravelly Clay	dry moist	0	Black brown	No	Clays interspersed throughout with more loose unconsolidated silts and gravels than above layer. BDR (brick and concrete fragments) throughout
TP06	**TP06_0.7**	0.5	0.7	2/18/2026	Boulder	moist wet	0	Brown black grey	No	Fill layer consisting of red brick and very large concrete chunks, reinforcing bars and electrical wire. Digging extremely difficult due to slabs of cement. Water ingress at 0.7 m bgl
TP07	**TP07_0.1**	0	0.2	2/18/2026	Sandy Gravel	dry	0	Black	No	Top layer, blue metal gravels and fine silty sands
TP07	**TP07_0.5**	0.2	0.5	2/18/2026	Silty Clay	dry moist	0	Black	No	Stiff claying silts, reworked natural fill
TP07	**TP07_1.3**	0.7	1.3	2/18/2026	Gravelly Silt	moist wet	0	Brown red	No	Loose gravelly silts and significant red brick bdr throughout. Some limited chunks of concrete. Water ingress at 1.3 m bgl
TP08	**TP08_0.1**	0	0.2	2/18/2026	Gravelly Sand	dry	0	Black	No	Top layer
TP08	**TP08_04**	0.2	0.5	2/18/2026	Gravel	dry	0	Brown	No	Reworked natural material, some blue metal gravel throughout
TP08	**TP08_1.2**	0.5	1.2	2/18/2026	Gravelly Clay	moist wet	0	Brown	No	Homogenous brown clays, some small chunks of BDR (brick). Water ingress at 1.2 m bgl
TP09	**TP09_01**	0	0.1	2/18/2026	Silty Gravel	dry	0	Brown	No	Top layer
TP09	**TP09_0.7**	0.1	0.7	2/18/2026	Sandy Gravel	dry	0	Reddy brown	No	Red brick layer, mixed BDR (concrete, tiles and hunks of plastic) also evident
TP09	**TP09_1.0**	0.7	1	2/18/2026	Gravelly Silt	dry	0	Black streaky brown	No	Similar layer of interest previous holes
TP09	**TP09_1.4**	1	1.4	2/18/2026	Gravelly Silt	moist wet	0	Brown	No	Extensive BDR with red brick throughout. Hunks of cement and angle iron also very occurrent
TP10	**TP10_0.2**	0	0.2	2/18/2026	Gravelly Sand	dry	0	Light brown	No	Top layer, road base like material
TP10	**TP10_0.5**	0.2	0.5	2/18/2026	Gravelly Sand	dry	0	Brown	No	Top layer, sandy gravels throughout, loose consisting of reworked naturals, some black streaky material
TP10	**TP10_1.1**	0.5	1.1	2/18/2026	Gravelly Sand	dry moist	0	Brown/red	No	Fill layer containing mostly brick rubble and loose unconsolidated soils. BDR present including chunks of plastic netting and concrete. Water ingress at 1.1 m bgl.

ID	Sample ID	Depth Start	Depth End	Date	Material Description	Moisture (D, M, W)	PID (ppm)	Colour	Odour	Comments
TP11	**TP11_0.1**	0	0.1	2/18/2026	Gravelly Silt	dry	0.1	Brown	No	Top layer
TP11	**TP11_0.4**	0.3	0.4	2/18/2026	Clayey Silt	moist	0	Black brown	No	Dark streaky fill layer of interest
TP11	**TP11_1.0**	0.1	1	2/18/2026	Gravelly Silt	dry	0.1	Red brown	No	Significant red brick BDR throughout. qcs/qcp01 taken
TP11	**TP11_1.5**	1	1.5	2/18/2026	Gravelly Silt	wet	0.1	Brown red with black streaks throughput	No	Extensive BDR throughout, brick tile and bitumen, a steel sign, small extents of wire and large blocks of concrete. Red brick most extensive BDR component. Water ingress at 1.5 m bgl.
TP12	**TP12_0.2**	0	0.4	2/19/2026	Sandy Gravel	dry	0	Grey brown	No	Sandy fill layer, some BDR, metal fencing cobbles throughout
TP12	**TP12_1.0**	0.4	1	2/19/2026	Gravelly Silt	wet	0	Brown	No	Greater BDR concentration than above layer, mostly brick and reworked natural material, some black clays. Water ingress at 0.9 m bgl.
TP13	**TP13_0.1**	0	0.2	2/18/2026	Gravelly Clay	dry moist	0	Brown	No	Top fill
TP13	**TP13_0.5**	0.2	0.5	2/18/2026	Gravelly Clay	dry moist	0	Brown		Brown gravelly clay
TP13	**TP13_1.0**	0.5	1	2/18/2026	Gravelly Silt	dry	0	Black brown	No	Much finer and less rubbley than above layer
TP13	**TP13_1.4**	1	1.4	2/18/2026	Gravelly Silt	dry	0.5	Brown black	No	Refusal at 1.4m with a homogenous profile from appx 200mm down

Laboratory Results

Appendix G

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CERTIFICATE OF ANALYSIS

Work Order	: **EM2602866**	Page	: 1 of 64
Client	: **PITT & SHERRY (OPERATIONS) PTY LTD**	Laboratory	: Environmental Division Melbourne
Contact	: FIONA KESERUE-PONTE	Contact	: Hannah White
Address	: 199 MACQUARIE STREET HOBART 7001	Address	: 4 Westall Rd Springvale VIC Australia 3171
Telephone	: ----	Telephone	: +61-3-8549 9600
Project	: INCAT ESA	Date Samples Received	: 20-Feb-2026 12:35
Order number	: P.26.0075	Date Analysis Commenced	: 24-Feb-2026
C-O-C number	: ----	Issue Date	: 27-Feb-2026 16:07
Sampler	: H Fairweather, M Mayjor		
Site	: ----		
Quote number	: EM23PITSHE0013 VIC Custom Pricing		
No. of samples received	: 76		
No. of samples analysed	: 76		

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

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

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- 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*
Brooke Hallcroft	Laboratory Technician (Microbiology)	Newcastle - Inorganics, Mayfield West, NSW
Jarwis Nheu	Non-Metals Team Leader	Melbourne Inorganics, Springvale, VIC
MINNIE TRAN	Approved Asbestos Identifier	Melbourne Asbestos, Springvale, VIC
Xing Lin	Senior Organic Chemist	Melbourne Organics, Springvale, VIC

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 Cations on Alkaline Soils when performed under ALS Method ED006.
- 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.
- 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.
- EG005-T : EM2602866 #43 Poor matrix spike recovery for total zinc due to sample matrix. Confirmed by re-digestion and re-analysis.
- EG035T: EM2602866#32 Poor duplicate precision for total mercury due to sample matrix. Confirmed by re-extraction and re-analysis.
- **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.
- EG035T: EM2602866#12 Poor duplicate precision for total mercury due to sample matrix. Confirmed by re-extraction and re-analysis.
- EG035T: EM2602866#3 Poor matrix spike recovery for total mercury due to sample matrix. Confirmed by re-extraction and re-analysis.
- EG035T: EM2602866#23 Poor matrix spike recovery for total mercury due to sample matrix. Confirmed by re-extraction and re-analysis.
- EG005-T : EM2602866 #2 and #12 Poor duplicate precision for total metals due to sample matrix. Confirmed by re-digestion and re-analysis.
- EG005-T : EM2602866 #23 Poor matrix spike recovery for total metals due to sample matrix. Confirmed by re-digestion and re-analysis.
- EG005-T : EM2602866 #43 Poor matrix spike recovery for total metals due to sample matrix. Confirmed by re-digestion and re-analysis.
- 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
- 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 or as per USEPA 1633 limits where listed. 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 and also conform to QSM 5.4 (US DoD) requirements.

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	TP01_0.9	TP01_1.2	TP02_0.1	TP02_0.9	TP02_1.9
			Sampling date / time	18-Feb-2026 16:30	18-Feb-2026 16:30	19-Feb-2026 13:00	19-Feb-2026 13:00	19-Feb-2026 13:00
Compound	CAS Number	LOR	Unit	EM2602866-002	EM2602866-003	EM2602866-004	EM2602866-005	EM2602866-006
				Result	Result	Result	Result	Result
EA001: pH in soil using 0.01M CaCl extract								
pH (CaCl2)	----	0.1	pH Unit	7.5	----	----	----	----
EA002-AD: pH (Soils) dried at 40°C								
pH Value	----	0.1	pH Unit	8.6	----	----	----	----
EA010-AD: Conductivity (Soils) dried at 40°C								
Electrical Conductivity @ 25°C	----	1	µS/cm	2610	----	----	----	----
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	20.7	14.1	11.6	15.6	22.6
EA150: Soil Classification based on Particle Size								
Clay (<2 µm)	----	1	%	21	----	----	----	----
EA152: Soil Particle Density								
Soil Particle Density (Clay/Silt/Sand)	----	0.01	g/cm3	2.67	----	----	----	----
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	-	--	-	----	----	-	----
Synthetic Mineral Fibre	----	-	--	No	----	----	No	----
Organic Fibre	----	-	--	Yes	----	----	Yes	----
Sample weight (dry)	----	0.01	g	674	----	----	400	----
APPROVED IDENTIFIER:	----	-	--	M. TRAN	----	----	T. KUO	----
ED006: Exchangeable Cations on Alkaline Soils								
ø Exchangeable Calcium	----	0.2	meq/100g	11.3	----	----	----	----
ø Exchangeable Magnesium	----	0.2	meq/100g	8.9	----	----	----	----
ø Exchangeable Potassium	----	0.2	meq/100g	1.1	----	----	----	----
ø Exchangeable Sodium	----	0.2	meq/100g	10.5	----	----	----	----
ø Cation Exchange Capacity	----	0.2	meq/100g	31.7	----	----	----	----
ø Exchangeable Calcium Percent	----	0.2	%	35.6	----	----	----	----
ø Exchangeable Magnesium Percent	----	0.2	%	28.0	----	----	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	TP01_0.9	TP01_1.2	TP02_0.1	TP02_0.9	TP02_1.9
			Sampling date / time	18-Feb-2026 16:30	18-Feb-2026 16:30	19-Feb-2026 13:00	19-Feb-2026 13:00	19-Feb-2026 13:00
Compound	CAS Number	LOR	Unit	EM2602866-002	EM2602866-003	EM2602866-004	EM2602866-005	EM2602866-006
				Result	Result	Result	Result	Result
ED006: Exchangeable Cations on Alkaline Soils - Continued								
ø Exchangeable Potassium Percent	----	0.2	%	**3.4**	----	----	----	----
ø Exchangeable Sodium Percent	----	0.2	%	**33.0**	----	----	----	----
ø Calcium/Magnesium Ratio	----	0.2	-	**1.3**	----	----	----	----
ø Magnesium/Potassium Ratio	----	0.2	-	**8.2**	----	----	----	----
EG005(ED093)T: Total Metals by ICP-AES								
Iron	7439-89-6	0.005	%	**3.64**	----	----	----	----
Arsenic	7440-38-2	5	mg/kg	<5	<5	<5	<5	<5
Cadmium	7440-43-9	1	mg/kg	**3**	**1**	**1**	**1**	<1
Chromium	7440-47-3	2	mg/kg	**24**	**15**	**32**	**18**	**25**
Copper	7440-50-8	5	mg/kg	**62**	**39**	**46**	**55**	**51**
Lead	7439-92-1	5	mg/kg	**63**	**29**	**35**	**33**	**20**
Nickel	7440-02-0	2	mg/kg	**22**	**25**	**24**	**20**	**23**
Zinc	7440-66-6	5	mg/kg	**367**	**192**	**244**	**227**	**145**
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	**14.6**	**6.9**	**0.3**	**0.2**	**0.1**
EP004: Organic Matter								
Organic Matter	----	0.5	%	**1.4**	----	----	----	----
Total Organic Carbon	----	0.5	%	**0.8**	----	----	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5

Analytical Results

Sub-Matrix: SOIL
(Matrix: SOIL)

			Sample ID	TP01_0.9	TP01_1.2	TP02_0.1	TP02_0.9	TP02_1.9
			Sampling date / time	18-Feb-2026 16:30	18-Feb-2026 16:30	19-Feb-2026 13:00	19-Feb-2026 13:00	19-Feb-2026 13:00
Compound	CAS Number	LOR	Unit	EM2602866-002	EM2602866-003	EM2602866-004	EM2602866-005	EM2602866-006
				Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued								
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	**1.2**	**1.2**	**1.2**	**1.2**	**1.2**
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	**340**	<100	<100	<100
^ C10 - C36 Fraction (sum)	----	50	mg/kg	<50	**340**	<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	**280**	<100	<100	<100
>C34 - C40 Fraction	----	100	mg/kg	<100	**440**	<100	<100	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	**720**	<50	<50	<50
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	<50	<50	<50	<50	<50

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	TP01_0.9	TP01_1.2	TP02_0.1	TP02_0.9	TP02_1.9
			Sampling date / time	18-Feb-2026 16:30	18-Feb-2026 16:30	19-Feb-2026 13:00	19-Feb-2026 13:00	19-Feb-2026 13:00
Compound	CAS Number	LOR	Unit	EM2602866-002	EM2602866-003	EM2602866-004	EM2602866-005	EM2602866-006
				Result	Result	Result	Result	Result
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
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)

Compound	CAS Number	LOR	Unit	TP01_0.9	TP01_1.2	TP02_0.1	TP02_0.9	TP02_1.9
Sampling date / time				18-Feb-2026 16:30	18-Feb-2026 16:30	19-Feb-2026 13:00	19-Feb-2026 13:00	19-Feb-2026 13:00
				EM2602866-002	EM2602866-003	EM2602866-004	EM2602866-005	EM2602866-006
				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	----	----
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	0.5	%	80.1	88.3	94.0	79.6	84.5
2-Chlorophenol-D4	93951-73-6	0.5	%	84.6	91.8	96.9	84.6	90.7
2.4.6-Tribromophenol	118-79-6	0.5	%	83.9	82.7	89.7	89.6	91.8
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	0.5	%	92.2	82.6	90.5	88.2	92.4
Anthracene-d10	1719-06-8	0.5	%	112	105	113	108	107
4-Terphenyl-d14	1718-51-0	0.5	%	94.1	92.6	101	96.5	96.7
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.2	%	74.8	77.3	76.9	75.5	70.5
Toluene-D8	2037-26-5	0.2	%	78.2	68.6	71.6	72.2	87.3
4-Bromofluorobenzene	460-00-4	0.2	%	88.3	77.5	78.4	78.9	75.7
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.0002	%	----	----	108	----	----
13C8-PFOA	----	0.0002	%	----	----	101	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	TP03 0.5	TP03_1.4	TP04_0.2	TP04_1.0	TP04_2.0
			Sampling date / time	19-Feb-2026 13:30	19-Feb-2026 13:30	18-Feb-2026 13:30	18-Feb-2026 13:30	18-Feb-2026 13:30
Compound	*CAS Number*	*LOR*	*Unit*	EM2602866-007	EM2602866-008	EM2602866-009	EM2602866-010	EM2602866-011
				Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	**17.0**	**23.0**	**11.7**	**14.3**	**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	**2**	<1	<1	**9**
Chromium	7440-47-3	2	mg/kg	**21**	**30**	**4**	**5**	**22**
Copper	7440-50-8	5	mg/kg	**27**	**47**	**71**	**70**	**99**
Lead	7439-92-1	5	mg/kg	**8**	**22**	**14**	**11**	**97**
Nickel	7440-02-0	2	mg/kg	**20**	**29**	**11**	**13**	**25**
Zinc	7440-66-6	5	mg/kg	**41**	**150**	**162**	**131**	**449**
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	**0.4**	**2.3**	**0.1**	**0.1**	**12.7**
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5

Analytical Results

Sub-Matrix: SOIL
(Matrix: SOIL)

	Compound	CAS Number	LOR	Unit	TP03 0.5	TP03_1.4	TP04_0.2	TP04_1.0	TP04_2.0
				Sampling date / time	19-Feb-2026 13:30	19-Feb-2026 13:30	18-Feb-2026 13:30	18-Feb-2026 13:30	18-Feb-2026 13:30
					EM2602866-007	EM2602866-008	EM2602866-009	EM2602866-010	EM2602866-011
					Result	Result	Result	Result	Result
	EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued								
	Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^	Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^	Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^	Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**
^	Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	**1.2**	**1.2**	**1.2**	**1.2**	**1.2**
	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
^	Sum of BTEX	----	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	TP03 0.5	TP03_1.4	TP04_0.2	TP04_1.0	TP04_2.0
			Sampling date / time	19-Feb-2026 13:30	19-Feb-2026 13:30	18-Feb-2026 13:30	18-Feb-2026 13:30	18-Feb-2026 13:30
Compound	CAS Number	LOR	Unit	EM2602866-007	EM2602866-008	EM2602866-009	EM2602866-010	EM2602866-011
				Result	Result	Result	Result	Result
EP080: BTEXN - Continued								
^ 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	----	----	**0.0003**	----	----
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	----	----	**0.0003**	----	----
Sum of PFAS (WA DER List)	----	0.0002	mg/kg	----	----	**0.0003**	----	----
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	0.5	%	**77.9**	**83.2**	**78.8**	**97.2**	**89.4**
2-Chlorophenol-D4	93951-73-6	0.5	%	**84.3**	**88.8**	**83.5**	**102**	**92.7**

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	TP03 0.5	TP03_1.4	TP04_0.2	TP04_1.0	TP04_2.0
			Sampling date / time	19-Feb-2026 13:30	19-Feb-2026 13:30	18-Feb-2026 13:30	18-Feb-2026 13:30	18-Feb-2026 13:30
Compound	CAS Number	LOR	Unit	EM2602866-007	EM2602866-008	EM2602866-009	EM2602866-010	EM2602866-011
				Result	Result	Result	Result	Result
EP075(SIM)S: Phenolic Compound Surrogates - Continued								
2.4.6-Tribromophenol	118-79-6	0.5	%	**86.1**	**94.3**	**80.3**	**105**	**96.4**
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	0.5	%	**87.5**	**85.3**	**87.1**	**97.6**	**96.1**
Anthracene-d10	1719-06-8	0.5	%	**109**	**111**	**99.1**	**109**	**108**
4-Terphenyl-d14	1718-51-0	0.5	%	**88.8**	**94.4**	**92.1**	**97.4**	**96.7**
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.2	%	**86.5**	**93.8**	**89.4**	**82.1**	**93.5**
Toluene-D8	2037-26-5	0.2	%	**97.8**	**86.7**	**89.7**	**75.4**	**80.8**
4-Bromofluorobenzene	460-00-4	0.2	%	**106**	**89.0**	**99.3**	**67.3**	**96.3**
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.0002	%	----	----	**115**	----	----
13C8-PFOA	----	0.0002	%	----	----	**98.2**	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	TP05_0.2	TP05_0.6	TP05_1.0	TP06_0.2	TP06_0.4
			Sampling date / time	18-Feb-2026 15:00	18-Feb-2026 15:00	18-Feb-2026 15:00	18-Feb-2026 14:30	18-Feb-2026 14:30
Compound	CAS Number	LOR	Unit	EM2602866-012	EM2602866-013	EM2602866-014	EM2602866-015	EM2602866-016
				Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	**16.5**	**17.6**	**14.5**	**22.2**	**13.4**
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	-	--	**-**	----	**-**	----	----
Synthetic Mineral Fibre	----	-	--	**No**	----	**No**	----	----
Organic Fibre	----	-	--	**Yes**	----	**Yes**	----	----
Sample weight (dry)	----	0.01	g	**395**	----	**510**	----	----
APPROVED IDENTIFIER:	----	-	--	**T. KUO**	----	**T. KUO**	----	----
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	**2**	**30**	**14**	<1	<1
Chromium	7440-47-3	2	mg/kg	**17**	**22**	**12**	**13**	**14**
Copper	7440-50-8	5	mg/kg	**53**	**62**	**68**	**40**	**52**
Lead	7439-92-1	5	mg/kg	**34**	**102**	**184**	**7**	**40**
Nickel	7440-02-0	2	mg/kg	**20**	**23**	**14**	**23**	**20**
Zinc	7440-66-6	5	mg/kg	**285**	**363**	**586**	**26**	**161**
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	**1.8**	**16.4**	**13.7**	<0.1	**0.1**
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	**0.6**	<0.5	<0.5	<0.5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	TP05_0.2	TP05_0.6	TP05_1.0	TP06_0.2	TP06_0.4
			Sampling date / time	18-Feb-2026 15:00	18-Feb-2026 15:00	18-Feb-2026 15:00	18-Feb-2026 14:30	18-Feb-2026 14:30
Compound	CAS Number	LOR	Unit	EM2602866-012	EM2602866-013	EM2602866-014	EM2602866-015	EM2602866-016
				Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued								
Pyrene	129-00-0	0.5	mg/kg	<0.5	**0.6**	<0.5	<0.5	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	**1.2**	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	**1.2**	**1.2**	**1.2**	**1.2**	**1.2**
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

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	TP05_0.2	TP05_0.6	TP05_1.0	TP06_0.2	TP06_0.4
			Sampling date / time	18-Feb-2026 15:00	18-Feb-2026 15:00	18-Feb-2026 15:00	18-Feb-2026 14:30	18-Feb-2026 14:30
Compound	CAS Number	LOR	Unit	EM2602866-012	EM2602866-013	EM2602866-014	EM2602866-015	EM2602866-016
				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	<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
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	**0.0004**	----	----	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	**0.0101**	----	----	----	----
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	TP05_0.2	TP05_0.6	TP05_1.0	TP06_0.2	TP06_0.4
			Sampling date / time	18-Feb-2026 15:00	18-Feb-2026 15:00	18-Feb-2026 15:00	18-Feb-2026 14:30	18-Feb-2026 14:30
Compound	CAS Number	LOR	Unit	EM2602866-012	EM2602866-013	EM2602866-014	EM2602866-015	EM2602866-016
				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	0.0105	----	----	----	----
Sum of PFAS (WA DER List)	----	0.0002	mg/kg	0.0105	----	----	----	----
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	0.5	%	79.6	80.2	74.5	78.4	76.6
2-Chlorophenol-D4	93951-73-6	0.5	%	82.2	85.2	79.5	82.8	79.6
2.4.6-Tribromophenol	118-79-6	0.5	%	82.0	95.5	87.2	78.8	76.4
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	0.5	%	89.7	88.3	80.7	90.2	89.0
Anthracene-d10	1719-06-8	0.5	%	111	110	106	108	105
4-Terphenyl-d14	1718-51-0	0.5	%	97.8	103	85.4	100	92.6
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.2	%	82.4	86.9	106	85.3	79.0
Toluene-D8	2037-26-5	0.2	%	78.2	96.6	62.9	74.3	71.5
4-Bromofluorobenzene	460-00-4	0.2	%	93.2	82.7	77.7	75.4	84.0
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.0002	%	94.0	----	----	----	----
13C8-PFOA	----	0.0002	%	95.6	----	----	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	TP06_0.7	TP07_0.1	TP07_0.5	TP07_1.3	TP08_0.1
			Sampling date / time	18-Feb-2026 14:30	18-Feb-2026 12:30	18-Feb-2026 12:30	18-Feb-2026 12:30	18-Feb-2026 12:00
Compound	CAS Number	LOR	Unit	EM2602866-017	EM2602866-018	EM2602866-019	EM2602866-020	EM2602866-021
				Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	16.2	10.6	9.0	13.9	8.9
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	-	--	-	----	----	----	----
Synthetic Mineral Fibre	----	-	--	No	----	----	----	----
Organic Fibre	----	-	--	Yes	----	----	----	----
Sample weight (dry)	----	0.01	g	483	----	----	----	----
APPROVED IDENTIFIER:	----	-	--	T. KUO	----	----	----	----
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	<5	<5	<5	9	<5
Cadmium	7440-43-9	1	mg/kg	<1	2	4	3	2
Chromium	7440-47-3	2	mg/kg	10	11	17	12	20
Copper	7440-50-8	5	mg/kg	42	65	78	53	69
Lead	7439-92-1	5	mg/kg	32	44	48	75	32
Nickel	7440-02-0	2	mg/kg	15	23	19	14	22
Zinc	7440-66-6	5	mg/kg	146	438	498	408	318
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	0.3	0.3	1.5	3.4	0.2
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5

Analytical Results

Sub-Matrix: SOIL
(Matrix: SOIL)

Compound	CAS Number	LOR	Unit	TP06_0.7	TP07_0.1	TP07_0.5	TP07_1.3	TP08_0.1
			Sampling date / time	18-Feb-2026 14:30	18-Feb-2026 12:30	18-Feb-2026 12:30	18-Feb-2026 12:30	18-Feb-2026 12:00
				EM2602866-017	EM2602866-018	EM2602866-019	EM2602866-020	EM2602866-021
				Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued								
Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	**1.2**	**1.2**	**1.2**	**1.2**	**1.2**
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	**170**	**130**	<100	**120**
C29 - C36 Fraction	----	100	mg/kg	<100	**540**	**310**	**110**	**200**
^ C10 - C36 Fraction (sum)	----	50	mg/kg	<50	**710**	**440**	**110**	**320**
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	**500**	**310**	**120**	**270**
>C34 - C40 Fraction	----	100	mg/kg	<100	**640**	**350**	**120**	**120**
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	**1140**	**660**	**240**	**390**

Analytical Results

Sub-Matrix: SOIL
(Matrix: SOIL)

			Sample ID	TP06_0.7	TP07_0.1	TP07_0.5	TP07_1.3	TP08_0.1
			Sampling date / time	18-Feb-2026 14:30	18-Feb-2026 12:30	18-Feb-2026 12:30	18-Feb-2026 12:30	18-Feb-2026 12:00
Compound	CAS Number	LOR	Unit	EM2602866-017	EM2602866-018	EM2602866-019	EM2602866-020	EM2602866-021
				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	<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
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	----	----	----	----	**0.0049**
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	TP06_0.7	TP07_0.1	TP07_0.5	TP07_1.3	TP08_0.1
			Sampling date / time	18-Feb-2026 14:30	18-Feb-2026 12:30	18-Feb-2026 12:30	18-Feb-2026 12:30	18-Feb-2026 12:00
Compound	CAS Number	LOR	Unit	EM2602866-017	EM2602866-018	EM2602866-019	EM2602866-020	EM2602866-021
				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	----	----	----	----	0.0051
Sum of PFAS (WA DER List)	----	0.0002	mg/kg	----	----	----	----	0.0051
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	0.5	%	76.3	78.9	81.4	87.4	84.0
2-Chlorophenol-D4	93951-73-6	0.5	%	82.0	84.5	86.1	93.6	89.3
2.4.6-Tribromophenol	118-79-6	0.5	%	85.5	82.4	85.9	89.5	92.7
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	0.5	%	92.9	87.1	88.4	103	94.9
Anthracene-d10	1719-06-8	0.5	%	114	104	114	112	111
4-Terphenyl-d14	1718-51-0	0.5	%	97.7	93.7	95.4	115	98.1
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.2	%	86.1	99.6	84.9	80.7	80.7
Toluene-D8	2037-26-5	0.2	%	77.5	55.8	86.7	76.1	76.2
4-Bromofluorobenzene	460-00-4	0.2	%	68.2	66.7	75.8	108	84.5
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.0002	%	----	----	----	----	100
13C8-PFOA	----	0.0002	%	----	----	----	----	100

Analytical Results

Sub-Matrix: SOIL
(Matrix: SOIL)

			Sample ID	TP08_0.4	TP08_1.2	TP09_0.1	TP09_0.7	TP09_1.0
			Sampling date / time	18-Feb-2026 12:00	18-Feb-2026 12:00	18-Feb-2026 14:00	18-Feb-2026 16:30	18-Feb-2026 16:30
Compound	CAS Number	LOR	Unit	EM2602866-022	EM2602866-023	EM2602866-024	EM2602866-025	EM2602866-026
				Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	**9.2**	**15.7**	**9.1**	**12.1**	**23.4**
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	-	--	----	**-**	----	**-**	----
Synthetic Mineral Fibre	----	-	--	----	**No**	----	**No**	----
Organic Fibre	----	-	--	----	**Yes**	----	**Yes**	----
Sample weight (dry)	----	0.01	g	----	**394**	----	**391**	----
APPROVED IDENTIFIER:	----	-	--	----	**T. KUO**	----	**T. KUO**	----
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	**7**	<1	**3**	<1	<1
Chromium	7440-47-3	2	mg/kg	**8**	**42**	**24**	**9**	**20**
Copper	7440-50-8	5	mg/kg	**101**	**58**	**74**	**20**	**79**
Lead	7439-92-1	5	mg/kg	**59**	**24**	**34**	**46**	**28**
Nickel	7440-02-0	2	mg/kg	**17**	**77**	**22**	**9**	**26**
Zinc	7440-66-6	5	mg/kg	**480**	**171**	**288**	**339**	**122**
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	**15.1**	**0.4**	**6.7**	**0.1**	**0.1**
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	**1.1**	<0.5	<0.5	<0.5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	TP08_0.4	TP08_1.2	TP09_0.1	TP09_0.7	TP09_1.0
			Sampling date / time	18-Feb-2026 12:00	18-Feb-2026 12:00	18-Feb-2026 14:00	18-Feb-2026 16:30	18-Feb-2026 16:30
Compound	CAS Number	LOR	Unit	EM2602866-022	EM2602866-023	EM2602866-024	EM2602866-025	EM2602866-026
				Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued								
Pyrene	129-00-0	0.5	mg/kg	<0.5	**1.0**	**0.5**	<0.5	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	**0.6**	<0.5	<0.5	<0.5
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	**0.5**	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	**0.6**	<0.5	<0.5	<0.5
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	**3.8**	**0.5**	<0.5	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	**0.6**	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	**0.6**	**0.9**	**0.6**	**0.6**	**0.6**
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	**1.2**	**1.2**	**1.2**	**1.2**	**1.2**
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	**120**	<100	<100	<100
>C34 - C40 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	**120**	<50	<50	<50

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	TP08_0.4	TP08_1.2	TP09_0.1	TP09_0.7	TP09_1.0
			Sampling date / time	18-Feb-2026 12:00	18-Feb-2026 12:00	18-Feb-2026 14:00	18-Feb-2026 16:30	18-Feb-2026 16:30
Compound	CAS Number	LOR	Unit	EM2602866-022	EM2602866-023	EM2602866-024	EM2602866-025	EM2602866-026
				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	<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
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	**0.0005**	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	----	----	<0.0002	**0.0037**	----
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	**0.0004**	----
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	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	TP08_0.4	TP08_1.2	TP09_0.1	TP09_0.7	TP09_1.0
			Sampling date / time	18-Feb-2026 12:00	18-Feb-2026 12:00	18-Feb-2026 14:00	18-Feb-2026 16:30	18-Feb-2026 16:30
Compound	CAS Number	LOR	Unit	EM2602866-022	EM2602866-023	EM2602866-024	EM2602866-025	EM2602866-026
				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	<0.0005	----
EP231P: PFAS Sums								
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg	----	----	<0.0002	**0.0042**	----
Sum of PFAS (WA DER List)	----	0.0002	mg/kg	----	----	<0.0002	**0.0046**	----
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	0.5	%	89.6	89.6	86.6	96.2	88.2
2-Chlorophenol-D4	93951-73-6	0.5	%	94.5	94.0	91.3	97.4	91.5
2.4.6-Tribromophenol	118-79-6	0.5	%	89.5	89.0	87.3	102	88.2
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	0.5	%	120	119	116	102	116
Anthracene-d10	1719-06-8	0.5	%	100	102	98.2	114	100.0
4-Terphenyl-d14	1718-51-0	0.5	%	105	102	101	97.9	103
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.2	%	74.0	66.6	81.0	77.6	73.7
Toluene-D8	2037-26-5	0.2	%	82.5	78.5	92.1	86.4	82.0
4-Bromofluorobenzene	460-00-4	0.2	%	98.4	95.0	108	104	96.3
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.0002	%	----	----	101	108	----
13C8-PFOA	----	0.0002	%	----	----	98.3	99.6	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	TP10_0.2	TP10_0.5	TP10_1.1	TP11_0.1	TP11_0.4
			Sampling date / time	18-Feb-2026 16:30	18-Feb-2026 14:00	18-Feb-2026 14:00	18-Feb-2026 09:00	18-Feb-2026 09:00
Compound	CAS Number	LOR	Unit	EM2602866-027	EM2602866-028	EM2602866-029	EM2602866-030	EM2602866-031
				Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	10.7	8.0	14.6	13.0	10.4
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	-	--	----	----	-	----	----
Synthetic Mineral Fibre	----	-	--	----	----	No	----	----
Organic Fibre	----	-	--	----	----	Yes	----	----
Sample weight (dry)	----	0.01	g	----	----	515	----	----
APPROVED IDENTIFIER:	----	-	--	----	----	T. KUO	----	----
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	2	3	1	7	4
Chromium	7440-47-3	2	mg/kg	18	20	19	13	14
Copper	7440-50-8	5	mg/kg	81	90	65	84	64
Lead	7439-92-1	5	mg/kg	2040	2220	655	40	132
Nickel	7440-02-0	2	mg/kg	19	15	18	18	22
Zinc	7440-66-6	5	mg/kg	435	423	221	375	576
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	0.2	0.2	0.2	6.1	3.7
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	0.6

