Douglas Partners
Geotechnics / Environment / Groundwater

Integrated Practical Solutions

Report on
Preliminary Site Investigation with Limited Sampling
(Contamination)

New High School in Bungendore
Majara Street, Bungendore

Prepared for
NSW Department of Education - School Infrastructure
NSW

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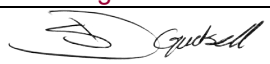
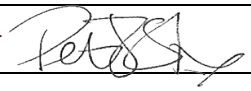
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The undersigned, on behalf of Douglas Partners Pty Ltd, confirm that this document and all attached drawings, logs and test results have been checked and reviewed for errors, omissions and inaccuracies.

	Signature		Date
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Reviewer		for Dean Woods	7 September 2021

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Executive Summary

The objective of the PSI-L was to identify potential sources of contamination and determine the potential contaminants of concern, identify areas of potential contamination, identify human and ecological receptors associated with the proposed development and identify potentially affected media (soil, groundwater, ground gas etc.).

The investigation was undertaken in general accordance with DP's proposal 94188.03.P.002.Rev0 dated 6 July 2021. This report must be read in conjunction with all appendices including the notes provided in Appendix B.

The PSI-L included the following scope of works:

- Preparation of a list of Potential Areas of Environmental Concern (PAEC) through investigation of the site by the following methods:
    - Review of local topographic, soil, geological, salinity and acid sulfate soils mapping;
    - Review of available historical aerial photography for the site to identify land uses and changes in the land that may indicate a potential for contamination;
    - Search of the NSW EPA contaminated land records to determine the existence of statutory notices current on any parts of the site, or adjacent land, under the Contaminated Land Management Act (1997) and licences (if any) under the Protection of the Environment Operations Act (1997);
    - Search through the dangerous goods database held by SafeWork NSW;
    - NSW Office of Water groundwater bore search;
    - Summary of current and historic titles and Deposited Plans to identify previous owners that may indicate potentially contaminating activities that may have occurred on site; and
    - Review of readily available Council records and Section 10.7 (formerly Section 149) certificate.
- Undertake a limited subsurface investigation including the drilling of 12 boreholes (locations were nominated by the client) with sampling and laboratory testing for the contaminants of concern as outlined in Section 8;
- Installation of three groundwater monitoring wells for potential future environmental monitoring;
- Development of a preliminary conceptual site model (CSM); and
- Provision of this report detailing the methodology and results of the limited intrusive investigation and providing comment on: identifying observed potential sources of contamination and associated potential contaminants; the compatibility of the site for the proposed development; and recommendations for further works if considered necessary (as mentioned in the SEPP 55).

The site historical title information suggests that the site was used for recreational and railway purposes from at least 1884. The aerial photographs from between 1961 and 1985 indicates that the site was mostly vacant with some ground disturbance noted across the site at times. The aerial photographs from 1985 and 1992 indicates that placement of fill had occurred within the tributary of Turallo Creek, located in the northern portion of the site. The aerial photograph from 1992 suggests that sometime between 1985 and 1992, the swimming pool and community centre were also constructed. The satellite image from 2007 indicates ground disturbance and placement of fill had occurred north of the council

offices, where construction for those offices had established sometime before 2007. Planning searches indicated no known sources of contamination across the site. The EPA database searches also indicated that no contaminated sites are located within the current site of investigation.

