From: [redacted]
To: Environment Protection; Contaminated Sites
Subject: FW: NoD 202037677 - Support for movement of soils to NSW - SUPPORTED
Date: Wednesday, 17 August 2022 4:37:03 PM
Attachments: image006.png
image007.png
image009.png
image011.png
image013.png
image015.jpg
SnowyMonaroLogo_clear_87475f20-44af-4059-b1e9-d983b1ff3e94.png

---

For info/file.
Cheers,
[redacted]

From: [redacted]
Sent: 13 August 2022 09:49
To: [redacted]
Subject: RE: NoD 202037677 - Support for movement of soils to NSW - SUPPORTED

Thank you for forwarding this approval to Council we have placed on to the property development approval file.
Regards
[redacted]

[redacted]
Coordinator Development
PO Box 714
COOMA NSW 2630
Direct [redacted]
Phone 1300 345 345
Fax (02) 6456 3337
snowymonaro.nsw.gov.au

From: [redacted]
Sent: Thursday, 11 August 2022 10:15 AM
To: [redacted]@mbsgroup.com.au

Cc: [redacted]@agonenviro.com.au>; Queanbeyan@epa.nsw.gov.au; Records Snowy Monaro Regional Council <council@snowymonaro.nsw.gov.au>; Environment Protection <Environment.Protection@act.gov.au>; Contaminated Sites <ContaminatedSites@act.gov.au>
Subject: FW: NoD 202037677 - Support for movement of soils to NSW - SUPPORTED

Dear [redacted],

In accordance with the conditions of development approval for Block 1 Section 80 Greenway (attached) the ACT Environment Protection Authority has no objection to the movement of up to 3,500 cubic metres of material, as assessed in the attached report (B1S80 Greenway_ENM Rev#01.pdf), to the site in NSW (as detailed in the attached Letter of acceptance) subject to:

- all approvals from the appropriate NSW regulatory authorities being sought and granted prior to the movement of the material.

This should not be taken as a warranty by the Environment Protection Authority or the Territory that the material subject to this email of support is free from contamination or anthropogenic inclusions or is fit for any particular purpose.

Regards

[redacted]
[redacted]
Environment Protection Authority (including Water Resources)
Clinical Waste Controller
Delegate for Lakes
Access Canberra|Chief Minister,Treasury and Economic Development Directorate |ACT Government
Phone: [redacted] |Mobile [redacted] |Email: [redacted]
480 Northbourne Avenue, Dickson | GPO Box 158 Canberra City ACT 2601 | www.act.gov.au/accessCBR

From: [redacted]@agonenviro.com.au>
Sent: Thursday, 11 August 2022 6:47 AM
To: Contaminated Sites <ContaminatedSites@act.gov.au>
Cc: [redacted] MBS Group [redacted]@mbsgroup.com.au>; [redacted] MBS Group [redacted]@mbsgroup.com.au>
Subject: RE: NoD 202037677 - Support for movement of soils to NSW

> **Caution:** This email originated from outside of the ACT Government. Do not click links or open attachments unless you recognise the sender and know the content is safe. Learn why this is important

Morning Contaminated Sites,

The site is Block 1 Section 80 Greenway. Further to this request, please see attached:

- Letter of acceptance.
- ENM classification report for up to 3,500m3 of material (stockpiled and in-situ).
- A copy of NoD 202037677.

Let me know if any further information is needed at this time.

Cheers,

[redacted]
Principal Environmental Consultant
ACT Manager

Agon Environmental
[redacted]@agonenviro.com.au

From: [redacted]@act.gov.au> **On Behalf Of** Contaminated Sites
Sent: Monday, 8 August 2022 11:07 AM
To: [redacted]@agonenviro.com.au>
Cc: [redacted] MBS Group [redacted]@mbsgroup.com.au>; [redacted] MBS Group [redacted]@mbsgroup.com.au>
Subject: RE: NoD 202037677 - Support for movement of soils to NSW

OFFICIAL

Hi [redacted]
Please provide details of the source site, the volume of material to be transported, a copy of the Notice of Decision and a letter/email of acceptance from the land custodian of the site in NSW.
Thank you.
Regards

[redacted] | **Assistant Director, Contaminated Sites**
Email: [redacted]@act.gov.au
Office of the Environment Protection Authority | Chief Minister Treasury and Economic Development Directorate | ACT Government
480 Northbourne Avenue, Dickson ACT 2602 | GPO Box 158 Canberra ACT 2601 | www.act.gov.au

From: [redacted]@agonenviro.com.au>
Sent: Monday, 8 August 2022 9:56 AM
To: Contaminated Sites <ContaminatedSites@act.gov.au>
Cc: [redacted] MBS Group [redacted]@mbsgroup.com.au>; [redacted] MBS Group [redacted]@mbsgroup.com.au>
Subject: NoD 202037677 - Support for movement of soils to NSW

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On behalf of MBS, the project wishes to dispose of Fill soils in NSW. Agon are finalising our NSW ENM classification report, however in the meantime please see attached.

- Robson (2011) CEMP including UFP.
- Snowy Monaro Regional Council (SMRC) stamped plans (Development Consent No: 10.2021.365.1) for the proposed placement of Fill BRU-ENM.

OEPA confirmation of compliance to Condition 8.c is sought.
Thanks,
[redacted]

[redacted]
Principal Environmental Consultant
ACT Manager
Agon Environmental
ADELAIDE I CANBERRA I DARWIN I MELBOURNE
68 Northbourne Avenue, Canberra ACT 2600
[redacted]
[redacted]@agonenviro.com.au
agonenviro.com.au

From: [redacted] on behalf of Contaminated Sites
To: [redacted]
Subject: NoD 202037677 - Support for movement of soils to NSW - SUPPORTED
Date: Thursday, 11 August 2022 10:08:00 AM
Attachments: image001.png
image002.png
image003.png
image004.png
image005.jpg
Doc 6 - Notice of Decision-202037677-Signed 13 Aug 21.pdf
B1S80 Greenway_ENM Rev#01.pdf
Letter of acceptance..pdf

OFFICIAL

Good morning [redacted]
In your capacity as the EPA can you please issue the email of support below to [redacted]@mbsgroup.com.au and copy to [redacted]@agonenviro.com.au, Queanbeyan@epa.nsw.gov.au, council@snowymonaro.nsw.gov.au, Environment.Protection@act.gov.au and ContaminatedSites@act.gov.au?
Thanks [redacted]
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Environment Protection Authority

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Sent: Thursday, 11 August 2022 6:47 AM
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Cc: [redacted] MBS Group ; [redacted] MBS Group
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[redacted]
P[redacted]ronmental Consultant
ACT Manager

Agon Environmental
[redacted]@agonenviro.com.au

From: [redacted]@act.gov.au> **On Behalf Of** Contaminated Sites
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To: [redacted]@agonenviro.com.au>
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[redacted] | **Assistant Director, Contaminated Sites**
Email: [redacted]@act.gov.au
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480 Northbourne Avenue, Dickson ACT 2602 | GPO Box 158 Canberra ACT 2601 | www.act.gov.au

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OEPA confirmation of compliance to Condition 8.c is sought.
Thanks,
[redacted]

[redacted]
Principal Environmental Consultant
ACT Manager
Agon Environmental
ADELAIDE I CANBERRA I DARWIN I MELBOURNE
68 Northbourne Avenue, Canberra ACT 2600
[redacted] agonenviro.com.au
agonenviro.com.au

attached files. **Please consider the environment before printing this email.**

Environmental Excellence through Experience, Endeavour and Evaluation.

Robson Environmental Pty Ltd
p: 02 6239 5656 f: 02 6239 5669
e: admin@robsonenviro.com.au
PO Box 112, Fyshwick 2609
www.robsonenviro.com.au
ABN: 55 008 660 900

Ref: 691302_EAR_CEMP_LDA_20111123.docx

Construction Environmental Management Plan
Sections 10, 57, 58, 59, 65 and 66
Greenway, ACT 2900

November 2011

Client: [redacted]
Land Development Agency
Level 7 TransACT House
470 Northbourne Avenue
Dickson ACT 2602

CERTIFICATE OF APPROVAL FOR ISSUE OF DOCUMENTS

Document No: 691302_EAR_CEMP_LDA_20111123.docx **Revision Status:** A1

Title: Construction Environmental Management Plan
Sections 10, 57, 58, 59, 65 and 66
Greenway ACT 2900 **Date of Issue:** 23.11.2011

Client: Land Development Agency **Copy No:** One

	Name	Position	Signature	Date
Prepared by:	[redacted]	Senior Environmental Scientist	[redacted]	23.11.2011
Reviewed by:		Manager of Environmental Assessment and Remediation		23.11.2011
Approved by:		Director		23.11.2011

RELEASE STATUS:

Confidential

DISTRIBUTION (Add additional Pages as required)

Organisation	Attention	Copy No.	Actioned [1]
LDA	[redacted]	1 to 4	JR**(23.11.2011)**
Robson Environmental Pty Ltd		5	JR**(23.11.2011)**

[1] To be initialled and dated by the person who approves the issue of the documents.

TABLE OF CONTENTS

TABLES IN TEXT

LIST OF ATTACHMENTS

FIGURES

APPENDICES

1 INTRODUCTION

Robson Environmental Pty Ltd (Robson) was commissioned by the Land Development Agency (LDA) in November 2011 to develop a Construction Environmental Management Plan (CEMP) for uncontrolled fill located on Sections 10, 57, 58, 59, 65 and 66, Greenway ACT 2900, herein referred to as the site. The location of the site is shown in **Figure 1**, the blocks and site detail is shown in **Figure 2**.

This CEMP provides details for the appropriate management of uncontrolled fill on the site (potential areas are shown on **Figure 3**) during construction works including materials which are visually contaminated, odorous, and/or which may not otherwise meet site criteria (aesthetic or otherwise). This CEMP is only intended to cover site management during the construction works.

1.1 Background

The site (excluding Section 10) is located on the western foreshore of Lake Tuggeranong, has an approximate area of 10.7 hectares (ha) and is generally comprised of vacant land, with the exception of Block 2 Section 57 which has an established office building with a car park. Block 5 Section 10 is separated from the rest of the site by Lake Tuggeranong and is located on the eastern foreshore and has an approximate area of 8.4 ha. The site includes public access areas and walking paths around Lake Tuggeranong. The location of the site is shown in **Figure 1**.

Robson understands that the LDA propose to redevelop the site for residential, commercial and public recreational purposes. Robson has applied a conservative approach and prepared this management plan based on the potential for residential land use. As part of the redevelopment works it is understood that earthworks and landscaping will be undertaken.

A Stage 1 Environmental Site Assessment (ESA) was undertaken by Robson in June 2011. The works, which included a site walkover, and searches of government records and historical photographs, are described in the report titled Robson Environmental (June 2011) *'Stage 1 Environmental Site Assessment, Sections 10, 57, 58, 59, 65 and 66, Greenway, ACT 2900'* (Robson reference 6913_EAR_Stage 1_LDA_20110607.docx).

The Stage 1 ESA report was submitted to the ACT Environment Protection Unit (EPU). Upon review of the report the EPU outlined a requirement for a CEMP to be prepared and implemented prior to any redevelopment works.

This CEMP has been prepared to address the EPU requirement and to minimise the risk of personal exposure to potentially impacted material in the uncontrolled fill, and that material suspected to be contaminated is managed appropriately during construction works.

This CEMP has been prepared in general accordance with the following Acts and Guidelines:

- ACT *Environment Protection Act 1997*;
- ACT EPA (2009) „*Contaminated Sites Environment Protection Policy*";
- ACT EPA (2009) „*Environment Guidelines for Preparation of an Environmental Management Plan'*;
- ACT EPA (2011) „*Environment Protection Guidelines for Construction and Land Development in the ACT'.*

It is understood that the LDA will be responsible for the implementation of this CEMP during construction works on the site. The table below describes the current information on the nature and extent of the proposed works.

Table A. Key Characteristics of the Proposed Activity

Element	Description
Total Land Area of Site	19 Hectares (ha)
Potential Area of Disturbance	19 ha (including site landscaping)
Subsurface Developments	TBA
Depth to Groundwater	Actual depth is unknown however it is assumed to range between approximately 10 m on the east and 20 m on the west boundary and 0.5 m below ground level (m bgl) near the lake foreshore.
Operating Hours (during construction)	As per Schedule 2 of the ACT EPA 2005 *„Environment Protection Regulation'* (see **Section 4.4** for further detail)
Solid Waste Management	Waste materials taken to landfill, waste soils are to be removed in accordance with the ACT EPA (2011) Information Sheet 4 – Contaminated Sites: *'Requirements for Re-Use and Disposal of Contaminated Soil'*.
Uncontrolled Fill	Known to be located across the site

2 PURPOSE OF THE CEMP

The purpose of the CEMP is to:

- Describe the proposed development activity;
- Identify relevant environmental factors and the potential impacts of the development on the environment;
- Define the roles and responsibilities of persons and organisations involved in the implementation of the CEMP;
- Identify the proposed management strategies to show how the environment will be appropriately protected and environmental issues are appropriately mitigated;
- Provide procedures to evaluate whether materials encountered during construction works are suitable for the future land use;
- Provide procedures for the management and if necessary removal of contamination encountered on the site in accordance with requirements of the ACT Environment Protection Authority (EPA) of the Department of the Environment, Climate Change, Energy and Water (DECCEW);
- Ensure compliance with EPU requirements.

3 SITE INFORMATION

The site occupies an area of approximately 19 hectares (ha) comprising the east and west foreshores of Lake Tuggeranong. A two storey building is located on Block 2 Section 57 however no buildings are currently located on the rest of the site with the exception of a small water monitoring shed which is located on the north eastern foreshore of the site.

The eastern foreshore area has an undulating topography with a general slope to the west with a gradient that ranges between 5 percent (%) and 10 %. Numerous trees are also present on the eastern side of the lake and outcrops of rhyodacite are present in the southern section of the eastern foreshore. The western foreshore consists of fewer trees scattered across a large open grassed area. The western foreshore has an average gradient of 3 % in the direction of Lake Tuggeranong. Services such as communications, gas, electricity, sewerage, stormwater and drainage channels were also observed on the site. The locations of key site features are shown in **Figure 2**.

3.1 Site Identification

Key site details are outlined in **Table B** below.

Table B: Site Identification

	Description
Site Location	Anketell Street, Greenway ACT 2900
Name of Site Lessee	Block 2 Section 57 is leased by the Commonwealth of Australia represented by the Department of Families Housing Community Services and Indigenous Affairs. Block 3 Section 57 and Sections 10, 58, 59, 65 and 66, have had no title issued.
Client	Land Development Agency
Block and Section	Block 5 Section 10, Block 2 and 3 Section 57, Block 1 Section 58, Block 2 Section 59, Block 1 Section 65, and Block 1 Section 66.
Site Zoning	According to the ACT Territory Plan (administered by ACTPLA) Block 5 Section 10 is zoned as PRZ1 – Urban Open Space whilst the other Sections of the site are zoned as CZ3 – Services Zone. The PRZ1 zoning objectives are to: a) Provide an appropriate quality, quantity and distribution of parks and open spaces that will contribute to the recreational and social needs of the community; b) Establish a variety of settings that will support a range of recreational and leisure activities as well as protect flora and fauna habitats and corridors, natural and cultural features

	and landscape character; c) Allow for stormwater drainage and the protection of water quality, stream flows and stream environs in a sustainable, environmentally responsible manner and which provides opportunities for the community to interact with and interpret the natural environment; d) Allow for ancillary uses that support the care, management and enjoyment of these open spaces including park maintenance depots, small-scale community activity centres; e) Ensure that development does not unacceptably affect the landscape or scenic quality of the area, adequacy of open space for other purposes, access to open space, or amenity of adjoining residents; f) Provide for integrated land and water planning and management. The CZ3 zoning objectives are to: a) Provide for a range of conveniently located services and lower rent commercial activities; b) Ensure that commercial development supports but does not undermine the function of the CZ1 Core Zone and the CZ2 Business Zone; c) Accommodate retail uses or entertainment facilities requiring larger sites; d) Encourage a mix of land uses which contribute to an active and diverse character; e) Maintain and enhance environmental amenity and encourage a standard of urban design consistent with the function of the Zone; f) Undertake development using best practice environmentally sustainable development principles.

3.2 Surrounding Land Uses

The current uses of the surrounding properties are outlined overleaf in **Table C**.

Table C: Surrounding Land Use

Site Boundaries	Direction from Site
Lake Tuggeranong, Soward Way and Reed Street South: Lake Tuggeranong which is zoned as PRZ1 – Open Space continues to the north. Soward Way extends over Lake Tuggeranong and Reed Street South forms the north western boundary of the site on the other side of which the area is zoned as CZ2 – Business Zone	North
Drakeford Drive: Immediately adjacent to the site is Drakeford Drive on the other side of which are residential buildings which are zoned as RZ1. In the south east is Isabella Pond which feeds into Lake Tuggeranong and is Zoned as PRZ1 – Open Space.	East
Athllon Drive: Immediately adjacent to the site is Athllon Drive on the other side of which is medium density housing zoned RZ4.	South
Offices: Immediately adjacent to the west boundary is Anketell Street. On the other side of the street the land is zoned as CZ3 - Services Zone which is occupied by commercial businesses and shopfronts (i.e. Bunnings) and two (2) service stations and an Action bus depot are located within 500 m of the site. The north west is zoned as CZ2 – Business Zone which is occupied by a Police Station and Office buildings.	West
Lake Tuggeranong: The site is separated into east and west foreshore areas by Lake Tuggeranong which is zoned as PRZ1 – Open Space.	Central

Potential sensitive receptors within a 500 metre (m) radius of the site include:

- Residential properties to the south and east;
- Commercial properties to the north and west;
- Lake Tuggeranong to the north and Isabella Pond to the south east;
- Lake Tuggeranong District Park to the north and east.

The nearest surface water body is Lake Tuggeranong located at the centre of the site.

3.3 Topography and Drainage

Reference to the Land and Property Information New South Wales (2003) 1:25,000 scale Topographic & Orthophoto Map Sheet „*Tuggeranong 8727-3S Second Edition'*

and the ACTMAPi website indicates that the site is at an elevation of approximately 570 m to 580 m above Australian Height Datum (m AHD) in an area which slopes to the west. The nearest major water body is Lake Tuggeranong at the centre of the site which is at an elevation of approximately 570 m AHD.

3.4 Geology

Reference to the Bureau of Mineral Resources, Geology and Geophysics (1992) 1:100,000 scale Geological Series Sheet *„Canberra 8727'*, indicates that the site is underlain by the late Silurian aged Deakin Volcanics in the south eastern section while the rest of the site is underlain by the Laidlaw Volcanics. Both are part of the Laidlaw Volcanics suite and are described as being comprised of rhyodacitic ignimbrite and minor volcaniclastic and argillaceous sediments.