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	TP10_0.2	TP10_0.5	TP10_1.1	TP11_0.1	TP11_0.4
			Sampling date / time	18-Feb-2026 16:30	18-Feb-2026 14:00	18-Feb-2026 14:00	18-Feb-2026 09:00	18-Feb-2026 09:00
Compound	CAS Number	LOR	Unit	EM2602866-027	EM2602866-028	EM2602866-029	EM2602866-030	EM2602866-031
				Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued								
Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	**0.7**
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	**1.3**
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	**1.2**	**1.2**	**1.2**	**1.2**	**1.2**
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	**110**	<100	<100	**130**
C29 - C36 Fraction	----	100	mg/kg	**230**	**170**	<100	**100**	**260**
^ C10 - C36 Fraction (sum)	----	50	mg/kg	**230**	**280**	<50	**100**	**390**
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	**230**	**200**	<100	**130**	**290**
>C34 - C40 Fraction	----	100	mg/kg	**300**	**240**	<100	**110**	**290**
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	**530**	**440**	<50	**240**	**580**

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	TP10_0.2	TP10_0.5	TP10_1.1	TP11_0.1	TP11_0.4
			Sampling date / time	18-Feb-2026 16:30	18-Feb-2026 14:00	18-Feb-2026 14:00	18-Feb-2026 09:00	18-Feb-2026 09:00
Compound	CAS Number	LOR	Unit	EM2602866-027	EM2602866-028	EM2602866-029	EM2602866-030	EM2602866-031
				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	<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
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	0.5	%	**91.0**	**86.3**	**86.1**	**88.8**	**91.1**
2-Chlorophenol-D4	93951-73-6	0.5	%	**92.6**	**91.0**	**91.0**	**92.7**	**94.2**
2.4.6-Tribromophenol	118-79-6	0.5	%	**89.7**	**97.4**	**89.5**	**93.4**	**100**
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	0.5	%	**118**	**117**	**114**	**117**	**120**
Anthracene-d10	1719-06-8	0.5	%	**100**	**97.6**	**97.5**	**99.3**	**101**
4-Terphenyl-d14	1718-51-0	0.5	%	**99.8**	**97.0**	**97.7**	**102**	**100**
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.2	%	**83.8**	**71.1**	**71.5**	**74.0**	**94.5**
Toluene-D8	2037-26-5	0.2	%	**89.6**	**78.6**	**81.3**	**78.6**	**87.3**
4-Bromofluorobenzene	460-00-4	0.2	%	**109**	**94.3**	**97.8**	**95.3**	**105**

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	TP11_1.0	TP11_1.5	TP12_0.2	TP12_1.0	TP13_0.1
			Sampling date / time	18-Feb-2026 09:00	18-Feb-2026 09:00	19-Feb-2026 14:30	19-Feb-2026 14:30	18-Feb-2026 08:30
Compound	CAS Number	LOR	Unit	EM2602866-032	EM2602866-033	EM2602866-034	EM2602866-035	EM2602866-036
				Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	11.6	19.2	16.5	19.4	10.5
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	-	--	-	----	----	-	-
Synthetic Mineral Fibre	----	-	--	Yes	----	----	No	No
Organic Fibre	----	-	--	Yes	----	----	Yes	Yes
Sample weight (dry)	----	0.01	g	477	----	----	440	311
APPROVED IDENTIFIER:	----	-	--	T. KUO	----	----	T. KUO	T. KUO
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	2	2	<1	<1	2
Chromium	7440-47-3	2	mg/kg	15	15	13	11	17
Copper	7440-50-8	5	mg/kg	28	42	45	49	37
Lead	7439-92-1	5	mg/kg	93	97	199	150	39
Nickel	7440-02-0	2	mg/kg	14	16	14	14	28
Zinc	7440-66-6	5	mg/kg	256	299	144	127	311
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	2.9	4.2	0.2	0.4	4.2
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	<0.5	0.8	<0.5
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.7	4.7	<0.5
Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	<0.5	1.2	<0.5
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	1.6	6.3	<0.5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	TP11_1.0	TP11_1.5	TP12_0.2	TP12_1.0	TP13_0.1
			Sampling date / time	18-Feb-2026 09:00	18-Feb-2026 09:00	19-Feb-2026 14:30	19-Feb-2026 14:30	18-Feb-2026 08:30
Compound	CAS Number	LOR	Unit	EM2602866-032	EM2602866-033	EM2602866-034	EM2602866-035	EM2602866-036
				Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued								
Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	**1.7**	**6.4**	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	**0.8**	**3.1**	<0.5
Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	**0.6**	**2.9**	<0.5
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	**1.0**	**3.5**	<0.5
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	<0.5	**1.4**	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	**0.8**	**3.2**	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	<0.5	**1.4**	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	**0.5**	**1.7**	<0.5
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	**7.7**	**36.6**	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	**1.0**	**4.2**	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	**0.6**	**0.6**	**1.3**	**4.4**	**0.6**
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	**1.2**	**1.2**	**1.6**	**4.7**	**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	**150**	<100
C29 - C36 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
^ C10 - C36 Fraction (sum)	----	50	mg/kg	<50	<50	<50	**150**	<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	**120**	<100	**110**	**210**	<100
>C34 - C40 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	**120**	<50	**110**	**210**	<50

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	TP11_1.0	TP11_1.5	TP12_0.2	TP12_1.0	TP13_0.1
			Sampling date / time	18-Feb-2026 09:00	18-Feb-2026 09:00	19-Feb-2026 14:30	19-Feb-2026 14:30	18-Feb-2026 08:30
Compound	CAS Number	LOR	Unit	EM2602866-032	EM2602866-033	EM2602866-034	EM2602866-035	EM2602866-036
				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	<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
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	----	----	----	----	**0.0003**
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	----	----	----	----	**0.0003**
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	TP11_1.0	TP11_1.5	TP12_0.2	TP12_1.0	TP13_0.1
			Sampling date / time	18-Feb-2026 09:00	18-Feb-2026 09:00	19-Feb-2026 14:30	19-Feb-2026 14:30	18-Feb-2026 08:30
Compound	CAS Number	LOR	Unit	EM2602866-032	EM2602866-033	EM2602866-034	EM2602866-035	EM2602866-036
				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	----	----	----	----	**0.0006**
Sum of PFAS (WA DER List)	----	0.0002	mg/kg	----	----	----	----	**0.0006**
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	0.5	%	88.5	92.6	84.9	89.5	86.9
2-Chlorophenol-D4	93951-73-6	0.5	%	93.7	96.5	89.6	93.0	91.7
2.4.6-Tribromophenol	118-79-6	0.5	%	95.3	96.2	94.1	94.8	87.3
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	0.5	%	118	121	113	119	118
Anthracene-d10	1719-06-8	0.5	%	100	102	98.4	96.7	100
4-Terphenyl-d14	1718-51-0	0.5	%	97.3	104	95.0	94.5	105
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.2	%	77.0	70.2	77.5	70.8	86.0
Toluene-D8	2037-26-5	0.2	%	85.8	76.1	85.6	76.4	97.4
4-Bromofluorobenzene	460-00-4	0.2	%	105	91.9	102	93.2	114
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.0002	%	----	----	----	----	99.0
13C8-PFOA	----	0.0002	%	----	----	----	----	94.3

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	TP13_1.0	TP13_1.4	SP01	SP02	SP03
			Sampling date / time	18-Feb-2026 08:30	18-Feb-2026 08:30	18-Feb-2026 00:00	18-Feb-2026 00:00	18-Feb-2026 00:00
Compound	CAS Number	LOR	Unit	EM2602866-037	EM2602866-038	EM2602866-039	EM2602866-040	EM2602866-041
				Result	Result	Result	Result	Result
EA001: pH in soil using 0.01M CaCl extract								
pH (CaCl2)	----	0.1	pH Unit	7.3	----	7.6	----	----
EA002-AD: pH (Soils) dried at 40°C								
pH Value	----	0.1	pH Unit	8.9	----	9.1	----	----
EA010-AD: Conductivity (Soils) dried at 40°C								
Electrical Conductivity @ 25°C	----	1	µS/cm	455	----	293	----	----
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	15.3	11.2	13.5	7.7	8.1
EA150: Soil Classification based on Particle Size								
Clay (<2 µm)	----	1	%	12	----	11	----	----
EA152: Soil Particle Density								
Soil Particle Density (Clay/Silt/Sand)	----	0.01	g/cm3	2.64	----	2.66	----	----
ED006: Exchangeable Cations on Alkaline Soils								
ø Exchangeable Calcium	----	0.2	meq/100g	13.7	----	6.3	----	----
ø Exchangeable Magnesium	----	0.2	meq/100g	5.9	----	7.6	----	----
ø Exchangeable Potassium	----	0.2	meq/100g	0.9	----	<0.2	----	----
ø Exchangeable Sodium	----	0.2	meq/100g	2.6	----	1.6	----	----
ø Cation Exchange Capacity	----	0.2	meq/100g	23.1	----	15.5	----	----
ø Exchangeable Calcium Percent	----	0.2	%	59.3	----	40.8	----	----
ø Exchangeable Magnesium Percent	----	0.2	%	25.6	----	49.0	----	----
ø Exchangeable Potassium Percent	----	0.2	%	3.7	----	<0.2	----	----
ø Exchangeable Sodium Percent	----	0.2	%	11.4	----	10.2	----	----
ø Calcium/Magnesium Ratio	----	0.2	-	2.3	----	0.8	----	----
ø Magnesium/Potassium Ratio	----	0.2	-	----	----	<0.2	----	----
ø Magnesium/Potassium Ratio	----	0.2	-	6.9	----	----	----	----
EG005(ED093)T: Total Metals by ICP-AES								
Iron	7439-89-6	0.005	%	3.31	----	2.50	----	----
Arsenic	7440-38-2	5	mg/kg	50	<5	<5	<5	<5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	TP13_1.0	TP13_1.4	SP01	SP02	SP03
			Sampling date / time	18-Feb-2026 08:30	18-Feb-2026 08:30	18-Feb-2026 00:00	18-Feb-2026 00:00	18-Feb-2026 00:00
Compound	CAS Number	LOR	Unit	EM2602866-037	EM2602866-038	EM2602866-039	EM2602866-040	EM2602866-041
				Result	Result	Result	Result	Result
EG005(ED093)T: Total Metals by ICP-AES - Continued								
Cadmium	7440-43-9	1	mg/kg	**4**	**4**	<1	<1	**2**
Chromium	7440-47-3	2	mg/kg	**54**	**18**	**12**	<2	**16**
Copper	7440-50-8	5	mg/kg	**153**	**60**	**56**	**5**	**40**
Lead	7439-92-1	5	mg/kg	**29**	**64**	<5	**21**	**57**
Nickel	7440-02-0	2	mg/kg	**25**	**22**	**23**	**13**	**15**
Zinc	7440-66-6	5	mg/kg	**325**	**493**	**47**	**71**	**380**
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	**0.2**	**7.8**	<0.1	<0.1	**0.2**
EP004: Organic Matter								
Organic Matter	----	0.5	%	**1.0**	----	<0.5	----	----
Total Organic Carbon	----	0.5	%	**0.6**	----	<0.5	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	TP13_1.0	TP13_1.4	SP01	SP02	SP03
			Sampling date / time	18-Feb-2026 08:30	18-Feb-2026 08:30	18-Feb-2026 00:00	18-Feb-2026 00:00	18-Feb-2026 00:00
Compound	CAS Number	LOR	Unit	EM2602866-037	EM2602866-038	EM2602866-039	EM2602866-040	EM2602866-041
				Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued								
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	**1.2**	**1.2**	**1.2**	**1.2**	**1.2**
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	**210**	<100	<100	<100
^ C10 - C36 Fraction (sum)	----	50	mg/kg	<50	**210**	<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	**210**	<100	<100	<100
>C34 - C40 Fraction	----	100	mg/kg	<100	**250**	<100	<100	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	**460**	<50	<50	<50
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	<50	<50	<50	<50	<50
EP080: BTEXN								
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of BTEX	----	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	TP13_1.0	TP13_1.4	SP01	SP02	SP03
			Sampling date / time	18-Feb-2026 08:30	18-Feb-2026 08:30	18-Feb-2026 00:00	18-Feb-2026 00:00	18-Feb-2026 00:00
Compound	CAS Number	LOR	Unit	EM2602866-037	EM2602866-038	EM2602866-039	EM2602866-040	EM2602866-041
				Result	Result	Result	Result	Result
EP080: BTEXN - Continued								
^ 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								
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	----	----
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	0.5	%	87.4	83.3	87.4	87.3	95.1
2-Chlorophenol-D4	93951-73-6	0.5	%	91.9	88.2	94.0	92.5	97.9

Analytical Results

Sub-Matrix: SOIL
(Matrix: SOIL)

Compound	CAS Number	LOR	Unit	TP13_1.0	TP13_1.4	SP01	SP02	SP03
Sampling date / time				18-Feb-2026 08:30	18-Feb-2026 08:30	18-Feb-2026 00:00	18-Feb-2026 00:00	18-Feb-2026 00:00
				EM2602866-037	EM2602866-038	EM2602866-039	EM2602866-040	EM2602866-041
				Result	Result	Result	Result	Result
EP075(SIM)S: Phenolic Compound Surrogates - Continued								
2.4.6-Tribromophenol	118-79-6	0.5	%	85.3	89.6	88.2	88.0	101
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	0.5	%	117	101	121	119	108
Anthracene-d10	1719-06-8	0.5	%	99.2	98.1	104	102	114
4-Terphenyl-d14	1718-51-0	0.5	%	102	105	104	103	110
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.2	%	71.2	80.0	74.3	66.7	57.1
Toluene-D8	2037-26-5	0.2	%	77.4	88.0	81.2	76.2	67.4
4-Bromofluorobenzene	460-00-4	0.2	%	90.7	101	94.5	88.8	86.6
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.0002	%	----	----	105	----	----
13C8-PFOA	----	0.0002	%	----	----	98.0	----	----

Analytical Results

Sub-Matrix: SOIL
(Matrix: SOIL)

Compound	CAS Number	LOR	Unit	SP04	SP05	SP06	SP07	SP08
Sampling date / time				18-Feb-2026 00:00	18-Feb-2026 00:00	18-Feb-2026 00:00	18-Feb-2026 00:00	18-Feb-2026 00:00
				EM2602866-042	EM2602866-043	EM2602866-044	EM2602866-045	EM2602866-046
				Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	**11.9**	**8.9**	**4.8**	**14.1**	**22.9**
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	<5	**8**	<5	<5	<5
Cadmium	7440-43-9	1	mg/kg	<1	**5**	<1	<1	<1
Chromium	7440-47-3	2	mg/kg	**15**	**44**	**10**	**19**	**43**
Copper	7440-50-8	5	mg/kg	**70**	**114**	**36**	**57**	**74**
Lead	7439-92-1	5	mg/kg	**6**	**529**	**8**	**22**	**11**
Nickel	7440-02-0	2	mg/kg	**21**	**34**	**17**	**69**	**32**
Zinc	7440-66-6	5	mg/kg	**52**	**820**	**35**	**79**	**30**
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	**1.4**	<0.1	<0.1	<0.1
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	**0.9**
Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	<0.5	**0.8**	**3.0**
Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	<0.5	**0.7**	**3.1**
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	**1.4**
Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	**1.2**
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	**2.4**
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	**0.6**
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	**2.1**
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	**1.1**
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	SP04	SP05	SP06	SP07	SP08
			Sampling date / time	18-Feb-2026 00:00	18-Feb-2026 00:00	18-Feb-2026 00:00	18-Feb-2026 00:00	18-Feb-2026 00:00
Compound	*CAS Number*	*LOR*	*Unit*	EM2602866-042	EM2602866-043	EM2602866-044	EM2602866-045	EM2602866-046
				Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued								
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	**1.5**
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	<0.5	**1.5**	**17.3**
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	**2.7**
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	**0.6**	**0.6**	**0.6**	**0.6**	**2.9**
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	**1.2**	**1.2**	**1.2**	**1.2**	**3.2**
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	**140**	<100	<100	<100
C29 - C36 Fraction	----	100	mg/kg	<100	**310**	<100	<100	<100
^ C10 - C36 Fraction (sum)	----	50	mg/kg	<50	**450**	<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	**340**	<100	<100	<100
>C34 - C40 Fraction	----	100	mg/kg	<100	**350**	<100	<100	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	**690**	<50	<50	<50
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	<50	<50	<50	<50	<50
EP080: BTEXN								
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of BTEX	----	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2

Analytical Results

Sub-Matrix: SOIL
(Matrix: SOIL)

Compound	CAS Number	LOR	Unit	SP04	SP05	SP06	SP07	SP08
Sampling date / time				18-Feb-2026 00:00	18-Feb-2026 00:00	18-Feb-2026 00:00	18-Feb-2026 00:00	18-Feb-2026 00:00
				EM2602866-042	EM2602866-043	EM2602866-044	EM2602866-045	EM2602866-046
				Result	Result	Result	Result	Result
EP080: BTEXN - Continued								
^ 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								
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	----	----
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	0.5	%	**102**	**95.2**	**93.7**	**98.3**	**96.9**
2-Chlorophenol-D4	93951-73-6	0.5	%	**107**	**95.6**	**98.3**	**102**	**101**

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	SP04	SP05	SP06	SP07	SP08
			Sampling date / time	18-Feb-2026 00:00	18-Feb-2026 00:00	18-Feb-2026 00:00	18-Feb-2026 00:00	18-Feb-2026 00:00
Compound	CAS Number	LOR	Unit	EM2602866-042	EM2602866-043	EM2602866-044	EM2602866-045	EM2602866-046
				Result	Result	Result	Result	Result
EP075(SIM)S: Phenolic Compound Surrogates - Continued								
2.4.6-Tribromophenol	118-79-6	0.5	%	45.5	62.0	62.3	56.8	60.9
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	0.5	%	108	98.5	98.6	104	100
Anthracene-d10	1719-06-8	0.5	%	113	117	120	121	127
4-Terphenyl-d14	1718-51-0	0.5	%	103	94.4	93.0	99.2	96.6
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.2	%	89.7	83.2	90.7	81.8	70.2
Toluene-D8	2037-26-5	0.2	%	70.9	98.2	59.4	119	63.2
4-Bromofluorobenzene	460-00-4	0.2	%	94.2	88.3	88.7	89.9	73.3
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.0002	%	----	----	105	----	----
13C8-PFOA	----	0.0002	%	----	----	100	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	SP09	SP10	SP11	SP12	SP13
			Sampling date / time	18-Feb-2026 00:00	18-Feb-2026 00:00	18-Feb-2026 00:00	18-Feb-2026 00:00	18-Feb-2026 00:00
Compound	CAS Number	LOR	Unit	EM2602866-047	EM2602866-048	EM2602866-049	EM2602866-050	EM2602866-051
				Result	Result	Result	Result	Result
EA001: pH in soil using 0.01M CaCl extract								
pH (CaCl2)	----	0.1	pH Unit	----	7.3	----	----	----
EA002-AD: pH (Soils) dried at 40°C								
pH Value	----	0.1	pH Unit	----	8.4	----	----	----
EA010-AD: Conductivity (Soils) dried at 40°C								
Electrical Conductivity @ 25°C	----	1	µS/cm	----	254	----	----	----
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	17.9	15.0	20.6	17.5	17.1
EA150: Soil Classification based on Particle Size								
Clay (<2 µm)	----	1	%	----	8	----	----	----
EA152: Soil Particle Density								
Soil Particle Density (Clay/Silt/Sand)	----	0.01	g/cm3	----	2.80	----	----	----
ED006: Exchangeable Cations on Alkaline Soils								
ø Exchangeable Calcium	----	0.2	meq/100g	----	14.3	----	----	----
ø Exchangeable Magnesium	----	0.2	meq/100g	----	6.5	----	----	----
ø Exchangeable Potassium	----	0.2	meq/100g	----	0.4	----	----	----
ø Exchangeable Sodium	----	0.2	meq/100g	----	1.1	----	----	----
ø Cation Exchange Capacity	----	0.2	meq/100g	----	22.3	----	----	----
ø Exchangeable Calcium Percent	----	0.2	%	----	64.1	----	----	----
ø Exchangeable Magnesium Percent	----	0.2	%	----	29.3	----	----	----
ø Exchangeable Potassium Percent	----	0.2	%	----	1.8	----	----	----
ø Exchangeable Sodium Percent	----	0.2	%	----	4.9	----	----	----
ø Calcium/Magnesium Ratio	----	0.2	-	----	2.2	----	----	----
ø Magnesium/Potassium Ratio	----	0.2	-	----	16.3	----	----	----
EG005(ED093)T: Total Metals by ICP-AES								
Iron	7439-89-6	0.005	%	----	3.02	----	----	----
Arsenic	7440-38-2	5	mg/kg	<5	<5	<5	<5	<5
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	SP09	SP10	SP11	SP12	SP13
			Sampling date / time	18-Feb-2026 00:00	18-Feb-2026 00:00	18-Feb-2026 00:00	18-Feb-2026 00:00	18-Feb-2026 00:00
Compound	CAS Number	LOR	Unit	EM2602866-047	EM2602866-048	EM2602866-049	EM2602866-050	EM2602866-051
				Result	Result	Result	Result	Result
EG005(ED093)T: Total Metals by ICP-AES - Continued								
Chromium	7440-47-3	2	mg/kg	**28**	**26**	**12**	**22**	**10**
Copper	7440-50-8	5	mg/kg	**16**	**42**	**6**	**14**	**8**
Lead	7439-92-1	5	mg/kg	**9**	**35**	<5	**10**	<5
Nickel	7440-02-0	2	mg/kg	**20**	**43**	**5**	**10**	**5**
Zinc	7440-66-6	5	mg/kg	**35**	**114**	**6**	**19**	**7**
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EP004: Organic Matter								
Organic Matter	----	0.5	%	----	**4.4**	----	----	----
Total Organic Carbon	----	0.5	%	----	**2.5**	----	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	**1.0**	<0.5	<0.5	<0.5
Pyrene	129-00-0	0.5	mg/kg	<0.5	**1.0**	<0.5	<0.5	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	**0.7**	<0.5	<0.5	<0.5
Chrysene	218-01-9	0.5	mg/kg	<0.5	**0.6**	<0.5	<0.5	<0.5
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	**0.7**	<0.5	<0.5	<0.5
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	**0.7**	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)					Sample ID	SP09	SP10	SP11	SP12	SP13
					Sampling date / time	18-Feb-2026 00:00	18-Feb-2026 00:00	18-Feb-2026 00:00	18-Feb-2026 00:00	18-Feb-2026 00:00
	Compound	CAS Number	LOR	Unit		EM2602866-047	EM2602866-048	EM2602866-049	EM2602866-050	EM2602866-051
						Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued										
^	Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg		<0.5	**4.7**	<0.5	<0.5	<0.5
^	Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg		<0.5	**0.8**	<0.5	<0.5	<0.5
^	Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg		**0.6**	**1.1**	**0.6**	**0.6**	**0.6**
^	Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg		**1.2**	**1.5**	**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	**110**	<100	<100	<100
	>C34 - C40 Fraction	----	100	mg/kg		<100	<100	<100	<100	<100
^	>C10 - C40 Fraction (sum)	----	50	mg/kg		<50	**110**	<50	<50	<50
^	>C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg		<50	<50	<50	<50	<50
EP080: BTEXN										
	Benzene	71-43-2	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
	Toluene	108-88-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	100-41-4	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
	meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
	ortho-Xylene	95-47-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
^	Sum of BTEX	----	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
^	Total Xylenes	----	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	SP09	SP10	SP11	SP12	SP13
			Sampling date / time	18-Feb-2026 00:00	18-Feb-2026 00:00	18-Feb-2026 00:00	18-Feb-2026 00:00	18-Feb-2026 00:00
Compound	CAS Number	LOR	Unit	EM2602866-047	EM2602866-048	EM2602866-049	EM2602866-050	EM2602866-051
				Result	Result	Result	Result	Result
EP080: BTEXN - Continued								
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	----	**0.0003**	----	----	----
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	----	**0.0003**	----	----	----
Sum of PFAS (WA DER List)	----	0.0002	mg/kg	----	**0.0003**	----	----	----
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	0.5	%	**99.7**	**100**	**98.9**	**100**	**98.4**
2-Chlorophenol-D4	93951-73-6	0.5	%	**105**	**101**	**101**	**102**	**101**
2.4.6-Tribromophenol	118-79-6	0.5	%	**73.1**	**65.9**	**54.0**	**55.0**	**44.3**

Analytical Results

Sub-Matrix: SOIL
(Matrix: SOIL)

			Sample ID	SP09	SP10	SP11	SP12	SP13
			Sampling date / time	18-Feb-2026 00:00	18-Feb-2026 00:00	18-Feb-2026 00:00	18-Feb-2026 00:00	18-Feb-2026 00:00
Compound	*CAS Number*	*LOR*	*Unit*	EM2602866-047	EM2602866-048	EM2602866-049	EM2602866-050	EM2602866-051
				Result	Result	Result	Result	Result
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	0.5	%	105	103	100	105	102
Anthracene-d10	1719-06-8	0.5	%	125	117	128	115	110
4-Terphenyl-d14	1718-51-0	0.5	%	98.6	100	101	104	101
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.2	%	77.8	84.1	78.6	81.4	72.6
Toluene-D8	2037-26-5	0.2	%	61.9	77.6	68.3	80.6	81.4
4-Bromofluorobenzene	460-00-4	0.2	%	85.2	103	91.6	91.7	71.4
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.0002	%	----	102	----	----	----
13C8-PFOA	----	0.0002	%	----	98.2	----	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)

Compound	CAS Number	LOR	Unit	SP14	SP15	SP16	SP17	SP18
Sampling date / time				18-Feb-2026 00:00	18-Feb-2026 00:00	18-Feb-2026 00:00	18-Feb-2026 00:00	18-Feb-2026 00:00
				EM2602866-052	EM2602866-053	EM2602866-054	EM2602866-055	EM2602866-056
				Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	17.7	10.7	14.1	5.9	13.8
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	11	11	22	14	15
Copper	7440-50-8	5	mg/kg	11	<5	19	<5	<5
Lead	7439-92-1	5	mg/kg	<5	<5	8	<5	<5
Nickel	7440-02-0	2	mg/kg	5	<2	14	<2	4
Zinc	7440-66-6	5	mg/kg	7	<5	17	<5	11
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)

	Compound	CAS Number	LOR	Unit	SP14	SP15	SP16	SP17	SP18
				Sampling date / time	18-Feb-2026 00:00	18-Feb-2026 00:00	18-Feb-2026 00:00	18-Feb-2026 00:00	18-Feb-2026 00:00
					EM2602866-052	EM2602866-053	EM2602866-054	EM2602866-055	EM2602866-056
					Result	Result	Result	Result	Result
	EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued								
	Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^	Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^	Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^	Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**
^	Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	**1.2**	**1.2**	**1.2**	**1.2**	**1.2**
	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
^	Sum of BTEX	----	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2

Analytical Results

Sub-Matrix: SOIL
(Matrix: SOIL)

Compound	CAS Number	LOR	Unit	SP14	SP15	SP16	SP17	SP18
			Sampling date / time	18-Feb-2026 00:00	18-Feb-2026 00:00	18-Feb-2026 00:00	18-Feb-2026 00:00	18-Feb-2026 00:00
				EM2602866-052	EM2602866-053	EM2602866-054	EM2602866-055	EM2602866-056
				Result	Result	Result	Result	Result
EP080: BTEXN - Continued								
^ 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
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	0.5	%	101	99.3	95.6	93.3	92.6
2-Chlorophenol-D4	93951-73-6	0.5	%	103	101	98.1	94.3	97.5
2.4.6-Tribromophenol	118-79-6	0.5	%	46.8	44.5	46.8	42.3	44.5
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	0.5	%	104	102	97.8	101	102
Anthracene-d10	1719-06-8	0.5	%	111	114	128	130	114
4-Terphenyl-d14	1718-51-0	0.5	%	102	103	97.5	102	100
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.2	%	63.1	80.5	82.0	88.8	90.0
Toluene-D8	2037-26-5	0.2	%	75.5	77.1	77.4	82.9	87.2
4-Bromofluorobenzene	460-00-4	0.2	%	79.3	78.5	86.3	88.7	85.6

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	SP19	SP20	SP21	SP22	SP23
			Sampling date / time	18-Feb-2026 00:00	18-Feb-2026 00:00	18-Feb-2026 00:00	18-Feb-2026 00:00	18-Feb-2026 00:00
Compound	CAS Number	LOR	Unit	EM2602866-057	EM2602866-058	EM2602866-059	EM2602866-060	EM2602866-061
				Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	**17.3**	**13.1**	**19.4**	**15.0**	**11.4**
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	-	--	----	----	----	**-**	**-**
Synthetic Mineral Fibre	----	-	--	----	----	----	**No**	**No**
Organic Fibre	----	-	--	----	----	----	**No**	**No**
Sample weight (dry)	----	0.01	g	----	----	----	**435**	**510**
APPROVED IDENTIFIER:	----	-	--	----	----	----	**T. KUO**	**T. KUO**
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**	**28**	**11**	**12**
Copper	7440-50-8	5	mg/kg	<5	<5	<5	<5	**6**
Lead	7439-92-1	5	mg/kg	<5	<5	<5	<5	<5
Nickel	7440-02-0	2	mg/kg	<2	<2	<2	**2**	**5**
Zinc	7440-66-6	5	mg/kg	<5	**7**	<5	<5	**19**
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	SP19	SP20	SP21	SP22	SP23
			Sampling date / time	18-Feb-2026 00:00	18-Feb-2026 00:00	18-Feb-2026 00:00	18-Feb-2026 00:00	18-Feb-2026 00:00
Compound	CAS Number	LOR	Unit	EM2602866-057	EM2602866-058	EM2602866-059	EM2602866-060	EM2602866-061
				Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued								
Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	**1.2**	**1.2**	**1.2**	**1.2**	**1.2**
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

Analytical Results

Sub-Matrix: SOIL
(Matrix: SOIL)

	Compound	CAS Number	LOR	Unit	SP19	SP20	SP21	SP22	SP23
				Sampling date / time	18-Feb-2026 00:00	18-Feb-2026 00:00	18-Feb-2026 00:00	18-Feb-2026 00:00	18-Feb-2026 00:00
					EM2602866-057	EM2602866-058	EM2602866-059	EM2602866-060	EM2602866-061
					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	<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
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	----	----	----	----	**0.0042**
	Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	----	----	----	----	**0.122**
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	----	----	----	----	**0.0003**
	Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	----	----	----	----	<0.0002
	Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	----	----	----	----	**0.0003**
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	SP19	SP20	SP21	SP22	SP23
			Sampling date / time	18-Feb-2026 00:00	18-Feb-2026 00:00	18-Feb-2026 00:00	18-Feb-2026 00:00	18-Feb-2026 00:00
Compound	CAS Number	LOR	Unit	EM2602866-057	EM2602866-058	EM2602866-059	EM2602866-060	EM2602866-061
				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	----	----	----	----	0.126
Sum of PFAS (WA DER List)	----	0.0002	mg/kg	----	----	----	----	0.127
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	0.5	%	94.9	94.4	99.8	96.3	94.0
2-Chlorophenol-D4	93951-73-6	0.5	%	98.0	95.1	102	98.3	98.9
2.4.6-Tribromophenol	118-79-6	0.5	%	37.1	43.1	42.2	42.8	43.5
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	0.5	%	100	102	103	102	103
Anthracene-d10	1719-06-8	0.5	%	124	112	118	111	119
4-Terphenyl-d14	1718-51-0	0.5	%	98.5	101	104	101	104
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.2	%	82.0	85.5	89.3	85.7	90.0
Toluene-D8	2037-26-5	0.2	%	76.5	78.8	84.9	80.4	84.8
4-Bromofluorobenzene	460-00-4	0.2	%	81.5	80.2	90.4	80.1	85.5
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.0002	%	----	----	----	----	95.8
13C8-PFOA	----	0.0002	%	----	----	----	----	82.2

Analytical Results

Sub-Matrix: SOIL
(Matrix: SOIL)

Compound	CAS Number	LOR	Unit	SP24	SP25	SP26	SP27	SP28
			Sampling date / time	18-Feb-2026 00:00	18-Feb-2026 00:00	18-Feb-2026 00:00	18-Feb-2026 00:00	18-Feb-2026 00:00
				EM2602866-062	EM2602866-063	EM2602866-064	EM2602866-065	EM2602866-066
				Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	**15.7**	**20.5**	**18.7**	**11.1**	**21.0**
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	-	--	----	----	----	**-**	----
Synthetic Mineral Fibre	----	-	--	----	----	----	**No**	----
Organic Fibre	----	-	--	----	----	----	**Yes**	----
Sample weight (dry)	----	0.01	g	----	----	----	**391**	----
APPROVED IDENTIFIER:	----	-	--	----	----	----	**T. KUO**	----
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**	**17**	**21**	**11**	**17**
Copper	7440-50-8	5	mg/kg	**8**	**10**	**14**	<5	**13**
Lead	7439-92-1	5	mg/kg	<5	**6**	**9**	<5	**7**
Nickel	7440-02-0	2	mg/kg	**7**	**10**	**13**	**4**	**13**
Zinc	7440-66-6	5	mg/kg	**9**	**8**	**13**	<5	**15**
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	SP24	SP25	SP26	SP27	SP28
			Sampling date / time	18-Feb-2026 00:00	18-Feb-2026 00:00	18-Feb-2026 00:00	18-Feb-2026 00:00	18-Feb-2026 00:00
Compound	CAS Number	LOR	Unit	EM2602866-062	EM2602866-063	EM2602866-064	EM2602866-065	EM2602866-066
				Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued								
Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ **Sum of polycyclic aromatic hydrocarbons**	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ **Benzo(a)pyrene TEQ (zero)**	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ **Benzo(a)pyrene TEQ (half LOR)**	----	0.5	mg/kg	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**
^ **Benzo(a)pyrene TEQ (LOR)**	----	0.5	mg/kg	**1.2**	**1.2**	**1.2**	**1.2**	**1.2**
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