Analytical results of soil samples were generally within the adopted health-based (i.e. HIL-A/HSL-A), ecological (i.e. EIL/ESL) criteria, and management limits for low-density residential land use and primary schools with the exception of:

- Nickel in samples BH05/3.0 m at 10 mg/kg, BH06/3.0 m and BH10/5.0 m at 9 mg/kg and BH10/0.5 m at 8 mg/kg exceeded the EIL of 7 mg/kg. Samples BH05/3.0 m, BH06/3.0 m and BH10/5.0 m are below the top 2 m of soil where likely root zones and animal habitation zones are likely to be located and are considered not to be of concern. Furthermore, there was no sign of stressed flora and fauna within the site;
- A calculation of the $95\%UCL_{average}$ using ProUCL software was undertaken for nickel samples within the upper 2.0 m of the soil and where concentrations above the laboratory Practical Quantification Limit were reported. The $95\%UCL_{average}$ was then compared to the assessment criteria. The $95\%UCL_{average}$ for nickel at the site was calculated below the assessment criteria. The outputs from the ProUCL software are presented in Appendix L; and
- Soil results for all cadmium and mercury and a number of arsenic results (see Table K1) were less than PQL.

Reported concentrations of metals, TRH, BTEX, PAH, OCP, OPP, PCB and phenols were below the CT1 criteria for General Solid Waste (non-putrescible).

Based on the natural material observed from the boreholes and chemical analysis of select samples, the material underlying the fill could also be classified as VENM. It should be noted that a VENM classification would be voided should the natural material be mixed with any fill or potential contaminants.

While analytical results of soil samples were generally within the adopted SAC, given the limited nature of the PSI-L undertaken to date, it is considered appropriate that further intrusive investigation should be undertaken within areas of the site (i.e. the northern portion of the site) that have not undergone intrusive works and where potential sources of contamination may be present.

DP recommends that further investigation (detailed site investigation) is needed and subsequent further data analysis and subsequent remediation or management (remedial action plan) if considered necessary based on the findings of the further investigation.

DP also recommends that the following measures are undertaken at the site before and during any future development works:

- A detailed HAZMAT survey will need to be undertaken for existing structures before any demolition works can occur. The buildings will have to be vacated completely before any detailed HAZMAT surveys can be undertaken and it is understood that this can only happen once the Department of Education receive ownership of the site. Future site works (including civil works) should only be undertaken once a detailed HAZMAT survey has been completed. It is also recommended that if HBM are found to be present in the structures, a validation assessment within the soils of the structure footprints should be undertaken once demolition works have been completed;

- A Construction Environment Management Plan (CEMP) should also be prepared before future development works including an 'unexpected finds protocol' and asbestos finds protocol and implemented during the works (i.e. hydrocarbon staining and/odours observed during works, suspected ACM fragments of asbestos fibres);
- Should suspected asbestos be encountered at the site, the affected area should be fenced off and assessed by an NSW licensed asbestos assessor; and
- Should any fill material be required to be disposed off-site, the material must be assessed in accordance with NSW EPA Waste Classification Guidelines Part 1 Classifying Waste (2014) and assigned a formal waste classification prior to off-site disposal.

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Report on Preliminary Site Investigation with Limited Sampling (Contamination)
New High School in Bungendore
Majara Street, Bungendore

1. Introduction

This Preliminary Site Investigation (Contamination) with Limited Sampling (PSI-L) conducted by Douglas Partners Pty Ltd (DP) accompanies an Environmental Impact Statement (EIS) pursuant to Part 4 of the Environmental Planning and Assessment Act 1979 (EP&A Act) in support of an application for a State Significant Development (SSD No 14394209). The SSDA is for a new high school located at Bungendore.

This report addresses the Secretary's Environmental Assessment Requirements (SEARs), notably:

SEARs Requirement	Response
19. Contamination	
Assess and quantify any soil and groundwater contamination and demonstrate that the site is suitable for the proposed use in accordance with SEPP 55. This must include the following prepared by certified consultants recognised by the NSW Environment Protection Authority.	Preliminary Site Investigation with Limited Sampling and recommendations for further site investigations, if required. The following key guidelines were consulted in the preparation of this report: • NEPC *National Environment Protection (Assessment of Site Contamination) Measure 1999 (as amended 2013) [NEPM]* (NEPC, 2013); • NSW EPA *Guidelines for Consultants Reporting on Contaminated Land* (NSW EPA, 2020); • NSW Department of Urban Affairs and Planning, Managing Land Contamination Planning Guidelines SEPP 55–Remediation of Land, 1998; and • NSW EPA's *Sampling Design Guidelines* (NSW EPA, 1995).
18. Waste	
Provide a hazardous materials survey (HAZMAT survey) of existing above ground buildings that are proposed to be demolished or altered.	Recommendations for a HAZMAT survey will be made in this PSI-L. The Department of Education do not have ownership of the site and therefore cannot vacate the buildings to perform a detailed HAZMAT survey. A detailed HAZMAT survey would be required prior demolition works and the buildings would have to be permanently vacated before this occurs.

2. Proposed Development

The proposed development is for the construction of a new high school in Bungendore. The proposal has been designed as a stream 3 high school to initially provide for approximately 450 students with core 4 facilities aimed to future proof demand forecasted to 2036.

The site is located adjacent to the existing Bungendore Public School to the south enabling the creation of an education style precinct that will enable a cohesive connection between the two schools as well as the wider Bungendore community.

The proposal will include the demolition of the Bungendore Swimming Pool (to be relocated to Queanbeyan-Palerang Regional Council's proposed new Bungendore Sports Hub) and the Bungendore Community Centre; repurposing of existing council buildings; and the construction of new school buildings. New facilities for the high school will comprise of 24 general learning spaces; dedicated science and technology spaces; a gymnasium; library; canteen; outdoor learning and play areas that include two games courts.

A new agricultural plot is also proposed to the north of the main school site including a new agricultural building and scout storage shed, adjacent to the existing scout hall.

The proposal will also provide for shared administration and staff facilities between the high school and existing primary school and construction of a warm shell for community facilities including a community library, council shopfront and community health hub.

Additionally, miscellaneous off-site works, including upgrades to nearby road intersections and infrastructure, crossings, footpaths and the like will be provided to encourage active transport opportunities and respond to changing traffic conditions.