Information regarding intrusive ground works is not known to Robson at the time of reporting and therefore no detail of the local geology is currently available.

3.5 Hydrogeology

Reference to the Bureau of Mineral Resources, Geology and Geophysics (1984) 1:100,000 scale map of the *„Hydrogeology of the Australian Capital Territory and Environs'*, indicates that the water bearing units underlying the site exist within fractured hydrogeological units of late Silurian age and are described as dacitic, rhyodacitic, ignimbrite, bedded tuffs, minor shale, sandstone, limestone and ashstone.

On the eastern foreshore the yield can be expected to be between 0.5 to 1.0 litres per second (l/s*)*, while on the western foreshore the yield can be expected to be less than (<) 0.5 l/s. The quality of the groundwater on the site is expected to be variable with a total dissolved solids (TDS) content of < 500 milligrams per litre (mg/l). Fractured high yielding zones are associated with the upper and lower portions of the individual ash-flow tuffs and interbedded sediments. The regional groundwater flow would likely be to the west towards the Murrumbidgee River located at an elevation of 550 mAHD, approximately 1.4 km to the west of the site.

The direction of the local groundwater flow is uncertain but it is expected to follow the natural topographic gradient to the west of the site towards Lake Tuggeranong. The depth to groundwater is likely to vary from between approximately 10 m below ground level (bgl) to 0.5 m bgl given the topographical variation of the site.

3.6 Potential Contaminants of Concern

Uncontrolled fill material found on the site may contain TPH, Benzene, Toluene, Ethylbenzene and Xylene (BTEX), Organochlorine Pesticides (OCPs), Organophosphate pesticides (OPP), Polyaromatic Hydrocarbons (PAHs), Phenols, Volatile Organic Compounds (VOCs), and heavy metals (i.e. arsenic, cadmium, chromium, copper, lead, mercury, nickel and zinc). As there is builders' rubble mixed within the uncontrolled fill other contaminants of concern could include asbestos containing material (ACM) and polychlorinated biphenyls (PCBs).

The potential locations for uncontrolled fill on the site are shown in **Figure 2** and the distribution of uncontrolled fill is likely to be widespread across the site.

4 ROLES AND RESPONSIBILITIES FOR IMPLEMENTATION OF THE CEMP

4.1 CEMP Lifespan and Amendments

This CEMP must remain current during construction works. Should additional work tasks arise on site, or working conditions change, the CEMP should be revised during the course of the works to reflect the new information as it becomes available. Should a revised CEMP be issued, it should be submitted to the EPU for review and endorsement prior to implementation. Personnel and other contractors associated with work on the site would be required to become familiar with the revised CEMP and acknowledge that they understand the changes to the plan.

Should it be considered that the CEMP is no longer necessary, or that the CEMP should be amended, then the LDA would need to consult with the ACT EPU regarding the proposed intention/change.

4.2 Land Development Agency (or appointed delegate)

The LDA (or its appointed delegate) will be responsible for the implementation of this plan during construction. In this regard the LDA (or their appointed delegate) will have the following responsibilities:

- Ensure familiarisation of all relevant parties with the CEMP as part of the induction process, prior to their working on site;
- Ensure contractors involved with earthworks are informed of the presence of the uncontrolled fill on the site and the risks associated with the excavation of this material as outlined in **Section 3.6**;
- Engage a suitably qualified environmental consultant to induct relevant parties prior to work onsite;
- Ensure a copy of the CEMP is provided to the primary contractor or person undertaking the work;
- Monitor the compliance of the CEMP by contractors onsite;
- Implement procedures for the management of suspected contamination including stockpiling, assessment, remediation and or disposal requirements;
- Ensure tracking of excavated materials to their final location (onsite or offsite disposal) is undertaken by the construction contractor. Approval from the ACT EPU will be required prior to disposal of impacted material from the site;
- Maintain this CEMP;
- Record of actions of compliance under the CEMP.

A Construction Environmental Management Plan Compliance Agreement is attached in **Appendix A**.

4.3 Construction Contractor

Construction personnel who will be involved with digging, excavating or trenching activities should be trained to identify and report potentially contaminated soil (i.e. visually impacted or odorous soil). This training would be completed as part of the induction process and documented by an appropriately qualified environmental consultant. If such material is identified, LDA should be notified immediately so that the material can be dealt with in accordance with the process outlined in **Section 5**.

Contractors onsite would be responsible for the following:

- Advise the LDA or its nominated delegate of soil suspected to contain contamination;
- Ensure that works comply with the requirements outlined in **Sections 5** and **6** of this CEMP;
- Maintain records of all soil movements (using the materials tracking form in **Appendix B**);
- In the event that soil which is potentially impacted with contamination is encountered, the contractor is to contact LDA (or its nominated delegate) who would then engage a suitably qualified environmental consultant to advise on the necessary actions;
- Prepare and implement construction/maintenance method description to ensure that suitable compliance measures are integrated into work practices;
- Monitor work practices to ensure compliance with this CEMP and other relevant statutory and licensing requirements as outlined in **Section 1.1**.

4.4 Environmental Consultant

A suitably qualified environmental consultant should be available to undertake site environmental assessments, sampling, remediation and/or validation works. The environmental consultant will be responsible for:

- Inducting construction contractor personnel on the implementation of this CEMP and how to recognise and report to the LDA (or its nominated delegate) material potentially unsuitable for site use;
- Where required provide input into the removal and validation of areas with potential soil impact;
- Document environmental work/actions undertaken in relation to the CEMP including removal and appropriate disposal of any impacted material, to ensure compliance with the CEMP.

5 PROCEDURES

5.1 Excavation Works and Unexpected Finds

The following controls should be implemented during any excavation, trenching or digging work on site:

- Topsoil materials should be stockpiled in a designated area for reuse upon completion of works;
- If potentially impacted material is encountered the LDA should be notified promptly so that a suitably qualified environmental consultant can undertake a visual risk assessment and provide advice on the continuation of excavation works;
- If required the environmental consultant would assess the material against the lower of the National Environment Protection Council (NEPC) (1999) *„National Environment Protection (Assessment of Site Contamination) Measure 1999: Schedule B(1) Guideline on the Investigation Levels for Soil and Groundwater'* (NEPM): Health Investigation Level (HIL) exposure setting „A" (Standard Residential) soil investigation levels or the NEPM 1999 Ecological Investigation Levels (EILs);
- If materials were identified above these criteria the LDA should be notified to agree upon methods to undertake sampling, remedial and validation works.

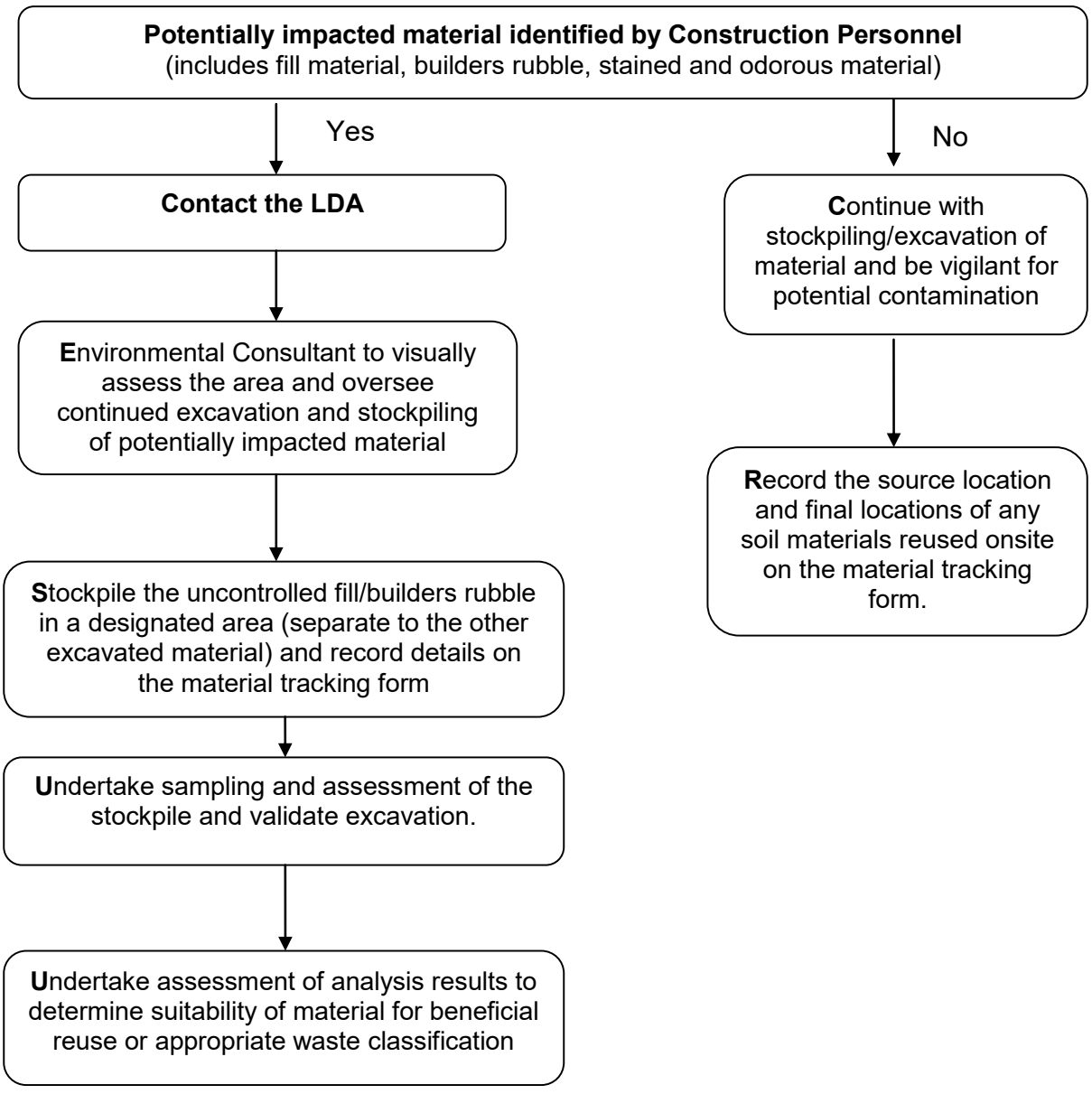
Appropriate action will be undertaken by the environmental consultant to document the assessment and subsequent actions with regards to potentially impacted material. The environmental consultant should keep the following records:

- Details of any unusual materials or odours encountered during excavation, trenching or digging and details of any associated actions taken;
- The location and extent of potentially impacted material;
- Photographic records of excavations, stockpiles and soil relocation;
- Details of all soil sampling and excavation locations on a site plan;
- Details of any environmental issues/complaints which may be of concern, and associated corrective measures.

A flowchart outlining the procedures for handling any materials of concern encountered is shown overleaf.

6 EXCAVATION MATERIAL MANAGEMENT FLOW CHART

A schematic flow chart of the decision processes involved with the identification of uncontrolled fill/potentially contaminated soil material during excavation works is provided below.



6.1 Environmental Audits for CEMP Compliance

Detailed records must be kept regarding CEMP compliance on the site. These records and associated site practices should be audited on a regular basis the number and scheduling of audits would be dependant on the duration of the works and should be undertaken by the LDA or their nominated delegate. The audits should include the following activities:

- A review of the CEMP signatory documents to ensure contractors have been inducted;
- Site inspections noting any excavations and soil stockpiles;
- Assessment of sediment and erosion control measures around excavations and stockpiles;
- Assessment of excavations and stockpiles for any obvious signs of visual or olfactory contamination;
- Verification that the site observations match the waste tracking documentation;
- On site discussions with contractors to ensure awareness of the CEMP and their responsibilities.

6.2 Materials Tracking

A material tracking form (see **Appendix B**) is to be completed for soil removed/relocated during site works. If the soil requires offsite disposal then the following information is also required:

- Soil volumes excavated;
- EPU approval documentation for disposal;
- Truck movements and volumes of material removed from the site including the nominated disposal location;
- Land fill dockets must be retained.

6.3 Removal of Material Offsite

Materials which would require classification for offsite disposal or reuse includes any material surplus to site requirements and any material found to be contaminated and unsuitable for use onsite.

An environmental consultant would be required to assess the quality of the material with respect to applicable disposal or offsite beneficial reuse (BRU) guidelines. A copy of the environmental consultants waste classification/BRU report detailing the physical and chemical characteristics of the soil should be forwarded to the ACT EPU for their endorsement prior to the removal of material from site.

All trucks used for transporting soil material should be covered to prevent possible spillage or dispersion of soil in transit to the approved landfill. Also any vehicles used to transport impacted material to the landfill must be cleaned of loose soil

before departing the landfill to ensure that all residual material is removed from the vehicle.

6.4 Stockpile Management

Designated stockpile areas should be established for the storage of soil onsite. Potentially impacted soil material should be stockpiled and bunded separately to clean material encountered during the excavation works. In both instances the following controls should be implemented:

- The stockpiles should be less than two (2) m in height, located on heavy duty black plastic and bunded with hay bales to prevent sediment dispersion and water runoff;
- Dust control measures should be implemented such as keeping soil moist during excavation works, not undertaking works on days with high wind speeds and covering of stockpiles once all the material has been excavated.

7 ENVIRONMENTAL MANAGEMENT ACTIVITIES AND CONTROLS

7.1 Surface Water and Sediment

Potentially contaminated soil and surface runoff water may be generated if surface water comes into contact with the stockpiles of excavated soil or disturbed areas. Due to the proximity of Lake Tuggeranong there is a higher risk to aquatic ecosystems, recreational lake users and aesthetics if contaminated sediment and runoff water migrates off-site. The following control methods are required to ensure that no sediment leaves the site or pollutes the storm-water system and Lake Tuggeranong:

- Limit the area of disturbance and undertake stabilisation measures of the soil upon completion of works. Stabilisation measures could include resurfacing with an appropriate material blue metal in high traffic areas, use of a water truck to limit dust, re-turfing of disturbed areas as soon as practicable;
- Vehicle access should be restricted to stabilised access points, and designated parking areas;
- Designate an area for the washout of trucks;
- Diversion bunds should be erected on the high side of stockpile areas to divert potential surface water around the stockpile. Stockpiles should also be enclosed by a silt fence or continuous fence of hay bales as outlined in the ACT EPA (2011) *„Environment Protection Guidelines for Construction and Land Development in the ACT'*, to trap sediment in water run-off;
- Divert clean water away from the disturbed areas and redirect it to stabilised areas onsite or to temporary sediment ponds;
- Install a sediment control barrier around the lower end of the site to prevent sediment discharge into the lake or off the site;
- Protect the storm-water system with sediment control measures;
- Maintain all control measures during construction and until full stabilisation.

7.2 Dust

Airborne dust may be generated by the wind during excavation and disturbance of the ground surface. This may cause a nuisance to the surrounding area, therefore the following dust control measures are proposed:

- Dust levels are to be visually monitored during site works;
- Should dust cause problems then a control method e.g. water trucks should be used;
- Works should cease in high wind conditions, and stockpiles covered/or alternatively a water truck should be utilised to reduce dust generation.

7.3 Noise

Noise and vibration represents a health risk to workers and those in the vicinity of the site. Following assessment and where possible, noise levels should be minimised. Personnel regularly exposed to loud machinery noise, must wear appropriate and clean hearing protection.

The contractor should undertake the works in accordance with state and local noise regulations applicable to the site and works should only be conducted during the business hours detailed below in **Section 7.4.** If noise impacts/complaints arise as a result of excavation works, work should cease and a noise assessment should be undertaken. If necessary, modifications to the work site, excavation equipment or work methods may be necessary to ensure compliance with ACT noise regulations.

7.4 Working Hours

Ensure all building work that generates noise is conducted within the time periods detailed in Schedule 2 of the ACT *Environment Protection Regulation* 2005 see **Table D** below.

Table D: Working Hours and Noise Requirements

Building Work Details	Monday to Saturday	Sunday and Public holidays
Industrial, city and town centre areas	6am to 8pm	6am to 8pm
Any other area when work completed within 2 weeks	7am to 8pm	8am to 8pm
Any other area when work not completed within 2 weeks	7am to 6pm	Building work must not exceed Noise Standard

In addition to help control noise the following may be considered:

- Noisy activities should be scheduled for the least sensitive times of the day such as mid- morning and mid-afternoon;
- Select machinery that produce less noise;
- Ensure machinery is well maintained.

7.5 Soil Validation Works

If potentially impacted material is suspected of containing contamination, the excavation may require validation sampling to assess whether the impacted material has been removed. The following actions should be undertaken for validation purposes:

- Validation sampling of the excavation should be undertaken by a suitability qualified environmental consultant and the samples should be sent to a National Association of Testing Authorities (NATA) accredited laboratory for analysis;
- The determination of potential contaminants to be analysed should be undertaken by an environmental consultant and based on observations of the impacted soil.

The assessment of soils should be undertaken using the National Environment Protection Council (NEPC) (1999) *„National Environment Protection (Assessment of Site Contamination) Measure 1999: Schedule B(1) Guideline on the Investigation Levels for Soil and Groundwater'* (NEPM): Health Investigation Level (HIL) exposure setting „A" (Standard Residential) and the NSW EPA (1994) *'Guidelines for Assessing Service Station Sites'*. The criteria that should be considered are outlined further below.

7.5.1 Health based Investigation Levels (HILs)

The HILs Residential „A" criteria is defined below.

Residential A: standard residential with garden/accessible soil (home grown produce contributing less than 10% of vegetable and fruit intake; no poultry): this category includes child day-care centres, kindergartens, preschools and primary schools.

7.5.2 Ecologically-based Investigation Levels (EILs).

Ecologically-based investigation level criteria should be developed at a regional level and be related to land use. However as specific regional data was not sourced and is likely to be unavailable generic urban based suburban EILs should be adopted in this instance.

7.5.3 Aesthetic Guidelines

Numeric data is not available for the aesthetic guidelines however the general aesthetic condition of site must also be considered (that is soils should not remain discoloured, malodorous or of abnormal consistency).

7.5.4 Waste Classification

Soil that is contaminated and requires disposal as waste should be removed from the site in accordance with the ACT EPA (2011) Information Sheet 4 – Contaminated Sites: *„Requirements for Re-Use and Disposal of Contaminated Soil',* and the Environment ACT (2000) *„Environmental Guidelines: Assessment & Classification of Liquid & Non-Liquid Wastes'*.

The waste classification report should be prepared in accordance with the ACT EPA 2011 Information Sheet 4 – Contaminated Sites: *„Requirements for Re-Use and Disposal of Contaminated Soil'* and the Environment ACT (2000) *„Environmental*

Guidelines: Assessment & Classification of Liquid & Non-Liquid Wastes', for approval by the ACT EPU prior to the material being transported off site.