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	SP24	SP25	SP26	SP27	SP28
			Sampling date / time	18-Feb-2026 00:00	18-Feb-2026 00:00	18-Feb-2026 00:00	18-Feb-2026 00:00	18-Feb-2026 00:00
Compound	CAS Number	LOR	Unit	EM2602866-062	EM2602866-063	EM2602866-064	EM2602866-065	EM2602866-066
				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	<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
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	SP24	SP25	SP26	SP27	SP28
			Sampling date / time	18-Feb-2026 00:00	18-Feb-2026 00:00	18-Feb-2026 00:00	18-Feb-2026 00:00	18-Feb-2026 00:00
Compound	CAS Number	LOR	Unit	EM2602866-062	EM2602866-063	EM2602866-064	EM2602866-065	EM2602866-066
				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
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	0.5	%	**85.9**	**87.7**	**88.1**	**91.7**	**86.2**
2-Chlorophenol-D4	93951-73-6	0.5	%	**90.8**	**91.3**	**92.3**	**95.1**	**89.4**
2.4.6-Tribromophenol	118-79-6	0.5	%	**98.3**	**93.3**	**90.6**	**99.9**	**91.3**
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	0.5	%	**99.1**	**97.1**	**96.4**	**101**	**93.3**
Anthracene-d10	1719-06-8	0.5	%	**104**	**110**	**113**	**116**	**112**
4-Terphenyl-d14	1718-51-0	0.5	%	**104**	**102**	**106**	**111**	**101**
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.2	%	**91.5**	**83.3**	**92.8**	**82.7**	**88.5**
Toluene-D8	2037-26-5	0.2	%	**87.2**	**81.9**	**89.3**	**76.6**	**84.4**
4-Bromofluorobenzene	460-00-4	0.2	%	**94.3**	**88.0**	**96.8**	**79.0**	**89.4**
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.0002	%	----	----	----	----	**107**
13C8-PFOA	----	0.0002	%	----	----	----	----	**96.7**

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	SP29	SP30	QCP01	QCP04	TRIP1
			Sampling date / time	19-Feb-2026 00:00	19-Feb-2026 00:00	18-Feb-2026 00:00	18-Feb-2026 00:00	18-Feb-2026 00:00
Compound	CAS Number	LOR	Unit	EM2602866-067	EM2602866-068	EM2602866-069	EM2602866-070	EM2602866-071
				Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	**7.5**	**13.4**	**10.7**	**19.1**	**14.1**
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	<5	<5	<5	<5	<5
Cadmium	7440-43-9	1	mg/kg	<1	<1	**3**	**4**	<1
Chromium	7440-47-3	2	mg/kg	**21**	**11**	**15**	**25**	**8**
Copper	7440-50-8	5	mg/kg	**9**	<5	**30**	**58**	**19**
Lead	7439-92-1	5	mg/kg	**5**	<5	**139**	**52**	<5
Nickel	7440-02-0	2	mg/kg	**5**	**3**	**11**	**24**	**17**
Zinc	7440-66-6	5	mg/kg	**10**	**6**	**226**	**332**	**21**
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	**2.2**	**20.3**	<0.1
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	SP29	SP30	QCP01	QCP04	TRIP1
			Sampling date / time	19-Feb-2026 00:00	19-Feb-2026 00:00	18-Feb-2026 00:00	18-Feb-2026 00:00	18-Feb-2026 00:00
Compound	CAS Number	LOR	Unit	EM2602866-067	EM2602866-068	EM2602866-069	EM2602866-070	EM2602866-071
				Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued								
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	**1.2**	**1.2**	**1.2**	**1.2**	**1.2**
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
^ Sum of BTEX	----	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	SP29	SP30	QCP01	QCP04	TRIP1
			Sampling date / time	19-Feb-2026 00:00	19-Feb-2026 00:00	18-Feb-2026 00:00	18-Feb-2026 00:00	18-Feb-2026 00:00
Compound	CAS Number	LOR	Unit	EM2602866-067	EM2602866-068	EM2602866-069	EM2602866-070	EM2602866-071
				Result	Result	Result	Result	Result
EP080: BTEXN - Continued								
^ **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
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	0.5	%	**91.1**	**90.9**	**77.7**	**87.3**	**90.5**
2-Chlorophenol-D4	93951-73-6	0.5	%	**95.5**	**94.3**	**80.2**	**90.5**	**93.8**
2.4.6-Tribromophenol	118-79-6	0.5	%	**95.2**	**88.6**	**84.7**	**96.4**	**92.2**
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	0.5	%	**105**	**102**	**91.6**	**101**	**100**
Anthracene-d10	1719-06-8	0.5	%	**119**	**116**	**102**	**114**	**111**
4-Terphenyl-d14	1718-51-0	0.5	%	**110**	**107**	**96.9**	**106**	**106**
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.2	%	**85.2**	**78.6**	**83.6**	**79.2**	**85.2**
Toluene-D8	2037-26-5	0.2	%	**82.2**	**76.6**	**76.6**	**78.0**	**80.7**
4-Bromofluorobenzene	460-00-4	0.2	%	**90.5**	**80.6**	**82.0**	**82.0**	**88.3**

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	TRIP3	TRIPBLANK	TP09_1.4	----	----
			Sampling date / time	18-Feb-2026 00:00	18-Feb-2026 00:00	18-Feb-2026 00:00	----	----
Compound	CAS Number	LOR	Unit	EM2602866-072	EM2602866-075	EM2602866-077	--------	--------
				Result	Result	Result	----	----
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	**16.2**	**16.0**	**18.8**	----	----
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	<5	----	**12**	----	----
Cadmium	7440-43-9	1	mg/kg	<1	----	**7**	----	----
Chromium	7440-47-3	2	mg/kg	**12**	----	**17**	----	----
Copper	7440-50-8	5	mg/kg	**7**	----	**172**	----	----
Lead	7439-92-1	5	mg/kg	<5	----	**95**	----	----
Nickel	7440-02-0	2	mg/kg	**6**	----	**23**	----	----
Zinc	7440-66-6	5	mg/kg	**6**	----	**585**	----	----
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	----	**0.7**	----	----
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	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	TRIP3	TRIPBLANK	TP09_1.4	----	----
			Sampling date / time	18-Feb-2026 00:00	18-Feb-2026 00:00	18-Feb-2026 00:00	----	----
Compound	CAS Number	LOR	Unit	EM2602866-072	EM2602866-075	EM2602866-077	--------	--------
				Result	Result	Result	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued								
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	----	----
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	----	----
^ >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	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	TRIP3	TRIPBLANK	TP09_1.4	----	----
			Sampling date / time	18-Feb-2026 00:00	18-Feb-2026 00:00	18-Feb-2026 00:00	----	----
Compound	CAS Number	LOR	Unit	EM2602866-072	EM2602866-075	EM2602866-077	--------	--------
				Result	Result	Result	----	----
EP080: BTEXN - Continued								
^ **Total Xylenes**	----	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Naphthalene	91-20-3	1	mg/kg	<1	<1	<1	----	----
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	0.5	%	**90.0**	----	**86.6**	----	----
2-Chlorophenol-D4	93951-73-6	0.5	%	**96.2**	----	**90.6**	----	----
2.4.6-Tribromophenol	118-79-6	0.5	%	**95.5**	----	**87.9**	----	----
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	0.5	%	**101**	----	**100**	----	----
Anthracene-d10	1719-06-8	0.5	%	**113**	----	**111**	----	----
4-Terphenyl-d14	1718-51-0	0.5	%	**109**	----	**105**	----	----
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.2	%	**90.0**	**96.0**	**80.4**	----	----
Toluene-D8	2037-26-5	0.2	%	**83.6**	**90.6**	**75.0**	----	----
4-Bromofluorobenzene	460-00-4	0.2	%	**89.0**	**95.3**	**79.2**	----	----

Analytical Results

Sub-Matrix: SOLID
(Matrix: SOLID)

			Sample ID	ACM1	ACM2	SP06 ACM	----	----
			Sampling date / time	18-Feb-2026 00:00	18-Feb-2026 00:00	18-Feb-2026 00:00	----	----
Compound	CAS Number	LOR	Unit	EM2602866-073	EM2602866-074	EM2602866-076	--------	--------
				Result	Result	Result	----	----
EA200: AS 4964 - 2004 Identification of Asbestos in bulk samples								
Asbestos Detected	1332-21-4	0.1	g/kg	No	Yes	No	----	----
Asbestos Type	1332-21-4	-	--	-	Ch + Am + Cr	-	----	----
Asbestos (Trace)	1332-21-4	-	-	No	N/A	No	----	----
Sample weight (dry)	----	0.01	g	29.6	43.9	19.1	----	----
Synthetic Mineral Fibre	----	-	-	No	No	No	----	----
Organic Fibre	----	-	-	Yes	No	Yes	----	----
APPROVED IDENTIFIER:	----	-	--	T.KUO	T.KUO	T.KUO	----	----

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	TP01_0.9 - 18-Feb-2026 16:30	Brown clay like soil with rock and organic matter.
EA200: Description	TP02_0.9 - 19-Feb-2026 13:00	Brown clay like soil with rock and organic matter.
EA200: Description	TP05_0.2 - 18-Feb-2026 15:00	Brown clay like soil with rock and organic matter.
EA200: Description	TP05_1.0 - 18-Feb-2026 15:00	Brown soil with rock and organic matter.
EA200: Description	TP06_0.7 - 18-Feb-2026 14:30	Brown soil with rock and organic matter.
EA200: Description	TP08_1.2 - 18-Feb-2026 12:00	Brown soil with rock and organic matter.
EA200: Description	TP09_0.7 - 18-Feb-2026 16:30	Brown soil with rock and organic matter.
EA200: Description	TP10_1.1 - 18-Feb-2026 14:00	Brown soil with rock and organic matter.
EA200: Description	TP11_1.0 - 18-Feb-2026 09:00	Brown soil with rock, organic matter and synthetic mineral fibres.
EA200: Description	TP12_1.0 - 19-Feb-2026 14:30	Brown soil with rock and organic matter.
EA200: Description	TP13_0.1 - 18-Feb-2026 08:30	Brown soil with rock and organic matter.
EA200: Description	SP22 - 18-Feb-2026 00:00	Brown soil with rock matter.
EA200: Description	SP23 - 18-Feb-2026 00:00	Brown soil with rock matter.
EA200: Description	SP27 - 18-Feb-2026 00:00	Brown soil with rock and 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	ACM1 - 18-Feb-2026 00:00	Cement like fragments with organic fibres and attached paint approx 60 x 30 x 5mm.
EA200: Description	ACM2 - 18-Feb-2026 00:00	Asbestos sheeting fragment with attached paint approx 70 x 55 x 8mm.
EA200: Description	SP06ACM - 18-Feb-2026 00:00	Beige fragments with organic fibres approx 55 x 50 x 10mm.

Surrogate Control Limits

Sub-Matrix: **SOIL**

Compound	CAS Number	Recovery Limits (%) Low	High
EP075(SIM)S: Phenolic Compound Surrogates			
Phenol-d6	13127-88-3	54	125
2-Chlorophenol-D4	93951-73-6	65	123
2.4.6-Tribromophenol	118-79-6	34	122
EP075(SIM)T: PAH Surrogates			
2-Fluorobiphenyl	321-60-8	61	125
Anthracene-d10	1719-06-8	62	130
4-Terphenyl-d14	1718-51-0	67	133
EP080S: TPH(V)/BTEX Surrogates			
1.2-Dichloroethane-D4	17060-07-0	51	125
Toluene-D8	2037-26-5	55	125
4-Bromofluorobenzene	460-00-4	56	124
EP231S: PFAS Surrogate			
13C4-PFOS	----	68	136
13C8-PFOA	----	69	133

Inter-Laboratory Testing

Analysis conducted by ALS Newcastle, NATA accreditation no. 825, site no. 1656 (Chemistry / Biology).

(SOIL) EA150: Soil Classification based on Particle Size

(SOIL) EA152: Soil Particle Density

QUALITY CONTROL REPORT

Work Order	: **EM2602866**	Page	: 1 of 24
Client	: **PITT & SHERRY (OPERATIONS) PTY LTD**	Laboratory	: Environmental Division Melbourne
Contact	: FIONA KESERUE-PONTE	Contact	: Hannah White
Address	: 199 MACQUARIE STREET HOBART 7001	Address	: 4 Westall Rd Springvale VIC Australia 3171
Telephone	: ----	Telephone	: +61-3-8549 9600
Project	: INCAT ESA	Date Samples Received	: 20-Feb-2026
Order number	: P.26.0075	Date Analysis Commenced	: 24-Feb-2026
C-O-C number	: ----	Issue Date	: 27-Feb-2026
Sampler	: H Fairweather, M Mayjor		
Site	: ----		
Quote number	: EM23PITSHE0013 VIC Custom Pricing		
No. of samples received	: 76		
No. of samples analysed	: 76		

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

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

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits
- Method Blank (MB) and Laboratory Control Spike (LCS) Report; Recovery and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits

Signatories

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

Signatories	*Position*	*Accreditation Category*
Brooke Hallcroft	Laboratory Technician (Microbiology)	Newcastle - Inorganics, Mayfield West, NSW
Jarwis Nheu	Non-Metals Team Leader	Melbourne Inorganics, Springvale, VIC
MINNIE TRAN	Approved Asbestos Identifier	Melbourne Asbestos, Springvale, VIC
Xing Lin	Senior Organic Chemist	Melbourne Organics, Springvale, VIC

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: 7221980)									
EM2602866-002	TP01_0.9	EG005T: Zinc	7440-66-6	5	mg/kg	367	# 198	59.8	0% - 20%
EM2602866-012	TP05_0.2	EG005T: Zinc	7440-66-6	5	mg/kg	285	# 379	28.3	0% - 20%
EM2602866-002	TP01_0.9	EG005T: Cadmium	7440-43-9	1	mg/kg	3	6	61.3	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	24	23	8.4	0% - 50%
		EG005T: Nickel	7440-02-0	2	mg/kg	22	22	0.0	0% - 50%
		EG005T: Arsenic	7440-38-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	62	56	10.4	0% - 50%
		EG005T: Lead	7439-92-1	5	mg/kg	63	73	14.3	0% - 50%
		EG005T: Iron	7439-89-6	50	mg/kg	3.64 %	30500	17.7	0% - 20%
EM2602866-012	TP05_0.2	EG005T: Cadmium	7440-43-9	1	mg/kg	2	2	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	17	15	15.3	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	20	19	7.0	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	53	63	16.3	0% - 50%
		EG005T: Lead	7439-92-1	5	mg/kg	34	52	41.5	0% - 50%
		EG005T: Iron	7439-89-6	50	mg/kg	29700	32000	7.5	0% - 20%
EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 7221982)									
EM2602866-022	TP08_0.4	EG005T: Cadmium	7440-43-9	1	mg/kg	7	5	17.2	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	8	10	22.0	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	17	17	0.0	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	<5	<5	0.0	No Limit

Sub-Matrix: **SOIL**

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: 7221982) - continued									
EM2602866-022	TP08_0.4	EG005T: Copper	7440-50-8	5	mg/kg	101	87	15.2	0% - 20%
		EG005T: Lead	7439-92-1	5	mg/kg	59	58	0.0	0% - 50%
		EG005T: Zinc	7440-66-6	5	mg/kg	480	487	1.4	0% - 20%
		EG005T: Iron	7439-89-6	50	mg/kg	38900	36900	5.4	0% - 20%
EM2602866-032	TP11_1.0	EG005T: Cadmium	7440-43-9	1	mg/kg	2	4	62.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	15	15	0.0	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	14	15	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	28	30	5.1	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	93	112	18.9	0% - 20%
		EG005T: Zinc	7440-66-6	5	mg/kg	256	242	5.7	0% - 20%
		EG005T: Iron	7439-89-6	50	mg/kg	17100	17100	0.1	0% - 20%
EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 7221987)									
EM2602866-042	SP04	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	15	15	0.0	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	21	24	12.4	0% - 50%
		EG005T: Arsenic	7440-38-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	70	68	1.8	0% - 50%
		EG005T: Lead	7439-92-1	5	mg/kg	6	5	0.0	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	52	50	2.2	0% - 50%
		EG005T: Iron	7439-89-6	50	mg/kg	30200	30400	0.6	0% - 20%
EM2602866-052	SP14	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	11	11	0.0	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	5	6	20.2	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	11	14	24.5	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	7	8	0.0	No Limit
		EG005T: Iron	7439-89-6	50	mg/kg	15400	15300	0.5	0% - 20%
EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 7221989)									
EM2602866-062	SP24	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	7	7	0.0	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	7	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	8	5	41.1	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	9	9	0.0	No Limit

Sub-Matrix: **SOIL**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
				Laboratory Duplicate (DUP) Report					
EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 7221989) - continued									
EM2602866-062	SP24	EG005T: Iron	7439-89-6	50	mg/kg	7690	7390	4.0	0% - 20%
EM2602866-072	TRIP3	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	12	11	0.0	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	6	6	0.0	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	7	7	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	6	6	0.0	No Limit
		EG005T: Iron	7439-89-6	50	mg/kg	11800	10400	12.4	0% - 20%
EA001: pH in soil using 0.01M CaCl extract (QC Lot: 7223897)									
EM2602770-046	Anonymous	EA001: pH (CaCl2)	----	0.1	pH Unit	9.2	9.3	0.0	0% - 20%
EM2602842-029	Anonymous	EA001: pH (CaCl2)	----	0.1	pH Unit	4.8	4.8	0.0	0% - 20%
EA002-AD: pH (Soils) dried at 40°C (QC Lot: 7223226)									
EM2602866-002	TP01_0.9	EA002-AD: pH Value	----	0.1	pH Unit	8.6	8.7	0.0	0% - 20%
EA010-AD: Conductivity (Soils) dried at 40°C (QC Lot: 7223225)									
EM2602866-002	TP01_0.9	EA010-AD: Electrical Conductivity @ 25°C	----	1	µS/cm	2610	2590	0.6	0% - 20%
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 7222029)									
EM2602866-002	TP01_0.9	EA055: Moisture Content	----	0.1 (1.0)*	%	20.7	19.1	8.3	0% - 20%
EM2602866-012	TP05_0.2	EA055: Moisture Content	----	0.1 (1.0)*	%	16.5	15.7	5.0	0% - 50%
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 7222030)									
EM2602866-022	TP08_0.4	EA055: Moisture Content	----	0.1 (1.0)*	%	9.2	10.3	12.1	0% - 50%
EM2602866-032	TP11_1.0	EA055: Moisture Content	----	0.1 (1.0)*	%	11.6	10.9	6.3	0% - 50%
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 7222031)									
EM2602866-042	SP04	EA055: Moisture Content	----	0.1 (1.0)*	%	11.9	13.1	9.6	0% - 50%
EM2602866-052	SP14	EA055: Moisture Content	----	0.1 (1.0)*	%	17.7	16.9	4.7	0% - 50%
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 7222032)									
EM2602866-062	SP24	EA055: Moisture Content	----	0.1 (1.0)*	%	15.7	16.5	5.3	0% - 50%
EM2602866-072	TRIP3	EA055: Moisture Content	----	0.1 (1.0)*	%	16.2	15.7	3.6	0% - 50%
ED006: Exchangeable Cations on Alkaline Soils (QC Lot: 7223227)									
EM2602866-002	TP01_0.9	ED006: Calcium/Magnesium Ratio	----	0.1 (0.2)*	-	1.3	1.3	0.0	No Limit
		ED006: Magnesium/Potassium Ratio	----	0.1 (0.2)*	-	8.2	8.3	0.0	0% - 20%
		ED006: Exchangeable Calcium Percent	----	0.2	%	35.6	35.8	0.5	0% - 20%
		ED006: Exchangeable Magnesium Percent	----	0.2	%	28.0	27.3	2.6	0% - 20%
		ED006: Exchangeable Potassium Percent	----	0.2	%	3.4	3.3	3.6	0% - 50%
		ED006: Exchangeable Sodium Percent	----	0.2	%	33.0	33.6	2.0	0% - 20%
		ED006: Exchangeable Calcium	----	0.2	meq/100g	11.3	11.5	1.7	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 (%)
ED006: Exchangeable Cations on Alkaline Soils (QC Lot: 7223227) - continued									
EM2602866-002	TP01_0.9	ED006: Exchangeable Magnesium	----	0.2	meq/100g	8.9	8.8	1.4	0% - 20%
		ED006: Exchangeable Potassium	----	0.2	meq/100g	1.1	1.1	0.0	No Limit
		ED006: Exchangeable Sodium	----	0.2	meq/100g	10.5	10.8	3.1	0% - 20%
		ED006: Cation Exchange Capacity	----	0.2	meq/100g	31.7	32.1	1.2	0% - 20%
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 7221981)									
EM2602866-002	TP01_0.9	EG035T: Mercury	7439-97-6	0.1 (0.2)*	mg/kg	14.6	17.4	17.6	0% - 20%
EM2602866-012	TP05_0.2	EG035T: Mercury	7439-97-6	0.1	mg/kg	1.8	# 1.1	51.6	0% - 50%
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 7221983)									
EM2602866-022	TP08_0.4	EG035T: Mercury	7439-97-6	0.1 (0.2)*	mg/kg	15.1	13.8	8.7	0% - 20%
EM2602866-032	TP11_1.0	EG035T: Mercury	7439-97-6	0.1	mg/kg	2.9	# 4.5	44.1	0% - 20%
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 7221988)									
EM2602866-042	SP04	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EM2602866-052	SP14	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: 7221990)									
EM2602866-062	SP24	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EM2602866-072	TRIP3	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EP004: Organic Matter (QC Lot: 7223789)									
EM2602866-002	TP01_0.9	EP004: Organic Matter	----	0.5	%	1.4	1.4	0.0	No Limit
		EP004: Total Organic Carbon	----	0.5	%	0.8	0.8	0.0	No Limit
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 7221886)									
EM2602866-002	TP01_0.9	EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

Sub-Matrix: **SOIL**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
				Laboratory Duplicate (DUP) Report					
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 7221886) - continued									
EM2602866-012	TP05_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	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 7221892)									
EM2602866-022	TP08_0.4	EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EM2602866-032	TP11_1.0	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

Sub-Matrix: **SOIL**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
				Laboratory Duplicate (DUP) Report					
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 7221892) - continued									
EM2602866-032	TP11_1.0	EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 7221928)									
EM2602866-042	SP04	EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EM2602866-052	SP14	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

Sub-Matrix: **SOIL**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
				Laboratory Duplicate (DUP) Report					
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 7221928) - continued									
EM2602866-052	SP14	EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 7222643)									
EM2602866-062	SP24	EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EM2602953-001	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

Sub-Matrix: **SOIL**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
				Laboratory Duplicate (DUP) Report					
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 7222643) - continued									
EM2602953-001	Anonymous	EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 7221845)									
EM2602866-002	TP01_0.9	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
EM2602866-012	TP05_0.2	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 7221861)									
EM2602866-022	TP08_0.4	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
EM2602866-032	TP11_1.0	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 7221863)									
EM2602866-042	SP04	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
EM2602866-052	SP14	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 7221865)									
EM2602866-062	SP24	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
EM2602866-072	TRIP3	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 7221887)									
EM2602866-002	TP01_0.9	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
EM2602866-012	TP05_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: 7221893)									
EM2602866-022	TP08_0.4	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
EM2602866-032	TP11_1.0	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
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 7221929)									
EM2602866-042	SP04	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 sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
				Laboratory Duplicate (DUP) Report					
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 7221929) - continued									
EM2602866-042	SP04	EP071: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
EM2602866-052	SP14	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: 7222644)									
EM2602866-062	SP24	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
EM2602953-001	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: 7221845)									
EM2602866-002	TP01_0.9	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.0	No Limit
EM2602866-012	TP05_0.2	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: 7221861)									
EM2602866-022	TP08_0.4	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.0	No Limit
EM2602866-032	TP11_1.0	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: 7221863)									
EM2602866-042	SP04	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.0	No Limit
EM2602866-052	SP14	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: 7221865)									
EM2602866-062	SP24	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.0	No Limit
EM2602866-072	TRIP3	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: 7221887)									
EM2602866-002	TP01_0.9	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
EM2602866-012	TP05_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: 7221893)									
EM2602866-022	TP08_0.4	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
EM2602866-032	TP11_1.0	EP071: >C16 - C34 Fraction	----	100	mg/kg	120	110	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

Sub-Matrix: **SOIL**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report					
				LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 7221929)									
EM2602866-042	SP04	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
EM2602866-052	SP14	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: 7222644)									
EM2602866-062	SP24	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
EM2602953-001	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: 7221845)									
EM2602866-002	TP01_0.9	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
EM2602866-012	TP05_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
EP080: BTEXN (QC Lot: 7221861)									
EM2602866-022	TP08_0.4	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
EM2602866-032	TP11_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

Sub-Matrix: **SOIL**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
				Laboratory Duplicate (DUP) Report					
EP080: BTEXN (QC Lot: 7221861) - continued									
EM2602866-032	TP11_1.0	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: 7221863)									
EM2602866-042	SP04	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
EM2602866-052	SP14	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: 7221865)									
EM2602866-062	SP24	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
EM2602866-072	TRIP3	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: 7223042)									
EM2602866-004	TP02_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

Sub-Matrix: **SOIL**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
				Laboratory Duplicate (DUP) Report					
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 7223042) - continued									
EM2602866-004	TP02_0.1	EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
EM2602866-061	SP23	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	0.0042	0.0039	9.5	0% - 20%
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	0.122	0.108	12.2	0% - 20%
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 7223042)									
EM2602866-004	TP02_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
EM2602866-061	SP23	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	0.0003	0.0003	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	0.0003	0.0003	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: 7223042)									
EM2602866-004	TP02_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
EM2602866-061	SP23	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
EP231P: PFAS Sums (QC Lot: 7223042)									
EM2602866-004	TP02_0.1	EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Sum of PFAS (WA DER List)	----	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
EM2602866-061	SP23	EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg	0.126	0.112	12.0	0% - 20%
		EP231X: Sum of PFAS (WA DER List)	----	0.0002	mg/kg	0.127	0.112	12.0	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			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 7221980)								
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	43 mg/kg	91.9	70.0	130
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	3 mg/kg	102	70.0	130
EG005T: Chromium	7440-47-3	2	mg/kg	<2	84 mg/kg	91.4	70.0	130
EG005T: Copper	7440-50-8	5	mg/kg	<5	185 mg/kg	93.1	70.0	130
EG005T: Iron	7439-89-6	50	mg/kg	<50	42405 mg/kg	111	70.0	130
EG005T: Lead	7439-92-1	5	mg/kg	<5	153 mg/kg	93.8	70.0	130
EG005T: Nickel	7440-02-0	2	mg/kg	<2	55.9 mg/kg	95.0	70.0	130
EG005T: Zinc	7440-66-6	5	mg/kg	<5	358 mg/kg	100	70.0	130
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 7221982)								
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	43 mg/kg	95.3	70.0	130
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	3 mg/kg	108	70.0	130
EG005T: Chromium	7440-47-3	2	mg/kg	<2	84 mg/kg	95.9	70.0	130
EG005T: Copper	7440-50-8	5	mg/kg	<5	185 mg/kg	97.2	70.0	130
EG005T: Iron	7439-89-6	50	mg/kg	<50	42405 mg/kg	117	70.0	130
EG005T: Lead	7439-92-1	5	mg/kg	<5	153 mg/kg	101	70.0	130
EG005T: Nickel	7440-02-0	2	mg/kg	<2	55.9 mg/kg	101	70.0	130
EG005T: Zinc	7440-66-6	5	mg/kg	<5	358 mg/kg	98.5	70.0	130
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 7221987)								
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	43 mg/kg	85.5	70.0	130
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	3 mg/kg	97.6	70.0	130
EG005T: Chromium	7440-47-3	2	mg/kg	<2	84 mg/kg	83.5	70.0	130
EG005T: Copper	7440-50-8	5	mg/kg	<5	185 mg/kg	88.3	70.0	130
EG005T: Iron	7439-89-6	50	mg/kg	<50	42405 mg/kg	101	70.0	130
EG005T: Lead	7439-92-1	5	mg/kg	<5	153 mg/kg	89.1	70.0	130
EG005T: Nickel	7440-02-0	2	mg/kg	<2	55.9 mg/kg	88.1	70.0	130
EG005T: Zinc	7440-66-6	5	mg/kg	<5	358 mg/kg	95.7	70.0	130
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 7221989)								
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	43 mg/kg	90.6	70.0	130
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	3 mg/kg	100	70.0	130
EG005T: Chromium	7440-47-3	2	mg/kg	<2	84 mg/kg	88.4	70.0	130

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 7221989) - continued								
EG005T: Copper	7440-50-8	5	mg/kg	<5	185 mg/kg	88.3	70.0	130
EG005T: Iron	7439-89-6	50	mg/kg	<50	42405 mg/kg	107	70.0	130
EG005T: Lead	7439-92-1	5	mg/kg	<5	153 mg/kg	96.5	70.0	130
EG005T: Nickel	7440-02-0	2	mg/kg	<2	55.9 mg/kg	94.8	70.0	130
EG005T: Zinc	7440-66-6	5	mg/kg	<5	358 mg/kg	107	70.0	130
EA001: pH in soil using 0.01M CaCl extract (QCLot: 7223897)								
EA001: pH (CaCl2)	----	----	pH Unit	----	4 pH Unit	99.4	98.8	101
				----	7 pH Unit	100	99.3	101
EA002-AD: pH (Soils) dried at 40°C (QCLot: 7223226)								
EA002-AD: pH Value	----	----	pH Unit	----	4 pH Unit	101	98.8	101
				----	7 pH Unit	100	99.3	101
EA010-AD: Conductivity (Soils) dried at 40°C (QCLot: 7223225)								
EA010-AD: Electrical Conductivity @ 25°C	----	1	µS/cm	<1	1413 µS/cm	100	90.0	110
ED006: Exchangeable Cations on Alkaline Soils (QCLot: 7223227)								
ED006: Exchangeable Calcium	----	0.2	meq/100g	<0.2	12.4 meq/100g	97.5	70.0	130
ED006: Exchangeable Magnesium	----	0.2	meq/100g	<0.2	4.1 meq/100g	102	70.0	130
ED006: Exchangeable Potassium	----	0.2	meq/100g	<0.2	1.24 meq/100g	103	70.0	130
ED006: Exchangeable Sodium	----	0.2	meq/100g	<0.2	2.28 meq/100g	105	70.0	130
ED006: Cation Exchange Capacity	----	0.2	meq/100g	<0.2	20.1 meq/100g	99.1	70.0	130
ED006: Exchangeable Calcium Percent	----	0.2	%	<0.2	----	----	----	----
ED006: Exchangeable Magnesium Percent	----	0.2	%	<0.2	----	----	----	----
ED006: Exchangeable Potassium Percent	----	0.2	%	<0.2	----	----	----	----
ED006: Exchangeable Sodium Percent	----	0.2	%	<0.2	----	----	----	----
ED006: Calcium/Magnesium Ratio	----	0.1	-	<0.1	----	----	----	----
ED006: Magnesium/Potassium Ratio	----	0.1	-	<0.1	----	----	----	----
EG035T: Total Recoverable Mercury by FIMS (QCLot: 7221981)								
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.64 mg/kg	112	69.0	128
EG035T: Total Recoverable Mercury by FIMS (QCLot: 7221983)								
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.64 mg/kg	96.9	69.0	128
EG035T: Total Recoverable Mercury by FIMS (QCLot: 7221988)								
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.64 mg/kg	102	69.0	128
EG035T: Total Recoverable Mercury by FIMS (QCLot: 7221990)								
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.64 mg/kg	102	69.0	128
EP004: Organic Matter (QCLot: 7223789)								