7.5.5 Offsite Beneficial Reuse

Soil that is suitable for beneficial reuse should be assessed and the report prepared in accordance with the ACT EPA 2011 Information Sheet 4 – Contaminated Sites: *„Requirements for Re-Use and Disposal of Contaminated Soil'* for approval by the ACT EPU prior to the material being reused or transported off site. The material should be removed from the site in accordance with the ACT EPA (2011) Information Sheet 4 – Contaminated Sites: *„Requirements for Re-Use and Disposal of Contaminated Soil'*.

8 OCCUPATIONAL HEALTH AND SAFETY

Provision of a site specific health and safety program is outside the scope of this document however appropriate Occupational Health and Safety (OH&S) strategies (such as the use of appropriate personal protective equipment (PPE)), should be implemented for all activities having the potential to involve contact with potentially impacted fill material i.e. excavation, digging and trenching works. As a minimum however, it is considered that the following PPE should be available to all field personnel (including contractors):

- A hard hat (where overhead structures/machinery is present);
- Safety glasses;
- Safety boots;
- Coveralls/Long-sleeved shirt and long pants;
- High visibility clothing;
- Chemical resistant gloves (i.e. nitrile) are to be worn whenever there is the possibility of contact with contaminated soil or equipment;
- Class P2 or P3 half face mask with replaceable filters conforming to Australian Standard (AS) 1716;
- Other PPE including but not limited to protective gloves and earplugs.

9 STATEMENT OF LIMITATIONS

This Construction Environmental Management Plan has been prepared based on the results of the Stage 1 ESA titled Robson Environmental (June 2011) *'Stage 1 Environmental Site Assessment, Sections 10, 57, 58, 59, 65 and 66, Greenway, ACT 2900'* (Robson reference 6913_EAR_Stage 1_LDA_20110607.docx). This CEMP is only intended to cover site management during the construction works.

To the best of Robson‟s knowledge, our assessment of the data represents a reasonable interpretation of the general condition of the site. Under no circumstances, however, can it be considered that these findings represent the actual state of the entire site.

THIS REPORT MUST NOT BE REPRODUCED EXCEPT IN FULL AND MUST BE READ IN CONJUNCTION WITH THE REPORT TERMS AND CONDITIONS INCLUDED AFTER THE ABBREVIATIONS SECTION THIS REPORT.

10 REFERENCES

ACT *Environment Protection Act 1997.*

ACT *Environment Protection Regulation.*

ACT EPA (2009) „*Contaminated Sites Environment Protection Policy*".

ACT EPA (2009) „*Environmental Guidelines for the Preparation of an Environmental Management Plan'*.

ACT EPA (2011) Information Sheet 4 – Contaminated Sites: *'Requirements for Re-Use and Disposal of Contaminated Soil'*.

ACT EPA (2011) – „*Environment Protection Guidelines for Construction and Land Development in the ACT.'*

Australian Capital Territory Planning and Land Authority (ACTPLA) website (Territory Plan) http://www.actmapi.act.gov.au/

Australian Standard „*AS 4482.1-2005 Guide to the sampling and investigation of potentially contaminated soil – Part 1: Non-volatile and semi-volatile compounds'*.

Bureau of Mineral Resources, Geology and Geophysics, Department of Resources and Energy (1984), 1:100,000 scale, "*Hydrogeology of the Australian Capital Territory and Environs'* First Edition.

Bureau of Mineral Resources, Geology and Geophysics, Department of Resources and Energy (1992), New South Wales and Australian Capital Territory, Geological Series Map 1:100,000 scale, „*Canberra Sheet 8727'*, First Edition.

Environment ACT (2000) „*ACT's Environmental Standards: Assessment & Classification of Liquid & Non-Liquid Wastes*".

Land and Property Information New South Wales, Topographic and Orthophoto Map 1:25,000 scale, „*Canberra Sheet 8727-3N'*, Second Edition.

National Environment Protection Council (NEPC) (1999), „*National Environment Protection (Assessment of Site Contamination) Measure' (*NEPM).

NSW EPA (1994) „*Guidelines for Assessing Service Station Sites'*.

NSW EPA (2000) „*Guidelines for Consultants Reporting on Contaminated Sites'*.

Robson Environmental Pty Ltd (June 2011) *'Stage 1 Environmental Site Assessment, Sections 10, 57, 58, 59, 65 and 66, Greenway, ACT 2900'* (Robson reference 6913_EAR_Stage 1_LDA_20110607.docx).

11 ABBREVIATIONS

ACM	Asbestos Containing Material
ACT	Australian Capital Territory
ACTPLA	ACT Planning and Land Authority
AHD	Australian Height Datum
bgl	Below ground level
BTEX	Benzene – Toluene – Ethylbenzene – Xylene
CEMP	Construction Environmental Management Plan
DECCEW	Department of Environment, Climate Change, Energy and Water
EILs	Ecological Investigation Levels
EPA	Environment Protection Authority
EPP	Environment Protection Policy
EPU	Environment Protection Unit
Ha	Hectare
HILs	Health Investigation Levels
L	Litres
L/s	Litres per second
m	Metres
mg/L	Milligrams per Litre
NATA	National Association of Testing Authorities
NEPC	National Environment Protection Council
NEPM	National Environment Protection Measure
NSW	New South Wales
NSW EPA	Environment Protection Authority of New South Wales
OCP	Organochlorine Pesticides
OPP	Organophosphate Pesticides
OH&S	Occupational Health and Safety
PAH	Polycyclic Aromatic Hydrocarbon
PCB	Polychlorinated biphenyls
PPE	Personal Protective Equipment
TDS	Total Dissolved Solids
TPH	Total Petroleum Hydrocarbon
VOC	Volatile Organic Compounds

Environmental Excellence through Experience, Endeavour and Evaluation.

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Report Terms and Conditions

Contaminated Site Report

While Robson Environmental Pty Ltd ('Robson Environmental') has taken all care to ensure that this report includes the most accurate information available, samples were taken where applicable, from the location indicated within the report and Robson Environmental is unable to comment on the existence or otherwise of any contaminants otherwise within the site.

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c) agrees to indemnify Robson Environmental against any liability arising from the breach by the client of this provision.

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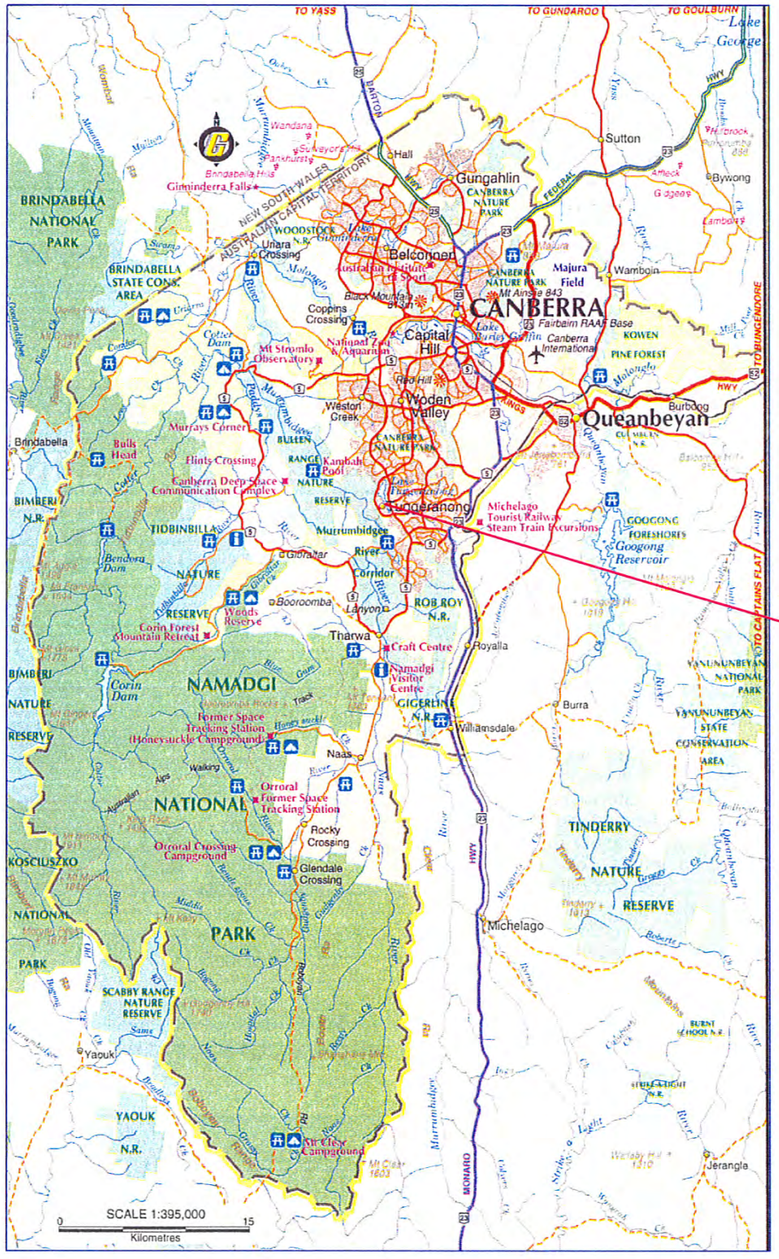
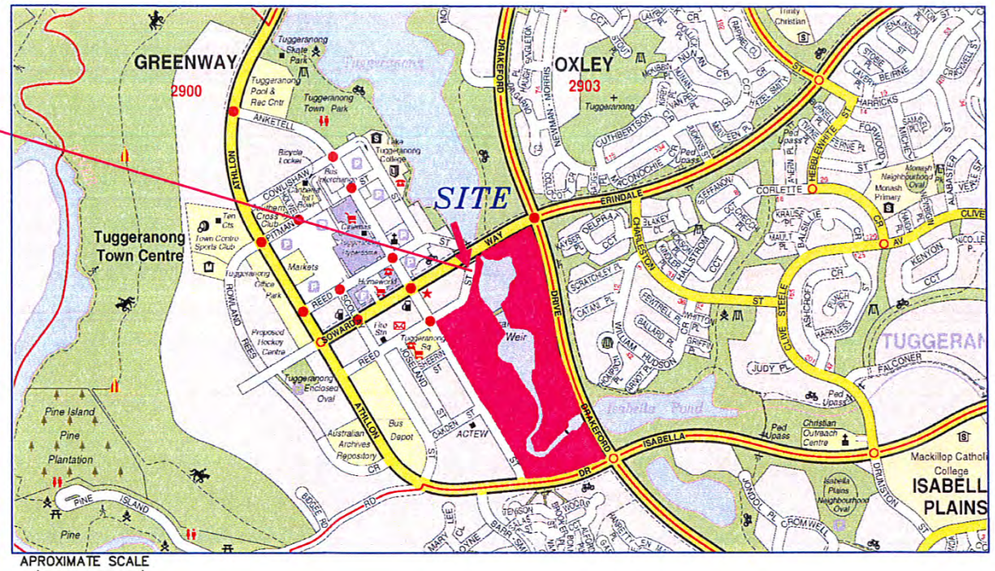
While Robson Environmental has taken all care to ensure that this report includes the most accurate information available, where it uses test results prepared by other persons it relies on the accuracy of the test results in preparing this report. In providing this report Robson Environmental does not warrant the accuracy of such third party test results

Figures

Figure 1, 2 and 3

A3





DIFFERENT SCALES

LEGEND

APPROXIMATE SITE LOCATION

Robson ENVIRONMENTAL
Environmental Excellence through Experience, Endeavor and Evaluation

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Client:

LDA

Project:

CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN

Location:

SECTIONS 10, 57–59, 65 & 66
GREENWAY ACT 2900

Drawing Title:

SITE LOCALITY PLAN

Drawn [redacted]	Signed [redacted]	Date 18.11.11
Checked [redacted]	Signed [redacted]	Date 18.11.11

Rev	Date	Revision Details	Drn
A	18.11.11		

Project - Drawing No.	Figure No.	Rev.
691302	1	A

A3

LAKE TUGGERANONG

COMMERCIAL AREA

SOWARD WAY

SERVICE STATION

REED STREET SOUTH

SHEERIN STREET

JOSELAND STREET

SCOLLAY STREET

ANKETELL STREET

ATHLLON DRIVE

OAKLAND STREET

COMMERCIAL AREA

TUGGERANONG WEIR

WATER MONITORING HUT

VEHICLE ACCESS AREA

DRAINAGE CHANNEL

PED. UNDERPASS

DRAKEFORD DRIVE

RESIDENTIAL HOUSING

ISABELLA POND

WEIR

VERTICAL PIPE

ATHLLON STREET

PED. UNDERPASS

THIS IS ONE INTERPRETATION ONLY
OTHER INTERPRETATIONS ARE POSSIBLE

LEGEND

- APPROXIMATE SITE BOUNDARY
- BUILDINGS
- APPROXIMATE LOCATION OF UNCONTROLLED DUMPING
- APPROXIMATE LOCATION OF SEWERAGE ACCESS POINT
- APPROXIMATE LOCATION OF STORMWATER DRAIN
- ROAD
- APPROXIMATE DIRECTION OF SLOPE
- APPROXIMATE LOCATION OF SEWERAGE TANK
- GAS — APPROXIMATE LOCATION OF GAS LINE
- E — APPROXIMATE LOCATION OF OVERHEAD ELECTRICITY
- APPROXIMATE LOCATION OF SERVICE PIT
- WALKING TRACK
- S — APPROXIMATE LOCATION OF SEWERAGE PIPE LINE
- WALKING TRACK
- X VERTICAL PIPE

0 50 METRES
APPROXIMATE SCALE

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Client: LDA

Project: CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN

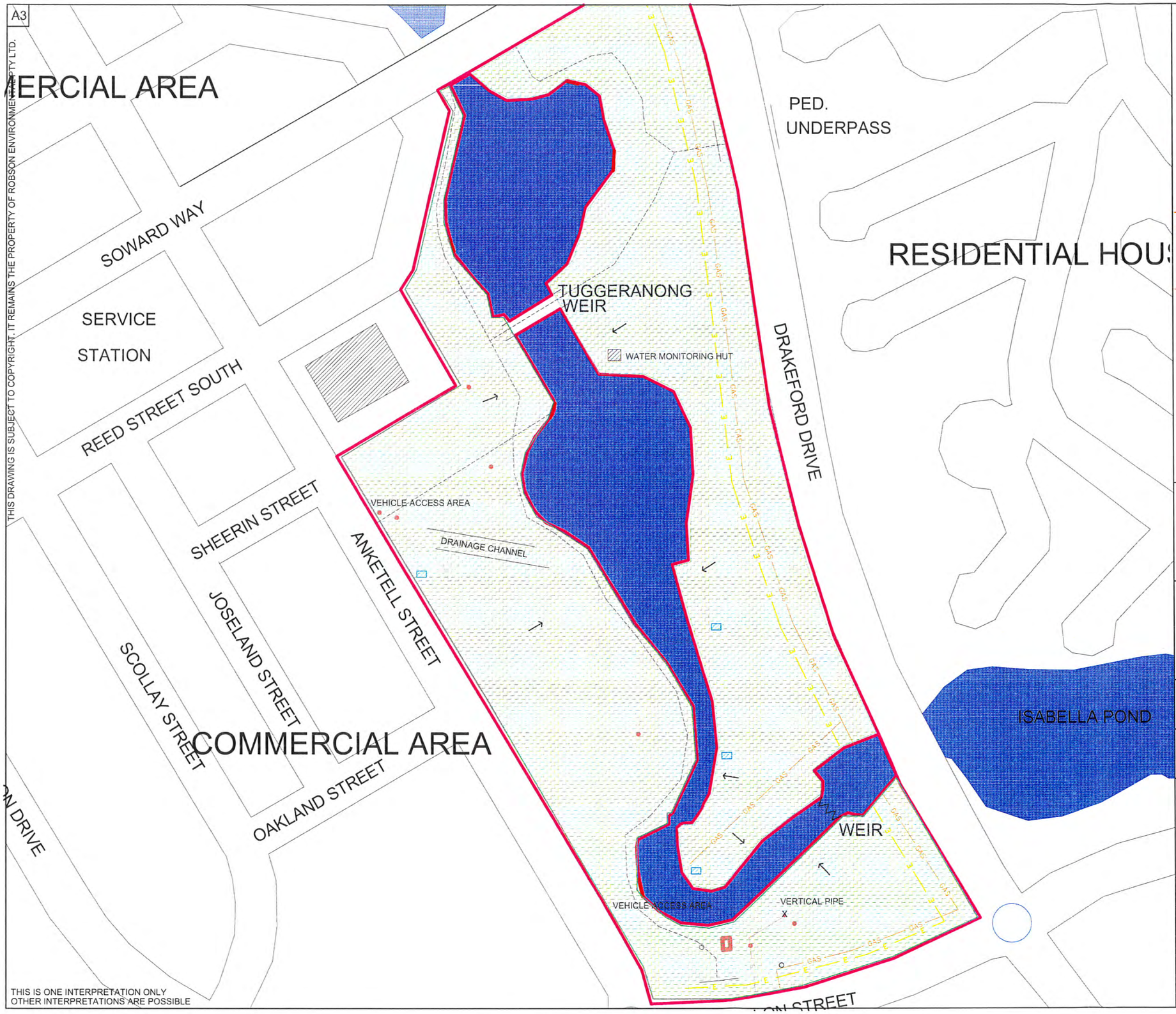
Location: SECTIONS 10, 57–59, 65 & 66 GREENWAY ACT 2900

Drawing Title: DETAILED SITE PLAN

Drawn [redacted]	Signed [redacted]	Date 18.11.11
Checked [redacted]	Si [redacted]	Date 18.11.11

Rev	Date	Revision Details	Drn
A	18.11.11		

Project - Drawing No.	Figure No.	Rev.
691302	2	A



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Client: LDA

Project: CONSTRUCTON ENVIRONMENTAL MANAGEMENT PLAN

Location: SECTIONS 10, 57–59, 65 & 66 GREENWAY ACT 2900

Drawing Title: AREAS OF POTENTIAL UNCONTROLLED FILL

Drawn [redacted]	Signed [redacted]	Date 18.11.11
Checked [redacted]	S [redacted]	Date 18.11.11

Rev	Date	Revision Details	Drn
A	18.11.11		

Project - Drawing No.	Figure No.	Rev.
691302	3	A

APPENDICES

Appendix A

Construction Environmental Management Plan Compliance Agreement

Construction Environmental Management Plan Compliance Agreement

I have been inducted to the LDA site"s Construction Environmental Management Plan (CEMP) for uncontrolled fill material located at Sections 10, 57, 58, 59, 65 and 66 Greenway ACT 2900. I also declare that I have completed appropriate training as required by the CEMP.

I understand the purpose of the CEMP and agree to comply with all its provisions. I understand I could be prohibited from working on the site for violating any of the reporting requirements specified in this CEMP.

Name	Organization	Signature	Date

Appendix B

Material Tracking Form

Material Tracking Form

Date	
Project No.	
Attendant Environmental Consultant	
Attendant Construction Company Personnel	
Source Location (GPS or Grid reference)	
Placement Location (GPS or Grid reference)	
Volume of Soil Moved	
Stockpile Ref.	
Field Observations (including odours, soil staining, building rubble etc)	

Additional Information

Environmental Effects Statement

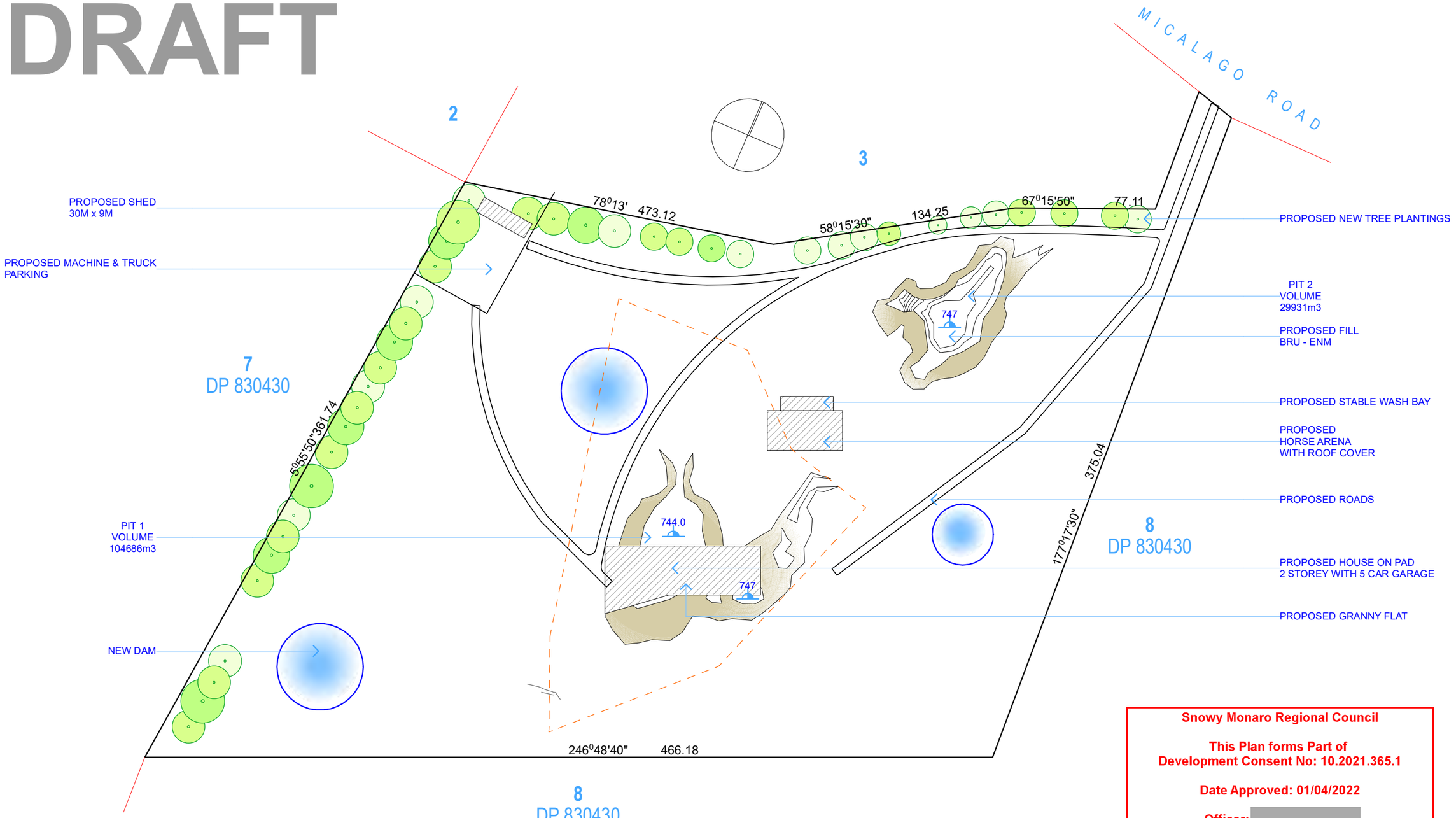
DA Proposal is mainly to fill in the existing mine holes and restore the areas to natural ground levels.

One of the mine holes is located in the building envelope so this will need to be filled in first to enable future works in terms of building a new dwelling etc. The works will also involve grading in some new access tracks for future development.

Proposed earthworks to future building pads for horse area, shed and dwelling.

Proposed Enviro Plan is attached showing Silt Fencing installed on the south west boundaries to prevent erosion.

DRAFT



Site Plan

1:2000

Snowy Monaro Regional Council

This Plan forms Part of
Development Consent No: 10.2021.365.1

Date Approved: 01/04/2022

Officer: [redacted]

Environmental Planning and Assessment Act 1979

81 Constitution Avenue
Campbell ACT 2612
P. 02 6154 3059
E. [redacted]@nedicarchitects.com.au

nedic architects

Plot Date: 19/06/2020
Project NO. 2020.04
Project Status FOR DISCUSSION

Client GIVEN NAME & GIVEN NAME SURNAME
Location: **LOT 4 DP 1105270**
Site: 498 MICALAGO ROAD MICHELAGO NSW

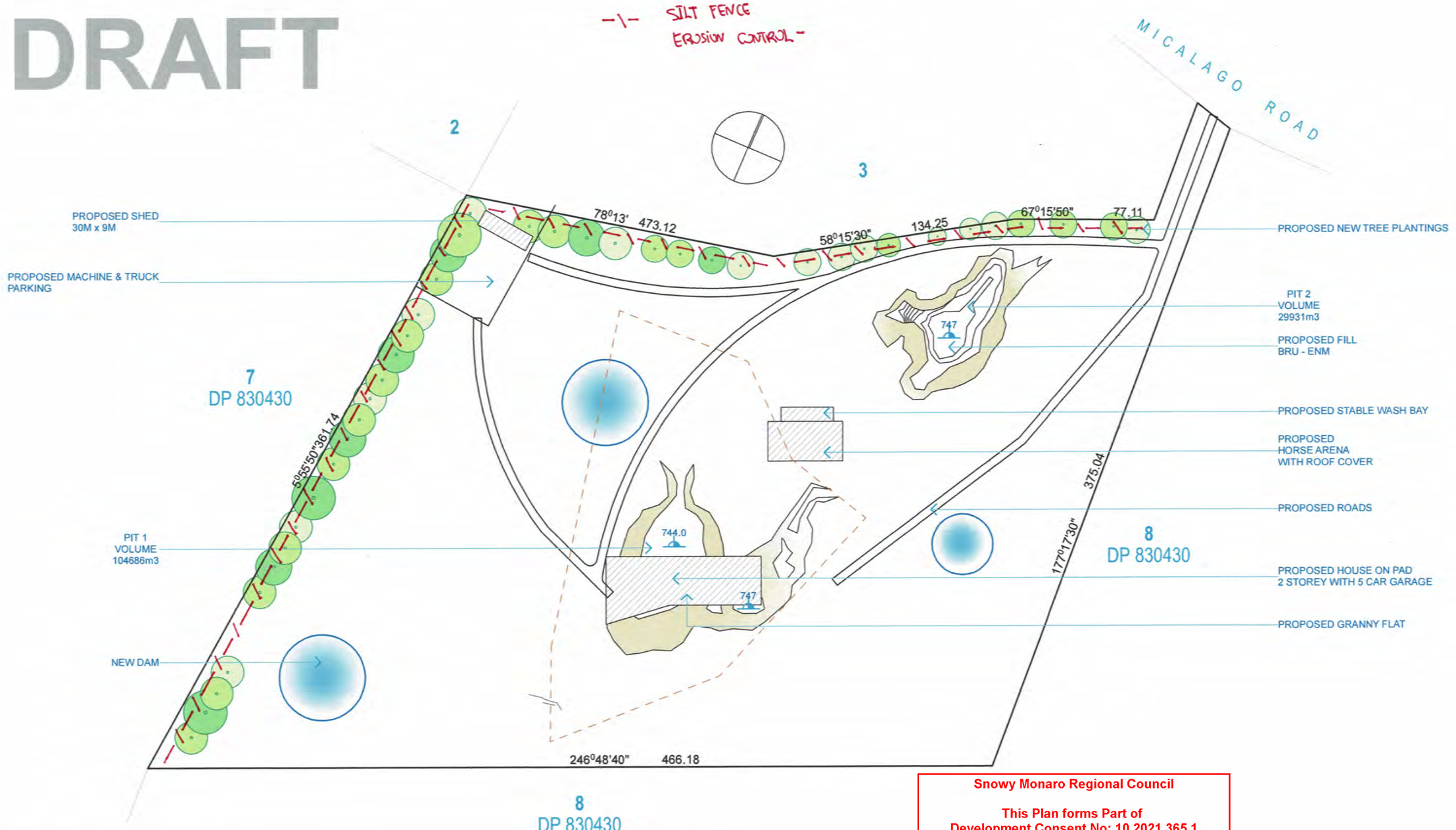
DRAWING TITLE : Site and Location Drawings
Site Plan

PROJECT NAME : [redacted]

REVISION NO. **A**
DRAWING NO. **A02**

DRAFT

-\- SILT FENCE
EROSION CONTROL -



Site Plan
1:2000

Snowy Monaro Regional Council

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nedic architects

Plot Date: 19/06/2020
Project NO. 2020.04
Project Status FOR DISCUSSION
Client GIVEN NAME & GIVEN NAME SURNAME
Location: LOT 4 DP 1105270
Site: 498 MICALAGO ROAD MICHELAGO NSW

DRAWING TITLE : Site and Location Drawings
Site Plan

PROJECT NAME : [redacted]

REVISION NO. A
DRAWING NO. A02

NOTE
* TITLE BOUNDARIES ARE FROM PLAN DIMENSIONS ONLY AND WERE NOT MARKED OR DETERMINED AS PART OF THIS SURVEY.

Snowy Monaro Regional Council

This Plan forms Part of
Development Consent No: 10.2021.365.1

Date Approved: 01/04/2022

Officer: [redacted]

Environmental Planning and Assessment Act 1979

TN MM
DP 1105270

MICALAGO ROAD

2

3

78°13'
173.12

58°15'30"
134.25

67°15'50"
77.11

357°17'30"
68.83

105°39'10"
22.76

88°43'
76.30

132°47'20"
59.32

105°09'50" 51.99

BUILDING
ENVELOPE

348°20'50"
189.23

PIT 2
VOLUME
29931m³

PIT 1
VOLUME
104686m³

CONC SLAB

199°41'10" 118.81

337°26'30"
52.62

100.02
225°41'10"

246°48'40" 466.18

375.04
177°17'30"

7
DP 830430

5°55'50"
361.74

8
DP 830430

8
DP 830430

Lot Area: 13.184 Ha

[redacted]

Surveyor Registered under the Surveying and Spatial Information Regulation 2017

SHAW SURVEYS PTY LTD CONSULTING SURVEYORS 4/10 KENNEDY STREET, KINGSTON. A.C.T. Phone: (02) 62607002 Email: survey@shawsurveys.com.au	CLIENT: [redacted]	VOLUMES OF PITS LOT 4 DP 1105270 No.498 MICALAGO ROAD, MICHELAGO	Job No. 17153-01V SHEET 1 OF 1 SURVEYOR: L.F. DRAWN: I.M.	DATE: 4/05/2020 DATUM: - SCALE @ A3 1:2000

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enquiries@agonenviro.com.au
A.B.N. 29 167 746 063

8th August 2022

Ref. Block 1 Section 8 Greenway

[redacted]
Project Manager
MBS Group

Dear [redacted]

ENM Classification Report REV#01
Block 1 Section 180 Greenway

1. Introduction

Agon Environmental Pty Ltd (Agon) was commissioned by MBS Group to classify:

- A 2,500m^3 (estimated tonnage of 3,000) stockpile of fill soil.
- A 1,000m^3 in-situ area of fill (average thickness of 1m).

Located at Block 1 Section 80 Greenway. Removal of these soils is required o facilitate redevelopment of the site. Accordingly, fill materials within the site area have been assessed to determine its suitability to be reused in NSW as Excavated Natural Material (ENM).

Note this report only applies to fill materials in the site area, underlying undisturbed natural soils will be assessed as Virgin Excavated Natural Material (VENM).

2. Assessment Criteria

The NSW EPA Resource Recovery Order "**The excavated natural material order 2014**" (ENMO-2014), defines ENM material 'as occurring rock and soil (including but not limited to materials such as sandstone, shale, clay and soil) that has:

- a) been excavated from the ground.
- b) contains at least 98% (by weight) natural material.
- c) does not meet the definition of Virgin Excavated Natural Material.
  Excavated natural material does not include material located in a hotspot; that has been processed; or that contains asbestos, Acid Sulfate Soils (ASS), Potential Acid Sulfate soils (PASS) or sulfidic ores.
- **Table 4 of ENMO-2014** – Meets the adopted Table 4 criteria (maximum and average) for a range of contaminants.

3. Site History

Agon have reviewed the following background reports:

- Robson (2011) Construction Environmental Management Plan Sections 10, 57, 58, 59, 65 and 66 Greenway, ACT 2900

The CEMP details the site history including the importation of fill within the site area. A requirement of the development is the ongoing implementation of the CEMP.

4. Adequacy of Assessment

In accordance with ENMO 2014, **Table 1** below provides an assessment on the adequacy of the assessment including sample collection, analyte selection and sample rate.

Table 1: Adequacy of Assessement

Item	Description
Sample Method In-Situ	ENMO-2014 -Table 2 requires for in-situ material from a 1000m^2 site that 6 systematic sampling points are to be used and 1 soil sample be collected at 1 mbgl and thereafter until the proposed depth of excavation is reached. The fill profile was logged between 0.1m and 1m across the site area. Samples were collected by Agon environmental scientists via a freshly nitrile gloved hand to prevent risk of cross contamination. Samples were sent under a chain of custody documentation and in a chilled condition to the receiving NATA Accredited laboratory (Eurofins).
Sample Method Stockpile	ENMO-2014 -Table 1 requires for a stockpile with a tonnage of 3000 that 7 samples be collected. The following samples were collected: • Composite samples CSP01-CSP07. • Discrete samples DSP01-DSP07. • Foreign material samples FM01-FM07. Discrete and composite samples were collected by Agon environmental scientists via a freshly nitrile gloved hand to prevent risk of cross contamination. Samples were sent under a chain of custody documentation and in a chilled condition to the receiving NATA Accredited laboratory (Eurofins).
Sample Locations	**Figure 1** shows the sample locations advanced for classification purposes. Samples were arranged on a general grid noting some areas could not be accessed due to the presence of underground services. Overall sufficient sampling has been undertaken to determine the suitability of fill at the site for offsite reuse as ENM.
Sampling Stratification	ENMO-2014 requires that sampling is undertaken in a way that is representative of the entire site area. A excavator was used to recover fill from the sample locations and was advanced through the fill profile at the site area.
Analytes	The in-situ material was analysed in accordance with Table 4 of the ENMO-2014. Note that soils in region are not referenced as Acid Sulfate Soil by the NSW DPE, Department of Planning and Environment therefore material samples were not tested for ASS and PASS (compliant with Section 4.2 of ENMO-2014).

Figure 1 below shows the sample locations.

Figure 1 **Sample Locations**
Source: Base image sourced from ACT Map I (2022)

5. Observations and Chemical Analysis Results

In-situ soils were observed to be reworked silty clays and weathered bedrock free of anthropogenic inclusions, odours or staining at the time of sampling. Tabulated results are provided as **Attachment 1** with corresponding laboratory certificates in **Attachment 2**. All soil results were less than the ENM criterion, consideration of the average and max values summarised below in **Table 2**.

Table 2: Statistical Appraisal

Analyte	Max Total	Max Average	No. Samples	Max Result	Average	Comment
Arsenic	40	20	19	6	2	Compliant
Cadmium	1	0.5	19	<0.4	<0.4	Compliant
Chromium	150	75	19	29	12	Compliant
Copper	200	100	19	17	8	Compliant
Lead	100	50	19	27	17	Compliant
Mercury	1	0.5	19	<0.1	<0.1	Compliant
Nickel	60	30	19	16	9	Compliant
Zinc	300	150	19	74	24	Compliant
EC	3000	1500	19	120	43	Compliant
pH	4.5-10	5-9	19	9	8	Compliant
PAHs	40	20	19	<0.5	N/A	Compliant
B(a)P	1	0.5	19	<0.5	N/A	Compliant
Benzene	0.5	N/A	19	<0.1	N/A	Compliant
Toluene	65	N/A	19	<0.1	N/A	Compliant
Ethylbenzene	25	N/A	19	<0.1	N/A	Compliant
Xylene	15	N/A	19	<0.3	N/A	Compliant
TPH C10-C36	500	250	19	132	N/A	Compliant
Foreign Materials	0.1	0.05	19	<0.05	N/A	Compliant

6. Conclusion and Recommendations

On the basis of the assessment undertaken by Agon the in-situ fill (in Area A) and stockpile SP01 at the site meets the definition of ENM, that being:

- Comprised of 98% natural soils (bedrock, gravels etc.).
- Chemical analysis results compliant with ENMO 2014.

This conclusion is subject to the following conditions/exclusions:

- This conclusion only applies to in-situ fill soils (Area A) and stockpile SP01 indicated in Figure 1.
- Implementation of the Robson (2011) CEMP.
- If any soil material is encountered during excavation that does not meet the definition of ENM, has anthropogenic inclusions or is stained/odorous then it must be stockpiled and assessed separately by an environmental consultant.

Links to the ENM (2014) Order and Exemption is provided in this report or can be found out at https://www.epa.nsw.gov.au/. The Order and Exemption detail the requirements of the generator and receiver of ENM.

Kind regards

ACT Manager

Limitations

This report has been prepared in accordance with industry recognised standards and procedures current at the time of the work. The report presents the summary of the results of the assessment based on the quoted scope of works (unless otherwise agreed in writing) for the specific purposes of the engagement by the Client. No warranties expressed or implied are offered to any third parties and no liability will be accepted for use of this report by third parties. Consideration of the geotechnical suitability of site soils has been excluded from this report.