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP004: Organic Matter (QCLot: 7223789) - continued								
EP004: Organic Matter	----	0.5	%	<0.5	77 %	118	70.0	130
EP004: Total Organic Carbon	----	0.5	%	<0.5	43.5 %	121	70.0	130
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 7221886)								
EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	3 mg/kg	91.1	85.7	123
EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	3 mg/kg	90.7	81.0	123
EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	3 mg/kg	89.7	83.6	120
EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	3 mg/kg	85.0	81.3	126
EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	3 mg/kg	90.6	79.4	123
EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	3 mg/kg	91.7	81.7	127
EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	3 mg/kg	93.3	78.3	124
EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	3 mg/kg	94.3	79.9	128
EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	3 mg/kg	79.7	76.9	123
EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	3 mg/kg	81.5	80.9	130
EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	3 mg/kg	86.8	70.0	121
EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	3 mg/kg	84.1	80.4	130
EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	3 mg/kg	84.2	70.2	123
EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	3 mg/kg	85.6	67.9	122
EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	3 mg/kg	85.4	65.8	123
EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	3 mg/kg	85.6	65.8	127
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 7221892)								
EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	3 mg/kg	93.3	85.7	123
EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	3 mg/kg	96.8	81.0	123
EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	3 mg/kg	94.5	83.6	120
EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	3 mg/kg	93.1	81.3	126
EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	3 mg/kg	94.3	79.4	123
EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	3 mg/kg	97.2	81.7	127
EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	3 mg/kg	98.0	78.3	124
EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	3 mg/kg	98.3	79.9	128
EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	3 mg/kg	98.5	76.9	123
EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	3 mg/kg	98.3	80.9	130
EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	3 mg/kg	96.3	70.0	121
EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	3 mg/kg	98.7	80.4	130
EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	3 mg/kg	96.1	70.2	123

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 7221892) - continued								
EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	3 mg/kg	93.8	67.9	122
EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	3 mg/kg	91.0	65.8	123
EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	3 mg/kg	93.3	65.8	127
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 7221928)								
EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	3 mg/kg	104	85.7	123
EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	3 mg/kg	109	81.0	123
EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	3 mg/kg	106	83.6	120
EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	3 mg/kg	104	81.3	126
EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	3 mg/kg	107	79.4	123
EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	3 mg/kg	110	81.7	127
EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	3 mg/kg	106	78.3	124
EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	3 mg/kg	105	79.9	128
EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	3 mg/kg	113	76.9	123
EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	3 mg/kg	111	80.9	130
EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	3 mg/kg	114	70.0	121
EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	3 mg/kg	119	80.4	130
EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	3 mg/kg	110	70.2	123
EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	3 mg/kg	73.0	67.9	122
EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	3 mg/kg	71.4	65.8	123
EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	3 mg/kg	71.0	65.8	127
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 7222643)								
EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	3 mg/kg	94.5	85.7	123
EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	3 mg/kg	99.0	81.0	123
EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	3 mg/kg	93.5	83.6	120
EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	3 mg/kg	97.4	81.3	126
EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	3 mg/kg	98.8	79.4	123
EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	3 mg/kg	106	81.7	127
EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	3 mg/kg	101	78.3	124
EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	3 mg/kg	103	79.9	128
EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	3 mg/kg	93.2	76.9	123
EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	3 mg/kg	107	80.9	130
EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	3 mg/kg	86.8	70.0	121
EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	3 mg/kg	102	80.4	130

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 7222643) - continued								
EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	3 mg/kg	94.5	70.2	123
EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	3 mg/kg	91.6	67.9	122
EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	3 mg/kg	94.3	65.8	123
EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	3 mg/kg	97.4	65.8	127
EP080/071: Total Petroleum Hydrocarbons (QCLot: 7221845)								
EP080: C6 - C9 Fraction	----	10	mg/kg	<10	36 mg/kg	85.4	58.6	131
EP080/071: Total Petroleum Hydrocarbons (QCLot: 7221861)								
EP080: C6 - C9 Fraction	----	10	mg/kg	<10	36 mg/kg	110	58.6	131
EP080/071: Total Petroleum Hydrocarbons (QCLot: 7221863)								
EP080: C6 - C9 Fraction	----	10	mg/kg	<10	36 mg/kg	85.5	58.6	131
EP080/071: Total Petroleum Hydrocarbons (QCLot: 7221865)								
EP080: C6 - C9 Fraction	----	10	mg/kg	<10	36 mg/kg	99.9	58.6	131
EP080/071: Total Petroleum Hydrocarbons (QCLot: 7221887)								
EP071: C10 - C14 Fraction	----	50	mg/kg	<50	750 mg/kg	94.3	80.0	120
EP071: C15 - C28 Fraction	----	100	mg/kg	<100	2640 mg/kg	98.1	80.0	120
EP071: C29 - C36 Fraction	----	100	mg/kg	<100	1350 mg/kg	94.0	80.0	120
EP080/071: Total Petroleum Hydrocarbons (QCLot: 7221893)								
EP071: C10 - C14 Fraction	----	50	mg/kg	<50	750 mg/kg	99.0	80.0	120
EP071: C15 - C28 Fraction	----	100	mg/kg	<100	2640 mg/kg	102	80.0	120
EP071: C29 - C36 Fraction	----	100	mg/kg	<100	1350 mg/kg	96.6	80.0	120
EP080/071: Total Petroleum Hydrocarbons (QCLot: 7221929)								
EP071: C10 - C14 Fraction	----	50	mg/kg	<50	750 mg/kg	100	80.0	120
EP071: C15 - C28 Fraction	----	100	mg/kg	<100	2640 mg/kg	103	80.0	120
EP071: C29 - C36 Fraction	----	100	mg/kg	<100	1350 mg/kg	96.1	80.0	120
EP080/071: Total Petroleum Hydrocarbons (QCLot: 7222644)								
EP071: C10 - C14 Fraction	----	50	mg/kg	<50	750 mg/kg	102	80.0	120
EP071: C15 - C28 Fraction	----	100	mg/kg	<100	2640 mg/kg	107	80.0	120
EP071: C29 - C36 Fraction	----	100	mg/kg	<100	1350 mg/kg	101	80.0	120
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 7221845)								
EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	45 mg/kg	83.7	59.3	128
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 7221861)								
EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	45 mg/kg	104	59.3	128
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 7221863)								
EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	45 mg/kg	84.2	59.3	128

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 7221865)								
EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	45 mg/kg	99.8	59.3	128
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 7221887)								
EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	1030 mg/kg	92.4	80.0	120
EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	3500 mg/kg	96.9	80.0	120
EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	250 mg/kg	80.7	80.0	120
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 7221893)								
EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	1030 mg/kg	100	80.0	120
EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	3500 mg/kg	99.1	80.0	120
EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	250 mg/kg	102	80.0	120
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 7221929)								
EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	1030 mg/kg	96.8	80.0	120
EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	3500 mg/kg	101	80.0	120
EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	250 mg/kg	101	80.0	120
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 7222644)								
EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	1030 mg/kg	103	80.0	120
EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	3500 mg/kg	104	80.0	120
EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	250 mg/kg	93.2	80.0	120
EP080: BTEXN (QCLot: 7221845)								
EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	2 mg/kg	90.3	61.6	117
EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	2 mg/kg	92.5	65.8	125
EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	2 mg/kg	94.4	65.8	124
EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	4 mg/kg	94.5	64.8	134
EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	2 mg/kg	91.2	68.7	132
EP080: Naphthalene	91-20-3	1	mg/kg	<1	0.5 mg/kg	84.9	61.8	123
EP080: BTEXN (QCLot: 7221861)								
EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	2 mg/kg	98.7	61.6	117
EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	2 mg/kg	106	65.8	125
EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	2 mg/kg	102	65.8	124
EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	4 mg/kg	106	64.8	134
EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	2 mg/kg	107	68.7	132
EP080: Naphthalene	91-20-3	1	mg/kg	<1	0.5 mg/kg	102	61.8	123
EP080: BTEXN (QCLot: 7221863)								
EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	2 mg/kg	92.3	61.6	117

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP080: BTEXN (QCLot: 7221863) - continued								
EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	2 mg/kg	91.4	65.8	125
EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	2 mg/kg	86.6	65.8	124
EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	4 mg/kg	93.6	64.8	134
EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	2 mg/kg	94.4	68.7	132
EP080: Naphthalene	91-20-3	1	mg/kg	<1	0.5 mg/kg	103	61.8	123
EP080: BTEXN (QCLot: 7221865)								
EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	2 mg/kg	89.3	61.6	117
EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	2 mg/kg	93.6	65.8	125
EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	2 mg/kg	93.9	65.8	124
EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	4 mg/kg	100.0	64.8	134
EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	2 mg/kg	103	68.7	132
EP080: Naphthalene	91-20-3	1	mg/kg	<1	0.5 mg/kg	93.0	61.8	123
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 7223042)								
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	0.00111 mg/kg	102	72.0	128
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<0.0002	0.00114 mg/kg	92.6	67.0	130
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<0.0002	0.00116 mg/kg	95.7	68.0	136
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 7223042)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	0.00625 mg/kg	97.8	71.0	135
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	0.00125 mg/kg	93.0	69.0	132
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<0.0002	0.00125 mg/kg	86.8	70.0	132
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	101	71.0	131
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	93.2	69.0	133
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 7223042)								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	0.00117 mg/kg	98.7	62.0	145
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	0.00119 mg/kg	106	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	107	65.0	137
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	0.00121 mg/kg	102	70.0	130
EP231P: PFAS Sums (QCLot: 7223042)								
EP231X: Sum of PFHxS and PFOS	355-46-4/17 63-23-1	0.0002	mg/kg	<0.0002	----	----	----	----
EP231X: Sum of PFAS (WA DER List)	----	0.0002	mg/kg	<0.0002	----	----	----	----

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: 7221980)							
EM2602866-003	TP01_1.2	EG005T: Arsenic	7440-38-2	50 mg/kg	97.4	78.0	124
		EG005T: Cadmium	7440-43-9	50 mg/kg	96.8	79.7	116
		EG005T: Chromium	7440-47-3	50 mg/kg	92.8	79.0	121
		EG005T: Copper	7440-50-8	250 mg/kg	105	80.0	120
		EG005T: Lead	7439-92-1	250 mg/kg	96.2	80.0	120
		EG005T: Nickel	7440-02-0	50 mg/kg	93.7	78.0	120
		EG005T: Zinc	7440-66-6	250 mg/kg	95.5	80.0	120
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 7221982)							
EM2602866-023	TP08_1.2	EG005T: Chromium	7440-47-3	50 mg/kg	# 61.0	79.0	121
		EG005T: Nickel	7440-02-0	50 mg/kg	# 41.3	78.0	120
		EG005T: Zinc	7440-66-6	250 mg/kg	90.4	80.0	120
EM2602866-023	TP08_1.2	EG005T: Arsenic	7440-38-2	50 mg/kg	93.0	78.0	124
		EG005T: Cadmium	7440-43-9	50 mg/kg	103	79.7	116
		EG005T: Copper	7440-50-8	250 mg/kg	100	80.0	120
		EG005T: Lead	7439-92-1	250 mg/kg	103	80.0	120
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 7221987)							
EM2602866-043	SP05	EG005T: Chromium	7440-47-3	50 mg/kg	# 76.1	79.0	121
		EG005T: Lead	7439-92-1	250 mg/kg	118	80.0	120
		EG005T: Nickel	7440-02-0	50 mg/kg	81.1	78.0	120
		EG005T: Zinc	7440-66-6	250 mg/kg	# 149	80.0	120
EM2602866-043	SP05	EG005T: Arsenic	7440-38-2	50 mg/kg	86.6	78.0	124
		EG005T: Cadmium	7440-43-9	50 mg/kg	82.5	79.7	116
		EG005T: Copper	7440-50-8	250 mg/kg	89.4	80.0	120
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 7221989)							
EM2602866-063	SP25	EG005T: Arsenic	7440-38-2	50 mg/kg	92.5	78.0	124
		EG005T: Cadmium	7440-43-9	50 mg/kg	97.4	79.7	116
		EG005T: Chromium	7440-47-3	50 mg/kg	96.1	79.0	121
		EG005T: Copper	7440-50-8	250 mg/kg	95.8	80.0	120
		EG005T: Lead	7439-92-1	250 mg/kg	97.9	80.0	120
		EG005T: Nickel	7440-02-0	50 mg/kg	97.2	78.0	120
		EG005T: Zinc	7440-66-6	250 mg/kg	103	80.0	120
EG035T: Total Recoverable Mercury by FIMS (QCLot: 7221981)							
EM2602866-003	TP01_1.2	EG035T: Mercury	7439-97-6	2.5 mg/kg	# 10.1	70.0	130
EG035T: Total Recoverable Mercury by FIMS (QCLot: 7221983)							
EM2602866-023	TP08_1.2	EG035T: Mercury	7439-97-6	0.5 mg/kg	# 202	70.0	130

Sub-Matrix: **SOIL**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report: Spike Concentration	SpikeRecovery(%) MS	Acceptable Limits (%) Low	Acceptable Limits (%) High
EG035T: Total Recoverable Mercury by FIMS (QCLot: 7221988)							
EM2602866-043	SP05	EG035T: Mercury	7439-97-6	0.5 mg/kg	99.0	70.0	130
EG035T: Total Recoverable Mercury by FIMS (QCLot: 7221990)							
EM2602866-063	SP25	EG035T: Mercury	7439-97-6	0.5 mg/kg	98.3	70.0	130
EP004: Organic Matter (QCLot: 7223789)							
EM2602866-037	TP13_1.0	EP004: Organic Matter	----	5.2 %	93.7	70.0	120
		EP004: Total Organic Carbon	----	3.02 %	93.6	70.0	120
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 7221886)							
EM2602866-003	TP01_1.2	EP075(SIM): Acenaphthene	83-32-9	3 mg/kg	85.4	77.2	116
		EP075(SIM): Pyrene	129-00-0	3 mg/kg	85.0	65.5	136
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 7221892)							
EM2602866-023	TP08_1.2	EP075(SIM): Acenaphthene	83-32-9	3 mg/kg	86.4	77.2	116
		EP075(SIM): Pyrene	129-00-0	3 mg/kg	91.7	65.5	136
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 7221928)							
EM2602866-043	SP05	EP075(SIM): Acenaphthene	83-32-9	3 mg/kg	98.2	77.2	116
		EP075(SIM): Pyrene	129-00-0	3 mg/kg	95.4	65.5	136
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 7222643)							
EM2602866-063	SP25	EP075(SIM): Acenaphthene	83-32-9	3 mg/kg	88.8	77.2	116
		EP075(SIM): Pyrene	129-00-0	3 mg/kg	95.2	65.5	136
EP080/071: Total Petroleum Hydrocarbons (QCLot: 7221845)							
EM2602866-003	TP01_1.2	EP080: C6 - C9 Fraction	----	28 mg/kg	70.8	33.4	124
EP080/071: Total Petroleum Hydrocarbons (QCLot: 7221861)							
EM2602866-023	TP08_1.2	EP080: C6 - C9 Fraction	----	28 mg/kg	87.1	33.4	124
EP080/071: Total Petroleum Hydrocarbons (QCLot: 7221863)							
EM2602866-043	SP05	EP080: C6 - C9 Fraction	----	28 mg/kg	73.3	33.4	124
EP080/071: Total Petroleum Hydrocarbons (QCLot: 7221865)							
EM2602866-063	SP25	EP080: C6 - C9 Fraction	----	28 mg/kg	80.8	33.4	124
EP080/071: Total Petroleum Hydrocarbons (QCLot: 7221887)							
EM2602866-004	TP02_0.1	EP071: C10 - C14 Fraction	----	750 mg/kg	93.2	70.0	130
		EP071: C15 - C28 Fraction	----	2640 mg/kg	99.1	70.0	130
		EP071: C29 - C36 Fraction	----	1350 mg/kg	97.6	70.0	130
EP080/071: Total Petroleum Hydrocarbons (QCLot: 7221893)							
EM2602866-024	TP09_0.1	EP071: C10 - C14 Fraction	----	750 mg/kg	96.9	70.0	130
		EP071: C15 - C28 Fraction	----	2640 mg/kg	99.3	70.0	130
		EP071: C29 - C36 Fraction	----	1350 mg/kg	94.5	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 Petroleum Hydrocarbons (QCLot: 7221929)							
EM2602866-044	SP06	EP071: C10 - C14 Fraction	----	750 mg/kg	103	70.0	130
		EP071: C15 - C28 Fraction	----	2640 mg/kg	102	70.0	130
		EP071: C29 - C36 Fraction	----	1350 mg/kg	97.4	70.0	130
EP080/071: Total Petroleum Hydrocarbons (QCLot: 7222644)							
EM2602866-064	SP26	EP071: C10 - C14 Fraction	----	750 mg/kg	97.4	70.0	130
		EP071: C15 - C28 Fraction	----	2640 mg/kg	103	70.0	130
		EP071: C29 - C36 Fraction	----	1350 mg/kg	96.5	70.0	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 7221845)							
EM2602866-003	TP01_1.2	EP080: C6 - C10 Fraction	C6_C10	33 mg/kg	69.8	30.8	120
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 7221861)							
EM2602866-023	TP08_1.2	EP080: C6 - C10 Fraction	C6_C10	33 mg/kg	83.3	30.8	120
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 7221863)							
EM2602866-043	SP05	EP080: C6 - C10 Fraction	C6_C10	33 mg/kg	68.0	30.8	120
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 7221865)							
EM2602866-063	SP25	EP080: C6 - C10 Fraction	C6_C10	33 mg/kg	78.4	30.8	120
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 7221887)							
EM2602866-004	TP02_0.1	EP071: >C10 - C16 Fraction	----	1030 mg/kg	91.3	70.0	130
		EP071: >C16 - C34 Fraction	----	3500 mg/kg	98.9	70.0	130
		EP071: >C34 - C40 Fraction	----	250 mg/kg	91.5	70.0	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 7221893)							
EM2602866-024	TP09_0.1	EP071: >C10 - C16 Fraction	----	1030 mg/kg	97.9	70.0	130
		EP071: >C16 - C34 Fraction	----	3500 mg/kg	97.0	70.0	130
		EP071: >C34 - C40 Fraction	----	250 mg/kg	101	70.0	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 7221929)							
EM2602866-044	SP06	EP071: >C10 - C16 Fraction	----	1030 mg/kg	99.5	70.0	130
		EP071: >C16 - C34 Fraction	----	3500 mg/kg	101	70.0	130
		EP071: >C34 - C40 Fraction	----	250 mg/kg	99.9	70.0	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 7222644)							
EM2602866-064	SP26	EP071: >C10 - C16 Fraction	----	1030 mg/kg	98.1	70.0	130
		EP071: >C16 - C34 Fraction	----	3500 mg/kg	99.4	70.0	130
		EP071: >C34 - C40 Fraction	----	250 mg/kg	89.1	70.0	130
EP080: BTEXN (QCLot: 7221845)							
EM2602866-003	TP01_1.2	EP080: Benzene	71-43-2	2 mg/kg	82.0	54.4	127
		EP080: Toluene	108-88-3	2 mg/kg	81.2	57.1	131
EP080: BTEXN (QCLot: 7221861)							

Sub-Matrix: **SOIL**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Spike Concentration	SpikeRecovery(%) MS	Acceptable Limits (%) Low	Acceptable Limits (%) High
EP080: BTEXN (QCLot: 7221861) - continued							
EM2602866-023	TP08_1.2	EP080: Benzene	71-43-2	2 mg/kg	91.3	54.4	127
		EP080: Toluene	108-88-3	2 mg/kg	102	57.1	131
EP080: BTEXN (QCLot: 7221863)							
EM2602866-043	SP05	EP080: Benzene	71-43-2	2 mg/kg	76.0	54.4	127
		EP080: Toluene	108-88-3	2 mg/kg	116	57.1	131
EP080: BTEXN (QCLot: 7221865)							
EM2602866-063	SP25	EP080: Benzene	71-43-2	2 mg/kg	94.3	54.4	127
		EP080: Toluene	108-88-3	2 mg/kg	94.4	57.1	131
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 7223042)							
EM2602866-009	TP04_0.2	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.00111 mg/kg	94.8	72.0	128
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.00114 mg/kg	93.1	67.0	130
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.00116 mg/kg	92.1	68.0	136
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 7223042)							
EM2602866-009	TP04_0.2	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.00625 mg/kg	97.4	71.0	135
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.00125 mg/kg	93.9	69.0	132
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.00125 mg/kg	82.8	70.0	132
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.00125 mg/kg	101	71.0	131
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.00125 mg/kg	93.5	69.0	133
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 7223042)							
EM2602866-009	TP04_0.2	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.00117 mg/kg	99.3	62.0	145
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.00119 mg/kg	101	64.0	140
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0012 mg/kg	95.7	65.0	137
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.00121 mg/kg	110	70.0	130

QA/QC Compliance Assessment to assist with Quality Review

Work Order	: **EM2602866**	Page	: 1 of 20
Client	: **PITT & SHERRY (OPERATIONS) PTY LTD**	Laboratory	: Environmental Division Melbourne
Contact	: FIONA KESERUE-PONTE	Telephone	: +61-3-8549 9600
Project	: INCAT ESA	Date Samples Received	: 20-Feb-2026
Site	: ----	Issue Date	: 27-Feb-2026
Sampler	: H Fairweather, M Mayjor	No. of samples received	: 76
Order number	: P.26.0075	No. of samples analysed	: 76

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, 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: **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	EM2602866--002	TP01_0.9	**Zinc**	7440-66-6	59.8 %	0% - 20%	**RPD exceeds LOR based limits**
EG005(ED093)T: Total Metals by ICP-AES	EM2602866--012	TP05_0.2	**Zinc**	7440-66-6	28.3 %	0% - 20%	**RPD exceeds LOR based limits**
EG035T: Total Recoverable Mercury by FIMS	EM2602866--012	TP05_0.2	**Mercury**	7439-97-6	51.6 %	0% - 50%	**RPD exceeds LOR based limits**
EG035T: Total Recoverable Mercury by FIMS	EM2602866--032	TP11_1.0	**Mercury**	7439-97-6	44.1 %	0% - 20%	**RPD exceeds LOR based limits**
Matrix Spike (MS) Recoveries							
EG005(ED093)T: Total Metals by ICP-AES	EM2602866--023	TP08_1.2	**Chromium**	7440-47-3	61.0 %	79.0-121%	**Recovery less than lower data quality objective**
EG005(ED093)T: Total Metals by ICP-AES	EM2602866--043	SP05	**Chromium**	7440-47-3	76.1 %	79.0-121%	**Recovery less than lower data quality objective**
EG005(ED093)T: Total Metals by ICP-AES	EM2602866--023	TP08_1.2	**Nickel**	7440-02-0	41.3 %	78.0-120%	**Recovery less than lower data quality objective**
EG005(ED093)T: Total Metals by ICP-AES	EM2602866--043	SP05	**Zinc**	7440-66-6	149 %	80.0-120%	**Recovery greater than upper data quality objective**
EG035T: Total Recoverable Mercury by FIMS	EM2602866--003	TP01_1.2	**Mercury**	7439-97-6	10.1 %	70.0-130%	**Recovery less than lower data quality objective**
EG035T: Total Recoverable Mercury by FIMS	EM2602866--023	TP08_1.2	**Mercury**	7439-97-6	202 %	70.0-130%	**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		*Sample Date*	*Extraction / Preparation*			*Analysis*		
Container / Client Sample ID(s)			*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) TP01_0.9, SP01,	TP13_1.0, SP10	**18-Feb-2026**	**25-Feb-2026**	25-Feb-2026	✓	**25-Feb-2026**	25-Feb-2026	✓
EA002-AD: pH (Soils) dried at 40°C								
Soil Glass Jar - Unpreserved (EA002-AD) TP01_0.9, SP01,	TP13_1.0, SP10	**18-Feb-2026**	**25-Feb-2026**	25-Feb-2026	✓	**25-Feb-2026**	25-Feb-2026	✓

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method	Sample Date	Extraction / Preparation			Analysis		
Container / Client Sample ID(s)		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EA010-AD: Conductivity (Soils) dried at 40°C							
Soil Glass Jar - Unpreserved (EA010-AD) TP01_0.9, TP13_1.0, SP01, SP10	**18-Feb-2026**	**25-Feb-2026**	25-Feb-2026	✓	**25-Feb-2026**	25-Mar-2026	✓

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method Container / Client Sample ID(s)		Sample Date	Extraction / Preparation Date extracted	Due for extraction	Evaluation	Analysis Date analysed	Due for analysis	Evaluation
EA055: Moisture Content (Dried @ 105-110°C)								
Soil Glass Jar - Unpreserved (EA055)								
TP01_0.9,	TP01_1.2,	**18-Feb-2026**	**----**	----	----	**24-Feb-2026**	04-Mar-2026	✓
TP04_0.2,	TP04_1.0,							
TP04_2.0,	TP05_0.2,							
TP05_0.6,	TP05_1.0,							
TP06_0.2,	TP06_0.4,							
TP06_0.7,	TP07_0.1,							
TP07_0.5,	TP07_1.3,							
TP08_0.1,	TP08_0.4,							
TP08_1.2,	TP09_0.1,							
TP09_0.7,	TP09_1.0,							
TP10_0.2,	TP10_0.5,							
TP10_1.1,	TP11_0.1,							
TP11_0.4,	TP11_1.0,							
TP11_1.5,	TP13_0.1,							
TP13_1.0,	TP13_1.4,							
SP01,	SP02,							
SP03,	SP04,							
SP05,	SP06,							
SP07,	SP08,							
SP09,	SP10,							
SP11,	SP12,							
SP13,	SP14,							
SP15,	SP16,							
SP17,	SP18,							
SP19,	SP20,							
SP21,	SP22,							
SP23,	SP24,							
SP25,	SP26,							
SP27,	SP28,							
QCP01,	QCP04,							
TRIP1,	TRIP3,							
TRIPBLANK,	TP09_1.4							
Soil Glass Jar - Unpreserved (EA055)								
TP02_0.1,	TP02_0.9,	**19-Feb-2026**	**----**	----	----	**24-Feb-2026**	05-Mar-2026	✓
TP02_1.9,	TP03 0.5,							
TP03_1.4,	TP12_0.2,							
TP12_1.0,	SP29,							
SP30								

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)		Sample Date	Extraction / Preparation: Date extracted	Due for extraction	Evaluation	Analysis: Date analysed	Due for analysis	Evaluation
EA150: Soil Classification based on Particle Size								
Snap Lock Bag - Friable Asbestos/PSD Bag (EA150H)								
TP01_0.9,	TP13_1.0,	**18-Feb-2026**	**----**	----	----	**27-Feb-2026**	17-Aug-2026	✓
SP01,	SP10							
EA152: Soil Particle Density								
Snap Lock Bag - Friable Asbestos/PSD Bag (EA152)								
TP01_0.9,	TP13_1.0,	**18-Feb-2026**	**----**	----	----	**27-Feb-2026**	17-Aug-2026	✓
SP01,	SP10							
EA200: AS 4964 - 2004 Identification of Asbestos in Soils								
Snap Lock Bag - ACM/Asbestos Grab Bag (EA200)								
TP01_0.9,	TP05_0.2,	**18-Feb-2026**	**----**	----	----	**25-Feb-2026**	17-Aug-2026	✓
TP05_1.0,	TP06_0.7,							
TP08_1.2,	TP09_0.7,							
TP10_1.1,	TP11_1.0,							
TP13_0.1,	SP22,							
SP23,	SP27							
Snap Lock Bag - ACM/Asbestos Grab Bag (EA200)								
TP02_0.9,	TP12_1.0	**19-Feb-2026**	**----**	----	----	**25-Feb-2026**	18-Aug-2026	✓
ED006: Exchangeable Cations on Alkaline Soils								
Soil Glass Jar - Unpreserved (ED006)								
TP01_0.9,	TP13_1.0,	**18-Feb-2026**	**24-Feb-2026**	18-Mar-2026	✓	**26-Feb-2026**	18-Mar-2026	✓
SP01,	SP10							
ED007: Exchangeable Cations								
Soil Glass Jar - Unpreserved (ED007)								
TP01_0.9,	TP13_1.0,	**18-Feb-2026**	**24-Feb-2026**	18-Mar-2026	✓	**26-Feb-2026**	18-Mar-2026	✓
SP01,	SP10							
ED008: Exchangeable Cations								
Soil Glass Jar - Unpreserved (ED008)								
TP01_0.9,	TP13_1.0,	**18-Feb-2026**	**24-Feb-2026**	18-Mar-2026	✓	**26-Feb-2026**	18-Mar-2026	✓
SP01,	SP10							

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)								
TP01_0.9,	TP01_1.2,	**18-Feb-2026**	**24-Feb-2026**	17-Aug-2026	✓	**26-Feb-2026**	17-Aug-2026	✓
TP04_0.2,	TP04_1.0,							
TP04_2.0,	TP05_0.2,							
TP05_0.6,	TP05_1.0,							
TP06_0.2,	TP06_0.4,							
TP06_0.7,	TP07_0.1,							
TP07_0.5,	TP07_1.3,							
TP08_0.1,	TP08_0.4,							
TP08_1.2,	TP09_0.1,							
TP09_0.7,	TP09_1.0,							
TP10_0.2,	TP10_0.5,							
TP10_1.1,	TP11_0.1,							
TP11_0.4,	TP11_1.0,							
TP11_1.5,	TP13_0.1,							
TP13_1.0,	TP13_1.4,							
SP01,	SP02,							
SP03,	SP04,							
SP05,	SP06,							
SP07,	SP08,							
SP09,	SP10,							
SP11,	SP12,							
SP13,	SP14,							
SP15,	SP16,							
SP17,	SP18,							
SP19,	SP20,							
SP21,	SP22,							
SP23,	SP24,							
SP25,	SP26,							
SP27,	SP28,							
QCP01,	QCP04,							
TRIP1,	TRIP3,							
TP09_1.4								
Soil Glass Jar - Unpreserved (EG005T)								
TP02_0.1,	TP02_0.9,	**19-Feb-2026**	**24-Feb-2026**	18-Aug-2026	✓	**26-Feb-2026**	18-Aug-2026	✓
TP02_1.9,	TP03 0.5,							
TP03_1.4,	TP12_0.2,							
TP12_1.0,	SP29,							
SP30								

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation: Date extracted	Due for extraction	Evaluation	Analysis: Date analysed	Due for analysis	Evaluation
EG035T: Total Recoverable Mercury by FIMS							
Soil Glass Jar - Unpreserved (EG035T) TP01_0.9, TP01_1.2, TP04_0.2, TP04_1.0, TP04_2.0, TP05_0.2, TP05_0.6, TP05_1.0, TP06_0.2, TP06_0.4, TP06_0.7, TP07_0.1, TP07_0.5, TP07_1.3, TP08_0.1, TP08_0.4, TP08_1.2, TP09_0.1, TP09_0.7, TP09_1.0, TP10_0.2, TP10_0.5, TP10_1.1, TP11_0.1, TP11_0.4, TP11_1.0, TP11_1.5, TP13_0.1, TP13_1.0, TP13_1.4, SP01, SP02, SP03, SP04, SP05, SP06, SP07, SP08, SP09, SP10, SP11, SP12, SP13, SP14, SP15, SP16, SP17, SP18, SP19, SP20, SP21, SP22, SP23, SP24, SP25, SP26, SP27, SP28, QCP01, QCP04, TRIP1, TRIP3, TP09_1.4	**18-Feb-2026**	**24-Feb-2026**	18-Mar-2026	✓	**26-Feb-2026**	18-Mar-2026	✓
Soil Glass Jar - Unpreserved (EG035T) TP02_0.1, TP02_0.9, TP02_1.9, TP03 0.5, TP03_1.4, TP12_0.2, TP12_1.0, SP29, SP30	**19-Feb-2026**	**24-Feb-2026**	19-Mar-2026	✓	**26-Feb-2026**	19-Mar-2026	✓

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*
EP004: Organic Matter							
Soil Glass Jar - Unpreserved (EP004) TP01_0.9, TP13_1.0, SP01, SP10	**18-Feb-2026**	**25-Feb-2026**	18-Mar-2026	✓	**25-Feb-2026**	18-Mar-2026	✓

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method		Sample Date	Extraction / Preparation			Analysis		
Container / Client Sample ID(s)			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Soil Glass Jar - Unpreserved (EP075(SIM))								
TP01_0.9,	TP01_1.2,	**18-Feb-2026**	**24-Feb-2026**	04-Mar-2026	✓	**24-Feb-2026**	05-Apr-2026	✓
TP08_0.4,	SP04							
Soil Glass Jar - Unpreserved (EP075(SIM))								
TP04_0.2,	TP04_1.0,	**18-Feb-2026**	**24-Feb-2026**	04-Mar-2026	✓	**25-Feb-2026**	05-Apr-2026	✓
TP04_2.0,	TP05_0.2,							
TP05_0.6,	TP05_1.0,							
TP06_0.2,	TP06_0.4,							
TP06_0.7,	TP07_0.1,							
TP07_0.5,	TP07_1.3,							
TP08_0.1,	TP08_1.2,							
TP09_0.1,	TP09_1.0,							
TP10_0.2,	TP10_0.5,							
TP10_1.1,	TP11_0.1,							
TP11_0.4,	TP11_1.0,							
TP11_1.5,	TP13_0.1,							
TP13_1.0,	SP01,							
SP02,	SP05,							
SP06,	SP07,							
SP08,	SP09,							
SP10,	SP11,							
SP12,	SP13,							
SP14,	SP15,							
SP16,	SP17,							
SP18,	SP19,							
SP20,	SP21,							
SP22,	SP23,							
SP24,	SP25,							
SP26,	SP27,							
SP28,	QCP01,							
QCP04,	TRIP1,							
TRIP3,	TP09_1.4							
Soil Glass Jar - Unpreserved (EP075(SIM))								
TP09_0.7		**18-Feb-2026**	**24-Feb-2026**	04-Mar-2026	✓	**26-Feb-2026**	05-Apr-2026	✓
Soil Glass Jar - Unpreserved (EP075(SIM))								
TP13_1.4,	SP03	**18-Feb-2026**	**24-Feb-2026**	04-Mar-2026	✓	**27-Feb-2026**	05-Apr-2026	✓
Soil Glass Jar - Unpreserved (EP075(SIM))								
TP02_0.1,	TP02_0.9,	**19-Feb-2026**	**24-Feb-2026**	05-Mar-2026	✓	**25-Feb-2026**	05-Apr-2026	✓
TP02_1.9,	TP03 0.5,							
TP03_1.4,	TP12_0.2,							
TP12_1.0,	SP29,							
SP30								

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)								
TP01_0.9,	TP01_1.2,	**18-Feb-2026**	**24-Feb-2026**	04-Mar-2026	✓	**24-Feb-2026**	05-Apr-2026	✓
TP04_0.2,	TP04_1.0,							
TP04_2.0,	TP05_0.2,							
TP05_0.6,	TP05_1.0,							
TP06_0.2,	TP06_0.4,							
TP06_0.7,	TP07_0.1,							
TP07_0.5,	TP07_1.3,							
TP08_0.1,	SP05							
Soil Glass Jar - Unpreserved (EP080)								
TP04_0.2,	TP04_1.0,	**18-Feb-2026**	**24-Feb-2026**	04-Mar-2026	✓	**25-Feb-2026**	04-Mar-2026	✓
TP04_2.0,	TP05_0.2,							
TP05_0.6,	TP05_1.0,							
TP06_0.2,	TP06_0.4,							
TP06_0.7,	TP07_0.1,							
TP07_0.5,	TP07_1.3,							
TP08_0.1,	TP08_0.4,							
TP08_1.2,	TP09_0.1,							
TP09_0.7,	TP09_1.0,							
TP10_0.2,	TP10_0.5,							
TP10_1.1,	TP11_0.1,							
TP11_0.4,	TP11_1.0,							
TP11_1.5,	TP13_0.1,							
TP13_1.0,	TP13_1.4,							
SP01,	SP02,							
SP03,	SP04,							
SP05,	SP06,							
SP07,	SP08,							
SP09,	SP10,							
SP11,	SP12,							
SP13,	SP14,							
SP15,	SP16,							
SP17,	SP18,							
SP19,	SP20,							
SP21,	SP22,							
SP23,	SP24,							
SP25,	SP26,							
SP27,	SP28,							
QCP01,	QCP04,							
TRIP1,	TRIP3,							
TRIPBLANK,	TP09_1.4							
Soil Glass Jar - Unpreserved (EP080)								

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation: Date extracted	Extraction / Preparation: Due for extraction	Extraction / Preparation: Evaluation	Analysis: Date analysed	Analysis: Due for analysis	Analysis: Evaluation
EP080/071: Total Petroleum Hydrocarbons - Continued							
TP02_0.1, TP02_0.9, TP02_1.9, TP03 0.5, TP03_1.4	**19-Feb-2026**	**24-Feb-2026**	05-Mar-2026	✓	**24-Feb-2026**	05-Mar-2026	✓
Soil Glass Jar - Unpreserved (EP080) TP02_0.1, TP02_0.9, TP02_1.9, TP03 0.5, TP03_1.4, TP12_0.2, TP12_1.0, SP29, SP30	**19-Feb-2026**	**24-Feb-2026**	05-Mar-2026	✓	**25-Feb-2026**	05-Mar-2026	✓

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)								
TP01_0.9,	TP01_1.2,	**18-Feb-2026**	**24-Feb-2026**	04-Mar-2026	✓	**24-Feb-2026**	05-Apr-2026	✓
TP04_0.2,	TP04_1.0,							
TP04_2.0,	TP05_0.2,							
TP05_0.6,	TP05_1.0,							
TP06_0.2,	TP06_0.4,							
TP06_0.7,	TP07_0.1,							
TP07_0.5,	TP07_1.3,							
TP08_0.1,	SP05							
Soil Glass Jar - Unpreserved (EP080)								
TP04_0.2,	TP04_1.0,	**18-Feb-2026**	**24-Feb-2026**	04-Mar-2026	✓	**25-Feb-2026**	04-Mar-2026	✓
TP04_2.0,	TP05_0.2,							
TP05_0.6,	TP05_1.0,							
TP06_0.2,	TP06_0.4,							
TP06_0.7,	TP07_0.1,							
TP07_0.5,	TP07_1.3,							
TP08_0.1,	TP08_0.4,							
TP08_1.2,	TP09_0.1,							
TP09_0.7,	TP09_1.0,							
TP10_0.2,	TP10_0.5,							
TP10_1.1,	TP11_0.1,							
TP11_0.4,	TP11_1.0,							
TP11_1.5,	TP13_0.1,							
TP13_1.0,	TP13_1.4,							
SP01,	SP02,							
SP03,	SP04,							
SP05,	SP06,							
SP07,	SP08,							
SP09,	SP10,							
SP11,	SP12,							
SP13,	SP14,							
SP15,	SP16,							
SP17,	SP18,							
SP19,	SP20,							
SP21,	SP22,							
SP23,	SP24,							
SP25,	SP26,							
SP27,	SP28,							
QCP01,	QCP04,							
TRIP1,	TRIP3,							
TRIPBLANK,	TP09_1.4							
Soil Glass Jar - Unpreserved (EP080)								

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								
TP02_0.1, TP02_1.9, TP03_1.4	TP02_0.9, TP03 0.5,	**19-Feb-2026**	**24-Feb-2026**	05-Mar-2026	✓	**24-Feb-2026**	05-Mar-2026	✓
Soil Glass Jar - Unpreserved (EP080) TP02_0.1, TP02_1.9, TP03_1.4, TP12_1.0, SP30	TP02_0.9, TP03 0.5, TP12_0.2, SP29,	**19-Feb-2026**	**24-Feb-2026**	05-Mar-2026	✓	**25-Feb-2026**	05-Mar-2026	✓

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)		Sample Date	Extraction / Preparation: Date extracted	Due for extraction	Evaluation	Analysis: Date analysed	Due for analysis	Evaluation
EP080: BTEXN								
Soil Glass Jar - Unpreserved (EP080)								
TP01_0.9,	TP01_1.2,	**18-Feb-2026**	**24-Feb-2026**	04-Mar-2026	✓	**24-Feb-2026**	04-Mar-2026	✓
TP04_0.2,	TP04_1.0,							
TP04_2.0,	TP05_0.2,							
TP05_0.6,	TP05_1.0,							
TP06_0.2,	TP06_0.4,							
TP06_0.7,	TP07_0.1,							
TP07_0.5,	TP07_1.3,							
TP08_0.1								
Soil Glass Jar - Unpreserved (EP080)								
TP08_0.4,	TP08_1.2,	**18-Feb-2026**	**24-Feb-2026**	04-Mar-2026	✓	**25-Feb-2026**	04-Mar-2026	✓
TP09_0.1,	TP09_0.7,							
TP09_1.0,	TP10_0.2,							
TP10_0.5,	TP10_1.1,							
TP11_0.1,	TP11_0.4,							
TP11_1.0,	TP11_1.5,							
TP13_0.1,	TP13_1.0,							
TP13_1.4,	SP01,							
SP02,	SP03,							
SP04,	SP05,							
SP06,	SP07,							
SP08,	SP09,							
SP10,	SP11,							
SP12,	SP13,							
SP14,	SP15,							
SP16,	SP17,							
SP18,	SP19,							
SP20,	SP21,							
SP22,	SP23,							
SP24,	SP25,							
SP26,	SP27,							
SP28,	QCP01,							
QCP04,	TRIP1,							
TRIP3,	TRIPBLANK,							
TP09_1.4								
Soil Glass Jar - Unpreserved (EP080)								
TP02_0.1,	TP02_0.9,	**19-Feb-2026**	**24-Feb-2026**	05-Mar-2026	✓	**24-Feb-2026**	05-Mar-2026	✓
TP02_1.9,	TP03 0.5,							
TP03_1.4								
Soil Glass Jar - Unpreserved (EP080)								
TP12_0.2,	TP12_1.0,	**19-Feb-2026**	**24-Feb-2026**	05-Mar-2026	✓	**25-Feb-2026**	05-Mar-2026	✓
SP29,	SP30							

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method		Sample Date	Extraction / Preparation			Analysis		
Container / *Client Sample ID(s)*			***Date extracted***	*Due for extraction*	*Evaluation*	***Date analysed***	*Due for analysis*	*Evaluation*
EP231A: Perfluoroalkyl Sulfonic Acids								
HDPE Soil Jar (EP231X)								
TP04_0.2,	TP05_0.2,	**18-Feb-2026**	**24-Feb-2026**	17-Aug-2026	✓	**24-Feb-2026**	05-Apr-2026	✓
TP08_0.1,	TP09_0.1,							
TP13_0.1,	SP01,							
SP06,	SP10,							
SP23,	SP28							
HDPE Soil Jar (EP231X)								
TP02_0.1		**19-Feb-2026**	**24-Feb-2026**	18-Aug-2026	✓	**24-Feb-2026**	05-Apr-2026	✓
Soil Glass Jar - Unpreserved (EP231X)								
TP09_0.7		**18-Feb-2026**	**24-Feb-2026**	17-Aug-2026	✓	**24-Feb-2026**	05-Apr-2026	✓
EP231B: Perfluoroalkyl Carboxylic Acids								
HDPE Soil Jar (EP231X)								
TP04_0.2,	TP05_0.2,	**18-Feb-2026**	**24-Feb-2026**	17-Aug-2026	✓	**24-Feb-2026**	05-Apr-2026	✓
TP08_0.1,	TP09_0.1,							
TP13_0.1,	SP01,							
SP06,	SP10,							
SP23,	SP28							
HDPE Soil Jar (EP231X)								
TP02_0.1		**19-Feb-2026**	**24-Feb-2026**	18-Aug-2026	✓	**24-Feb-2026**	05-Apr-2026	✓
Soil Glass Jar - Unpreserved (EP231X)								
TP09_0.7		**18-Feb-2026**	**24-Feb-2026**	17-Aug-2026	✓	**24-Feb-2026**	05-Apr-2026	✓
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
HDPE Soil Jar (EP231X)								
TP04_0.2,	TP05_0.2,	**18-Feb-2026**	**24-Feb-2026**	17-Aug-2026	✓	**24-Feb-2026**	05-Apr-2026	✓
TP08_0.1,	TP09_0.1,							
TP13_0.1,	SP01,							
SP06,	SP10,							
SP23,	SP28							
HDPE Soil Jar (EP231X)								
TP02_0.1		**19-Feb-2026**	**24-Feb-2026**	18-Aug-2026	✓	**24-Feb-2026**	05-Apr-2026	✓
Soil Glass Jar - Unpreserved (EP231X)								
TP09_0.7		**18-Feb-2026**	**24-Feb-2026**	17-Aug-2026	✓	**24-Feb-2026**	05-Apr-2026	✓

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation: Date extracted	Due for extraction	Evaluation	Analysis: Date analysed	Due for analysis	Evaluation
EP231P: PFAS Sums							
HDPE Soil Jar (EP231X) TP04_0.2, TP05_0.2, TP08_0.1, TP09_0.1, TP13_0.1, SP01, SP06, SP10, SP23, SP28	**18-Feb-2026**	**24-Feb-2026**	17-Aug-2026	✓	**24-Feb-2026**	05-Apr-2026	✓
HDPE Soil Jar (EP231X) TP02_0.1	**19-Feb-2026**	**24-Feb-2026**	18-Aug-2026	✓	**24-Feb-2026**	05-Apr-2026	✓
Soil Glass Jar - Unpreserved (EP231X) TP09_0.7	**18-Feb-2026**	**24-Feb-2026**	17-Aug-2026	✓	**24-Feb-2026**	05-Apr-2026	✓

Matrix: **SOLID**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation: Date extracted	Due for extraction	Evaluation	Analysis: Date analysed	Due for analysis	Evaluation
EA200: AS 4964 - 2004 Identification of Asbestos in bulk samples							
Snap Lock Bag - ACM/Asbestos Grab Bag (EA200) ACM1, ACM2, SP06 - ACM	**18-Feb-2026**	**----**	----	----	**25-Feb-2026**	17-Aug-2026	✓

Quality Control Parameter Frequency Compliance

The following report summarises the frequency of laboratory QC samples analysed within the analytical lot(s) in which the submitted sample(s) was(were) processed. Actual rate should be greater than or equal to the expected rate. A listing of breaches is provided in the Summary of Outliers.

Matrix: **SOIL**

Evaluation: × = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	*Method*	*QC*	*Regular*	***Actual***	***Expected***	*Evaluation*	
Laboratory Duplicates (DUP)							
Electrical Conductivity (1:5) on 40°C dried soil	EA010-AD	1	10	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Exchangeable Cations on Alkaline Soils	ED006	1	8	**12.50**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Moisture Content	EA055	8	73	**10.96**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Organic Matter	EP004	1	4	**25.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (SIM)	EP075(SIM)	8	77	**10.39**	**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
pH (1:5) on 40°C dried soil	EA002-AD	1	10	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
pH in soil using a 0.01M CaCl2 extract	EA001	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	8	80	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	10	80	**12.50**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	8	78	**10.26**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	8	75	**10.67**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Electrical Conductivity (1:5) on 40°C dried soil	EA010-AD	1	10	**10.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Exchangeable Cations on Alkaline Soils	ED006	1	8	**12.50**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Organic Matter	EP004	1	4	**25.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (SIM)	EP075(SIM)	4	77	**5.19**	**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
pH (1:5) on 40°C dried soil	EA002-AD	2	10	**20.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
pH in soil using a 0.01M CaCl2 extract	EA001	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	4	80	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	4	80	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	4	78	**5.13**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	4	75	**5.33**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Electrical Conductivity (1:5) on 40°C dried soil	EA010-AD	1	10	**10.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Exchangeable Cations on Alkaline Soils	ED006	1	8	**12.50**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Organic Matter	EP004	1	4	**25.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (SIM)	EP075(SIM)	4	77	**5.19**	**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
Total Mercury by FIMS	EG035T	4	80	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	4	80	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	4	78	**5.13**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	4	75	**5.33**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Organic Matter	EP004	1	4	**25.00**	**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		Count		Rate (%)			Quality Control Specification
Analytical Methods	*Method*	*QC*	*Regular*	***Actual***	***Expected***	*Evaluation*	
Matrix Spikes (MS) - Continued							
PAH/Phenols (SIM)	EP075(SIM)	4	77	**5.19**	**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
Total Mercury by FIMS	EG035T	4	80	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	6	80	**7.50**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	4	78	**5.13**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	4	75	**5.33**	**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 CaCl2 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 CaCl2 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) on 40°C dried soil	EA002-AD	SOIL	In house: Referenced to Rayment and Lyons 4A1 and APHA 4500H+. pH is determined on 40°C dried soil after a 1:5 soil/water leach. This method is compliant with NEPM Schedule B(3)
Electrical Conductivity (1:5) on 40°C dried soil	EA010-AD	SOIL	In house: Referenced to Rayment and Lyons 3A1 and APHA 2510. Conductivity is determined on soil samples dried at 40°C 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).
Particle Size Analysis by Hydrometer	EA150H	SOIL	Particle Size Analysis by Hydrometer according to AS1289.3.6.3
Soil Particle Density	EA152	SOIL	Soil Particle Density by AS 1289.3.5.1: Methods of testing soils for engineering purposes - Soil classification tests - Determination of the soil particle density of a soil - Standard method
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
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 (SnCl2) (Cold Vapour generation) AAS) FIM-AAS is an automated flameless atomic absorption technique. Mercury in solids are determined following an appropriate acid digestion. Ionic mercury is reduced online to atomic mercury vapour by SnCl2 which is then purged into a heated quartz cell. Quantification is by comparing absorbance against a calibration curve. This method is compliant with NEPM Schedule B(3)
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)
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).

Analytical Methods	Method	Matrix	Method Descriptions
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 negative mode LC-ESI-MS/MS using MRM and isotope dilution or internal standard quantitation. A portion of homogenised sample is extracted along with isotope dilution standards (where commercially available) in a solution of ammonium acetate in acetonitrile/methanol. Where relevant, interferences from co-extracted organics are removed using dispersive clean-up media (dSPE). A portion of extract is combined with an equal volume of reagent water and filtered for instrumental analysis.
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 CaCl2 extract	EA001-PR	SOIL	In house: Referenced to Rayment and Lyons 4B1, 10 g of soil is mixed with 50 mL of 0.01M CaCl2 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 NH4Cl 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 following drying at 40°C	EN34-AD	SOIL	10 g of 40°C dried 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, Na2SO4 and surrogate are extracted with 30mL 1:1 DCM/Acetone by end over end tumble. The solvent is decanted, dehydrated and concentrated (by KD) to the desired volume for analysis.
QuEChеRS 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.

SAMPLE RECEIPT NOTIFICATION (SRN)

Work Order	: **EM2602866**		
Client	: **PITT & SHERRY (OPERATIONS) PTY LTD**	Laboratory	: Environmental Division Melbourne
Contact	: FIONA KESERUE-PONTE	Contact	: Hannah White
Address	: 199 MACQUARIE STREET HOBART 7001	Address	: 4 Westall Rd Springvale VIC Australia 3171
E-mail	: fkeserueponte@pittsh.com.au	E-mail	: Hannah.White@alsglobal.com
Telephone	: ----	Telephone	: +61-3-8549 9600
Facsimile	: ----	Facsimile	: +61-3-8549 9626
Project	: INCAT ESA	Page	: 1 of 4
Order number	: P.26.0075	Quote number	: EM2023PITSHE0013 (EM23PITSHE0013 VIC Custom Pricing)
C-O-C number	: ----	QC Level	: NEPM 2013 B3 & ALS QC Standard
Site	: ----		
Sampler	: H Fairweather, M Mayjor		

Dates

Date Samples Received	: 20-Feb-2026 12:35	Issue Date	: 23-Feb-2026
Client Requested Due Date	: 03-Mar-2026	Scheduled Reporting Date	: **03-Mar-2026**

Delivery Details

Mode of Delivery	: Carrier	Security Seal	: Intact.
No. of coolers/boxes	: 7	Temperature	: 0.8, 1.3, 2.6 °C - Ice present
Receipt Detail	:	No. of samples received / analysed	: 76 / 76

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
- An additional sample ID TP 1.4, has been received and added to the workorder as Sample #77. The sample will be kept on hold pending further instructions.
- Samples 001,that are listed on the CoC, have not been received at the laboratory.
- **Please direct any queries related to sample condition / numbering / breakages to Client Services.**
- Sample Disposal - Aqueous (3 weeks), Solid (2 months) from receipt of samples.
- **Please refer to the Proactive Holding Time Report table below which summarises breaches of recommended holding times that have occurred prior to samples/instructions being received at the laboratory. The laboratory will process these samples unless instructions are received from you indicating you do not wish to proceed. The absence of this summary table indicates that all samples have been received within the recommended holding times for the analysis requested.**
- Please be aware that APHA/NEPM recommends water and soil samples be chilled to less than or equal to 6°C for chemical analysis, and less than or equal to 10°C but unfrozen for Microbiological analysis. Where samples are received above this temperature, it should be taken into consideration when interpreting results. Refer to ALS EnviroMail 85 for ALS recommendations of the best practice for chilling samples after sampling and for maintaining a cool temperature during transit.

Sample Container(s)/Preservation Non-Compliances

All comparisons are made against pretreatment/preservation AS, APHA, USEPA standards.

- **No sample container / preservation non-compliance exists.**

Summary of Sample(s) and Requested Analysis

Some items described below may be part of a laboratory process necessary for the execution of client requested tasks. Packages may contain additional analyses, such as the determination of moisture content and preparation tasks, that are included in the package.
If no sampling time is provided, the sampling time will default 00:00 on the date of sampling. If no sampling date is provided, the sampling date will be assumed by the laboratory and displayed in brackets without a time component

Matrix: **SOIL**

Laboratory sample ID	*Sampling date / time*	*Sample ID*	SOIL - EA055-103 Moisture Content	SOIL - EA200 Asbestos Identification in Soils -	SOIL - EP231 (solids) PFAS - Short Suite (12 analytes)	SOIL - P-22 (Melb) Soil Characterisation Package	SOIL - S-18 TRH(C6-C9)/BTEXN	SOIL - S-26 8 metals/TRH/BTEXN/PAH
EM2602866-002	18-Feb-2026 16:30	TP01_0.9	✓	✓		✓		✓
EM2602866-003	18-Feb-2026 16:30	TP01_1.2	✓					✓
EM2602866-004	19-Feb-2026 13:00	TP02_0.1	✓		✓			✓
EM2602866-005	19-Feb-2026 13:00	TP02_0.9	✓	✓				✓
EM2602866-006	19-Feb-2026 13:00	TP02_1.9	✓					✓
EM2602866-007	19-Feb-2026 13:30	TP03 0.5	✓					✓
EM2602866-008	19-Feb-2026 13:30	TP03_1.4	✓					✓
EM2602866-009	18-Feb-2026 13:30	TP04_0.2	✓		✓			✓
EM2602866-010	18-Feb-2026 13:30	TP04_1.0	✓					✓
EM2602866-011	18-Feb-2026 13:30	TP04_2.0	✓					✓
EM2602866-012	18-Feb-2026 15:00	TP05_0.2	✓	✓	✓			✓
EM2602866-013	18-Feb-2026 15:00	TP05_0.6	✓					✓
EM2602866-014	18-Feb-2026 15:00	TP05_1.0	✓	✓				✓
EM2602866-015	18-Feb-2026 14:30	TP06_0.2	✓					✓
EM2602866-016	18-Feb-2026 14:30	TP06_0.4	✓					✓
EM2602866-017	18-Feb-2026 14:30	TP06_0.7	✓	✓				✓
EM2602866-018	18-Feb-2026 12:30	TP07_0.1	✓					✓
EM2602866-019	18-Feb-2026 12:30	TP07_0.5	✓					✓
EM2602866-020	18-Feb-2026 12:30	TP07_1.3	✓					✓
EM2602866-021	18-Feb-2026 12:00	TP08_0.1	✓		✓			✓
EM2602866-022	18-Feb-2026 12:00	TP08_0.4	✓					✓
EM2602866-023	18-Feb-2026 12:00	TP08_1.2	✓	✓				✓
EM2602866-024	18-Feb-2026 14:00	TP09_0.1	✓		✓			✓
EM2602866-025	18-Feb-2026 16:30	TP09_0.7	✓	✓	✓			✓
EM2602866-026	18-Feb-2026 16:30	TP09_1.0	✓					✓
EM2602866-027	18-Feb-2026 16:30	TP10_0.2	✓					✓
EM2602866-028	18-Feb-2026 14:00	TP10_0.5	✓					✓
EM2602866-029	18-Feb-2026 14:00	TP10_1.1	✓	✓				✓
EM2602866-030	18-Feb-2026 09:00	TP11_0.1	✓					✓
EM2602866-031	18-Feb-2026 09:00	TP11_0.4	✓					✓
EM2602866-032	18-Feb-2026 09:00	TP11_1.0	✓	✓				✓
EM2602866-033	18-Feb-2026 09:00	TP11_1.5	✓					✓
EM2602866-034	19-Feb-2026 14:30	TP12_0.2	✓					✓
EM2602866-035	19-Feb-2026 14:30	TP12_1.0	✓	✓				✓
EM2602866-036	18-Feb-2026 08:30	TP13_0.1	✓	✓	✓			✓

			SOIL - EA055-103 Moisture Content	SOIL - EA200 Asbestos Identification in Soils -	SOIL - EP231 (solids) PFAS - Short Suite (12 analytes)	SOIL - P-22 (Melb) Soil Characterisation Package	SOIL - S-18 TRH(C6-C9)/BTEXN	SOIL - S-26 8 metals/TRH/BTEXN/PAH
EM2602866-037	18-Feb-2026 08:30	TP13_1.0	✓			✓		✓
EM2602866-038	18-Feb-2026 08:30	TP13_1.4	✓					✓
EM2602866-039	18-Feb-2026 00:00	SP01	✓		✓	✓		✓
EM2602866-040	18-Feb-2026 00:00	SP02	✓					✓
EM2602866-041	18-Feb-2026 00:00	SP03	✓					✓
EM2602866-042	18-Feb-2026 00:00	SP04	✓					✓
EM2602866-043	18-Feb-2026 00:00	SP05	✓					✓
EM2602866-044	18-Feb-2026 00:00	SP06	✓		✓			✓
EM2602866-045	18-Feb-2026 00:00	SP07	✓					✓
EM2602866-046	18-Feb-2026 00:00	SP08	✓					✓
EM2602866-047	18-Feb-2026 00:00	SP09	✓					✓
EM2602866-048	18-Feb-2026 00:00	SP10	✓		✓	✓		✓
EM2602866-049	18-Feb-2026 00:00	SP11	✓					✓
EM2602866-050	18-Feb-2026 00:00	SP12	✓					✓
EM2602866-051	18-Feb-2026 00:00	SP13	✓					✓
EM2602866-052	18-Feb-2026 00:00	SP14	✓					✓
EM2602866-053	18-Feb-2026 00:00	SP15	✓					✓
EM2602866-054	18-Feb-2026 00:00	SP16	✓					✓
EM2602866-055	18-Feb-2026 00:00	SP17	✓					✓
EM2602866-056	18-Feb-2026 00:00	SP18	✓					✓
EM2602866-057	18-Feb-2026 00:00	SP19	✓					✓
EM2602866-058	18-Feb-2026 00:00	SP20	✓					✓
EM2602866-059	18-Feb-2026 00:00	SP21	✓					✓
EM2602866-060	18-Feb-2026 00:00	SP22	✓	✓				✓
EM2602866-061	18-Feb-2026 00:00	SP23	✓	✓	✓			✓
EM2602866-062	18-Feb-2026 00:00	SP24	✓					✓
EM2602866-063	18-Feb-2026 00:00	SP25	✓					✓
EM2602866-064	18-Feb-2026 00:00	SP26	✓					✓
EM2602866-065	18-Feb-2026 00:00	SP27	✓	✓				✓
EM2602866-066	18-Feb-2026 00:00	SP28	✓		✓			✓
EM2602866-067	19-Feb-2026 00:00	SP29	✓					✓
EM2602866-068	19-Feb-2026 00:00	SP30	✓					✓
EM2602866-069	18-Feb-2026 00:00	QCP01	✓					✓
EM2602866-070	18-Feb-2026 00:00	QCP04	✓					✓
EM2602866-071	18-Feb-2026 00:00	TRIP1	✓					✓
EM2602866-072	18-Feb-2026 00:00	TRIP3	✓					✓
EM2602866-075	18-Feb-2026 00:00	TRIPBLANK	✓				✓	
EM2602866-077	18-Feb-2026 00:00	TP09_1.4	✓					✓

Matrix: **SOLID**

Laboratory sample ID	*Sampling date / time*	*Sample ID*	SOLID - EA200B Asbestos Identification in Bulk Solids (Excluding
EM2602866-073	18-Feb-2026 00:00	ACM1	✓
EM2602866-074	18-Feb-2026 00:00	ACM2	✓
EM2602866-076	18-Feb-2026 00:00	SP06 ACM	✓

Proactive Holding Time Report

Sample(s) have been received within the recommended holding times for the requested analysis.

Requested Deliverables

ALL ACCOUNTS		
- A4 - AU Tax Invoice (INV)	Email	accounts@pittsh.com.au
FIONA KESERUE-PONTE		
- *AU Certificate of Analysis - NATA (COA)	Email	fkeserueponte@pittsh.com.au
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	fkeserueponte@pittsh.com.au
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	fkeserueponte@pittsh.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	fkeserueponte@pittsh.com.au
- A4 - AU Tax Invoice (INV)	Email	fkeserueponte@pittsh.com.au
- Attachment - Report (SUBCO)	Email	fkeserueponte@pittsh.com.au
- Chain of Custody (CoC) (COC)	Email	fkeserueponte@pittsh.com.au
- EDI Format - ENMRG (ENMRG)	Email	fkeserueponte@pittsh.com.au
- EDI Format - ESDAT (ESDAT)	Email	fkeserueponte@pittsh.com.au
HARRISON FAIRWEATHER		
- *AU Certificate of Analysis - NATA (COA)	Email	hfairweather@pittsh.com.au
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	hfairweather@pittsh.com.au
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	hfairweather@pittsh.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	hfairweather@pittsh.com.au
- Attachment - Report (SUBCO)	Email	hfairweather@pittsh.com.au
- Chain of Custody (CoC) (COC)	Email	hfairweather@pittsh.com.au
- EDI Format - ENMRG (ENMRG)	Email	hfairweather@pittsh.com.au
- EDI Format - ESDAT (ESDAT)	Email	hfairweather@pittsh.com.au
Maddison Mayjor		
- *AU Certificate of Analysis - NATA (COA)	Email	mmayjor@pittsh.com.au
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	mmayjor@pittsh.com.au
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	mmayjor@pittsh.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	mmayjor@pittsh.com.au
- Attachment - Report (SUBCO)	Email	mmayjor@pittsh.com.au
- Chain of Custody (CoC) (COC)	Email	mmayjor@pittsh.com.au
- EDI Format - ENMRG (ENMRG)	Email	mmayjor@pittsh.com.au
- EDI Format - ESDAT (ESDAT)	Email	mmayjor@pittsh.com.au

Inter-Laboratory Testing

Analysis conducted by ALS Newcastle, NATA accreditation no. 825, site no. 1656 (Chemistry / Biology).

(SOIL) EA150: Soil Classification based on Particle Size

(SOIL) EA152: Soil Particle Density

SAMPLES RECEIVED WITHOUT COC

Environmental Division
Melbourne
Work Order Reference
EM2602866

Telephone : + 61-3-8549 9600

FREIGHT

CLIENT:	PHH + SHERRY	CARRIER:	CLIENT
PROJECT / QUOTE:	P-26-0075	CONNOTE #:	
CONTACT NAME:		AWB #:	
CONTACT NUMBER:		# OF ESKIES:	SECURITY SEAL: Y (circled) N N/A
SAMPLER NAME:		TYPE OF ESKIES:	HAND
SAMPLER NUMBER:		ESKY NUMBERS:	7.
SAMPLES RECEIVED BY:	Manu (AW)	# OF SAMPLES:	
DATE/TIME RECEIVED: 20/2, 12:35	CLIENT SERVICES NOTIFIED BY:	TEMPERATURE:	13.0°C + ICE

SAMPLE DETAILS

LAB ID	SAMPLE ID	DATE	MATRIX	NUMBER OF CONTAINERS
1	TP06 -0.4			
2	TP12	19/2		
3				
4				
5				
			TOTAL	

ADDITIONAL INFORMATION / COMMENTS:

OTHER INFORMATION:

- ☐ MICRO
- ☐ BIOSECURITY
- ☐ BROKEN CONTAINERS
- ☑ COC EMAILED
- ☐ ALS COMPASS

CORRESPONDENCE (DATE, INITIALS - DETAILS OF CORRESPONDENCE):

- coc to be emailed

SAMPLES RECEIVED WITHOUT COC

FREIGHT

Environmental Division
Melbourne
Work Order Reference
EM2602866

Telephone : + 61-3-8549 9600

CLIENT: PHT + SHERRY		CARRIER: CIENT	
PROJECT / QUOTE: P-26-0075		CONNOTE #:	
CONTACT NAME:		AWB #:	
CONTACT NUMBER:		# OF ESKIES:	SECURITY SEAL: Y N N/A
SAMPLER NAME:		TYPE OF ESKIES: HAND	
SAMPLER NUMBER:		ESKY NUMBERS: 7.	
SAMPLES RECEIVED BY: Manu (An)		# OF SAMPLES:	
DATE/TIME RECEIVED: 20/2, 1235	CLIENT SERVICES NOTIFIED BY:	TEMPERATURE: 13.0°C + ICE	

LAB ID	SAMPLE ID	DATE	MATRIX	NUMBER OF CONTAINERS	ADDITIONAL INFORMATION / COMMENTS: OTHER INFORMATION:
					☐ MICRO ☐ BIOSECURITY ☐ BROKEN CONTAINERS ☑ COC EMAILED ☐ ALS COMPASS
1	TP06 -0.4				
2	TP12	19/2			
3					
4					
5					
			TOTAL		

CORRESPONDENCE (DATE, INITIALS - DETAILS OF CORRESPONDENCE):

- coc to be emailed

CHAIN OF CUSTODY

ALS Environmental

ALS Laboratory: please tick →

CLIENT: PITTSHERRY

OFFICE: Hobart

PROJECT: INCAT ESA

ORDER NUMBER: P.26.3075

PROJECT MANAGER: Fiona Keserue-Ponte | CONTACT PH: 03 6210 1449

SAMPLER: H Fairweather, M Majjar | SAMPLER MOBILE: 0434370874

COC emailed to ALS? (YES) | EDD FORMAT (or default):

Email Reports to: FKeseruePonte@pittsh.com.au, hfairweather@pittsh.com.au, MMajjar@pittsh.com.au

Email Invoice to: FKeseruePonte@pittsh.com.au, Accounts@pittsh.com.au

TURNAROUND REQUIREMENTS: (Standard TAT may be longer for some tests e.g. Ultra Trace Organics) — ◉ Standard TAT (List due date): ☐ Non Standard or urgent TAT (List due date):

ALS QUOTE NO.: EM23PITSHE0013 VIC Custom Pricing

COC SEQUENCE NUMBER (Circle): coc: 1 2 3 4 5 6 7 / OF: 1 2 3 4 5 6 7

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:

RELINQUISHED BY: HF, MM — DATE/TIME: 19/02/2026, 1600 | RECEIVED BY: — DATE/TIME: | RELINQUISHED BY: — DATE/TIME: | RECEIVED BY: — DATE/TIME:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL: Please forward QCS01, QCS04, TRIP2, TRIP4 to Eurofins for analyses. Please dispose of QCP02, QCS02, QCP03, QCS03, TRIP5, TRIP6, Ziplock ASC NEPM bag - TP04_1.0

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).

LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL CONTAINERS	P-33 NEPM Screen for soil classification: Fe, CEC, pH(CaCl2), TOC, Clay Content, pH(1:5)	S-18 TPH (C6-C36), TRH (C6-C40) plus F1, F2	S-26 TRH/BTEXN/PAH plus 8 metals	EA200G	EA200B Asbestos: Absence/Presence in Bulk Solids (Potential bonded ACM)	EP231 PFAS - Short suite	Additional Information: Comments on likely contaminant levels, dilutions, or samples requiring specific QC analysis etc.
1	TP01_0.2	18/2, 1630	S	1 x Glass Soil Jar	1			X				
2	TP01_0.8	18/2, 1630	S	1 x Glass Soil Jar, 1 x Zip-lock bag, 1 x ACM Bulk bag	3	X		X	X			
3	TP01_1.2	18/2, 1630	S	1 x Glass Soil Jar	1			X				
4	TP02_0.1	19/2, 1300	S	1 x Glass Soil Jar, 1 x PFAS Soil Jar	2			X			X	
5	TP02_0.6	19/2, 1300	S	1 x Glass Soil Jar, 1 x ACM Bulk bag	2			X	X			
6	TP02_1.0	19/2, 1300	S	1 x Glass Soil Jar	1			X				
7	TP03_0.5	19/2, 1330	S	1 x Glass Soil Jar	1			X				
8	TP03_1.4	19/2, 1330	S	1 x Glass Soil Jar	1			X				
9	TP04_0.2	18/2, 1330	S	1 x Glass Soil Jar, 1 x PFAS Soil Jar	2			X			X	
10	TP04_1.0	18/2, 1330	S	1 x Glass Soil Jar, 1 x Zip-lock bag	2			X				Disregard & dispose of Ziplock ASC NEPM class bag only - subject to requirements
11	TP04_2.0	18/2, 1330	S	1 x Glass Soil Jar	1			X				
12	TP05_0.2	18/2, 1500	S	1 x Glass Soil Jar, 1 x PFAS Soil Jar, 1 x ACM Bulk bag	3			X	X		X	
13	TP05_0.8	18/2, 1500	S	1 x Glass Soil Jar	1			X				
14	TP05_1.2	18/2, 1500	S	1 x Glass Soil Jar, 1 x ACM Bulk bag	2			X	X			
15	TP06_0.2	18/2, 1430	S	1 x Glass Soil Jar	1			X				
16	TP06_0.4	18/2, 1430	S	1 x Glass Soil Jar	1			X				
17	TP06_0.7	18/2, 1430	S	1 x Glass Soil Jar, 1 x ACM Bulk bag	2			X	X			
18	TP07_0.1	18/2, 1230	S	1 x Glass Soil Jar	1			X				
19	TP07_0.5	18/2, 1230	S	1 x Glass Soil Jar	1			X				
20	TP07_1.2	18/2, 1230	S	1 x Glass Soil Jar	1			X				
21	TP08_0.1	18/2, 1300	S	1 x Glass Soil Jar, 1 x PFAS Soil Jar	2			X			X	
22	TP08_0.4	18/2, 1300	S	1 x Glass Soil Jar	1			X				
23	TP08_1.2	18/2, 1300	S	1 x Glass Soil Jar, 1 x ACM Bulk bag	2			X	X			
24	TP09_0.1	18/2, 1000	S	1 x Glass Soil Jar, 1 x PFAS Soil Jar	2			X			X	
25	TP09_0.7	18/2, 1000	S	1 x Glass Soil Jar, 1 x PFAS Soil Jar, 1 x ACM Bulk bag	3			X	X		X	
26	TP09_1.0	18/2, 1000	S	1 x Glass Soil Jar	1			X				
27	TP10_0.2	18/2, 1400	S	1 x Glass Soil Jar	1			X				
28	TP10_0.5	18/2, 1400	S	1 x Glass Soil Jar	1			X				
29	TP10_1.1	18/2, 1400	S	1 x Glass Soil Jar, 1 x ACM Bulk bag	2			X	X			
30	TP11_0.1	18/2, 0900	S	1 x Glass Soil Jar	1			X				
31	TP11_0.4	18/2, 0900	S	1 x Glass Soil Jar	1			X				
32	TP11_1.0	18/2, 0900	S	1 x Glass Soil Jar, 1 x ACM Bulk bag	2			X	X			
33	TP11_1.5	18/2, 0900	S	1 x Glass Soil Jar	1			X				
34	TP12_0.2	19/2, 1430	S	1 x Glass Soil Jar	1			X				
35	TP12_1.0	19/2, 1430	S	1 x Glass Soil Jar, 1 x ACM Bulk bag	2			X	X			
36	TP13_0.1	18/2, 0830	S	1 x Glass Soil Jar, 1 x PFAS Soil Jar, 1 x ACM Bulk bag	3			X	X		X	
37	TP13_1.0	18/2, 0830	S	1 x Glass Soil Jar, 1 x Zip-lock bag	2	X		X				
38	TP13_1.4	18/2, 0830	S	1 x Glass Soil Jar	1			X				
39	SP01	18-Feb-26	S	1 x Glass Soil Jar, 1 x PFAS Soil Jar, 1 x Zip-lock bag	3	X		X			X	
40	SP02	18-Feb-26	S	1 x Glass Soil Jar	1			X				
41	SP03	18-Feb-26	S	1 x Glass Soil Jar	1			X				
42	SP04	18-Feb-26	S	1 x Glass Soil Jar	1			X				
43	SP05	18-Feb-26	S	1 x Glass Soil Jar	1			X				
44	SP06	18-Feb-26	S	1 x Glass Soil Jar, 1 x PFAS Soil Jar, 1 x Zip-lock bag, 1 x 50g ACM grab bag	4	X		X		X	X	
45	SP07	18-Feb-26	S	1 x Glass Soil Jar	1			X				
46	SP08	18-Feb-26	S	1 x Glass Soil Jar	1			X				
47	SP09	18-Feb-26	S	1 x Glass Soil Jar	1			X				
48	SP10	18-Feb-26	S	1 x Glass Soil Jar, 1 x PFAS Soil Jar, 1 x ACM Bulk bag	3			X			X	
49	SP11	18-Feb-26	S	1 x Glass Soil Jar	1			X				
50	SP12	18-Feb-26	S	1 x Glass Soil Jar	1			X				
51	SP13	18-Feb-26	S	1 x Glass Soil Jar	1			X				
52	SP14	18-Feb-26	S	1 x Glass Soil Jar	1			X				
53	SP15	18-Feb-26	S	1 x Glass Soil Jar	1			X				
54	SP16	18-Feb-26	S	1 x Glass Soil Jar	1			X				
55	SP17	18-Feb-26	S	1 x Glass Soil Jar	1			X				
56	SP18	18-Feb-26	S	1 x Glass Soil Jar	1			X				
57	SP19	18-Feb-26	S	1 x Glass Soil Jar	1			X				
58	SP20	18-Feb-26	S	1 x Glass Soil Jar	1			X				
59	SP21	18-Feb-26	S	1 x Glass Soil Jar	1			X				
60	SP22	18-Feb-26	S	1 x Glass Soil Jar, 1 x ACM Bulk bag	2			X	X			
61	SP23	18-Feb-26	S	1 x Glass Soil Jar, 1 x PFAS Soil Jar, 1 x ACM Bulk bag	3			X	X		X	
62	SP24	18-Feb-26	S	1 x Glass Soil Jar	1			X				
63	SP25	18-Feb-26	S	1 x Glass Soil Jar	1			X				
64	SP26	18-Feb-26	S	1 x Glass Soil Jar	1			X				
65	SP27	18-Feb-26	S	1 x Glass Soil Jar, 1 x ACM Bulk bag	2			X	X			
66	SP28	18-Feb-26	S	1 x Glass Soil Jar, 1 x PFAS Soil Jar	2			X			X	
67	SP29	19-Feb-26	S	1 x Glass Soil Jar	1			X				
68	SP30	19-Feb-26	S	1 x Glass Soil Jar	1			X				
69	QCP01		S	1 x Glass Soil Jar	1			X				
	[illegible]		S	1 x Glass Soil Jar	1			X				[illegible]
	QCP02		S	1 x Glass Soil Jar	1							Disregard and Dispose of sample - subject to requirements
	QCS02		S	1 x Glass Soil Jar	1							Disregard and Dispose of sample - subject to requirements
	QCP03		S	1 x Glass Soil Jar	1							Disregard and Dispose of sample - subject to requirements
	QCS03		S	1 x Glass Soil Jar	1							Disregard and Dispose of sample - subject to requirements
	QCP04		S	1 x Glass Soil Jar	1			X				
	[illegible]		S	1 x Glass Soil Jar	1			X				[illegible]
	TRIP1		S	1 x Glass Soil Jar	1			X				
	[illegible]		S	1 x Glass Soil Jar	1			X				[illegible]
	TRIP3		S	1 x Glass Soil Jar	1			X				
	[illegible]		S	1 x Glass Soil Jar	1			X				[illegible]
	TRIP5		S	1 x Glass Soil Jar								Disregard and Dispose of sample - subject to requirements
	TRIP6		S	1 x Glass Soil Jar								Disregard and Dispose of sample - subject to requirements
	ACM1		S	1 x 50g ACM grab bag						X		
	ACM2		S	1 x 50g ACM grab bag						X		
	TRIPBLANK		S									
	TRIPBLANK		S									Disregard and Dispose of sample - subject to requirements
	TRIPBLANK		S									Disregard and Dispose of sample - subject to requirements
				TOTAL	112	4	0	78	14	3	13	

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

Quality Assurance/Quality Control Review

Summary :

Quality Control Frequency - Solid

- 0 Duplicate frequency non-compliant
- 0 Laboratory matrix spike frequency non-compliant
- 0 Method Blank frequency non-compliant
- 0 Laboratory Control Spikes frequency non-compliant

Quality Control Outlier - Solid

- 0 Duplicate outlier
- 0 Laboratory matrix spike outlier
- 0 Method Blank outlier
- 0 Laboratory Control Spikes outlier

Holding Time Outlier - Solid

- No samples analysed out of holding time.

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Quality Control Analyte Summary Compliance

The table below is the actual occurrence of QC performed on the batch of samples within this report and as defined below

Quality Control Parameter Frequency Compliance follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure (NEPM) April 2011, Schedule B3, Guideline on Laboratory Analysis of Potentially Contaminated Soils and US EPA SW-846 Chapter 1: 'Quality Control'. It comprises the following when a laboratory process batch is deemed to consist of up to 20 samples that are similar in terms of matrix and test procedure, and are processed as one unit for QC purposes. If more than 20 samples are being processed, they are considered as more than one batch. Method blank - One method blank per process batch. Laboratory duplicate: There should be at least one duplicate per process batch or two duplicates if the process batch exceeds 10 samples. Laboratory control sample (LCS): There should be at least one LCS per process batch. Matrix spikes - There should be one matrix spike per matrix type per process batch.

For Per- and Polyfluoroalkyl Substances (PFAS) analysis, as outlined in US EPA Quality Systems Manual (QSM 6.0 or later versions) Table B-24. Per-and Polyfluoroalkyl Substances (PFAS) Analysis by Liquid Chromatography/Mass Spectrometry/Mass Spectrometry (LC/MS/MS), follow strict Data Validation procedures to ensure accuracy, precision, and reliability as per US DoD's Environmental Data Quality Workgroup Data Validation Guidelines Module 6 . Acceptance criteria and frequency for Initial Calibration Verification (ICV), Continuing Calibration Verification (CCV), Laboratory Control Sample (LCS), Method Blank (MB), Surrogate Recovery (for Isotopically Labelled Standards for Extracted Internal Standards and Non-extracted Internal Standards (if applicable for Method 1633)) and duplicates follow the NEPM requirements or additional prerequisites listed in PFAS National Environmental Management Plan 3.0, 2025.

Matrix : Solid

Analysis	QC Type	Samples Analysed	QC Sample Reported	Frequency Criteria		Within Acceptance Limits
				Expected	Achieved	
Total Recoverable Hydrocarbons	Laboratory Duplicates	4	1	1	✓	✓
	Laboratory Matrix Spikes	4	2	1	✓	✓
	Method Blanks	4	1	1	✓	✓
	Laboratory Control Samples	4	1	1	✓	✓
BTEX	Laboratory Duplicates	4	1	1	✓	✓
	Laboratory Matrix Spikes	4	1	1	✓	✓
	Method Blanks	4	1	1	✓	✓
	Laboratory Control Samples	4	1	1	✓	✓
Polycyclic Aromatic Hydrocarbons	Laboratory Duplicates	4	1	1	✓	✓
	Laboratory Matrix Spikes	4	1	1	✓	✓
	Method Blanks	4	1	1	✓	✓
	Laboratory Control Samples	4	1	1	✓	✓
Heavy Metals	Laboratory Duplicates	4	1	1	✓	✓Q15
	Laboratory Matrix Spikes	4	1	1	✓	✓
	Method Blanks	4	1	1	✓	✓
	Laboratory Control Samples	4	1	1	✓	✓
Sample Properties	Laboratory Duplicates	4	1	1	✓	✓
	Laboratory Matrix Spikes	4	N/A	-	-	-
	Method Blanks	4	N/A	-	-	-
	Laboratory Control Samples	4	N/A	-	-	-

Qualifier Codes/Comments

Q15 The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.

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Analysis Holding Time Compliance
Matrix : Solid

	Analysis Holding	Date Sampled	Date Extracted	Date Analysed	Compliant
TRH C6-C9					
26-Fe0066992, 26-Fe0066993, 26-Fe0066994, 26-Fe0066995	14 Days	18/02/2026	24/02/2026	25/02/2026	✓
BTEX					
26-Fe0066992, 26-Fe0066993, 26-Fe0066994, 26-Fe0066995	14 Days	18/02/2026	24/02/2026	25/02/2026	✓
Total Recoverable Hydrocarbons - 2013 NEPM Fractions					
26-Fe0066992, 26-Fe0066993, 26-Fe0066994, 26-Fe0066995	14 Days	18/02/2026	23/02/2026	25/02/2026	✓
Total Recoverable Hydrocarbons - 1999 NEPM Fractions					
26-Fe0066992, 26-Fe0066993, 26-Fe0066994, 26-Fe0066995	14 Days	18/02/2026	23/02/2026	24/02/2026	✓
Polycyclic Aromatic Hydrocarbons					
26-Fe0066992, 26-Fe0066993, 26-Fe0066994, 26-Fe0066995	14 Days	18/02/2026	23/02/2026	24/02/2026	✓
Total Recoverable Hydrocarbons - 2013 NEPM Fractions					
26-Fe0066992, 26-Fe0066993, 26-Fe0066994, 26-Fe0066995	14 Days	18/02/2026	24/02/2026	24/02/2026	✓
Metals M8					
26-Fe0066992, 26-Fe0066993, 26-Fe0066994, 26-Fe0066995	28 Days	18/02/2026	24/02/2026	25/02/2026	✓
% Moisture					
26-Fe0066992, 26-Fe0066993, 26-Fe0066994, 26-Fe0066995	14 Days	18/02/2026	23/02/2026	25/02/2026	✓

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Melbourne	Geelong	Sydney	Newcastle	Canberra	Brisbane	Hobart	Perth
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	1/2 Frost Drive	Unit 1,2 Dacre Street	1/21 Smallwood Place	282A Argyle Street	46-48 Banksia Road
Dandenong South	Grovedale	Girraween	Mayfield West	Mitchell	Murarrie	North Hobart	Welshpool
VIC 3175	VIC 3216	NSW 2145	NSW 2304	ACT 2911	QLD 4172	TAS 7000	WA 6106
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 4968 8448	+61 2 6113 8091	+61 7 3902 4600	+61 3 8564 5000	+61 8 6253 4444
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 2377
Site# 1254	Site# 25403	Site# 18217	Site# 25079	Site# 25466	Site# 20794 & 2780	Site# 1254	Site# 2370 & 2554

Sample Receipt Advice

Company name:	Pitt & Sherry (Operations) Pty Ltd
Contact name:	Fiona
Project name:	INCAT ESA
Project ID:	P.26.0075
Turnaround time:	5 Day
Date/Time received	Feb 23, 2026 4:40 PM
Eurofins reference	1326906

Sample Information

- ✓ A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- ✓ All samples have been received as described on the above COC.
- ✗ COC has been completed correctly.
- ✓ Attempt to chill was evident.
- ✓ Appropriately preserved sample containers have been used.
- ✓ All samples were received in good condition.
- ✗ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- ✓ Appropriate sample containers have been used.
- ✓ Sample containers for volatile analysis received with zero headspace.
- ✗ Split sample sent to requested external lab.
- ✗ Some samples have been subcontracted.
- N/A Custody Seals intact (if used).

Notes

Contact

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

Savini Suduweli on phone : +61 3 8564 5051 or by email: Savini.Suduwelikondage@eurofinsanz.com

Results will be delivered electronically via email to Fiona - fkeserueponte@pittsh.com.au.

Note: A copy of these results will also be delivered to the general Pitt & Sherry (Operations) Pty Ltd email address.

Global Leader - Results you can trust

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

web: www.eurofins.com.au
email: EnviroSales@eurofinsanz.com

Melbourne 6 Monterey Road Dandenong South VIC 3175 +61 3 8564 5000 NATA# 1261 Site# 1254

Geelong 19/8 Lewalan Street Grovedale VIC 3216 +61 3 8564 5000 NATA# 1261 Site# 25403

Sydney 179 Magowar Road Girraween NSW 2145 +61 2 9900 8400 NATA# 1261 Site# 18217

Newcastle 1/2 Frost Drive Mayfield West NSW 2304 +61 2 4968 8448 NATA# 1261 Site# 25079

Canberra Unit 1,2 Dacre Street Mitchell ACT 2911 +61 2 6113 8091 NATA# 1261 Site# 25466

Brisbane 1/21 Smallwood Place Murarrie QLD 4172 +61 7 3902 4600 NATA# 1261 Site# 20794 & 2780

Hobart 282A Argyle Street North Hobart TAS 7000 +61 3 8564 5000 NATA# 1261 Site# 1254

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth 46-48 Banksia Road Welshpool WA 6106 +61 8 6253 4444 NATA# 2377 Site# 2370 & 2554

Company Name: Pitt & Sherry (Operations) Pty Ltd
Address: 4th Floor, 113 Cimitiere Street
Launceston
Tasmania 7250

Project Name: INCAT ESA
Project ID: P.26.0075

Order No.: P.26.0075
Report #: 1326906
Phone: 03 6323 1900
Fax: 03 6334 4651

Received: Feb 23, 2026 4:40 PM
Due: Mar 2, 2026
Priority: 5 Day
Contact Name: Fiona

Eurofins Analytical Services Manager : Savini Suduweli

Sample Detail						Metals M8	Moisture Set	Eurofins Suite B4
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X
External Laboratory								
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**			
1	QCS1	Feb 18, 2026		Soil	M26-Fe0066992	X	X	X
2	QCS4	Feb 18, 2026		Soil	M26-Fe0066993	X	X	X
3	TRIP2	Feb 18, 2026		Soil	M26-Fe0066994	X	X	X
4	TRIP4	Feb 18, 2026		Soil	M26-Fe0066995	X	X	X
Test Counts						4	4	4

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Certificate of Analysis

NATA Accredited
Accreditation Number 1261
Site Number 1254

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

Pitt & Sherry (Operations) Pty Ltd
4th Floor, 113 Cimitiere Street
Launceston
Tasmania 7250

Attention: **Fiona**

Report	**1326906-S**
Project name	INCAT ESA
Project ID	P.26.0075
Received Date	Feb 23, 2026

Client Sample ID			**QCS1**	**QCS4**	**TRIP2**	**TRIP4**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M26-Fe0066992**	**M26-Fe0066993**	**M26-Fe0066994**	**M26-Fe0066995**
Date Sampled			**Feb 18, 2026**	**Feb 18, 2026**	**Feb 18, 2026**	**Feb 18, 2026**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)*[N01]	50	mg/kg	< 50	< 50	< 50	< 50
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	139	83	135	124
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			QCS1	QCS4	TRIP2	TRIP4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M26-Fe0066992	M26-Fe0066993	M26-Fe0066994	M26-Fe0066995
Date Sampled			Feb 18, 2026	Feb 18, 2026	Feb 18, 2026	Feb 18, 2026
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	63	51	51	71
p-Terphenyl-d14 (surr.)	1	%	97	99	67	106
Heavy Metals						
Arsenic	2	mg/kg	3.7	3.4	< 2	< 2
Cadmium	0.4	mg/kg	1.7	3.3	< 0.4	< 0.4
Chromium	5	mg/kg	13	22	9.2	12
Copper	5	mg/kg	28	65	35	8.3
Lead	5	mg/kg	120	56	< 5	< 5
Mercury	0.1	mg/kg	2.3	16	< 0.1	< 0.1
Nickel	5	mg/kg	14	25	19	7.1
Zinc	5	mg/kg	240	330	33	8.0
Sample Properties						
% Moisture	1	%	15	16	7.6	15

Sample History

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

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Eurofins Suite B4			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Melbourne	Feb 24, 2026	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Feb 24, 2026	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Feb 24, 2026	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Melbourne	Feb 24, 2026	14 Days
- Method: LTM-ORG-2010 BTEX and Volatile TRH			
Polycyclic Aromatic Hydrocarbons	Melbourne	Feb 24, 2026	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Metals M8	Melbourne	Feb 24, 2026	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
% Moisture	Melbourne	Feb 23, 2026	14 Days
- Method: LTM-GEN-7080 Moisture			

Company Name: Pitt & Sherry (Operations) Pty Ltd
Address: 4th Floor, 113 Cimitiere Street
Launceston
Tasmania 7250

Project Name: INCAT ESA
Project ID: P.26.0075

Order No.: P.26.0075
Report #: 1326906
Phone: 03 6323 1900
Fax: 03 6334 4651

Received: Feb 23, 2026 4:40 PM
Due: Mar 2, 2026
Priority: 5 Day
Contact Name: Fiona

Eurofins Analytical Services Manager : Savini Suduweli

Sample Detail						Metals M8	Moisture Set	Eurofins Suite B4
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X
External Laboratory								
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**			
1	QCS1	Feb 18, 2026		Soil	M26-Fe0066992	X	X	X
2	QCS4	Feb 18, 2026		Soil	M26-Fe0066993	X	X	X
3	TRIP2	Feb 18, 2026		Soil	M26-Fe0066994	X	X	X
4	TRIP4	Feb 18, 2026		Soil	M26-Fe0066995	X	X	X
Test Counts						4	4	4

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follow guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013. They are included in this QC report where applicable. Additional QC data may be available on request.
2. Unless otherwise stated, all soil/sediment/solid results are reported on a dry weight basis.
3. Unless otherwise stated, all biota/food results are reported on a wet weight basis on the edible portion.
4. For CEC results where the sample's origin is unknown or environmentally contaminated, the results should be used advisedly.
5. Actual LORs are matrix dependent. Quoted LORs may be raised where sample extracts are diluted due to interferences.
6. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds where annotated.
7. SVOC analysis on waters is performed on homogenised, unfiltered samples unless noted otherwise.
8. Samples were analysed on an 'as received' basis.
9. Information identified in this report with **blue** colour indicates data provided by customers that may have an impact on the results.
10. This report replaces any interim results previously issued.

Holding Times

Please refer to the 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours before sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and despite any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the sampling date; therefore, compliance with these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether, the holding time is seven days; however, for all other VOCs, such as BTEX or C6-10 TRH, the holding time is 14 days.

Units

mg/kg: milligrams per kilogram	**mg/L:** milligrams per litre	**ppm:** parts per million
µg/L: micrograms per litre	**ppb:** parts per billion	**%:** Percentage
org/100 mL: Organisms per 100 millilitres	**NTU:** Nephelometric Turbidity Units	**MPN/100 mL:** Most Probable Number of organisms per 100 millilitres
CFU: Colony Forming Unit	**Colour:** Pt-Co Units (CU)	

Terms

APHA	American Public Health Association
CEC	Cation Exchange Capacity
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where moisture has been determined on a solid sample, the result is expressed on a dry weight basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples, these are performed on laboratory-certified clean sands and in the case of water samples, these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC represents the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a similar compound to the analyte target is reported as percentage recovery. See below for acceptance criteria.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment; however, free tributyltin was measured, and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 6.0
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

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

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is ≤30%; however, the following acceptance guidelines are equally applicable:

Results <10 times the LOR:	No Limit
Results between 10-20 times the LOR:	RPD must lie between 0-50%
Results >20 times the LOR:	RPD must lie between 0-30%

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

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 – 150%, VOC recoveries 50 – 150%

PFAS field samples containing surrogate recoveries above the QC limit designated in QSM 6.0, where no positive PFAS results have been reported or reviewed, and no data was affected.

QC Data General Comments

1. Where a result is reported as less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown are not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery, the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results, a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data; thus, it is possible to have two sets of data.

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Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	117			70-130	Pass	
TRH C10-C14	%	70			70-130	Pass	
TRH C6-C10	%	114			70-130	Pass	

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Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
TRH >C10-C16			%	76			70-130	Pass	
Naphthalene			%	128			70-130	Pass	
LCS - % Recovery									
BTEX									
Benzene			%	103			70-130	Pass	
Toluene			%	125			70-130	Pass	
Ethylbenzene			%	122			70-130	Pass	
m&p-Xylenes			%	125			70-130	Pass	
Xylenes - Total*			%	124			70-130	Pass	
LCS - % Recovery									
Polycyclic Aromatic Hydrocarbons									
Acenaphthene			%	83			70-130	Pass	
Acenaphthylene			%	82			70-130	Pass	
Anthracene			%	107			70-130	Pass	
Benz(a)anthracene			%	81			70-130	Pass	
Benzo(a)pyrene			%	72			70-130	Pass	
Benzo(b&j)fluoranthene			%	70			70-130	Pass	
Benzo(g.h.i)perylene			%	93			70-130	Pass	
Benzo(k)fluoranthene			%	86			70-130	Pass	
Chrysene			%	84			70-130	Pass	
Dibenz(a.h)anthracene			%	82			70-130	Pass	
Fluoranthene			%	89			70-130	Pass	
Fluorene			%	98			70-130	Pass	
Indeno(1.2.3-cd)pyrene			%	80			70-130	Pass	
Naphthalene			%	81			70-130	Pass	
Phenanthrene			%	82			70-130	Pass	
Pyrene			%	98			70-130	Pass	
LCS - % Recovery									
Heavy Metals									
Arsenic			%	102			80-120	Pass	
Cadmium			%	104			80-120	Pass	
Chromium			%	107			80-120	Pass	
Copper			%	110			80-120	Pass	
Lead			%	113			80-120	Pass	
Mercury			%	99			80-120	Pass	
Nickel			%	111			80-120	Pass	
Zinc			%	107			80-120	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C9	M26-Fe0075774	NCP	%	105			70-130	Pass	
TRH C6-C10	M26-Fe0075774	NCP	%	109			70-130	Pass	
Naphthalene	M26-Fe0075774	NCP	%	128			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	M26-Fe0075774	NCP	%	74			70-130	Pass	
Toluene	M26-Fe0075774	NCP	%	101			70-130	Pass	
Ethylbenzene	M26-Fe0075774	NCP	%	120			70-130	Pass	
m&p-Xylenes	M26-Fe0075774	NCP	%	106			70-130	Pass	
o-Xylene	M26-Fe0075774	NCP	%	115			70-130	Pass	
Xylenes - Total*	M26-Fe0075774	NCP	%	109			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M26-Fe0066699	NCP	%	97			75-125	Pass	

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Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Cadmium	M26-Fe0066699	NCP	%	107			75-125	Pass	
Chromium	M26-Fe0066699	NCP	%	107			75-125	Pass	
Copper	M26-Fe0066699	NCP	%	100			75-125	Pass	
Lead	M26-Fe0066699	NCP	%	103			75-125	Pass	
Mercury	M26-Fe0066699	NCP	%	94			75-125	Pass	
Nickel	M26-Fe0066699	NCP	%	110			75-125	Pass	
Zinc	M26-Fe0066699	NCP	%	109			75-125	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C10-C14	M26-Fe0066994	CP	%	87			70-130	Pass	
TRH >C10-C16	M26-Fe0066994	CP	%	87			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	M26-Fe0066994	CP	%	83			70-130	Pass	
Acenaphthylene	M26-Fe0066994	CP	%	87			70-130	Pass	
Anthracene	M26-Fe0066994	CP	%	76			70-130	Pass	
Benz(a)anthracene	M26-Fe0066994	CP	%	97			70-130	Pass	
Benzo(a)pyrene	M26-Fe0066994	CP	%	90			70-130	Pass	
Benzo(b&j)fluoranthene	M26-Fe0066994	CP	%	87			70-130	Pass	
Benzo(g.h.i)perylene	M26-Fe0066994	CP	%	85			70-130	Pass	
Benzo(k)fluoranthene	M26-Fe0066994	CP	%	81			70-130	Pass	
Chrysene	M26-Fe0066994	CP	%	71			70-130	Pass	
Dibenz(a.h)anthracene	M26-Fe0066994	CP	%	79			70-130	Pass	
Fluoranthene	M26-Fe0066994	CP	%	84			70-130	Pass	
Fluorene	M26-Fe0066994	CP	%	78			70-130	Pass	
Indeno(1.2.3-cd)pyrene	M26-Fe0066994	CP	%	76			70-130	Pass	
Naphthalene	M26-Fe0066994	CP	%	85			70-130	Pass	
Phenanthrene	M26-Fe0066994	CP	%	87			70-130	Pass	
Pyrene	M26-Fe0066994	CP	%	74			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	M26-Fe0075778	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	R26-Fe0064062	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	R26-Fe0064062	NCP	mg/kg	200	210	7.0	30%	Pass	
TRH C29-C36	R26-Fe0064062	NCP	mg/kg	240	260	7.0	30%	Pass	
TRH C6-C10	M26-Fe0075778	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	R26-Fe0064062	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
Naphthalene	M26-Fe0075778	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH >C16-C34	R26-Fe0064062	NCP	mg/kg	320	340	6.0	30%	Pass	
TRH >C34-C40	R26-Fe0064062	NCP	mg/kg	< 100	100	14	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	M26-Fe0075778	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	M26-Fe0075778	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	M26-Fe0075778	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	M26-Fe0075778	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	M26-Fe0075778	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	M26-Fe0075778	NCP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	

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Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	M26-Fe0068807	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	M26-Fe0068807	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	M26-Fe0068807	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	M26-Fe0068807	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	M26-Fe0068807	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	M26-Fe0068807	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	M26-Fe0068807	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	M26-Fe0068807	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	M26-Fe0068807	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	M26-Fe0068807	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	M26-Fe0068807	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	M26-Fe0068807	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	M26-Fe0068807	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	M26-Fe0068807	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	M26-Fe0068807	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	M26-Fe0068807	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M26-Fe0066698	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Cadmium	M26-Fe0066698	NCP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M26-Fe0066698	NCP	mg/kg	35	26	28	30%	Pass	
Copper	M26-Fe0066698	NCP	mg/kg	7.7	< 5	46	30%	Fail	Q15
Lead	M26-Fe0066698	NCP	mg/kg	11	6.6	50	30%	Fail	Q15
Mercury	M26-Fe0066698	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	M26-Fe0066698	NCP	mg/kg	22	15	34	30%	Fail	Q15
Zinc	M26-Fe0066698	NCP	mg/kg	14	8.0	53	30%	Fail	Q15
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	M26-Fe0066732	NCP	%	4.0	4.0	<1	30%	Pass	

Environment Testing

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	N/A
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
Q15	The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.