All information provided by third parties has been assumed to be correct and complete. Agon does not assume any liability for misrepresentation of information by third parties or for matters not visible, accessible or present on the subject site.

Opinions and judgements expressed herein are based on Agon's understanding of current regulatory standards and should not be construed as legal opinions.

No responsibility is accepted for use of any part of this report in any other context or for any other purpose or by third parties other than those listed above.

This report should be read in full.

Attachment 1 Soil Analysis Results

AGON

ENM Report

Table 1
Soil Analytical Results

		Metals								PAH			BTEX				TPH		FM	Properties	
		Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Zinc	Benzo(a) pyrene	Naphthalene	PAHs (Sum of total)	Benzene	Ethylbenzene	Toluene	Xylene Total	+C10-C36 (Sum of total)	C6-C9	Foreign Material	pH	Conductivity
		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	%	Units	uS/cm
		4/2	0.4/1	5	5	10	0.1	5	2./5	0.5	0.5/0.1	0.5	0.1	0.5/1	0.1	0.3	50	10/25	-	-	-
NSW (2014) ENM Max Value		**40**	**1**	**150**	**200**	**100**	**1**	**60**	**300**	**1**	**-**	**40**	**0.5**	**25**	**65**	**15**	**500**	**-**	**0.1**	**4.5-10**	**3000**
NSW (2014) ENM Max Average		**20**	**0.5**	**75**	**100**	**50**	**0.5**	**30**	**150**	**0.5**	**-**	**20**	**-**	**-**	**-**	**-**	**250**	**-**	**0.05**	**9-5**	**1500**
Sample ID	Sample Location																				
FM 01	ENM																		<0.05		
FM 02	ENM																		<0.05		
FM 03	ENM																		<0.05		
FM 04	ENM																		<0.05		
FM 05	ENM																		<0.05		
FM 06	ENM																		<0.05		
FM 07	ENM																		<0.05		
CSP 01	ENM	2.1	< 0.4	7.3	< 5	11	< 0.1	< 5	15											6.8	21
CSP 02	ENM	2.4	< 0.4	8.6	< 5	13	< 0.1	< 5	19											6.6	35
CSP 03	ENM	< 2	< 0.4	5.6	< 5	9.6	< 0.1	< 5	13											7.1	23
CSP 04	ENM	< 2	< 0.4	8.7	< 5	16	< 0.1	< 5	21											6.8	34
CSP 05	ENM	4.8	< 0.4	15	7.5	17	< 0.1	< 5	22											6.1	22
CSP 06	ENM	2.1	< 0.4	13	6	19	< 0.1	6	30											6.5	14
CSP 07	ENM	< 2	< 0.4	7.2	< 5	16	< 0.1	< 5	18											6.5	19
DSP 01	ENM									<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR			
DSP 02	ENM									<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR			
DSP 03	ENM									<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR			
DSP 04	ENM									<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR			
DSP 05	ENM									<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR			
DSP 06	QA/QC									<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR			
DSP 07	VENM									<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	132	<LOR			
TP01 - 0.1	VENM	2.6	< 0.4	13	9.9	22	< 0.1	11	24	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<0.05	8.2	53
TP01 - 1.0	VENM	2.1	< 0.4	8.9	5.4	11	< 0.1	< 5	18	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<0.05	8.6	120
TP02 - 0.1	VENM	3.2	< 0.4	13	7.4	18	< 0.1	< 5	15	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<0.05	8.2	33
TP02 - 1.0		< 2	< 0.4	11	5.3	13	< 0.1	< 5	19	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<0.05	8	28
TP03 - 0.1		2.3	< 0.4	9.6	5.8	17	< 0.1	< 5	20	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<0.05	7.7	84
TP03 - 1.0		2.1	< 0.4	12	7.6	22	< 0.1	5.8	26	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<0.05	7.7	34
TP04 - 0.1		< 2	< 0.4	9.2	5.2	16	< 0.1	< 5	20	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<0.05	8	32
TP04 - 1.0		2.9	< 0.4	17	8.5	21	< 0.1	7.1	26	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<0.05	8.1	81
TP05 - 0.1		6	< 0.4	13	17	27	< 0.1	16	74	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<0.05	9.2	46
TP05 - 1.0		3.1	< 0.4	14	7.1	17	< 0.1	6.4	29	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<0.05	8.5	32
TP06 - 0.1	ENM	4	< 0.4	12	6.8	23	< 0.1	5.4	26	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<0.05	8.4	41
TP06 - 1.0	ENM	4	< 0.4	29	13	14	< 0.1	16	24	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<0.05	7.9	68
Statistics																					
Minimum Concentration		2	-	6	5	10	-	5	13	-	-	-	-	-	-	-	132	-	-	6	14
Maximum Concentration		6	-	29	17	27	-	16	74	-	-	-	-	-	-	-	132	-	-	9	120
Average Concentration *		3	-	12	8	17	-	9	24	-	-	-	-	-	-	-	132	-	-	8	43
Standard Deviation *		1	-	5	3	4	-	4	13	-	-	-	-	-	-	-	0	-	-	1	26

Attachment 2 Laboratory Certificates

CHAIN OF CUSTODY RECORD

ABN 50 005 085 521

☑ Sydney Laboratory
Unit F3 Bld.F, 16 Mars Rd, Lane Cove West, NSW 2066
02 9900 8400 EnviroSampleNSW@eurofins.com

☐ Brisbane Laboratory
Unit 1, 21 Smallwood PL, Murarrie, QLD 4172
07 3902 4600 EnviroSampleQLD@eurofins.com

☐ Perth Laboratory
Unit 2, 91 Leach Highway, Kewdale WA 6105
08 9251 9600 EnviroSampleWA@eurofins.com

☐ Melbourne Laboratory
2 Kingston Town Close, Oakleigh, VIC 3166
03 8564 5000 EnviroSampleVic@eurofins.com

Company	Agon	Project №	-	Project Manager	[redacted]
Address	68 Northbourne Ave, Canberra ACT 2600	Project Name	MBS	EDD Format (ESdat, EQuIS, Custom)	ESDAT
Contact Name	[redacted]			Sampler(s)	[redacted]
Phone №	[redacted]			Handed over by	[redacted]
Special Directions	3 DAY TAT			Email for Invoice	[redacted]@agonenviro.com.au; [redacted]@agonenviro.com.au;
Purchase Order				Email for Results	[redacted]@agonenviro.com.au
Quote ID №	Quotation # 190129AEGA				

Analyses (Note: Where metals are requested, please specify "Total" or "Filtered"; SUITE code must be used to attract SUITE pricing)

Turnaround Time (TAT) Requirements (Default will be 5 days if not ticked)
- ☐ Overnight (9am)*
- ☐ 1 Day*
- ☐ 2 Day*
- ☑ 3 Day*
- ☐ 5 Day
- ☐ Other ( )

* Surcharges apply

№	Client Sample ID	Sampled Date/Time (dd/mm/yy hh:mm)	Matrix (Solid (S) Water (W))		R16 (Total PAHs, B(a)P, BTEX, Total TPH C10-C36)	R16 (Mercury, Cadmium, Lead, Arsenic, Chromium (total), Copper, Nickel, Zinc, Electrical Conductivity, pH)	R16 (Foreign Materials)	Jar (Glass)	Jar (HDPE)	ENM Bag	Bag Acid Sulphate Soil	Small plastic bottle	Vial (headspace)	Plastic bottle (inorganics)	Amber bottle	Sample Comments / Dangerous Goods Hazard Warning
1	FM 01	29/07/22	S				X			1						
2	FM 02	29/07/22	S				X			1						
3	FM 03	29/07/22	S				X			1						
4	FM 04	29/07/22	S				X			1						
5	FM 05	29/07/22	S				X			1						
6	FM 06	29/07/22	S				X			1						
7	FM 07	29/07/22	S				X			1						
8	CSP 01	29/07/22	S			X		1								
9	CSP 02	29/07/22	S			X		1								
10	CSP 03	29/07/22	S			X		1								
11	CSP 04	29/07/22	S			X		1								
12	CSP 05	29/07/22	S			X		1								
13	CSP 06	29/07/22	S			X		1								
14	CSP 07	29/07/22	S			X		1								
15	DSP 01	29/07/22	S		X			1								
16	DSP 02	29/07/22	S		X			1								
17	DSP 03	29/07/22	S		X			1								
18	DSP 04	29/07/22	S		X			1								
19	DSP 05	29/07/22	S		X			1								
20	DSP 06	29/07/22	S		X			1								
21	DSP 07	29/07/22	S		X			1								
22	TP01 - 0.1	29/07/22	S		X	X	X	1		1						
23	TP01 - 1.0	29/07/22	S		X	X	X	1		1						
24	TP02 - 0.1	29/07/22	S		X	X	X	1		1						
25	TP02 - 1.0	29/07/22	S		X	X	X	1		1						
26	TP03 - 0.1	29/07/22	S		X	X	X	1		1						
27	TP03 - 1.0	29/07/22	S		X	X	X	1		1						
28	TP04 - 0.1	29/07/22	S		X	X	X	1		1						
29	TP04 - 1.0	29/07/22	S		X	X	X	1		1						
30	TP05 - 0.1	29/07/22	S		X	X	X	1		1						
31	TP05 - 1.0	29/07/22	S		X	X	X	1		1						
32	TP06 - 0.1	29/07/22	S		X	X	X	1		1						
33	TP06 - 1.0	29/07/22	S		X	X	X	1		1						
34	QC01	29/07/22	S					1								
			Total Counts	-	-	-	2									

Method of Shipment: ☐ Courier (#) ☐ Hand Delivered ☐ Postal | Name

Eurofins | mgt Laboratory Use Only	Received By	[redacted]	(ACT) SYD | BNE | MEL | PER | ADL | NTL | DRW	[redacted]	Date 2.8.22	Time 9.30AM	Temperature 15.3°C	
	Received By		SYD | BNE | MEL | PER | ADL | NTL | DRW		Date _/_/_	Time _:_	Report № 910586.	

Submission of samples to the laboratory will be deemed as acceptance of Eurofins | mgt Standard Terms and Conditions unless agreed otherwise. A copy of Eurofins | mgt Standard Terms and Conditions is available on request.

Eurofins Environment Testing Australia Pty Ltd trading as Eurofins | mgt

eurofins | Environment Testing

Certificate of Analysis

Agon Environmental Pty Ltd - ACT
68 Northbourne Ave
Canberra
ACT 2060

Attention: [redacted] **- ACT Manager**

Report **910586-S**
Project name MBS
Received Date Aug 02, 2022

Client Sample ID			**FM 01**	**FM 02**	**FM 03**	**FM 04**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**R22-Au0003428**	**R22-Au0003429**	**R22-Au0003430**	**R22-Au0003431**
Date Sampled			**Jul 29, 2022**	**Jul 29, 2022**	**Jul 29, 2022**	**Jul 29, 2022**
Test/Reference	LOR	Unit				
Foreign Materials - ENM						
Initial Weight	0.01	kg	7.7	6.3	7.0	6.4
Foreign Material - Type I						
Metal*	0.1	%	< 0.1	< 0.1	< 0.1	< 0.1
Glass*	0.1	%	< 0.1	< 0.1	< 0.1	< 0.1
Asphalt*	0.1	%	< 0.1	< 0.1	< 0.1	< 0.1
Stone*	0.1	%	0.7	4.2	5.8	6.4
Ceramic and slag (other than blast furnace slag)*	0.1	%	< 0.1	< 0.1	< 0.1	< 0.1
Foreign Material - Type II						
Plaster*	0.1	%	< 0.1	< 0.1	< 0.1	< 0.1
Clay lumps and other friable material*	0.1	%	99	96	94	94
Foreign Material - Type III						
Rubber*	0.05	%	< 0.05	< 0.05	< 0.05	< 0.05
Plastic*	0.05	%	< 0.05	< 0.05	< 0.05	< 0.05
Bitumen*	0.05	%	< 0.05	< 0.05	< 0.05	< 0.05
Paper*	0.05	%	< 0.05	< 0.05	< 0.05	< 0.05
Cloth*	0.05	%	< 0.05	< 0.05	< 0.05	< 0.05
Paint*	0.05	%	< 0.05	< 0.05	< 0.05	< 0.05
Wood*	0.05	%	< 0.05	< 0.05	< 0.05	< 0.05
Vegetable matter*	0.05	%	0.08	< 0.05	0.18	0.07

Client Sample ID			**FM 05**	**FM 06**	**FM 07**	**CSP 01**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**R22-Au0003432**	**R22-Au0003433**	**R22-Au0003434**	**R22-Au0003435**
Date Sampled			**Jul 29, 2022**	**Jul 29, 2022**	**Jul 29, 2022**	**Jul 29, 2022**
Test/Reference	LOR	Unit				
Foreign Materials - ENM						
Initial Weight	0.01	kg	6.7	5.9	7.5	-
Foreign Material - Type I						
Metal*	0.1	%	< 0.1	< 0.1	< 0.1	-
Glass*	0.1	%	< 0.1	< 0.1	< 0.1	-
Asphalt*	0.1	%	< 0.1	< 0.1	< 0.1	-
Stone*	0.1	%	9.4	3.9	1.6	-
Ceramic and slag (other than blast furnace slag)*	0.1	%	< 0.1	< 0.1	< 0.1	-

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Client Sample ID			FM 05	FM 06	FM 07	CSP 01
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R22-Au0003432	R22-Au0003433	R22-Au0003434	R22-Au0003435
Date Sampled			Jul 29, 2022	Jul 29, 2022	Jul 29, 2022	Jul 29, 2022
Test/Reference	LOR	Unit				
Foreign Material - Type II						
Plaster*	0.1	%	< 0.1	< 0.1	< 0.1	-
Clay lumps and other friable material*	0.1	%	90	96	98	-
Foreign Material - Type III						
Rubber*	0.05	%	< 0.05	< 0.05	< 0.05	-
Plastic*	0.05	%	< 0.05	< 0.05	< 0.05	-
Bitumen*	0.05	%	< 0.05	< 0.05	< 0.05	-
Paper*	0.05	%	< 0.05	< 0.05	< 0.05	-
Cloth*	0.05	%	< 0.05	< 0.05	< 0.05	-
Paint*	0.05	%	< 0.05	< 0.05	< 0.05	-
Wood*	0.05	%	< 0.05	< 0.05	< 0.05	-
Vegetable matter*	0.05	%	0.20	0.05	0.17	-
Conductivity (1:5 aqueous extract at 25 °C as rec.)	10	uS/cm	-	-	-	21
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	-	-	-	6.8
% Moisture	1	%	-	-	-	6.1
Metals M8						
Arsenic	2	mg/kg	-	-	-	2.1
Cadmium	0.4	mg/kg	-	-	-	< 0.4
Chromium	5	mg/kg	-	-	-	7.3
Copper	5	mg/kg	-	-	-	< 5
Lead	5	mg/kg	-	-	-	11
Mercury	0.1	mg/kg	-	-	-	< 0.1
Nickel	5	mg/kg	-	-	-	< 5
Zinc	5	mg/kg	-	-	-	15

Client Sample ID			CSP 02	CSP 03	CSP 04	CSP 05
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R22-Au0003436	R22-Au0003437	R22-Au0003438	R22-Au0003439
Date Sampled			Jul 29, 2022	Jul 29, 2022	Jul 29, 2022	Jul 29, 2022
Test/Reference	LOR	Unit				
Conductivity (1:5 aqueous extract at 25 °C as rec.)	10	uS/cm	35	23	34	22
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	6.6	7.1	6.8	6.1
% Moisture	1	%	7.7	3.9	7.5	8.7
Metals M8						
Arsenic	2	mg/kg	2.4	< 2	< 2	4.8
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	8.6	5.6	8.7	15
Copper	5	mg/kg	< 5	< 5	< 5	7.5
Lead	5	mg/kg	13	9.6	16	17
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	< 5	< 5	< 5
Zinc	5	mg/kg	19	13	21	22

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Client Sample ID			CSP 06	CSP 07	DSP 01	DSP 02
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R22-Au0003440	R22-Au0003441	R22-Au0003442	R22-Au0003443
Date Sampled			Jul 29, 2022	Jul 29, 2022	Jul 29, 2022	Jul 29, 2022
Test/Reference	LOR	Unit				
Conductivity (1:5 aqueous extract at 25 °C as rec.)	10	uS/cm	14	19	-	-
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	6.5	6.5	-	-
% Moisture	1	%	11	11	8.4	6.9
Metals M8						
Arsenic	2	mg/kg	2.1	< 2	-	-
Cadmium	0.4	mg/kg	< 0.4	< 0.4	-	-
Chromium	5	mg/kg	13	7.2	-	-
Copper	5	mg/kg	6.0	< 5	-	-
Lead	5	mg/kg	19	16	-	-
Mercury	0.1	mg/kg	< 0.1	< 0.1	-	-
Nickel	5	mg/kg	6.0	< 5	-	-
Zinc	5	mg/kg	30	18	-	-
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	-	< 20	< 20
TRH C10-C14	20	mg/kg	-	-	< 20	< 20
TRH C15-C28	50	mg/kg	-	-	< 50	< 50
TRH C29-C36	50	mg/kg	-	-	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	-	-	< 50	< 50
BTEX						
Benzene	0.1	mg/kg	-	-	< 0.1	< 0.1
Toluene	0.1	mg/kg	-	-	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	-	-	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	-	-	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	-	61	131
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	-	< 0.5	< 0.5
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	-	< 50	< 50
TRH C6-C10	20	mg/kg	-	-	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	-	< 20	< 20
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	-	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	-	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	-	1.2	1.2
Acenaphthene	0.5	mg/kg	-	-	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	-	-	< 0.5	< 0.5
Anthracene	0.5	mg/kg	-	-	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	-	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	-	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	-	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	-	-	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	-	< 0.5	< 0.5
Chrysene	0.5	mg/kg	-	-	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	-	-	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	-	-	< 0.5	< 0.5
Fluorene	0.5	mg/kg	-	-	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	-	< 0.5	< 0.5

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Client Sample ID			CSP 06	CSP 07	DSP 01	DSP 02
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R22-Au0003440	R22-Au0003441	R22-Au0003442	R22-Au0003443
Date Sampled			Jul 29, 2022	Jul 29, 2022	Jul 29, 2022	Jul 29, 2022
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Naphthalene	0.5	mg/kg	-	-	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	-	-	< 0.5	< 0.5
Pyrene	0.5	mg/kg	-	-	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	-	-	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	-	-	95	93
p-Terphenyl-d14 (surr.)	1	%	-	-	87	83
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	50	mg/kg	-	-	< 50	< 50
TRH >C16-C34	100	mg/kg	-	-	< 100	< 100
TRH >C34-C40	100	mg/kg	-	-	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	-	< 100	< 100