Authorised by:

Catherine Wilson	Analytical Services Manager
Matt Davies	Senior Analyst-Sample Properties
Sheha Prakash	Senior Analyst-Organic
Joseph Edouard	Senior Analyst-Volatile
Mary Makarios	Senior Analyst-Metal
Edward Lee	Senior Analyst-Organic

Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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Summary Results

Appendix H

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SUMMARY RESULTS - SOIL / FILL MATERIAL

Project No: P.26.0075
Project Name: Incat ESA

Analyte Grouping					Total Heavy Metals								Total Petroleum Hydrocarbons (TPH)					Total Recoverable Hydrocarbons (TRH)				
				Analyte	Arsenic	Cadmium	Chromium (total)	Copper	Lead	Nickel	Zinc	Mercury (total)	C6-C9	C10-C14	C15-C28	C29-C36	Sum (C10-C36)	C6-C10 minus BTEX (F1)	>C10-C16 minus Naphthalene (F2)	>C16-C34 (F3)	>C34-C40 (F4)	Sum (>C10-C40)
				ASC NEPM - HIL/HSL D (vapour intrusion)	3,000	900	3,600 Cr(VI)	240,000	1,500	6,000	400,000	730 (inorganic)						260-NL (sand) 250-NL (silt) 310-NL (clay) (C6-C10)	NL (all soil types) (>C10-C16)			
				CRC CARE - HSL D (vapour intrusion)														260-NL (sand) 250-590 (silt) 310-NL (clay)	NL (all soil types and depths)			
				CRC CARE - HSL D (direct contact)														26000 (C6-C10)	20000 (>C10-C16)	27,000	38,000	
				CRC CARE - HSL (direct contact, intrusive maintenance worker - shallow trench)														82,000 (C6-C10)	62,000 (>C10-C16)	85,000	120,000	
				PFAS NEMP HIL D (direct contact)																		
				ASC NEPM - EIL/ESL (areas of ecological significance)	40		150 / 130[B] Cr(III)	80/75[B]	470[C]	60/50[B]	220/180[B]							125 (coarse / fine)	25 (coarse / fine)			
				ASC NEPM - EIL/ESL (commercial / industrial)	160[A]		710/630[B] Cr(III)	320/330[B]	1,800[C]	510/390[B]	1300/940[B]							215 (coarse / fine)	170 (coarse / fine)	1,700 (coarse) 2,500 (fine)	3,300 (coarse) 6,600 (fine)	
				PFAS NEMP - ecological direct exposure (all land uses)																		
				PFAS NEMP - ecological indirect exposure (all land uses)																		
				ASC NEPM - ML (commercial / industrial)														700 (coarse) 800 (fine)	1,000 (coarse / fine)	3,500 (coarse) 5,000 (fine)	10,000 (coarse / fine)	
				IB105 - Level 1 (fill material)	20	3	50	100	300	60	200	1	65				1,000	65 (C6-C9)				1,000 (C10-C36)
				IB105 - Level 2 (low level contaminated soil)	200	40	500	2,000	1,200	600	14,000	30	650				5,000	650 (C6-C9)				5,000 (C10-C36)
				IB105 - Level 3 (contaminated soil)	750	400	5,000	7,500	3,000	3,000	50,000	110	1,000				10,000	1,000 (C6-C9)				10,000 (C10-C36)
				PFAS NEMP - unlined landfill																		
				PFAS NEMP - clay / single composite lined landfill																		
				PFAS NEMP - double composite lined landfill																		
Sample ID_depth (m bgl)	**Location**	**Date Sampled**	**Lab**	**Soil Type / Units**	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TP01_0.9	TP_01	18-Feb-26	ALS		<5	**3**	**24**	**62**	**63**	**22**	**367**	**14.6**	<10	<50	<100	<100	<50	<10	<50	<100	<100	<50
TP01_1.2	TP_01	18-Feb-26	ALS		<5	**1**	**15**	**39**	**29**	**25**	**192**	**6.9**	<10	<50	<100	**340**	**340**	<10	<50	**280**	**440**	<50
TP02_0.1	TP_02	19-Feb-26	ALS		<5	**1**	**32**	**46**	**35**	**24**	**244**	**0.3**	<10	<50	<100	<100	<50	<10	<50	<100	<100	**720**
TP02_0.9	TP_02	19-Feb-26	ALS		<5	**1**	**18**	**55**	**33**	**20**	**227**	**0.2**	<10	<50	<100	<100	<50	<10	<50	<100	<100	<50
TP02_1.9	TP_02	19-Feb-26	ALS		<5	<1	**25**	**51**	**20**	**23**	**145**	**0.1**	<10	<50	<100	<100	<50	<10	<50	<100	<100	<50
TP03 0.5	TP_03	19-Feb-26	ALS		<5	<1	**21**	**27**	**8**	**20**	**41**	**0.4**	<10	<50	<100	<100	<50	<10	<50	<100	<100	<50
TP03_1.4	TP_03	19-Feb-26	ALS		<5	**2**	**30**	**47**	**22**	**29**	**150**	**2.3**	<10	<50	<100	<100	<50	<10	<50	<100	<100	<50
TP04_0.2	TP_04	18-Feb-26	ALS		<5	<1	**4**	**71**	**14**	**11**	**162**	**0.1**	<10	<50	<100	<100	<50	<10	<50	<100	<100	<50
TP04_1.0	TP_04	18-Feb-26	ALS		<5	<1	**5**	**70**	**11**	**13**	**131**	**0.1**	<10	<50	<100	<100	<50	<10	<50	<100	<100	<50
TP04_2.0	TP_04	18-Feb-26	ALS		<5	**9**	**22**	**99**	**97**	**25**	**449**	**12.7**	<10	<50	<100	<100	<50	<10	<50	<100	<100	<50
TP05_0.2	TP_05	18-Feb-26	ALS		<5	**2**	**17**	**53**	**34**	**20**	**285**	**1.8**	<10	<50	<100	<100	<50	<10	<50	<100	<100	<50
TP05_0.6	TP_05	18-Feb-26	ALS		<5	**30**	**22**	**62**	**102**	**23**	**363**	**16.4**	<10	<50	<100	<100	<50	<10	<50	<100	<100	<50
TP05_1.0	TP_05	18-Feb-26	ALS		<5	**14**	**12**	**68**	**184**	**14**	**586**	**13.7**	<10	<50	<100	<100	<50	<10	<50	<100	<100	<50
TP06_0.2	TP_06	18-Feb-26	ALS		<5	<1	**13**	**40**	**7**	**23**	**26**	<0.1	<10	<50	<100	<100	<50	<10	<50	<100	<100	<50
TP06_0.4	TP_06	18-Feb-26	ALS		<5	<1	**14**	**52**	**40**	**20**	**161**	**0.1**	<10	<50	<100	<100	<50	<10	<50	<100	<100	<50
TP06_0.7	TP_06	18-Feb-26	ALS		<5	<1	**10**	**42**	**32**	**15**	**146**	**0.3**	<10	<50	<100	<100	<50	<10	<50	<100	<100	<50
TP07_0.1	TP_07	18-Feb-26	ALS		<5	**2**	**11**	**65**	**44**	**23**	**438**	**0.3**	<10	<50	**170**	**540**	**710**	<10	<50	**500**	**640**	**1140**
TP07_0.5	TP_07	18-Feb-26	ALS		<5	**4**	**17**	**78**	**48**	**19**	**498**	**1.5**	<10	<50	**130**	**310**	**440**	<10	<50	**310**	**350**	**660**
TP07_1.3	TP_07	18-Feb-26	ALS		**9**	**3**	**12**	**53**	**75**	**14**	**408**	**3.4**	<10	<50	<100	**110**	**110**	<10	<50	**120**	**120**	**240**
TP08_0.1	TP_08	18-Feb-26	ALS		<5	**2**	**20**	**69**	**32**	**22**	**318**	**0.2**	<10	<50	**120**	**200**	**320**	<10	<50	**270**	**120**	**390**
TP08_0.4	TP_08	18-Feb-26	ALS		<5	**7**	**8**	**101**	**59**	**17**	**480**	**15.1**	<10	<50	<100	<100	<50	<10	<50	<100	<100	<50
TP08_1.2	TP_08	18-Feb-26	ALS		<5	<1	**42**	**58**	**24**	**77**	**171**	**0.4**	<10	<50	<100	<100	<50	<10	<50	**120**	<100	**120**
TP09_0.1	TP_09	18-Feb-26	ALS		<5	**3**	**24**	**74**	**34**	**22**	**288**	**6.7**	<10	<50	<100	<100	<50	<10	<50	<100	<100	<50
TP09_0.7	TP_09	18-Feb-26	ALS		<5	<1	**9**	**20**	**46**	**9**	**339**	**0.1**	<10	<50	<100	<100	<50	<10	<50	<100	<100	<50
TP09_1.0	TP_09	18-Feb-26	ALS		<5	<1	**20**	**79**	**28**	**26**	**122**	**0.1**	<10	<50	<100	<100	<50	<10	<50	<100	<100	<50
TP09_1.4	TP_09	18-Feb-26	ALS		**12**	**7**	**17**	**172**	**95**	**23**	**585**	**0.7**	<10	<50	<100	<100	<50	<10	<50	<100	<100	<50
TP10_0.2	TP_10	18-Feb-26	ALS		<5	**2**	**18**	**81**	**2040**	**19**	**435**	**0.2**	<10	<50	<100	**230**	**230**	<10	<50	**230**	**300**	**530**
TP10_0.5	TP_10	18-Feb-26	ALS		<5	**3**	**20**	**90**	**2220**	**15**	**423**	**0.2**	<10	<50	**110**	**170**	**280**	<10	<50	**200**	**240**	**440**
TP10_1.1	TP_10	18-Feb-26	ALS		<5	**1**	**19**	**65**	**655**	**18**	**221**	**0.2**	<10	<50	<100	<100	<50	<10	<50	<100	<100	<50
TP11_0.1	TP_11	18-Feb-26	ALS		**5**	**7**	**13**	**84**	**40**	**18**	**375**	**6.1**	<10	<50	<100	**100**	**100**	<10	<50	**130**	**110**	**240**
TP11_0.4	TP_11	18-Feb-26	ALS		<5	**4**	**14**	**64**	**132**	**22**	**576**	**3.7**	<10	<50	**130**	**260**	**390**	<10	<50	**290**	**290**	**580**
TP11_1.0	TP_11	18-Feb-26	ALS		<5	**2**	**15**	**28**	**93**	**14**	**256**	**2.9**	<10	<50	<100	<100	<50	<10	<50	**120**	<100	**120**
TP11_1.5	TP_11	18-Feb-26	ALS		<5	**2**	**15**	**42**	**97**	**16**	**299**	**4.2**	<10	<50	<100	<100	<50	<10	<50	<100	<100	<50
TP12_0.2	TP_12	19-Feb-26	ALS		<5	<1	**13**	**45**	**199**	**14**	**144**	**0.2**	<10	<50	<100	<100	<50	<10	<50	**110**	<100	**110**
TP12_1.0	TP_12	19-Feb-26	ALS		<5	<1	**11**	**49**	**150**	**14**	**127**	**0.4**	<10	<50	**150**	<100	**150**	<10	<50	**210**	<100	**210**
TP13_0.1	TP_13	18-Feb-26	ALS		<5	**2**	**17**	**37**	**39**	**28**	**311**	**4.2**	<10	<50	<100	<100	<50	<10	<50	<100	<100	<50
TP13_1.0	TP_13	18-Feb-26	ALS		**50**	**4**	**54**	**153**	**29**	**25**	**325**	**0.2**	<10	<50	<100	<100	<50	<10	<50	<100	<100	<50
TP13_1.4	TP_13	18-Feb-26	ALS		<5	**4**	**18**	**60**	**64**	**22**	**493**	**7.8**	<10	<50	<100	**210**	**210**	<10	<50	**210**	**250**	**460**
Summary Statistics: Testpits				**Number of Data Points**	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38
				Number of Detects	4	26	38	38	38	38	38	37	0	0	6	10	11	0	0	14	10	14
				Minimum	<5	<1	4	20	7	9	26	<0.1	<10	<50	<100	<100	<100	<10	<50	<100	<100	<50
				Maximum	50	30	54	172	2220	77	586	16.4	<10	<50	170	540	710	<10	<50	500	640	1140
				Median	10.5	3	17	58	42	20	288	0.4	<10	<50	130	220	280	<10	<50	210	270	415
				Arithmetic Mean	4.2	3.4	18.2	64.5	183.5	21.2	297.6	3.4	<10	<50	63.4	101.8	104.1	<10	<50	113.2	112.1	172.6
				Standard Deviation	7.9	5.3	9.4	30.1	477.6	10.5	152.6	4.9	-	-	32.4	108.4	155.4	-	-	105.0	132.9	260.5
				95th Percentile	9.5	9.7	33.5	108.8	862.7	28.2	577.4	14.7	-	-	133.0	314.5	397.5	-	-	293.0	363.5	669.0
				95% Confidence Interval	7.7	2.0	3.0	9.6	151.8	3.3	48.5	1.6	-	-	25.9	67.2	91.8	-	-	55.0	82.4	136.5
				95% UCL (Mean + 95% Confidence Interval)	11.9	5.4	21.2	74.1	335.4	24.5	346.1	5.0	-	-	89.4	169.0	195.9	-	-	168.2	194.5	309.1

Values <LOR are assigned 1/2 LOR for statistical calculations except where all values are <LOR

Legend:

	Human health criteria (National)
	Ecological criteria (National)
	Management limits (National)
	Disposal criteria (Tasmania)
Bold	Reported concentration exceeds at least one of the ecological criteria
Bold	Reported concentration exceeds at least one of the human health criteria plus at least one of the ecological criteria
	Reported concentration exceeds IB105 Level 1 - fill material and/or PFAS unlined landfill criterion
	Reported concentration exceeds IB105 - Level 2 - low-level contaminated soil and/or PFAS single lined landfill criterion
Bold	Reported concentration is greater than the LOR
Grey	Reported concentration is below the LOR
Red Text	Guideline criterion is less than the standard LOR
A	Generic EIL
B	Site-specific ACL for test pits / stockpiles, calculated from TP01_09, TP13_1, SP01 and SP10 ASC NEPM classification samples; guideline values are TP / SP order(refer to EIL calculations tab for details)
C	Generic ACL
D	Carcinogenic PAHs (as BaP TEQ at zero)
E	Total fluorotelomer (FTS) is the sum of 4:2FTS + 6:2FTS + 8:2FTS + 10:2FTS
F	Yes - asbestos detected by polarised light microscopy including dispersion staining
G	No - asbestos found at the reporting limit 0.1g/kg, by polarised light microscopy including dispersion staining
H	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
I	Interim ecological indirect exposure – all land uses (refer to Table 6 of PFAS NEMP 2025 for descriptors).
<	Less than value indicates result is less than the LOR
HIL / HSL	Health Investigation Level / Health Screening Level
EIL / ESL	Ecological Investigation Level / Ecological Screening Level
LOR	Limit of reporting
NL	Not limiting
ML	Management Limit
TEQ	Toxicity equivalent quotient
BaP	Benzo(a)pyrene
ACL	Added contaminant limit
PFOS	Perfluorooctane sulfonic acid
PFOA	Perfluorooctanoic acid
PFHxS	Perfluorohexane sulfonic acid
FTS	Fluorotelomer
Am	Amosite (brown asbestos)
Ch	Chrysotile (white asbestos)
Cr	Crocidolite (blue asbestos)
IB105	Does not apply to material classified as potential acid sulphate soil (PASS) or per - and poly – fluoroalkyl substances (PFAS)

References:

ASC NEPM	National Environment Protection (Assessment of Site Contamination) Measure 1999, amended 2013
CRC CARE	Technical Report No. 10 Health Screening Levels for Petroleum Hydrocarbons in Soil and Groundwater September 2011, including errata August 2012
IB105	Information Bulletin No. 105 - Classification and Management of Contaminated Soil for Disposal, Version 3, 2018, Environment Protection Authority Tasmania
PFAS NEMP	PFAS National Environmental Management Plan, Version 3, 2025

SUMMARY RESULTS - SOIL / FILL MATERIAL

Project No: P.26.0075
Project Name: Incat ESA

				Analyte Grouping	BTEXN					Polycyclic Aromatic Hydrocarbons (PAH)			Per- and Poly-fluroalkyl Substances (PFAS)				Asbestos solids		Asbestos and other Fibres				
				Analyte	Benzene	Toluene	Ethylbenzene	Total Xylenes	Naphthalene	Benzo[a]pyrene	Carcinogenic PAHs (as BaP TEQ)[D]	Total PAHs	PFOS	PFOA	PFHxS	PFOS+PFHxS	presence / absence	type	Presence / Absence	Type	Detectable Respirable Fibres	Synthetic Mineral Fibre	Organic Fibre
				ASC NEPM - HIL/HSL D (vapour intrusion)	3 (sand) 4-10 (silt) 4-20 (clay)	NL (all soil types)	NL (all soil types)	NL (all soil types)	NL (all soil types)		40	4,000											
				CRC CARE - HSL D (vapour intrusion)	3 (sand) 4-6 (silt) 4-9 (clay)	NL (all soil types)	NL (all soil types)	230-NL (sand) NL (silt) NL (clay)	NL (all soil types)														
				CRC CARE - HSL D (direct contact)	430	99,000	27,000	81,000	11,000														
				CRC CARE - HSL (direct contact, intrusive maintenance worker - shallow trench)	1,100	120,000	85,000	130,000	29,000														
				PFAS NEMP HIL D (direct contact)										50		20							
				ASC NEPM - EIL/ESL (areas of ecological significance)	8 (coarse) 10 (fine)	10 (coarse) 65 (fine)	1.5 (coarse) 40 (fine)	10 (coarse) 1.6 (fine)	10^{A}	0.7 (coarse/ fine)													
				ASC NEPM - EIL/ESL (commercial / industrial)	75 (coarse) 95 (fine)	135 (coarse / fine)	165 (coarse) 185 (fine)	180 (coarse) 95 (fine)	370^{A}	1.4 (coarse/ fine)													
				PFAS NEMP - ecological direct exposure (all land uses)									1	10									
				PFAS NEMP - ecological indirect exposure (all land uses)									0.003^{I}										
				ASC NEPM - ML (commercial / industrial)																			
				IB105 - Level 1 (fill material)	1	1	3	14		0.08		20											
				IB105 - Level 2 (low level contaminated soil)	5	100	100	180		2		40											
				IB105 - Level 3 (contaminated soil)	50	1,000	1,080	1,800		20		200											
				PFAS NEMP - unlined landfill										50		20							
				PFAS NEMP - clay / single composite lined landfill										50		50							
				PFAS NEMP - double composite lined landfill										50		50							
Sample ID_depth (m bgl)	**Location**	**Date Sampled**	**Lab**	**Soil Type / Units**	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg			g/kg	-	Fibres	g/kg	g/kg
TP01_0.9	TP_01	18-Feb-26	ALS		<0.2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	-	-	-	-	-	-	**No**	-	-	**No**	**Yes**
TP01_1.2	TP_01	18-Feb-26	ALS		<0.2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-
TP02_0.1	TP_02	19-Feb-26	ALS		<0.2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.0002	<0.0002	<0.0002	<0.0002	-	-	-	-	-	-	-
TP02_0.9	TP_02	19-Feb-26	ALS		<0.2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	-	-	-	-	-	-	**No**	-	-	**No**	**Yes**
TP02_1.9	TP_02	19-Feb-26	ALS		<0.2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-
TP03 0.5	TP_03	19-Feb-26	ALS		<0.2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-
TP03_1.4	TP_03	19-Feb-26	ALS		<0.2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-
TP04_0.2	TP_04	18-Feb-26	ALS		<0.2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**0.0003**	<0.0002	<0.0002	**0.0003**	-	-	-	-	-	-	-
TP04_1.0	TP_04	18-Feb-26	ALS		<0.2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-
TP04_2.0	TP_04	18-Feb-26	ALS		<0.2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-
TP05_0.2	TP_05	18-Feb-26	ALS		<0.2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**0.0101**	<0.0002	**0.0004**	**0.0105**	-	-	**No**	-	-	**No**	**Yes**
TP05_0.6	TP_05	18-Feb-26	ALS		<0.2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	**1.2**	-	-	-	-	-	-	-	-	-	-	-
TP05_1.0	TP_05	18-Feb-26	ALS		<0.2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	-	-	-	-	-	-	**No**	-	-	**No**	**Yes**
TP06_0.2	TP_06	18-Feb-26	ALS		<0.2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-
TP06_0.4	TP_06	18-Feb-26	ALS		<0.2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-
TP06_0.7	TP_06	18-Feb-26	ALS		<0.2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	-	-	-	-	-	-	**No**	-	-	**No**	**Yes**
TP07_0.1	TP_07	18-Feb-26	ALS		<0.2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-
TP07_0.5	TP_07	18-Feb-26	ALS		<0.2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-
TP07_1.3	TP_07	18-Feb-26	ALS		<0.2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-
TP08_0.1	TP_08	18-Feb-26	ALS		<0.2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**0.0049**	<0.0002	**0.0002**	**0.0051**	-	-	-	-	-	-	-
TP08_0.4	TP_08	18-Feb-26	ALS		<0.2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-
TP08_1.2	TP_08	18-Feb-26	ALS		<0.2	<0.5	<0.5	<0.5	<1	**0.5**	**0.6**	**3.8**	-	-	-	-	-	-	**No**	-	-	**No**	**Yes**
TP09_0.1	TP_09	18-Feb-26	ALS		<0.2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	**0.5**	<0.0002	<0.0002	<0.0002	<0.0002	-	-	-	-	-	-	-
TP09_0.7	TP_09	18-Feb-26	ALS		<0.2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**0.0037**	**0.0004**	**0.0005**	**0.0042**	-	-	**No**	-	-	**No**	**Yes**
TP09_1.0	TP_09	18-Feb-26	ALS		<0.2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-
TP09_1.4	TP_09	18-Feb-26	ALS		<0.2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-
TP10_0.2	TP_10	18-Feb-26	ALS		<0.2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-
TP10_0.5	TP_10	18-Feb-26	ALS		<0.2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-
TP10_1.1	TP_10	18-Feb-26	ALS		<0.2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	-	-	-	-	-	-	**No**	-	-	**No**	**Yes**
TP11_0.1	TP_11	18-Feb-26	ALS		<0.2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-
TP11_0.4	TP_11	18-Feb-26	ALS		<0.2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	**1.3**	-	-	-	-	-	-	-	-	-	-	-
TP11_1.0	TP_11	18-Feb-26	ALS		<0.2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	-	-	-	-	-	-	**No**	-	-	**Yes**	**Yes**
TP11_1.5	TP_11	18-Feb-26	ALS		<0.2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-
TP12_0.2	TP_12	19-Feb-26	ALS		<0.2	<0.5	<0.5	<0.5	<1	**0.8**	**1**	**7.7**	-	-	-	-	-	-	-	-	-	-	-
TP12_1.0	TP_12	19-Feb-26	ALS		<0.2	<0.5	<0.5	<0.5	<1	**3.2**	**4.2**	**36.6**	-	-	-	-	-	-	**No**	-	-	**No**	**Yes**
TP13_0.1	TP_13	18-Feb-26	ALS		<0.2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**0.0003**	<0.0002	**0.0003**	**0.0006**	-	-	**No**	-	-	**No**	**Yes**
TP13_1.0	TP_13	18-Feb-26	ALS		<0.2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-
TP13_1.4	TP_13	18-Feb-26	ALS		<0.2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-
Summary Statistics: Testpits				**Number of Data Points**	38	38	38	38	38	38	38	38	7	7	7	7	0	0	11	n/a	n/a	11	11
				Number of Detects	0	0	0	0	0	3	3	6	5	1	4	5	0	0	0			1	11
				Minimum	<0.2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.0002	<0.0002	<0.0002	<0.0002							
				Maximum	<0.2	<0.5	<0.5	<0.5	<1	3.2	4.2	36.6	0.0101	0.0004	0.0005	0.0105							
				Median	<0.2	<0.5	<0.5	<0.5	<1	0.8	1	2.55	0.0037	0.0004	0.0004	0.0042							
				Arithmetic Mean	<0.2	<0.5	<0.5	<0.5	<1	0.3	0.4	1.6	0.0039	0.0004	0.0004	0.0041							
				Standard Deviation	-	-	-	-	-	0.5	0.6	6.0	0.0040	-	0.0001	0.0041							
				95th Percentile	-	-	-	-	-	0.5	0.7	4.4	0.0091	0.0004	0.0005	0.0094							
				95% Confidence Interval	-	-	-	-	-	0.5	0.7	4.8	0.0035	0.0000	0.0001	0.0036							
				95% UCL (Mean + 95% Confidence Interval)	-	-	-	-	-	0.9	1.1	6.3	0.0074	0.0004	0.0005	0.0078							

Values <LOR are assigned 1/2 LOR for statistical calculations except where all values are <LOR

Legend:

	Human health criteria (National)
	Ecological criteria (National)
	Management limits (National)
	Disposal criteria (Tasmania)
Bold	Reported concentration exceeds at least one of the ecological criteria
Bold	Reported concentration exceeds at least one of the human health criteria plus at least one of the ecological criteria
	Reported concentration exceeds IB105 Level 1 - fill material and/or PFAS unlined landfill criterion
	Reported concentration exceeds IB105 - Level 2 - low-level contaminated soil and/or PFAS single lined landfill criterion
Bold	Reported concentration is greater than the LOR
Grey	Reported concentration is below the LOR
Red Text	Guideline criterion is less than the standard LOR
A	Generic EIL
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C	Generic ACL
D	Carcinogenic PAHs (as BaP TEQ at zero)
E	Total fluorotelomer (FTS) is the sum of 4:2FTS + 6:2FTS + 8:2FTS + 10:2FTS
F	Yes - asbestos detected by polarised light microscopy including dispersion staining
G	No - asbestos found at the reporting limit 0.1g/kg, by polarised light microscopy including dispersion staining
H	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
I	Interim ecological indirect exposure – all land uses (refer to Table 6 of PFAS NEMP 2025 for descriptors).
<	Less than value indicates result is less than the LOR
HIL / HSL	Health Investigation Level / Health Screening Level
EIL / ESL	Ecological Investigation Level / Ecological Screening Level
LOR	Limit of reporting
NL	Not limiting
ML	Management Limit
TEQ	Toxicity equivalent quotient
BaP	Benzo(a)pyrene
ACL	Added contaminant limit
PFOS	Perfluorooctane sulfonic acid
PFOA	Perfluorooctanoic acid
PFHxS	Perfluorohexane sulfonic acid
FTS	Fluorotelomer
Am	Amosite (brown asbestos)
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IB105	Does not apply to material classified as potential acid sulphate soil (PASS) or per - and poly – fluoroalkyl substances (PFAS)

References:

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IB105 — Information Bulletin No. 105 - Classification and Management of Contaminated Soil for Disposal, Version 3, 2018, Environment Protection Authority Tasmania
PFAS NEMP — PFAS National Environmental Management Plan, Version 3, 2025

SUMMARY RESULTS - SOIL / FILL MATERIAL

Project No: P.26.0075
Project Name: Incat ESA

Sample ID_depth (m bgl)	Location	Date Sampled	Lab	Analyte Grouping / Analyte / Soil Type / Units	Total Heavy Metals: Arsenic	Cadmium	Chromium (total)	Copper	Lead	Nickel	Zinc	Mercury (total)	Total Petroleum Hydrocarbons (TPH): C6-C9	C10-C14	C15-C28	C29-C36	Sum (C10-C36)
				ASC NEPM - HIL/HSL D (vapour intrusion)	3,000	900	3,600 Cr(VI)	240,000	1,500	6,000	400,000	730 (inorganic)					
				CRC CARE - HSL D (vapour intrusion)													
				CRC CARE - HSL D (direct contact)													
				CRC CARE - HSL (direct contact, intrusive maintenance worker - shallow trench)													
				PFAS NEMP HIL D (direct contact)													
				ASC NEPM - EIL/ESL (areas of ecological significance)	40		150 / 130[B] Cr(III)	80/75[B]	470[C]	60/50[B]	220/180[B]						
				ASC NEPM - EIL/ESL (commercial / industrial)	160[A]		710/630[B] Cr(III)	320/330[B]	1,800[C]	510/390[B]	1300/940[B]						
				PFAS NEMP - ecological direct exposure (all land uses)													
				PFAS NEMP - ecological indirect exposure (all land uses)													
				ASC NEPM - ML (commercial / industrial)													
				IB105 - Level 1 (fill material)	20	3	50	100	300	60	200	1	65				1,000
				IB105 - Level 2 (low level contaminated soil)	200	40	500	2,000	1,200	600	14,000	30	650				5,000
				IB105 - Level 3 (contaminated soil)	750	400	5,000	7,500	3,000	3,000	50,000	110	1,000				10,000
				PFAS NEMP - unlined landfill													
				PFAS NEMP - clay / single composite lined landfill													
				PFAS NEMP - double composite lined landfill													
Sample ID_depth (m bgl)	**Location**	**Date Sampled**	**Lab**	**Soil Type / Units**	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SP01	SP01	18-Feb-26	ALS	Sand with blue gravel	<5	<1	**12**	**56**	<5	**23**	**47**	<0.1	<10	<50	<100	<100	<50
SP02	SP02	18-Feb-26	ALS	Sand gravel	<5	<1	<2	**5**	**21**	**13**	**71**	<0.1	<10	<50	<100	<100	<50
SP03	SP03	18-Feb-26	ALS	Soil rock	<5	**2**	**16**	**40**	**57**	**15**	**380**	**0.2**	<10	<50	<100	<100	<50
SP04	SP04	18-Feb-26	ALS	Yellow sand gravel	<5	<1	**15**	**70**	**6**	**21**	**52**	<0.1	<10	<50	<100	<100	<50
SP05	SP05	18-Feb-26	ALS	Soil gravel boulders	**8**	**5**	**44**	**114**	**529**	**34**	**820**	**1.4**	<10	<50	**140**	**310**	**450**
SP06	SP06	18-Feb-26	ALS	Silt Gravel	<5	<1	**10**	**36**	**8**	**17**	**35**	<0.1	<10	<50	<100	<100	<50
SP07	SP07	18-Feb-26	ALS	Gravel silt	<5	<1	**19**	**57**	**22**	**69**	**79**	<0.1	<10	<50	<100	<100	<50
SP08	SP08	18-Feb-26	ALS	Clay silt	<5	<1	**43**	**74**	**11**	**32**	**30**	<0.1	<10	<50	<100	<100	<50
SP09	SP09	18-Feb-26	ALS	Dirt silt with gravel	<5	<1	**28**	**16**	**9**	**20**	**36**	<0.1	<10	<50	<100	<100	<50
SP10	SP10	18-Feb-26	ALS	Silt gravel Fill	<5	<1	**26**	**42**	**35**	**43**	**114**	<0.1	<10	<50	<100	<100	<50
SP11	SP11	18-Feb-26	ALS	Sand silt	<5	<1	**12**	**6**	<5	**5**	**6**	<0.1	<10	<50	<100	<100	<50
SP12	SP12	18-Feb-26	ALS	Gravel silt	<5	<1	**22**	**14**	<1	**10**	**19**	<0.1	<10	<50	<100	<100	<50
SP13	SP13	18-Feb-26	ALS	Sandy gravel	<5	<1	**10**	**8**	<5	**5**	**7**	<0.1	<10	<50	<100	<100	<50
SP14	SP14	18-Feb-26	ALS	Blue gravel sandy	<5	<1	**11**	**11**	<5	**5**	**7**	<0.1	<10	<50	<100	<100	<50
SP15	SP15	18-Feb-26	ALS	Sandy gravel	<5	<1	**11**	<5	<5	<2	<5	<0.1	<10	<50	<100	<100	<50
SP16	SP16	18-Feb-26	ALS	Gravelly silts	<5	<1	**22**	**19**	**8**	**14**	**17**	<0.1	<10	<50	<100	<100	<50
SP17	SP17	18-Feb-26	ALS	Sandy Gravel	<5	<1	**14**	<5	<5	<2	<5	<0.1	<10	<50	<100	<100	<50
SP18	SP18	18-Feb-26	ALS	Sandy clay	<5	<1	**15**	<5	<5	**4**	**11**	<0.1	<10	<50	<100	<100	<50
SP19	SP19	18-Feb-26	ALS	Sandy gravel	<5	<1	**14**	<5	<5	<2	<5	<0.1	<10	<50	<100	<100	<50
SP20	SP20	18-Feb-26	ALS	Sandy gravel	<5	<1	**15**	<5	<5	<2	**7**	<0.1	<10	<50	<100	<100	<50
SP21	SP21	18-Feb-26	ALS	Gravel silt	<5	<1	**28**	<5	<5	<2	<5	<0.1	<10	<50	<100	<100	<50
SP22	SP22	18-Feb-26	ALS	Gravel silt	<5	<1	**11**	<5	<5	**2**	<5	<0.1	<10	<50	<100	<100	<50
SP23	SP23	18-Feb-26	ALS	Gravel silt	<5	<1	**12**	<5	<5	**5**	**19**	<0.1	<10	<50	<100	<100	<50
SP24	SP24	18-Feb-26	ALS	Gravel sand	<5	<1	**7**	**8**	<5	**7**	**9**	<0.1	<10	<50	<100	<100	<50
SP25	SP25	18-Feb-26	ALS	Clay sand	<5	<1	**17**	**10**	**6**	**10**	**8**	<0.1	<10	<50	<100	<100	<50
SP26	SP26	18-Feb-26	ALS	Gravel sand	<5	<1	**21**	**14**	**9**	**13**	**13**	<0.1	<10	<50	<100	<100	<50
SP27	SP27	18-Feb-26	ALS	Sand clay	<5	<1	**11**	<5	<5	**4**	<5	<0.1	<10	<50	<100	<100	<50
SP28	SP28	18-Feb-26	ALS	Gravel sand	<5	<1	**17**	**13**	**7**	**13**	**15**	<0.1	<10	<50	<100	<100	<50
SP29	SP29	19-Feb-26	ALS	Gravel sand	<5	<1	**21**	**9**	**5**	**5**	**10**	<0.1	<10	<50	<100	<100	<50
SP30	SP30	19-Feb-26	ALS	Sandy gravel	<5	<1	**11**	<5	<5	**3**	**6**	<0.1	<10	<50	<100	<100	<50
ACM1	n/a	18-Feb-26	ALS	sheeting fragment	-	-	-	-	-	-	-	-	-	-	-	-	-
ACM2	n/a	18-Feb-26	ALS	sheeting fragment	-	-	-	-	-	-	-	-	-	-	-	-	-
Summary Statistics: Stockpiles				**Number of Data Points**	30	30	30	30	30	30	30	30	30	30	30	30	30
				Number of Detects	1	2	29	20	14	25	24	2	0	0	1	1	1
				Minimum	<5	<1	<2	<5	<5	<2	<5	<0.1	<10	<50	<100	<100	<50
				Maximum	8	5	44	114	529	69	820	1.4	<10	<50	140	310	450
				Median	8	3.5	15	15	9	13	18	0.8	<10	<50	140	310	450
				Arithmetic Mean	2.7	0.7	17.2	21.6	25.7	13.2	61.1	0.1	<10	<50	53.0	58.7	39.2
				Standard Deviation	1.0	0.9	9.4	27.7	95.8	15.0	159.7	0.2	-	-	16.4	47.5	77.6
				95th Percentile	2.5	1.3	36.3	72.2	47.1	39.0	260.3	0.1	-	-	50.0	50.0	25.0
				95% Confidence Interval	2.0	1.2	3.4	12.1	50.2	5.9	63.9	0.3	-	-	32.2	93.0	152.1
				95% UCL (Mean + 95% Confidence Interval)	4.7	1.9	20.6	33.7	75.9	19.1	125.0	0.4	-	-	85.2	151.7	191.2