Client Sample ID			DSP 03	DSP 04	DSP 05	DSP 06
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R22-Au0003444	R22-Au0003445	R22-Au0003446	R22-Au0003447
Date Sampled			Jul 29, 2022	Jul 29, 2022	Jul 29, 2022	Jul 29, 2022
Test/Reference	LOR	Unit				
% Moisture	1	%	3.5	7.1	9.1	8.7
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	87	113	85	89
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

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Client Sample ID			DSP 03	DSP 04	DSP 05	DSP 06
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R22-Au0003444	R22-Au0003445	R22-Au0003446	R22-Au0003447
Date Sampled			Jul 29, 2022	Jul 29, 2022	Jul 29, 2022	Jul 29, 2022
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	88	86	94	86
p-Terphenyl-d14 (surr.)	1	%	78	82	89	79
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100

Client Sample ID			DSP 07	TP01 - 0.1	TP01 - 1.0	TP02 - 0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R22-Au0003448	R22-Au0003449	R22-Au0003450	R22-Au0003451
Date Sampled			Jul 29, 2022	Jul 29, 2022	Jul 29, 2022	Jul 29, 2022
Test/Reference	LOR	Unit				
Foreign Materials - ENM						
Initial Weight	0.01	kg	-	6.4	6.1	5.5
Foreign Material - Type I						
Metal*	0.1	%	-	< 0.1	< 0.1	< 0.1
Glass*	0.1	%	-	< 0.1	< 0.1	< 0.1
Asphalt*	0.1	%	-	< 0.1	< 0.1	< 0.1
Stone*	0.1	%	-	2.9	< 0.1	1.0
Ceramic and slag (other than blast furnace slag)*	0.1	%	-	< 0.1	< 0.1	< 0.1
Foreign Material - Type II						
Plaster*	0.1	%	-	< 0.1	< 0.1	< 0.1
Clay lumps and other friable material*	0.1	%	-	97	100	99
Foreign Material - Type III						
Rubber*	0.05	%	-	< 0.05	< 0.05	< 0.05
Plastic*	0.05	%	-	< 0.05	< 0.05	< 0.05
Bitumen*	0.05	%	-	< 0.05	< 0.05	< 0.05
Paper*	0.05	%	-	< 0.05	< 0.05	< 0.05
Cloth*	0.05	%	-	< 0.05	< 0.05	< 0.05
Paint*	0.05	%	-	< 0.05	< 0.05	< 0.05
Wood*	0.05	%	-	< 0.05	< 0.05	< 0.05
Vegetable matter*	0.05	%	-	0.07	< 0.05	0.06

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Client Sample ID			DSP 07	TP01 - 0.1	TP01 - 1.0	TP02 - 0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R22-Au0003448	R22-Au0003449	R22-Au0003450	R22-Au0003451
Date Sampled			Jul 29, 2022	Jul 29, 2022	Jul 29, 2022	Jul 29, 2022
Test/Reference	LOR	Unit				
Conductivity (1:5 aqueous extract at 25 °C as rec.)	10	uS/cm	-	53	120	33
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	-	8.2	8.6	8.2
% Moisture	1	%	5.9	15	21	19
Metals M8						
Arsenic	2	mg/kg	-	2.6	2.1	3.2
Cadmium	0.4	mg/kg	-	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	-	13	8.9	13
Copper	5	mg/kg	-	9.9	5.4	7.4
Lead	5	mg/kg	-	22	11	18
Mercury	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	-	11	< 5	< 5
Zinc	5	mg/kg	-	24	18	15
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	53	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	79	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	132	< 50	< 50	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	103	113	130	130
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

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Client Sample ID			DSP 07	TP01 - 0.1	TP01 - 1.0	TP02 - 0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R22-Au0003448	R22-Au0003449	R22-Au0003450	R22-Au0003451
Date Sampled			Jul 29, 2022	Jul 29, 2022	Jul 29, 2022	Jul 29, 2022
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	90	78	79	86
p-Terphenyl-d14 (surr.)	1	%	93	78	78	81
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	110	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	110	< 100	< 100	< 100

Client Sample ID			TP02 - 1.0	TP03 - 0.1	TP03 - 1.0	TP04 - 0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R22-Au0003452	R22-Au0003453	R22-Au0003454	R22-Au0003455
Date Sampled			Jul 29, 2022	Jul 29, 2022	Jul 29, 2022	Jul 29, 2022
Test/Reference	LOR	Unit				
Foreign Materials - ENM						
Initial Weight	0.01	kg	6.1	5.3	4.4	5.7
Foreign Material - Type I						
Metal*	0.1	%	< 0.1	< 0.1	< 0.1	< 0.1
Glass*	0.1	%	< 0.1	< 0.1	< 0.1	< 0.1
Asphalt*	0.1	%	< 0.1	< 0.1	< 0.1	< 0.1
Stone*	0.1	%	1.0	1.3	< 0.1	0.7
Ceramic and slag (other than blast furnace slag)*	0.1	%	< 0.1	< 0.1	< 0.1	< 0.1
Foreign Material - Type II						
Plaster*	0.1	%	< 0.1	< 0.1	< 0.1	< 0.1
Clay lumps and other friable material*	0.1	%	99	99	100	99
Foreign Material - Type III						
Rubber*	0.05	%	< 0.05	< 0.05	< 0.05	< 0.05
Plastic*	0.05	%	< 0.05	< 0.05	< 0.05	< 0.05
Bitumen*	0.05	%	< 0.05	< 0.05	< 0.05	< 0.05
Paper*	0.05	%	< 0.05	< 0.05	< 0.05	< 0.05
Cloth*	0.05	%	< 0.05	< 0.05	< 0.05	< 0.05
Paint*	0.05	%	< 0.05	< 0.05	< 0.05	< 0.05
Wood*	0.05	%	< 0.05	< 0.05	< 0.05	< 0.05
Vegetable matter*	0.05	%	< 0.05	0.15	< 0.05	0.07
Conductivity (1:5 aqueous extract at 25 °C as rec.)	10	uS/cm	28	84	34	32
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	8.0	7.7	7.7	8.0
% Moisture	1	%	8.3	6.6	15	11
Metals M8						
Arsenic	2	mg/kg	< 2	2.3	2.1	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	11	9.6	12	9.2
Copper	5	mg/kg	5.3	5.8	7.6	5.2

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Client Sample ID			TP02 - 1.0	TP03 - 0.1	TP03 - 1.0	TP04 - 0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R22-Au0003452	R22-Au0003453	R22-Au0003454	R22-Au0003455
Date Sampled			Jul 29, 2022	Jul 29, 2022	Jul 29, 2022	Jul 29, 2022
Test/Reference	LOR	Unit				
Metals M8						
Lead	5	mg/kg	13	17	22	16
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	< 5	5.8	< 5
Zinc	5	mg/kg	19	20	26	20
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	114	92	87	121
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	84	88	90	74
p-Terphenyl-d14 (surr.)	1	%	76	83	86	68

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Client Sample ID			TP02 - 1.0	TP03 - 0.1	TP03 - 1.0	TP04 - 0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R22-Au0003452	R22-Au0003453	R22-Au0003454	R22-Au0003455
Date Sampled			Jul 29, 2022	Jul 29, 2022	Jul 29, 2022	Jul 29, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100

Client Sample ID			TP04 - 1.0	TP05 - 0.1	TP05 - 1.0	TP06 - 0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R22-Au0003456	R22-Au0003457	R22-Au0003458	R22-Au0003459
Date Sampled			Jul 29, 2022	Jul 29, 2022	Jul 29, 2022	Jul 29, 2022
Test/Reference	LOR	Unit				
Foreign Materials - ENM						
Initial Weight	0.01	kg	5.8	5.8	5.6	6.9
Foreign Material - Type I						
Metal*	0.1	%	< 0.1	< 0.1	< 0.1	< 0.1
Glass*	0.1	%	< 0.1	< 0.1	< 0.1	< 0.1
Asphalt*	0.1	%	< 0.1	< 0.1	< 0.1	< 0.1
Stone*	0.1	%	1.3	2.3	1.0	0.8
Ceramic and slag (other than blast furnace slag)*	0.1	%	< 0.1	< 0.1	< 0.1	< 0.1
Foreign Material - Type II						
Plaster*	0.1	%	< 0.1	< 0.1	< 0.1	< 0.1
Clay lumps and other friable material*	0.1	%	99	98	99	99
Foreign Material - Type III						
Rubber*	0.05	%	< 0.05	< 0.05	< 0.05	< 0.05
Plastic*	0.05	%	< 0.05	< 0.05	< 0.05	< 0.05
Bitumen*	0.05	%	< 0.05	< 0.05	< 0.05	< 0.05
Paper*	0.05	%	< 0.05	< 0.05	< 0.05	< 0.05
Cloth*	0.05	%	< 0.05	< 0.05	< 0.05	< 0.05
Paint*	0.05	%	< 0.05	< 0.05	< 0.05	< 0.05
Wood*	0.05	%	< 0.05	< 0.05	< 0.05	< 0.05
Vegetable matter*	0.05	%	< 0.05	0.05	< 0.05	0.05
Conductivity (1:5 aqueous extract at 25 °C as rec.)	10	uS/cm	81	46	32	41
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	8.1	9.2	8.5	8.4
% Moisture	1	%	16	11	11	7.8
Metals M8						
Arsenic	2	mg/kg	2.9	6.0	3.1	4.0
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	17	13	14	12
Copper	5	mg/kg	8.5	17	7.1	6.8
Lead	5	mg/kg	21	27	17	23
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	7.1	16	6.4	5.4
Zinc	5	mg/kg	26	74	29	26

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Client Sample ID			TP04 - 1.0	TP05 - 0.1	TP05 - 1.0	TP06 - 0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R22-Au0003456	R22-Au0003457	R22-Au0003458	R22-Au0003459
Date Sampled			Jul 29, 2022	Jul 29, 2022	Jul 29, 2022	Jul 29, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	91	74	112	116
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	89	74	118	100
p-Terphenyl-d14 (surr.)	1	%	79	68	100	83
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100

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Client Sample ID			TP06 - 1.0
Sample Matrix			Soil
Eurofins Sample No.			R22-Au0003460
Date Sampled			Jul 29, 2022
Test/Reference	LOR	Unit	
Foreign Materials - ENM			
Initial Weight	0.01	kg	4.9
Foreign Material - Type I			
Metal*	0.1	%	< 0.1
Glass*	0.1	%	< 0.1
Asphalt*	0.1	%	< 0.1
Stone*	0.1	%	0.5
Ceramic and slag (other than blast furnace slag)*	0.1	%	< 0.1
Foreign Material - Type II			
Plaster*	0.1	%	< 0.1
Clay lumps and other friable material*	0.1	%	99
Foreign Material - Type III			
Rubber*	0.05	%	< 0.05
Plastic*	0.05	%	< 0.05
Bitumen*	0.05	%	< 0.05
Paper*	0.05	%	< 0.05
Cloth*	0.05	%	< 0.05
Paint*	0.05	%	< 0.05
Wood*	0.05	%	< 0.05
Vegetable matter*	0.05	%	< 0.05
Conductivity (1:5 aqueous extract at 25 °C as rec.)	10	uS/cm	68
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	7.9
% Moisture	1	%	15
Metals M8			
Arsenic	2	mg/kg	4.0
Cadmium	0.4	mg/kg	< 0.4
Chromium	5	mg/kg	29
Copper	5	mg/kg	13
Lead	5	mg/kg	14
Mercury	0.1	mg/kg	< 0.1
Nickel	5	mg/kg	16
Zinc	5	mg/kg	24
Total Recoverable Hydrocarbons - 1999 NEPM Fractions			
TRH C6-C9	20	mg/kg	< 20
TRH C10-C14	20	mg/kg	< 20
TRH C15-C28	50	mg/kg	< 50
TRH C29-C36	50	mg/kg	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50
BTEX			
Benzene	0.1	mg/kg	< 0.1
Toluene	0.1	mg/kg	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2
o-Xylene	0.1	mg/kg	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3
4-Bromofluorobenzene (surr.)	1	%	100

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Client Sample ID			TP06 - 1.0
Sample Matrix			Soil
Eurofins Sample No.			R22-Au0003460
Date Sampled			Jul 29, 2022
Test/Reference	LOR	Unit	
Total Recoverable Hydrocarbons - 2013 NEPM Fractions			
Naphthalene[N02]	0.5	mg/kg	< 0.5
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50
TRH C6-C10	20	mg/kg	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20
Polycyclic Aromatic Hydrocarbons			
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2
Acenaphthene	0.5	mg/kg	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5
Anthracene	0.5	mg/kg	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5
Chrysene	0.5	mg/kg	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5
Fluorene	0.5	mg/kg	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5
Naphthalene	0.5	mg/kg	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5
Pyrene	0.5	mg/kg	< 0.5
Total PAH*	0.5	mg/kg	< 0.5
2-Fluorobiphenyl (surr.)	1	%	96
p-Terphenyl-d14 (surr.)	1	%	86
Total Recoverable Hydrocarbons - 2013 NEPM Fractions			
TRH >C10-C16	50	mg/kg	< 50
TRH >C16-C34	100	mg/kg	< 100
TRH >C34-C40	100	mg/kg	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100

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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
Foreign Material - Type I	Sydney	Aug 02, 2022	180 Days
- Method: RMS Method T276			
Foreign Material - Type II	Sydney	Aug 02, 2022	180 Days
- Method: RMS Method T276			
Foreign Material - Type III	Sydney	Aug 02, 2022	180 Days
- Method: RMS Method T276			
Conductivity (1:5 aqueous extract at 25 °C as rec.)	Sydney	Aug 04, 2022	7 Days
- Method: LTM-INO-4030 Conductivity			
pH (1:5 Aqueous extract at 25 °C as rec.)	Sydney	Aug 04, 2022	7 Days
- Method: LTM-GEN-7090 pH by ISE			
Metals M8	Sydney	Aug 04, 2022	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
% Moisture	Sydney	Aug 02, 2022	14 Days
- Method: LTM-GEN-7080 Moisture			
Eurofins Suite B4			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Aug 04, 2022	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	Aug 04, 2022	14 Days
- Method: LTM-ORG-2010 BTEX and Volatile TRH			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Aug 04, 2022	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Polycyclic Aromatic Hydrocarbons	Sydney	Aug 04, 2022	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Aug 04, 2022	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			

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Company Name: Agon Environmental Pty Ltd - ACT
Address: 68 Northbourne Ave
Canberra
ACT 2060

Project Name: MBS

Order No.:
Report #: 910586
Phone:
Fax:

Received: Aug 2, 2022 9:30 AM
Due: Aug 5, 2022
Priority: 3 Day
Contact Name: [redacted] - ACT Manager

Eurofins Analytical Services Manager : [redacted]

Sample Detail						Conductivity (1:5 aqueous extract at 25 °C as rec.)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Metals M8	Foreign Materials - ENM	Moisture Set	Eurofins Suite B4
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X
External Laboratory												
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**							
1	FM 01	Jul 29, 2022		Soil	R22-Au0003428					X		
2	FM 02	Jul 29, 2022		Soil	R22-Au0003429					X		
3	FM 03	Jul 29, 2022		Soil	R22-Au0003430					X		
4	FM 04	Jul 29, 2022		Soil	R22-Au0003431					X		
5	FM 05	Jul 29, 2022		Soil	R22-Au0003432					X		
6	FM 06	Jul 29, 2022		Soil	R22-Au0003433					X		
7	FM 07	Jul 29, 2022		Soil	R22-Au0003434					X		
8	CSP 01	Jul 29, 2022		Soil	R22-Au0003435	X		X	X		X	
9	CSP 02	Jul 29, 2022		Soil	R22-Au0003436	X		X	X		X	
10	CSP 03	Jul 29, 2022		Soil	R22-Au0003437	X		X	X		X	
11	CSP 04	Jul 29, 2022		Soil	R22-Au0003438	X		X	X		X	
12	CSP 05	Jul 29, 2022		Soil	R22-Au0003439	X		X	X		X	
13	CSP 06	Jul 29, 2022		Soil	R22-Au0003440	X		X	X		X	
14	CSP 07	Jul 29, 2022		Soil	R22-Au0003441	X		X	X		X	

Date Reported:Aug 08, 2022

Date Reported:Aug 08, 2022

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Contact Name: [redacted] - ACT Manager

Eurofins Analytical Services Manager : [redacted]

Sample Detail						Conductivity (1:5 aqueous extract at 25 °C as rec.)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Metals M8	Foreign Materials - ENM	Moisture Set	Eurofins Suite B4
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X
15	DSP 01	Jul 29, 2022		Soil	R22-Au0003442						X	X
16	DSP 02	Jul 29, 2022		Soil	R22-Au0003443						X	X
17	DSP 03	Jul 29, 2022		Soil	R22-Au0003444						X	X
18	DSP 04	Jul 29, 2022		Soil	R22-Au0003445						X	X
19	DSP 05	Jul 29, 2022		Soil	R22-Au0003446						X	X
20	DSP 06	Jul 29, 2022		Soil	R22-Au0003447						X	X
21	DSP 07	Jul 29, 2022		Soil	R22-Au0003448						X	X
22	TP01 - 0.1	Jul 29, 2022		Soil	R22-Au0003449	X		X	X	X	X	X
23	TP01 - 1.0	Jul 29, 2022		Soil	R22-Au0003450	X		X	X	X	X	X
24	TP02 - 0.1	Jul 29, 2022		Soil	R22-Au0003451	X		X	X	X	X	X
25	TP02 - 1.0	Jul 29, 2022		Soil	R22-Au0003452	X		X	X	X	X	X
26	TP03 - 0.1	Jul 29, 2022		Soil	R22-Au0003453	X		X	X	X	X	X
27	TP03 - 1.0	Jul 29, 2022		Soil	R22-Au0003454	X		X	X	X	X	X
28	TP04 - 0.1	Jul 29, 2022		Soil	R22-Au0003455	X		X	X	X	X	X
29	TP04 - 1.0	Jul 29, 2022		Soil	R22-Au0003456	X		X	X	X	X	X
30	TP05 - 0.1	Jul 29, 2022		Soil	R22-Au0003457	X		X	X	X	X	X

Date Reported:Aug 08, 2022

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Eurofins Analytical Services Manager :

Sample Detail						Conductivity (1:5 aqueous extract at 25 °C as rec.)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Metals M8	Foreign Materials - ENM	Moisture Set	Eurofins Suite B4
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X
31	TP05 - 1.0	Jul 29, 2022		Soil	R22-Au0003458	X		X	X	X	X	X
32	TP06 - 0.1	Jul 29, 2022		Soil	R22-Au0003459	X		X	X	X	X	X
33	TP06 - 1.0	Jul 29, 2022		Soil	R22-Au0003460	X		X	X	X	X	X
34	QC01	Jul 29, 2022		Soil	R22-Au0003461		X					
Test Counts						19	1	19	19	19	26	19