Sample ID_depth (m bgl)	Analyte Grouping / Analyte / Soil Type / Units	Total Recoverable Hydrocarbons (TRH): C6-C10 minus BTEX (F1)	>C10-C16 minus Naphthalene (F2)	>C16-C34 (F3)	>C34-C40 (F4)	Sum (>C10-C40)	BTEXN: Benzene	Toluene	Ethylbenzene	Total Xylenes
	ASC NEPM - HIL/HSL D (vapour intrusion)	260-NL (sand) 250-NL (silt) 310-NL (clay)	NL (all soil types)				3 (sand) 4-10 (silt) 4-20 (clay)	NL (all soil types)	NL (all soil types)	NL (all soil types)
	CRC CARE - HSL D (vapour intrusion)	(C6-C10) 260-NL (sand) 250-590 (silt) 310-NL (clay)	(>C10-C16) NL (all soil types and depths)				3 (sand) 4-6 (silt) 4-9 (clay)	NL (all soil types)	NL (all soil types)	230-NL (sand) NL (silt) NL (clay)
	CRC CARE - HSL D (direct contact)	26000 (C6-C10)	20000 (>C10-C16)	27,000	38,000		430	99,000	27,000	81,000
	CRC CARE - HSL (direct contact, intrusive maintenance worker - shallow trench)	82,000 (C6-C10)	62,000 (>C10-C16)	85,000	120,000		1,100	120,000	85,000	130,000
	PFAS NEMP HIL D (direct contact)									
	ASC NEPM - EIL/ESL (areas of ecological significance)	125 (coarse / fine)	25 (coarse / fine)				8 (coarse) 10 (fine)	10 (coarse) 65 (fine)	1.5 (coarse) 40 (fine)	10 (coarse) 1.6 (fine)
	ASC NEPM - EIL/ESL (commercial / industrial)	215 (coarse / fine)	170 (coarse / fine)	1,700 (coarse) 2,500 (fine)	3,300 (coarse) 6,600 (fine)		75 (coarse) 95 (fine)	135 (coarse / fine)	165 (coarse) 185 (fine)	180 (coarse) 95 (fine)
	PFAS NEMP - ecological direct exposure (all land uses)									
	PFAS NEMP - ecological indirect exposure (all land uses)									
	ASC NEPM - ML (commercial / industrial)	700 (coarse) 800 (fine)	1,000 (coarse / fine)	3,500 (coarse) 5,000 (fine)	10,000 (coarse / fine)					
	IB105 - Level 1 (fill material)	65 (C6-C9)				1,000 (C10-C36)	1	1	3	14
	IB105 - Level 2 (low level contaminated soil)	650 (C6-C9)				5,000 (C10-C36)	5	100	100	180
	IB105 - Level 3 (contaminated soil)	1,000 (C6-C9)				10,000 (C10-C36)	50	1,000	1,080	1,800
	PFAS NEMP - unlined landfill									
	PFAS NEMP - clay / single composite lined landfill									
	PFAS NEMP - double composite lined landfill									
Sample ID_depth (m bgl)	**Soil Type / Units**	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SP01	Sand with blue gravel	<10	<50	<100	<100	<50	<0.2	<0.5	<0.5	<0.5
SP02	Sand gravel	<10	<50	<100	<100	<50	<0.2	<0.5	<0.5	<0.5
SP03	Soil rock	<10	<50	<100	<100	<50	<0.2	<0.5	<0.5	<0.5
SP04	Yellow sand gravel	<10	<50	<100	<100	<50	<0.2	<0.5	<0.5	<0.5
SP05	Soil gravel boulders	<10	<50	**340**	**350**	**690**	<0.2	<0.5	<0.5	<0.5
SP06	Silt Gravel	<10	<50	<100	<100	<50	<0.2	<0.5	<0.5	<0.5
SP07	Gravel silt	<10	<50	<100	<100	<50	<0.2	<0.5	<0.5	<0.5
SP08	Clay silt	<10	<50	<100	<100	<50	<0.2	<0.5	<0.5	<0.5
SP09	Dirt silt with gravel	<10	<50	<100	<100	<50	<0.2	<0.5	<0.5	<0.5
SP10	Silt gravel Fill	<10	<50	**110**	<100	**110**	<0.2	<0.5	<0.5	<0.5
SP11	Sand silt	<10	<50	<100	<100	<50	<0.2	<0.5	<0.5	<0.5
SP12	Gravel silt	<10	<50	<100	<100	<50	<0.2	<0.5	<0.5	<0.5
SP13	Sandy gravel	<10	<50	<100	<100	<50	<0.2	<0.5	<0.5	<0.5
SP14	Blue gravel sandy	<10	<50	<100	<100	<50	<0.2	<0.5	<0.5	<0.5
SP15	Sandy gravel	<10	<50	<100	<100	<50	<0.2	<0.5	<0.5	<0.5
SP16	Gravelly silts	<10	<50	<100	<100	<50	<0.2	<0.5	<0.5	<0.5
SP17	Sandy Gravel	<10	<50	<100	<100	<50	<0.2	<0.5	<0.5	<0.5
SP18	Sandy clay	<10	<50	<100	<100	<50	<0.2	<0.5	<0.5	<0.5
SP19	Sandy gravel	<10	<50	<100	<100	<50	<0.2	<0.5	<0.5	<0.5
SP20	Sandy gravel	<10	<50	<100	<100	<50	<0.2	<0.5	<0.5	<0.5
SP21	Gravel silt	<10	<50	<100	<100	<50	<0.2	<0.5	<0.5	<0.5
SP22	Gravel silt	<10	<50	<100	<100	<50	<0.2	<0.5	<0.5	<0.5
SP23	Gravel silt	<10	<50	<100	<100	<50	<0.2	<0.5	<0.5	<0.5
SP24	Gravel sand	<10	<50	<100	<100	<50	<0.2	<0.5	<0.5	<0.5
SP25	Clay sand	<10	<50	<100	<100	<50	<0.2	<0.5	<0.5	<0.5
SP26	Gravel sand	<10	<50	<100	<100	<50	<0.2	<0.5	<0.5	<0.5
SP27	Sand clay	<10	<50	<100	<100	<50	<0.2	<0.5	<0.5	<0.5
SP28	Gravel sand	<10	<50	<100	<100	<50	<0.2	<0.5	<0.5	<0.5
SP29	Gravel sand	<10	<50	<100	<100	<50	<0.2	<0.5	<0.5	<0.5
SP30	Sandy gravel	<10	<50	<100	<100	<50	<0.2	<0.5	<0.5	<0.5
ACM1	sheeting fragment	-	-	-	-	-	-	-	-	-
ACM2	sheeting fragment	-	-	-	-	-	-	-	-	-
Summary Statistics: Stockpiles	**Number of Data Points**	30	30	30	30	30	30	30	30	30
	Number of Detects	0	0	2	1	2	0	0	0	0
	Minimum	<10	<50	<100	<100	110	<0.2	<0.5	<0.5	<0.5
	Maximum	<10	<50	340	350	690	<0.2	<0.5	<0.5	<0.5
	Median	<10	<50	225	350	400	<0.2	<0.5	<0.5	<0.5
	Arithmetic Mean	<10	<50	61.7	60.0	50.0	<0.2	<0.5	<0.5	<0.5
	Standard Deviation	-	-	53.7	54.8	121.9	-	-	-	-
	95th Percentile	-	-	83.0	50.0	71.7	-	-	-	-
	95% Confidence Interval	-	-	74.4	107.4	168.9	-	-	-	-
	95% UCL (Mean + 95% Confidence Interval)	-	-	136.1	167.4	218.9	-	-	-	-

Values <LOR are assigned 1/2 LOR for statistical calculations except where all values are <LOR

Legend:

(yellow)	Human health criteria (National)
(green)	Ecological criteria (National)
(pink)	Management limits (National)
(grey)	Disposal criteria (Tasmania)
Bold	Reported concentration exceeds at least one of the ecological criteria
Bold	Reported concentration exceeds at least one of the human health criteria plus at least one of the ecological criteria
(dotted box)	Reported concentration exceeds IB105 Level 1 - fill material and/or PFAS unlined landfill criterion
(solid box)	Reported concentration exceeds IB105 - Level 2 - low-level contaminated soil and/or PFAS single lined landfill criterion
Bold	Reported concentration is greater than the LOR
Grey	Reported concentration is below the LOR
Red Text	Guideline criterion is less than the standard LOR
A	Generic EIL
B	Site-specific ACL for test pits / stockpiles, calculated from TP01_09, TP13_1, SP01 and SP10 ASC NEPM classification samples; guideline values are TP / SP order(refer to EIL calculations tab for details)
C	Generic ACL
D	Carcinogenic PAHs (as BaP TEQ at zero)
E	Total fluorotelomer (FTS) is the sum of 4:2FTS + 6:2FTS + 8:2FTS + 10:2FTS
F	Yes - asbestos detected by polarised light microscopy including dispersion staining
G	No - asbestos found at the reporting limit 0.1g/kg, by polarised light microscopy including dispersion staining
H	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
I	Interim ecological indirect exposure – all land uses (refer to Table 6 of PFAS NEMP 2025 for descriptors).
<	Less than value indicates result is less than the LOR
HIL / HSL	Health Investigation Level / Health Screening Level
EIL / ESL	Ecological Investigation Level / Ecological Screening Level
LOR	Limit of reporting
NL	Not limiting
ML	Management Limit
TEQ	Toxicity equivalent quotient
BaP	Benzo(a)pyrene
ACL	Added contaminant limit
PFOS	Perfluorooctane sulfonic acid
PFOA	Perfluorooctanoic acid
PFHxS	Perfluorohexane sulfonic acid
FTS	Fluorotelomer
Am	Amosite (brown asbestos)
Ch	Chrysotile (white asbestos)
Cr	Crocidolite (blue asbestos)
IB105	Does not apply to material classified as potential acid sulphate soil (PASS) or per - and poly – fluoroalkyl substances (PFAS)

References:

ASC NEPM — National Environment Protection (Assessment of Site Contamination) Measure 1999, amended 2013
CRC CARE — Technical Report No. 10 Health Screening Levels for Petroleum Hydrocarbons in Soil and Groundwater September 2011, including errata August 2012
IB105 — Information Bulletin No. 105 - Classification and Management of Contaminated Soil for Disposal, Version 3, 2018, Environment Protection Authority Tasmania
PFAS NEMP — PFAS National Environmental Management Plan, Version 3, 2025

SUMMARY RESULTS - SOIL / FILL MATERIAL

Project No: P.26.0075
Project Name: Incat ESA

				Analyte Grouping		Polycyclic Aromatic Hydrocarbons (PAH)			Per- and Poly-fluroalkyl Substances (PFAS)				Asbestos solids		Asbestos and other Fibres				
				Analyte	Naphthalene	Benzo[a]pyrene	Carcinogenic PAHs (as BaP TEQ)[D]	Total PAHs	PFOS	PFOA	PFHxS	PFOS+PFHxS	presence / absence	type	Presence / Absence	Type	Detectable Respirable Fibres	Synthetic Mineral Fibre	Organic Fibre
				ASC NEPM - HIL/HSL D (vapour intrusion)	NL (all soil types)		40	4,000											
				CRC CARE - HSL D (vapour intrusion)	NL (all soil types)														
				CRC CARE - HSL D (direct contact)	11,000														
				CRC CARE - HSL (direct contact, intrusive maintenance worker - shallow trench)	29,000														
				PFAS NEMP HIL D (direct contact)						50		20							
				ASC NEPM - EIL/ESL (areas of ecological significance)	10[A]	0.7 (coarse/ fine)													
				ASC NEPM - EIL/ESL (commercial / industrial)	370[A]	1.4 (coarse/ fine)													
				PFAS NEMP - ecological direct exposure (all land uses)					1	10									
				PFAS NEMP - ecological indirect exposure (all land uses)					0.003[I]										
				ASC NEPM - ML (commercial / industrial)															
				IB105 - Level 1 (fill material)		0.08		20											
				IB105 - Level 2 (low level contaminated soil)		2		40											
				IB105 - Level 3 (contaminated soil)		20		200											
				PFAS NEMP - unlined landfill						50		20							
				PFAS NEMP - clay / single composite lined landfill						50		50							
				PFAS NEMP - double composite lined landfill						50		50							
Sample ID_depth (m bgl)	**Location**	**Date Sampled**	**Lab**	**Soil Type / Units**	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg			g/kg	-	Fibres	g/kg	g/kg
SP01	SP01	18-Feb-26	ALS	Sand with blue gravel	<1	<0.5	<0.5	<0.5	<0.0002	<0.0002	<0.0002	<0.0002	-	-	-	-	-	-	-
SP02	SP02	18-Feb-26	ALS	Sand gravel	<1	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-
SP03	SP03	18-Feb-26	ALS	Soil rock	<1	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-
SP04	SP04	18-Feb-26	ALS	Yellow sand gravel	<1	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-
SP05	SP05	18-Feb-26	ALS	Soil gravel boulders	<1	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-
SP06	SP06	18-Feb-26	ALS	Silt Gravel	<1	<0.5	<0.5	<0.5	<0.0002	<0.0002	<0.0002	<0.0002	No	n/a	-	-	-	-	-
SP07	SP07	18-Feb-26	ALS	Gravel silt	<1	<0.5	<0.5	**1.5**	-	-	-	-	-	-	-	-	-	-	-
SP08	SP08	18-Feb-26	ALS	Clay silt	<1	**2.1**	**2.7**	**17.3**	-	-	-	-	-	-	-	-	-	-	-
SP09	SP09	18-Feb-26	ALS	Dirt silt with gravel	<1	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-
SP10	SP10	18-Feb-26	ALS	Silt gravel Fill	<1	**0.7**	**0.8**	**4.7**	**0.0003**	<0.0002	<0.0002	**0.0003**	-	-	-	-	-	-	-
SP11	SP11	18-Feb-26	ALS	Sand silt	<1	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-
SP12	SP12	18-Feb-26	ALS	Gravel silt	<1	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-
SP13	SP13	18-Feb-26	ALS	Sandy gravel	<1	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-
SP14	SP14	18-Feb-26	ALS	Blue gravel sandy	<1	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-
SP15	SP15	18-Feb-26	ALS	Sandy gravel	<1	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-
SP16	SP16	18-Feb-26	ALS	Gravelly silts	<1	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-
SP17	SP17	18-Feb-26	ALS	Sandy Gravel	<1	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-
SP18	SP18	18-Feb-26	ALS	Sandy clay	<1	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-
SP19	SP19	18-Feb-26	ALS	Sandy gravel	<1	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-
SP20	SP20	18-Feb-26	ALS	Sandy gravel	<1	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-
SP21	SP21	18-Feb-26	ALS	Gravel silt	<1	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-
SP22	SP22	18-Feb-26	ALS	Gravel silt	<1	<0.5	<0.5	<0.5	-	-	-	-	-	-	**No**	-	-	**No**	**Yes**
SP23	SP23	18-Feb-26	ALS	Gravel silt	<1	<0.5	<0.5	<0.5	**0.122**	**0.0003**	**0.0042**	**0.126**	-	-	-	-	-	-	-
SP24	SP24	18-Feb-26	ALS	Gravel sand	<1	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-
SP25	SP25	18-Feb-26	ALS	Clay sand	<1	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-
SP26	SP26	18-Feb-26	ALS	Gravel sand	<1	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-
SP27	SP27	18-Feb-26	ALS	Sand clay	<1	<0.5	<0.5	<0.5	-	-	-	-	-	-	**No**	-	-	**No**	**Yes**
SP28	SP28	18-Feb-26	ALS	Gravel sand	<1	<0.5	<0.5	<0.5	<0.0002	<0.0002	<0.0002	<0.0002	-	-	-	-	-	-	-
SP29	SP29	19-Feb-26	ALS	Gravel sand	<1	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-
SP30	SP30	19-Feb-26	ALS	Sandy gravel	<1	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-
ACM1	n/a	18-Feb-26	ALS	sheeting fragment	-	-	-	-	-	-	-	-	No	n/a	-	-	-	-	-
ACM2	n/a	18-Feb-26	ALS	sheeting fragment	-	-	-	-	-	-	-	-	**Yes**	**Ch+Am+Cr**	-	-	-	-	-
Summary Statistics: Stockpiles				**Number of Data Points**	30	30	30	30	5	5	5	5	3	3	2	n/a	n/a	2	2
				Number of Detects	0	2	2	3	2	1	1	2	1	1	0			0	2
				Minimum	<1	<0.5	<0.5	<0.5	<0.0002	<0.0002	<0.0002	<0.0002							
				Maximum	<1	2.1	2.7	17.3	0.122	0.0003	0.0042	0.126							
				Median	<1	1.4	1.8	4.7	0.06	0.0003	0.0042	0.06315							
				Arithmetic Mean	<1	0.3	0.4	1.0	0.06	0.0003	0.0042	0.06315							
				Standard Deviation	-	0.3	0.5	3.2	0.09	-	-	0.09							
				95th Percentile	-	0.5	0.6	3.3	0.12	0.0003	0.0042	0.119715							
				95% Confidence Interval	-	0.5	0.6	3.6	0.12	0	0	0.1231837							
				95% UCL (Mean + 95% Confidence Interval)	-	**0.8**	1.0	4.6	0.18	0.0003	0.0042	0.1863337							

Values <LOR are assigned 1/2 LOR for statistical calculations except where all values are <LOR

Legend:

	Human health criteria (National)
	Ecological criteria (National)
	Management limits (National)
	Disposal criteria (Tasmania)
Bold	Reported concentration exceeds at least one of the ecological criteria
Bold	Reported concentration exceeds at least one of the human health criteria plus at least one
	Reported concentration exceeds IB105 Level 1 - fill material and/or PFAS unlined landfill cri
	Reported concentration exceeds IB105 - Level 2 - low-level contaminated soil and/or PFAS
Bold	Reported concentration is greater than the LOR
Grey	Reported concentration is below the LOR
Red Text	Guideline criterion is less than the standard LOR
A	Generic EIL
B	Site-specific ACL for test pits / stockpiles, calculated from TP01_09, TP13_1, SP01 and SP1(
C	Generic ACL
D	Carcinogenic PAHs (as BaP TEQ at zero)
E	Total fluorotelomer (FTS) is the sum of 4:2FTS + 6:2FTS + 8:2FTS + 10:2FTS
F	Yes - asbestos detected by polarised light microscopy including dispersion staining
G	No - asbestos found at the reporting limit 0.1g/kg, by polarised light microscopy including
H	No - asbestos found, at the reporting limit of 0.1g/kg, by polarised light microscopy includi
I	Interim ecological indirect exposure – all land uses (refer to Table 6 of PFAS NEMP 2025 fo
<	Less than value indicates result is less than the LOR
HIL / HSL	Health Investigation Level / Health Screening Level
EIL / ESL	Ecological Investigation Level / Ecological Screening Level
LOR	Limit of reporting
NL	Not limiting
ML	Management Limit
TEQ	Toxicity equivalent quotient
BaP	Benzo(a)pyrene
ACL	Added contaminant limit
PFOS	Perfluorooctane sulfonic acid
PFOA	Perfluorooctanoic acid
PFHxS	Perfluorohexane sulfonic acid
FTS	Fluorotelomer
Am	Amosite (brown asbestos)
Ch	Chrysotile (white asbestos)
Cr	Crocidolite (blue asbestos)
IB105	Does not apply to material classified as potential acid sulphate soil (PASS) or per - and poly

References:

ASC NEPM — National Environment Protection (Assessment of Site Contamination) Measure 1999, amer

CRC CARE — Technical Report No. 10 Health Screening Levels for Petroleum Hydrocarbons in Soil and Gr

IB105 — Information Bulletin No. 105 - Classification and Management of Contaminated Soil for Dis

PFAS NEMP — PFAS National Environmental Management Plan, Version 3, 2025

Project No: P.26.0075Project Name: Incat ESA

Site Specific EIL Calculations - using ASC NEPM EIL Calculation Spreadsheet

Sample ID	Units	TP01_09		TP13_1.0		SP01		SP10		Site-Specific EIL (TEST PITS) (most conservative aged value)	Site-Specific EIL (STOCKPILES) (most conservative aged value)
Inputs											
CEC	cmolc/kg	31.7		23.1		15.5		22.3			
pH ($CaCl_2$ method)	pH units	7.5		7.3		7.6		7.3			
Organic Carbon Content	%	0.8		0.6		<0.5		2.5			
Iron Content	%	3.64		3.31		2.5		3.02			
Clay Content	%	21		12		11		8			
State (or nearest State)	--	VIC		VIC		VIC		VIC			
Traffic Volume	--	high		high		high		high			
Outputs - Soil-Specific EILs		**Fresh**	**Aged**	**Fresh**	**Aged**	**Fresh**	**Aged**	**Fresh**	**Aged**		
Chromium III										**Cr(III) (ACL)**	**Cr(III) (ACL)**
National parks and areas of high conservation value	mg/kg	110	170	95	150	90	140	90	130	150	130
Urban residential and open public spaces	mg/kg	250	520	210	430	200	420	190	380	430	380
Commercial and industrial	mg/kg	390	860	320	710	310	690	290	630	710	630
Copper										**Cu (ACL)**	**Cu (ACL)**
National parks and areas of high conservation value	mg/kg	70	80	65	80	60	75	65	80	80	75
Urban residential and open public spaces	mg/kg	130	230	120	220	120	210	120	220	220	210
Commercial and industrial	mg/kg	180	330	180	320	170	310	180	320	320	310
Nickel										**Ni (ACL)**	**Ni (ACL)**
National parks and areas of high conservation value	mg/kg	30	70	30	60	20	50	25	60	60	50
Urban residential and open public spaces	mg/kg	130	370	110	300	85	230	100	300	300	230
Commercial and industrial	mg/kg	240	630	200	510	150	390	190	500	510	390
Zinc										**Zn (ACL)**	**Zn (ACL)**
National parks and areas of high conservation value	mg/kg	120	270	100	220	75	180	95	220	220	180
Urban residential and open public spaces	mg/kg	410	1100	320	830	240	620	310	810	830	620
Commercial and industrial	mg/kg	630	1600	500	1300	370	940	480	1200	1300	940

Notes:

Aged values apply to contamination present for at least two years

ACL - Added contaminant limit

CEC - Cation exchange capacity

EIL - Ecological Investigation Level

Most conservative ACL value used for each sample type

SUMMARY RESULTS - TRIPLICATES (SOIL)

Project No: P.26.0075
Project Name: Incat ESA

Sample ID	Date sampled	Laboratory	Analyte Group	Heavy Metals								TPH				
			Analyte	Arsenic	Cadmium	Chromium (total)	Copper	Lead	Nickel	Zinc	Mercury (total)	C6-C9	C10-C14	C15-C28	C29-C36	Sum (C10-C36)
			ALS LORs	5	1	2	5	5	2	5	0.1	10	50	100	100	50
			Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Tp11_1.0	18-Feb-26	ALS		<5	**2**	**15**	**28**	**93**	**14**	**256**	**2.9**	<10	<50	<100	<100	<50
QCP01	18-Feb-26	ALS		<5	**3**	**15**	**30**	**139**	**11**	**226**	**2.2**	<10	<50	<100	<100	<50
RPD				ND	**40**	**0**	**7**	**40**	**24**	**12**	**27**	ND	ND	ND	ND	ND
Tp11_1.0	18-Feb-26	ALS		<5	**2**	**15**	**28**	**93**	**14**	**256**	**2.9**	<10	<50	<100	<100	<50
QCS01	18-Feb-26	Eurofins		**4**	**2**	**13**	**28**	**120**	**14**	**240**	**2**	< 20	< 20	<50	<50	<50
RPD				ND	**16**	**14**	**0**	**25**	**0**	**6**	**23**	ND	ND	ND	ND	ND
Tp01_1.2	18-Feb-26	ALS		<5	**1**	**15**	**39**	**29**	**25**	**192**	**6.9**	<10	<50	<100	**340**	**340**
QCP04	18-Feb-26	ALS		<5	**4**	**25**	**58**	**52**	**24**	**332**	**20**	<10	<50	<100	<100	<50
RPD				ND	**120**	**50**	**39**	**57**	**4**	**53**	**99**	ND	ND	ND	ND	ND
Tp01_1.2	18-Feb-26	ALS		<5	**1**	**15**	**39**	**29**	**25**	**192**	**6.9**	<10	<50	<100	**340**	**340**
QCS04	18-Feb-26	Eurofins		**3.4**	**3.3**	**22**	**65**	**56**	**25**	**330**	**2.3**	< 20	< 20	<50	<50	<50
RPD				ND	**107**	**38**	**50**	**64**	0	**53**	**100**	ND	ND	ND	ND	ND
SP01	18-Feb-26	ALS		<5	<1	**12**	**56**	<5	**23**	**47**	<0.1	<10	<50	<100	<100	<50
TRIP1	18-Feb-26	ALS		<5	**1**	**8**	**19**	<5	**17**	**21**	<0.1	<10	<50	<100	<100	<50
RPD				ND	ND	**40**	**99**	ND	**30**	**76**	ND	ND	ND	ND	ND	ND
SP01	18-Feb-26	ALS		<5	<1	**12**	**56**	<5	**23**	**47**	<0.1	<10	<50	<100	<100	<50
TRIP 2	18-Feb-26	Eurofins		<2	<0.4	**9.2**	**35**	<5	**19**	**33**	<0.1	< 20	< 20	<50	<50	<50
RPD				ND	ND	**26**	**46**	ND	**19**	**35**	ND	ND	ND	ND	ND	ND
SP11	18-Feb-26	ALS		<5	<1	**12**	**6**	<5	**5**	**6**	<0.1	<10	<50	<100	<100	<50
Trip 3	18-Feb-26	ALS		<5	<1	**12**	**7**	<5	**6**	**6**	<0.1	<10	<50	<100	<100	<50
RPD				ND	ND	**0**	**15**	ND	**18**	**0**	ND	ND	ND	ND	ND	ND
SP11	18-Feb-26	ALS		<5	<1	**12**	**6**	<5	**5**	**6**	<0.1	<10	<50	<100	<100	<50
Trip 4	18-Feb-26	Eurofins		<2	**0**	**12**	**8**	<5	**7**	**8**	<0.1	< 20	< 20	<50	<50	<50
RPD				ND	ND	**0**	**32**	ND	**35**	**29**	ND	ND	ND	ND	ND	ND

Sample ID	TRH					BTEXN					PAH		
Analyte	C6-C10 minus BTEX (F1)	>C10-C16 minus Naphthalene (F2)	>C16-C34 (F3)	>C34-C40 (F4)	Sum (>C10-C40)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Naphthalene	Benzo[a]pyrene	Carcinogenic PAHs (as BaP TEQ)	Total PAHs
ALS LORs	10	50	100	100	50	0.2	0.5	0.5	0.5	1	0.5	0.5	0.5
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Tp11_1.0	<10	<50	**120**	<100	**120**	<0.2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5
QCP01	<10	<50	<100	<100	**120**	<0.2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5
RPD	ND	ND	ND	ND	0	ND	ND	ND	ND	ND	ND	ND	ND
Tp11_1.0	<10	<50	**120**	<100	**120**	<0.2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5
QCS01	<20	<50	<100	<100	<100	<0.1	<0.1	<0.1	<0.3	<0.5	<0.5	<0.5	<0.5
RPD	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tp01_1.2	<10	<50	**280**	**440**	<50	<0.2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5
QCP04	<10	<50	<100	<100	**120**	<0.2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5
RPD	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tp01_1.2	<10	<50	**280**	**440**	<50	<0.2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5
QCS04	<20	<50	<100	<100	<100	<0.1	<0.1	<0.1	<0.3	<0.5	<0.5	<0.5	<0.5
RPD	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SP01	<10	<50	<100	<100	<50	<0.2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5
TRIP1	<10	<50	<100	<100	120	<0.2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5
RPD	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SP01	<10	<50	<100	<100	<50	<0.2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5
TRIP 2	<20	<50	<100	<100	<100	<0.1	<0.1	<0.1	<0.3	<0.5	<0.5	<0.5	<0.5
RPD	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SP11	<10	<50	<100	<100	<50	<0.2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5
Trip 3	<10	<50	<100	<100	**120**	<0.2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5
RPD	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SP11	<10	<50	<100	<100	<50	<0.2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5
Trip 4	<20	<50	<100	<100	<100	<0.1	<0.1	<0.1	<0.3	<0.5	<0.5	<0.5	<0.5
RPD	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Legend:

(green)	Passed criteria
(blue)	Could not be determined (e.g. not tested for that analyte)
(orange)	Failed criteria
A	Total fluorotelomer (FTS) is the sum of 4:2FTS + 6:2FTS + 8:2FTS + 10:2FTS
B	Yes - asbestos detected by polarised light microscopy including dispersion staining
C	No - asbestos found at the reporting limit 0.1g/kg, by polarised light microscopy including dispersion staining
D	No - asbestos found, at the reporting limit of 0.1g/kg, by polarised light microscopy including dispersion staining; asbestos material was detected a
LOR	Limit of reporting
Bold	Value is greater than the LOR
Grey	Reported concentration is below the LOR
--	Not tested
RPD	Relative percentage difference
ND	Not determined as one value is less than LOR
NA	No RPD limit applies
PFOS	Perfluorooctane sulfonic acid
PFOA	Perfluorooctanoic acid
PFHxS	Perfluorohexane sulfonic acid

$$RPD = \frac{Result1 - Result2}{Mean\ Result} * 100$$

No RPD limit applies where values reported by laboratory are less than two times the LOR
Where values reported by laboratory are less than 20 times the LOR, then the calculated RPD should be less than 50%
Where values reported by laboratory are 20 to 100 times the LOR, then the calculated RPD should be less than 30%
Where values reported by laboratory are greater than 100 times the LOR, then the calculated RPD should be less than 15%

SUMMARY RESULTS - TRIP BLANKS (SOIL)

Project No: P.26.0075 Project Name: Incat ESA			Analyte Grouping	Total Petroleum Hydrocarbons (TPH)					Total Recoverable Hydrocarbons (TRH)					BTEXN				
			Analyte	C6-C9	C10-C14	C15-C28	C29-C36	Sum (C10-C36)	C6-C10 minus BTEX (F1)	>C10-C16 minus Naphthalene (F2)	>C16-C34 (F3)	>C34-C40 (F4)	Sum (>C10-C40)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Naphthalene
			ALS LORs	10	50	100	100	50	10	50	100	100	50	0.2	0.5	0.5	0.5	1
Sample ID	Date submitted	Laboratory	Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TRIPBLANK	19-Feb-26	ALS		<10	--	--	--	--	<10	--	--	--	--	<0.2	<0.5	<0.5	<0.5	<1
QA/QC Assessment				P	--	--	--	--	P	--	--	--	--	P	P	P	P	P

Legend:

P	Passed
D	Detected
--	Not tested
Bold	Reported concentration is greater than the laboratory LOR
Grey	Reported concentration is below the LOR
LOR	Limit of reporting

pitt&sherry

Environmental Site Assessment

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