Date Reported:Aug 08, 2022

Date Reported:Aug 08, 2022

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Internal Quality Control Review and Glossary

General

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

Holding Times

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

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

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

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

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

Units

mg/kg: milligrams per kilogram
mg/L: milligrams per litre
µg/L: micrograms per litre
ppm: parts per million
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

Terms

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

QC - Acceptance Criteria

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

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

Results <10 times the LOR: No Limit

Results between 10-20 times the LOR: RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

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

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

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

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QC Data General Comments

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

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Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Conductivity (1:5 aqueous extract at 25 °C as rec.)	uS/cm	< 10			10	Pass	
Method Blank							
Metals M8							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
Method Blank							
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	
Total PAH*	mg/kg	-			0.5	N/A	
LCS - % Recovery							
Conductivity (1:5 aqueous extract at 25 °C as rec.)	%	92			70-130	Pass	
LCS - % Recovery							
Metals M8							
Arsenic	%	91			80-120	Pass	
Cadmium	%	91			80-120	Pass	
Chromium	%	92			80-120	Pass	
Copper	%	91			80-120	Pass	
Lead	%	91			80-120	Pass	
Mercury	%	119			80-120	Pass	
Nickel	%	90			80-120	Pass	
Zinc	%	89			80-120	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	109			70-130	Pass	
Acenaphthylene	%	91			70-130	Pass	
Anthracene	%	96			70-130	Pass	
Benz(a)anthracene	%	97			70-130	Pass	
Benzo(a)pyrene	%	107			70-130	Pass	
Benzo(b&j)fluoranthene	%	113			70-130	Pass	
Chrysene	%	101			70-130	Pass	

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Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Fluoranthene			%	96			70-130	Pass	
Fluorene			%	100			70-130	Pass	
Naphthalene			%	100			70-130	Pass	
Phenanthrene			%	92			70-130	Pass	
Pyrene			%	107			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Spike - % Recovery									
Metals M8				Result 1					
Arsenic	N22-Jl0039712	NCP	%	117			75-125	Pass	
Cadmium	N22-Jl0039712	NCP	%	113			75-125	Pass	
Chromium	N22-Jl0039712	NCP	%	116			75-125	Pass	
Copper	N22-Jl0039712	NCP	%	117			75-125	Pass	
Lead	N22-Jl0039712	NCP	%	112			75-125	Pass	
Mercury	S22-Au0003383	NCP	%	86			75-125	Pass	
Nickel	N22-Jl0039712	NCP	%	117			75-125	Pass	
Zinc	N22-Jl0039712	NCP	%	116			75-125	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S22-Au0006731	NCP	%	105			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S22-Au0006731	NCP	%	101			70-130	Pass	
Toluene	S22-Au0006731	NCP	%	103			70-130	Pass	
Ethylbenzene	S22-Au0006731	NCP	%	100			70-130	Pass	
m&p-Xylenes	S22-Au0006731	NCP	%	106			70-130	Pass	
o-Xylene	S22-Au0006731	NCP	%	106			70-130	Pass	
Xylenes - Total*	S22-Au0006731	NCP	%	106			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S22-Au0006731	NCP	%	81			70-130	Pass	
TRH C6-C10	S22-Au0006731	NCP	%	105			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C10-C14	R22-Au0003450	CP	%	130			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH >C10-C16	R22-Au0003450	CP	%	125			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
				Result 1	Result 2	RPD			
Conductivity (1:5 aqueous extract at 25 °C as rec.)	S22-Au0006662	NCP	uS/cm	120	110	2.2	30%	Pass	
pH (1:5 Aqueous extract at 25 °C as rec.)	S22-Au0006662	NCP	pH Units	6.7	6.4	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	R22-Au0003441	CP	%	11	9.1	21	30%	Pass	
Duplicate									
Metals M8				Result 1	Result 2	RPD			
Arsenic	R22-Au0003441	CP	mg/kg	< 2	2.0	19	30%	Pass	
Cadmium	R22-Au0003441	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	R22-Au0003441	CP	mg/kg	7.2	7.8	7.5	30%	Pass	
Copper	R22-Au0003441	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Lead	R22-Au0003441	CP	mg/kg	16	16	1.3	30%	Pass	

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Duplicate									
Metals M8				Result 1	Result 2	RPD			
Mercury	R22-Au0003441	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	R22-Au0003441	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Zinc	R22-Au0003441	CP	mg/kg	18	18	1.6	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	R22-Au0003449	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	R22-Au0003449	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	R22-Au0003449	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	R22-Au0003449	CP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	R22-Au0003449	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	R22-Au0003449	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	R22-Au0003449	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	R22-Au0003449	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	R22-Au0003449	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	R22-Au0003449	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	R22-Au0003449	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	R22-Au0003449	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
TRH >C10-C16	R22-Au0003449	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	R22-Au0003449	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	R22-Au0003449	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	R22-Au0003451	CP	%	19	21	9.3	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Conductivity (1:5 aqueous extract at 25 °C as rec.)	R22-Au0003455	CP	uS/cm	32	36	12	30%	Pass	Q15
pH (1:5 Aqueous extract at 25 °C as rec.)	R22-Au0003455	CP	pH Units	8.0	8.0	<1	30%	Pass	
Duplicate									
Metals M8				Result 1	Result 2	RPD			
Arsenic	R22-Au0003458	CP	mg/kg	3.1	2.7	12	30%	Pass	
Cadmium	R22-Au0003458	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	R22-Au0003458	CP	mg/kg	14	14	<1	30%	Pass	
Copper	R22-Au0003458	CP	mg/kg	7.1	7.2	<1	30%	Pass	
Lead	R22-Au0003458	CP	mg/kg	17	16	5.2	30%	Pass	
Mercury	R22-Au0003458	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	R22-Au0003458	CP	mg/kg	6.4	5.9	8.4	30%	Pass	
Zinc	R22-Au0003458	CP	mg/kg	29	31	8.5	30%	Pass	

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Comments

Sample Integrity

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

Qualifier Codes/Comments

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

[redacted]

Analytical Services Manager
Senior Analyst-Metal
Senior Analyst-Organic
Senior Analyst-Volatile
Senior Analyst-Inorganic

[redacted]

[redacted]

General Manager

- 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.

ACT Government

NOTICE OF DECISION

Made under part 7 of the *Planning and Development Act 2007*

I, Chris Gell, delegate of the planning and land authority, pursuant to section 162 of the *Planning and Development Act 2007,* **approve subject to conditions**, the proposal for **the construction of 30 new apartments with basement carparking, landscaping, tree removal and associated works,** to be used as **supportive housing**, at Block 1 Section 80 Greenway, in accordance with the plans, drawings and other documentation approved and endorsed as forming part of this approval.

DA Number:	202037677
Block:	1
Section:	80
Suburb:	Greenway
Application lodged:	27 January 2021
Assessment track:	Merit

This decision contains the following information:
Part A – conditions of approval
Part B– reasons for the Decision
Part C – public notification & entity advice
Attachment 1 – administrative information
Attachment 2 – TCCS Standard Conditions

A copy of the development application and this approval may be inspected at the planning and land authority's office from 9.00 am to 4.00 pm, Monday to Friday at 480 Northbourne Avenue, Dickson, ACT 2602

CONTACT / ENQUIRIES

Phone: (02) 6207 6383
Online Form:
https://www.accesscanberra.act.gov.au/app/forms/epd_feedback

Chris Gell
Delegate of the planning and land authority
13 August 2021

PART A – CONDITIONS OF APPROVAL

This application is approved subject to the following conditions being satisfied. Some conditions of the approval require attention before work commences or before approved drawings will be released.

1. APPROVAL DOES NOT TAKE EFFECT - GRANT OF CROWN LEASE

   This approval does not take effect until a Crown lease that permits the approved development is granted over Block 1 Section 80 Division of Greenway and registered at Access Canberra (Land Titles and Rental Bonds).

2. COMPLIANCE WITH CONDITION – APPROVAL NOT TO TAKE EFFECT

   In accordance with Section 184(2)(a) of the *Planning and Development Act 2007*, this approval will end if the lessee has complied with **Condition A1** above and commenced the approved construction and/or demolition on the site within 24 months of the date of this decision.

3. COMMENCEMENT AND COMPLETION OF DEVELOPMENT

   a) This development must be started (commenced) within three years from the date when this approval takes effect.
   b) This development must be finished (completed) within three years from the date when it is started, or within such further time as approved in writing by the planning and land authority.

   Note: The planning and land authority may only extend the time to finish the development if an application, to extend the time to finish the development, is made prior to when the development has to be finished – refer to section 184(3) of the Planning and Development Act 2007.

4. FURTHER INFORMATION

   Within 28 days from the date of this decision, or within such further time as may be approved in writing by the planning and land authority, the applicant shall lodge with the planning and land authority for approval. Revised site plan, landscape plan and architectural drawings, based on the relevant drawings submitted as part of the application, showing:

   a) the excessive height (2.7m) of Building 1 letterbox structure reduced or further justification must be provided to the satisfaction of the planning and land authority; and

   b) Unit G.9 balcony (Building 2) within the 4m setback to comply with the mandatory Rule19A of the Greenway Precinct Map and Code and the definition of a Dwelling.
   Note: The current proposal shows part of the Unit G.9 balcony is encroaching into the 4m setback.

   Note: Revised plans and documentation to meet the above conditions need to be submitted for the consideration of the planning and land authority under s165 of the Planning and Development Act 2007. However, if there are any substantial changes to the development, it will need to be submitted for the consideration of the planning and land authority with an application to amend the approval under s197 of the Planning and Development Act 2007.

5. TRANSPORT CANBERRA AND CITY SERVICES (TCCS)

The development shall comply with the following conditions to the satisfaction of TCCS:

DRIVEWAYS / VERGE CROSSINGS

a) It appears that some architectural and civil drawings are showing “Exit Only” at the south eastern verge crossings. Please remove it, and replaced with “WASTE TRUCK ENTRY ONLY” on all relevant drawings.

b) The verge crossings must be designed and constructed in accordance with TCCS MIS Design Standards.

c) The levels on the verge must not be altered as a result of the new constructed verge crossings.

d) Any infrastructure assets such as street lighting, mini-pillars, signage, etc, must be a minimum of 1.5m away from the closest edge of the driveway. In the case of stormwater sumps this minimum distance is 1.2m.

e) Maximum gradient for the first 6m of the access driveway within the block boundary must not exceed 5% in accordance with the Section 3.3 of the Australian Standard for Parking facilities AS 2890.1 Off-street Car Parking.

f) The proponent must demonstrate that adequate queuing area is provided at the control points of the car park entry in accordance with section 3.4 of the Australian Standard 2890.1 and TCCS Engineering Advisory Note (EAN) 06 : Queuing at Carpark Entrances. This is to ensure that no queuing on the public road will occur and traffic operation on the public road will not be impacted.

PEDESTRIAN NETWORK

g) The pedestrian walkway / footpath must take precedence over the verge crossings.

h) All verge protective fencing must be placed in a way such that the verge is protected but access to the pedestrian network is maintained at all times.

i) Adequate clearance must be provided for pedestrian walkway / footpath in accordance with the TCCS MIS Design Standards.

j) The proposed path links to the existing pedestrian networks must be installed in accordance with TCCS drawing ACTSD-0501 which requires 100mm thick concrete with SL82 centrally placed reinforcement. The paths must be appropriately jointed to the existing pedestrian path subject to Design Review approval. The path connections remain the responsibility of the developer.

LMPP / STREET TREES

k) There must be no encroachments on Territory Land.

l) All shrubs proposed within the lease boundary must be set back adequately and planted so that it won’t encroach beyond the lease boundary of the property into unleased Territory land known as Public Open Space.

m) The proponent must engage a Landscape Architect or Consulting Arborist, approved by TCCS Urban Treescapes, to supervise and document all works within Tree Protection Zones (TPZ). The plans must document all works requiring tree protection measures and superintendence by the Landscape Architect or Consulting Arborist within TPZ’s.

n) All excavation within the Tree Protection Zones (TPZ) of the verge trees must be carried out by hand dig, hydro excavation or other recommended methods to ensure minimal damage to the tree roots.

o) All tree plantings/relocation must be carried out by a landscape contractor with horticultural expertise. A 12 month consolidation period is required prior to formal handover to TCCS.

p) The trunk of all trees must be a minimum of 3m away from the new verge crossings and this must be dimensioned on the plans.

STORMWATER

q) Only one stormwater tie must be used for all the developments within a single block.

r) The floor level / habitable area of the proposed development must be above 100 year ARI flood level plus minimum 300mm freeboard.

WASTE

s) General Arrangement Plan & Notes (7661-DA C01 Rev B) and some other Indesco's drawings. Waste collection must not occur on or near a pedestrian crossing whether it is on a public road or onsite. This is a safety issue. Hence the proposed pedestrian crossing in front of the waste enclosure is not supported. The Proponent agreed to remove it (see attached email for more details).

STREETLIGHT

t) If the proposed distance of relocation is more than 5.0m (7.0m this case – Driveway Plan and Ramp Section Details 7661-DA C17 Rev B) than the applicant must provide lighting design.

u) The column, outreach arm and luminaire must comply with TCCS standards – if the existing streetlight is non-compliant than it must be replaced with the compliant one as per the EAN 18 https://www.cityservices.act.gov.au/__data/assets/pdf_file/0006/1786587/EAN-18-Relocation-of-streetlight-columns.pdf

v) The setbacks and the location of the proposed SL, must be assessed at the Design Review stage and Letter of Design Review (LoDR) must be obtained.

w) When booking isolation copy of the LoDR must be provided together with WAE drawings.

x) To ensure compliance, certificate of Operational Acceptance to be obtained after completion of works.

RETAINING WALLS

y) All retaining walls and associated foundations must be constructed within the block boundary.

z) Drainage through retaining walls / weep holes must be connected to the stormwater network and must fall within the block boundary.

Note: Standard TCCS conditions (attached to this Notice of Decision) also apply.

6. TREE PROTECTION UNIT (TPU)

All works must proceed in accordance with the following plan/s:

- Tree Management Plan, Job No. 1919, Issue. A, Rev A, Dated 8.09.20. as the trees proposed for removal are non-regulated or meet a removal criteria.

7. COMPLIANCE WITH ENTITY REQUIREMENTS

The development must comply with all the conditions imposed by each of the relevant entities as stated in each of their advice.

Note - Entity advice (not included as conditions above) is attached to this Notice of Decision for reference and compliance with this condition.

8. ENVIRONMENT PROTECTION AUTHORITY (EPA)

The development shall comply with the following conditions to the satisfaction of the EPA.

a) All spoil identified at the site must be managed in accordance with EPA *Information Sheet – Spoil Management in the ACT* available at www.environment.act.gov.au.

b) All soil subject to disposal from the site must be assessed in accordance with EPA *Information Sheet 4 - Requirements for the reuse and disposal of contaminated soil in the ACT* available at www.environment.act.gov.au.

c) No soil is to be disposed from site without EPA approval.

9. FENCE TRANSPARENCY

The pool type fence proposed to the west and north-west boundary must have a minimum transparency of 75%.

10. FENCING

a) Pursuant to sub paragraph 165(3)(n)(ii) of the *Planning and Development Act 2007*, at the lessee's expense and before the completion of building work, the existing boundary fencing shared with adjoining Block 2 must be replaced with a 1.8m high timber lapped and capped fence, or to another standard acceptable to the subject block lessee and the relevant adjoining lessees.

b) Side boundary fencing adjoining Block 2 must not extend beyond the new building line.

c) The lessee must take all reasonable steps to obtain the written agreement of the respective lessees before the erection of any new fencing.

Note: In the event the adjacent lessees do not wish their respective fence to be replaced or where the fencing has already been upgraded to 1.8m high fence due to recent redevelopment, the existing fence can be retained.

11. WASTE MANAGEMENT

All building waste is to be stored on the site in suitable receptacles and collected regularly. The lessee is to take all reasonable steps to ensure that waste, particularly wind-borne litter, does not affect adjoining or adjacent properties.

12. NO ENCROACHMENT

The development must be wholly contained within the leased boundary of Block 1 Section 80, division of Greenway.

ADVISORY NOTES

1. SIGNAGE

All signage installed at the site, including advertising signage and hoarding, should comply with the Australian Association of National Advertisers (AANA) Code of Ethics and the ACT Government's Hoarding Signage Advertising Guidelines available online at https://www.planning.act.gov.au/build-buy-renovate/for-industry/industry-resources/hoarding-signage-guidelines

2. LIGHTING

Lighting that illuminates entries to the dwellings, garage front areas and driveway shall be installed as part of the development. Lighting shall be installed to the relevant Australian Standard(s) to provide sufficient lighting AND not to create a nuisance to surrounding properties.

3. ENVIRONMENT PROTECTION AUTHORITY (EPA)

As the site is greater than 0.3 hectares the construction is an activity listed in Schedule 1 as a Class B activity under the Environment Protection Act, 1997. The contractor/builder developing the site must hold an Environmental Authorisation or enter into an Environmental Protection Agreement with the Environment Protection Authority (EPA) in respect of that activity prior to works commencing.

An Erosion and Sediment Control Plan must be submitted to and be endorsed by the EPA prior to works commencing on site.

All works must be carried out in accordance with Environment Protection Guidelines for Construction and Land Development in the ACT, March 2011, available by calling 132281.

Noise from equipment which may be installed or used at the site, including air conditioning units and pool pumps etc, must comply with the noise standard at the block boundary at all times as per the Environment Protection Regulation 2005. Please consider the type and location of noise generating equipment prior to installation. Written assurance should be sought from the supplier/installer of the equipment that it complies with the Noise Zone Standard as per the Environment Protection Regulation, 2005.

All excavations that collect rain water during a rain storm event would be considered as a sediment control pond, and must meet the following condition:

- No discharge from pond unless sediment level is less than 60mg/litre. If sediment level is greater, then prior to discharge, the pond must be dosed with either Alum or Gypsum and allowed to settle until the sediment is less than 60 mg/litre.

For further information please contact the Environment Protection Authority Planning Liaison at EPAPlanningLiaison@act.gov.au or on 02 6207 5642.

PART B – REASONS FOR THE DECISION

The application was approved because it was found to meet the relevant rules and criteria of the Territory Plan and section 120 of the *Planning and Development Act 2007.*

During the assessment of the development application (DA), the planning and land authority requested further information from the applicant in relation to setback encroachment, Landscape Plan, fence, letterbox, balconies glass panels, visitor car parking surface treatment, Site and Landscape Plans inconsistency, pedestrian pathways, basement ramp and entity requirements.

Subsequently, the applicant submitted further information to amend the development application, pursuant to section 144B and 144E DAs of the *Planning and Development Act 2007*.

The planning and land authority considered that no-one other than the applicant will be adversely affected by the amendments and the revised proposal would not increase the environmental impacts. Consequently, pursuant to section 146(3) of the Act, the authority waived the requirement to publicly notify the amended applications.

The issues raised in the representations were considered in the assessment and determination of this DA. All relevant entities have supported with conditions the DA.

Subject to the conditions imposed, the revised proposal meets all relevant requirements of the Territory Plan and is unlikely to have any significant adverse impacts on the streetscape or adjoining blocks.

The following evidence formed part of the assessment of this application:

Development Application:	DA 202037677
Territory Plan Zones:	RZ4 Medium Density Residential
Development Codes:	Residential Zone Development Code & Multi-unit Housing Development code, Parking and Vehicular Access General Code, Access and Mobility General Code, Crime Prevention through Environmental Design General Code, Residential Boundary Fences General Code & Waterways Water Sensitive Urban Design General Code
Precinct Code:	Greenway Precinct Map and Code
Crown Lease:	Volume and Folio N/A
Legislative requirements:	Sections 119 and 120 of the *Planning and Development Act 2007*
Entity advice:	Addressed in Part C of this Decision

PART C – PUBLIC NOTIFICATION AND ENTITY ADVICE

PUBLIC NOTIFICATION

Pursuant to Division 7.3.4 of the Act, the application was publicly notified from 8 February 2021 to 26 February 2021. Four (4) written representations were received during public notification period.

The issues raised in the representations were considered in the assessment and making of the Decision for this development application.

ENTITY ADVICE

Pursuant to Division 7.3.3 of the *Planning and Development Act*, the application was referred to the below entities. Where an entity requested conditions to be imposed on this development, those conditions have been incorporated into Part A of this Decision. A summary of entity comments can be found below.

Transport Canberra and City Services (TCCS) provided advice stating that the proposal is supported subject to conditions. Please refer to **Part A** for conditions.

EvoEnergy (Electricity) provided advice stating that the proposal is supported subject to conditions. Please refer to **Part A** for relevant condition requiring compliance with entity advice. A copy of the Evoenergy advice is attached to this Notice of Decision.

Gas Jemena provided advice stating that the proposal is supported subject to conditions. Please refer to **Part A** for relevant condition requiring compliance with entity advice. A copy of the Jemena advice is attached to this Notice of Decision.

Icon Water provided advice stating that the proposal is supported subject to conditions. Please refer to **Part A** for relevant condition requiring compliance with entity advice. A copy of the Icon Water advice is attached to this Notice of Decision.

The Tree Protection Unit (TPU) representing the Conservator of Flora and Fauna provided advice stating that the proposal is supported subject to conditions. Please refer to **Part A** for conditions.

Environment Protection Authority (EPA) provided advice stating that the proposal is supported subject to conditions. Please refer to **Part A** for conditions.

Emergency Services Agency (ESA) provided advice stating that the proposal is supported subject to conditions. Please refer to **Part A** for relevant condition requiring compliance with entity advice. A copy of the ESA advice is attached to this Notice of Decision.

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CHINESE	如果你需要传译员的帮助，请打电话：
CROATIAN	Ako trebate pomoć tumača telefonirajte:
GREEK	Αν χρειάζεστε διερμηνέα τηλεφωνήσετε στο
ITALIAN	Se avete bisogno di un interprete, telefonate al numero:
MALTESE	Jekk għandek bżonn l-għajnuna t'interpretu, ċempel:
PERSIAN	اگر به ترجمه شفاهی احتیاج دارید به این شماره تلفن کنید:
PORTUGUESE	Se você precisar da ajuda de um intérprete, telefone:
SERBIAN	Ако вам је потребна помоћ преводиоца телефонирајте:
SPANISH	Si necesita la asistencia de un intérprete, llame al:
TURKISH	Tercümana ihtiyacınız varsa lütfen telefon ediniz:
VIETNAMESE	Nếu bạn cần một người thông-ngôn hãy gọi điện-thoại:

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ATTACHMENT 1

ADMINISTRATIVE INFORMATION RELATING TO NOTICE OF DECISION

DATE THAT THIS APPROVAL TAKES EFFECT

Unless a condition of approval provides for otherwise, this approval takes effect 20 working days after the day this notice of decision is given to every person who made a representation on the application. The effective date for development applications approved subject to conditions may also be adjusted if the approval is reconsidered by the planning and land authority or if an application is made to the ACT Civil and Administrative Tribunal.

Pursuant to section 184 of the *Planning and Development Act 2007* (Act), this approval will expire if:

- the development or any stage of the development is not started within three years after the day the approval takes effect;
- the development is not finished three years after the day the development begins; or
- the development approval relates to land comprised in a lease that requires the development to be completed on a stated date – the date stated in the lease for completion of the development, or the approval is revoked pursuant to section 189 of the Act.

Under section 184 of the Act, the applicant may apply to the planning and land authority to extend the prescribed period to finish the development, but such an application must be made within the original period specified for completion.

A development approval, to which section 184 of the Act applies, continues unless the approval ends under sections 184, 185, 186 or 187 of the Act.

Inspection of the Application and Decision

A copy of the application and the decision can be inspected between 8:30am and 4:30pm weekdays at the Environment, Planning and Sustainable Development Directorate Dickson Customer Service Centre at 480 Northbourne Avenue, Dickson, ACT.

Submission of revised drawings or documentation

If a condition of approval requires the applicant to lodge revised drawings and / or documentation with the planning and land authority for approval pursuant to section 165 of the Act, the submission must be made by completing an application in e-development.

Reconsideration of the Decision

If the applicant is not satisfied with the decision made by the planning and land authority, they are entitled to apply to the planning and land authority for reconsideration within 20 working days of being told of this decision pursuant to section 191 of the Act. A longer timeframe may apply only if granted in writing by the planning and land authority pursuant to section 184 of the Act.

More information is available online at https://www.planning.act.gov.au/build-buy-renovate/build-buy-or-renovate/approvals/development-applications/appeal-a-da-decision.

Please contact Access Canberra Customer Services if you wish to lodge a reconsideration application.

Review by the ACT Civil and Administrative Tribunal (ACAT)

1. Decisions that are reviewable by the ACAT are identified in Schedule 1 of the Act, except for matters that are exempted under Schedule 3 of the *Planning and Development Regulation 2008* (matters exempt from third party review).
2. The notice of decision and this advice have been sent to all people who made a representation in relation to the application.
3. The ACAT is an independent body. It can review a large number of decisions made by ACT Government ministers, officials and statutory authorities on their merits. The ACAT can agree with, change or reject the original decision, substitute its own decision or send the matter back to the decision maker for reconsideration in accordance with ACAT recommendations.
4. If you think you have a right of appeal, you may apply to the ACAT for a review of the decision. Application forms can be obtained from the ACAT at the website listed below. You can also download the form from the ACT Legislation Register.
5. If you are unsure of whether you have a right of appeal, you may contact Access Canberra Customer Services who can provide you with assistance.
6. More information on appeal rights is available online at https://www.planning.act.gov.au/build-buy-renovate/build-buy-or-renovate/approvals/development-applications/appeal-a-da-decision.
7. If you are applying on behalf of an organisation or association, whether incorporated or not, the Tribunal in deciding whether to support this application will consider the effect of the decision being reviewed on the interests of the organisation or association in terms of its objects or purposes. A copy of the relevant documents will be required to be lodged with the Tribunal.
8. The time limit to make a request for a review is 28 days from the date of this notice of decision. The time limit can be extended in some circumstances (refer to sections 10 (2), 10(3), 25(1)(e) and 25(2) of the *ACT Civil & Administrative Tribunal Act 2008;* and rule 38 of the *ACT Civil and Administrative Tribunal Procedures Rules 2020*.
9. Applications to the ACAT, including an application to be joined as a party to a proceeding, require payment of a fee (the Tribunal Registry will advise of the current fee), unless you are receiving legal or financial assistance from the ACT Attorney-General. You can apply to have the fee waived on the grounds of hardship, subject to approval (refer to section 22T of the *ACT Civil and Administrative Tribunal Act 2008*). Decisions to grant assistance are made on the grounds of hardship and that it is reasonable, in all the circumstances, for the assistance to be granted. Applications should be made in writing to: the Director General, Justice and Community Safety Directorate, GPO Box 158, CANBERRA ACT 2601. You can ask the ACAT for more details.
10. The ACAT is required to decide appeals in land and planning and tree protection cases within 120 days after the lodging of the appeal, unless that period is extended by the ACAT upon it being satisfied that it is in the interests of justice to do so.
11. The following organisations may be able to provide you with advice and assistance if you are eligible:
    - ACT Law Society, telephone 6274 0300ACT
    - Legal Aid Office, telephone 1300 654 314
    - ACT Council of the Ageing, telephone 02 6154 9740
    - Welfare Rights Centre, telephone 1800 226 028
    - Environmental Defender's Office (ACT), telephone 02 6243 3460.

12. You will have to pay any costs involved in preparing or presenting your case. The ACAT also has the power to award costs against a party in the circumstances specified in s 48 of the *ACT Civil and Administrative Tribunal Act 2008*. This power is in addition to the power of the ACAT to strike out a party and to dismiss an application for failure to comply with the ACAT's directions.
13. You may apply for access to any documents you consider relevant to this decision under the ACT *Freedom of Information Act 2016*. Information about Freedom of information requests is available on the planning and land authority's web site at https://www.environment.act.gov.au/about/access-government-information or by contacting us by phone on 02 6207 1923.
14. The procedures of the ACAT are outlined on the ACAT's website, including in the Guide to the Land and Planning Division and the Guide to the Hearing. Contact the ACAT for alternative ways to access information about the ACAT's procedures.

Review by the ACT Supreme Court

1. The Authority's decision may also be subject to judicial review by the ACT Supreme Court under the *Administrative Decisions (Judicial Review) Act 1989* (ADJR Act).
2. Under the ADJR Act, an *eligible person* may make an application for review of a decision.
3. An *eligible person* must demonstrate that their interests are adversely affected by the decision and that the application raises a significant issue of public importance.
4. Section 5 of the ADJR Act sets out the grounds on which a decision can be reviewed.
5. The time limit to make an application for review is 28 days from the date the Notice of Decision is provided to the applicant and those people who made a representation.
6. The ACT Supreme Court is a costs jurisdiction where costs generally follow the event. This means that the unsuccessful party is required to pay the costs of the successful party.
7. For more information on ACT Supreme Court processes and fees, please visit https://courts.act.gov.au/home.

Other approvals

A notice of decision under the *Planning and Development Act 2007* grants development approval only. Other approvals may be required, including:

1. Building Approval

   Most building work requires building approval under the *Building Act 2004* to ensure it complies with building laws such as the *Building Code of Australia*. The lessee should engage a private building certifier to determine whether building approval is required and assess and approve the building plans before construction commences. A list of certifiers can be obtained from the Environment, Planning and Sustainable Development Directorate.

2. Tree damaging activity approval

   A Tree Management Plan under the *Tree Protection Act 2005* is required for approval where it is proposed to undertake groundwork within the tree protection zone of a protected tree or likely to cause damage to, or remove, any trees defined as protected trees by that Act. More information is available from the Transport Canberra and City Services Directorate at https://www.tccs.act.gov.au/city-living/trees.

3. Use of verges or other unleased Territory Land

In accordance with the *Public Unleased Land Act 2013*, road verges and other unleased Territory land must not be used for the carrying out of works, including the storage of materials or waste, without prior approval of the Territory. More information is available from the Transport Canberra and City Services Directorate at https://www.tccs.act.gov.au/city-living/public_land_use.

4. Works on unleased Territory Land

In accordance with the *Public Unleased Land Act 2013*, no work can be undertaken on unleased Territory land without the approval of the Territory. Such approval must be obtained from the Senior Manager, Place Coordination and Planning, Transport Canberra and City Services Directorate by way of:

(a) a certificate of design acceptance prior to the commencement of any work; and

(b) a certificate of operational acceptance on completion of all works to be handed over to TCCS.

Works on unleased Territory land may include the construction or upgrading of driveway verge crossings, public footpaths, roads, street lighting, stormwater works, waste collection amenities, street signs and line marking, road furniture and landscaping.

Contact details for relevant agencies

ACT Civil and Administrative Tribunal Level 4, 1 Moore Street CANBERRA CITY ACT 2601 GPO Box 370, CANBERRA, ACT 2601	www.acat.act.gov.au tribunal@act.gov.au 02 6207 1740 02 6205 4855
ACT Supreme Court 4-6 Knowles Place, CANBERRA CITY ACT 2601 GPO Box 1548, CANBERRA CITY, ACT 2601	www.courts.act.gov.au 02 6205 0000
Environment, Planning and Sustainable Development Directorate 480 Northbourne Avenue DICKSON ACT 2602 GPO Box 158, CANBERRA 2601 • *Planning and land authority* - list of certifiers for building approval - demolition information - asbestos information • *Environment Protection Authority* - environment protection - water resources - asbestos information • *Conservation, Planning and Research* - threatened species/wildlife management	www.planning.act.gov.au 02 6207 1923 www.environment.act.gov.au 132 281 www.environment.act.gov.au 132 281
Transport Canberra and City Services - tree damaging activity approval - use of verges or other unleased Territory land - works on unleased Territory land - design acceptance - damage to public assets	www.tccs.act.gov.au 132 281 02 6207 0019 (place coordination)

City and Environment Directorate
FOI 26-072 | Page 92

Health Directorate	www.health.act.gov.au 02 6205 1700
Utilities - Telstra (networks) - TransACT (networks) - Icon Water - Electricity reticulation	 02 8576 9799 02 6229 8000 02 6248 3111 02 6293 5738

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ITALIAN	Se avete bisogno di un interprete, telefonate al numero:
MALTESE	Jekk għandek bżonn l-għajnuna t'interpretu, ċempel:
PERSIAN	اگر به ترجمه شفاهی احتیاج دارید به این شماره تلفن کنید:
PORTUGUESE	Se você precisar da ajuda de um intérprete, telefone:
SERBIAN	Ако вам је потребна помоћ преводиоца телефонирајте:
SPANISH	Si necesita la asistencia de un intérprete, llame al:
TURKISH	Tercümana ihtiyacınız varsa lütfen telefon ediniz:
VIETNAMESE	Nếu bạn cần một người thông-ngôn hãy gọi điện-thoại:

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The following general conditions will apply as appropriate for the Works and use of Territory land:

Early Works or prior to construction
In accordance with the Public Unleased Land Act 2013 no Works are to be undertaken without the approval of the TCCS. Such approval must be obtained from the relevant Senior Director of the TCCS Development Coordination Branch TCCS by the ways of (1) a Letter of Early Works Approval for demolition and/or earthworks only; and/or (2) a Letter of Design Review, prior to the commencement of any Works.

Fees and charges will apply for Early Works Approval as per TCCS "GEN-06 - Submissions and Inspections Guideline Principles and Related Fees and Charges for TCCS and Industry".

Design Review
In order to obtain the Letter of Design Review, fully detailed drawings (civil, landscape) prepared by suitably qualified persons for all off-site works including roads, driveways, footpaths, street lighting, stormwater, landscaping (and any other issues that may be found by audit of the plans) and a design report in accordance with TCCS "REF-06 - Requirements for Design Review Submissions", must be certified by a Chartered Engineer/Landscape Architect and submitted to the relevant Senior Director of the TCCS Development Coordination Branch.

Waste and Recycling Management Plan (WRMP) review
A WRMP in accordance with the relevant revision of the Development Control Code for Best Practice Waste Management in the ACT must also be submitted at the Design Review stage.

Operational Acceptance/Soft Landscape Consolidation Commencement
On completion of the Works a Certificate of Operational Acceptance is required from the relevant Senior Director of the TCCS Development Coordination Branch, prior to the issuance of a Certificate of Occupancy.

Where required, a Certificate of Soft Landscape Consolidation Commencement must also be obtained from the relevant Senior Director of the TCCS Development Coordination Branch for the placement of soft landscape works on consolidation.

A Chartered Engineer/Landscape Architect must certify compliance with TCCS "REF 08 - Requirements for Works as Executed Quality Records Requirements" when the request for Operational Acceptance and/or Consolidation Commencement is made to the relevant Senior Director of the TCCS Development Coordination Branch on completion of all Works.

Final Acceptance/Soft Landscape Handover
A Certificate of Final Acceptance for all civil and hard landscape works must be obtained from the relevant Senior Director of the TCCS Development Coordination Branch at the end of the required Defects Liability Period (DLP) as noted in the Certificate of Operational Acceptance.

A Certificate of Soft Landscape Handover for all soft landscape works must be obtained from the relevant Senior Director of the TCCS Development Coordination Branch at the end of the required Consolidation Period as noted in the Certificate of Consolidation Commencement.

Temporary Traffic Management (TTM)
A TTM plan approval from the Manager of TCCS Traffic Management & Safety, Roads ACT, must be obtained prior to commencement of Works. This plan must prepared by a suitably

City and Environment Directorate
FOI 26-072 | Page 94

qualified person and address, as a minimum, measures to be employed at all times during construction activities to manage all traffic, including construction and regular traffic in and around the site, provision of safe pedestrian movement around the site, the provision of parking for construction workers, and associated temporary traffic control devices.

Landscape Management & Protection Plan (LMPP)
LMPP approval must be obtained from the relevant Senior Director of the TCCS Development Coordination Branch or the delegated authority. During construction, all existing vegetation (trees, shrubs and grass) located within the verge and unleased Territory land immediately adjacent to the development must be managed, protected and maintained in accordance with the approved LMPP. This plan must be implemented before the commencement of any Works, including demolition on the site, and must be in accordance with TCCS "REF 04 - Requirements for the Protection of Public Landscape Assets Adjacent to Development Works".

Use of verges or other unleased Territory land
In accordance with the Public Unleased Land Act 2013, road verges and other unleased Territory land must not be used for carrying out of Works, including storage of materials or waste, without prior approval from TCCS. If required, such approval can be obtained from TCCS Licensing and Compliance.

Repair of damage to public assets
Before the Works commence TCCS must be notified of any existing damage to public assets via a Dilapidation Report. The applicant/lessee is held responsible for repairing any damage to ACT Government's assets, caused by the development activities, to the satisfaction of TCCS. If a Dilapidation Report is not provided, any pre-existing damage must also be repaired at the applicant/lessee's cost.

Notice of Commencement of construction
A Notice of Commencement for the Works within Unleased Territory Land must be submitted to TCCS one week prior to the commencement of Works. The notice must also include the confirmation of any protective measures installed in accordance with the approved LMPP and the programmed implementation of TTM.