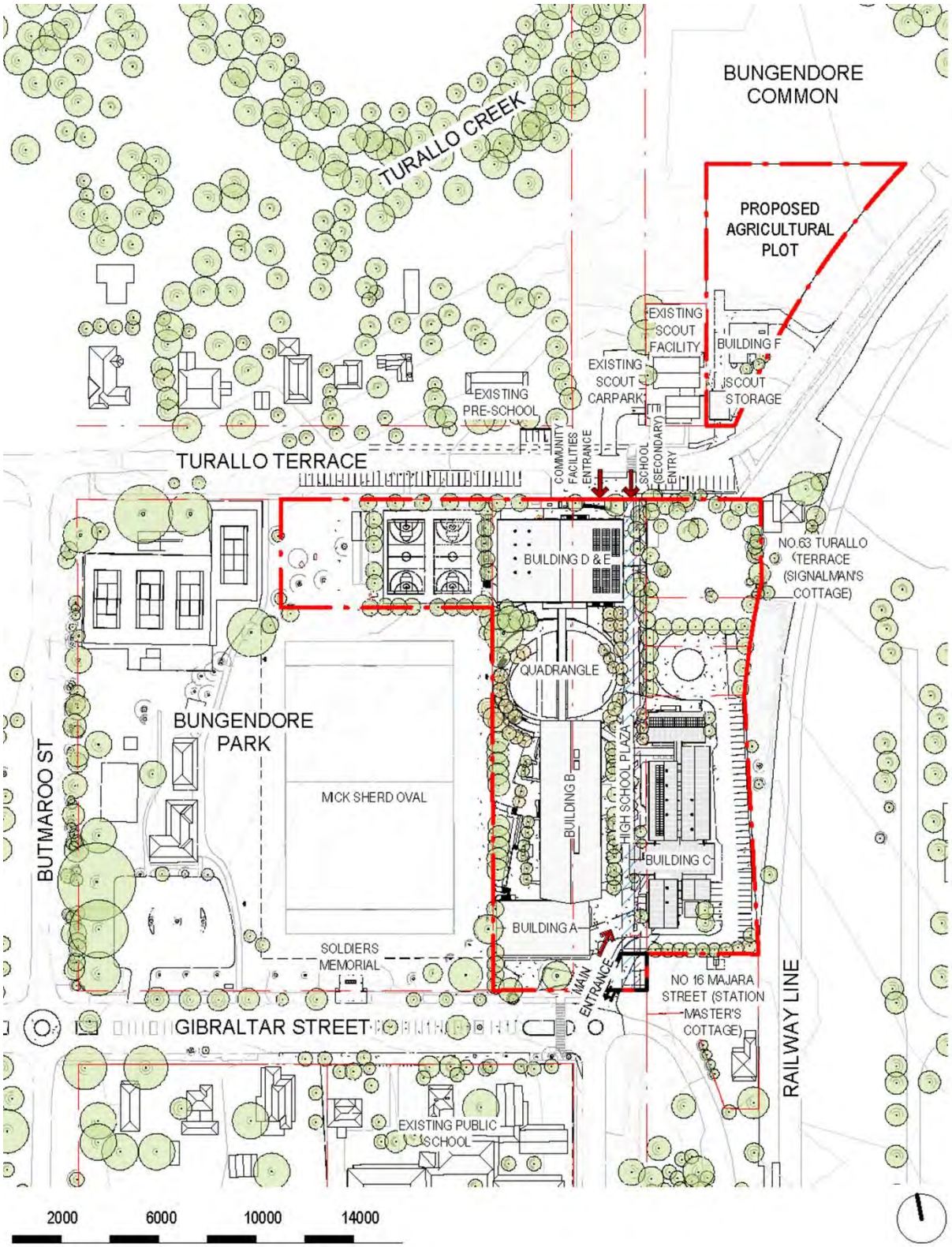


Figure 1: Proposed site plan
Source: TKD Architects

3. Site Description

The proposed development is located within the Bungendore Town Centre within the local government area of Queanbeyan-Palerang Regional Council. The proposal involves the use of land which includes Bungendore Park bounded by Gibraltar Street, Majara Street, Turallo Terrace and Butmaroo Street, the existing former Palerang Council site at 10 Majara Street, the Majara Street road reserve bounded by Turallo Terrace and Gibraltar Streets and Nos. 2, 4 and 6 Majara Street (Refer to Table 1 below).

The site is approximately 29,205 m^2 in area and consists of a relatively flat topography. It contains part of Bungendore Park, existing Council buildings and maintained public open space areas. The land is mostly cleared of vegetation with some mature trees intersperse throughout subject lots.

The surrounding area generally includes low density residential developments to the north and west, an existing rail line to the east and Bungendore Public School and the Bungendore train station to the south and south west respectively.

Table 1: New high school in Bungendore legal descriptions

Property Address	Lot Numbers
6-14 Butmaroo Street	Part Lot 701 DP1027107
2 Majara Street	Lot 12 DP1139067
4-6 Majara Street	Lot 13 DP1139067 Lot 14 DP1139067
10 Majara Street	Lot 3 DP830878
Butmaroo Street	Part Lot 701 DP96240
Portion of Majara Street (between Turallo Terrace and Gibraltar Street)	N/A



Figure 2: Site aerial depicting the land subject to the proposed High School.
Source: TKD Architects

4. General

DP has been engaged by TSA Management Pty Ltd (TSA) on behalf of NSW Department of Education - School Infrastructure NSW (SINSW) to provide an addendum to the previous preliminary site investigation and limited intrusive investigation undertaken for the new high school in Bungendore to be located within a precinct centred on Majara Street, Bungendore (hereinafter referred to as 'the site'). It is understood that the development boundaries (the site of DP's investigation) have been amended from those referred to in DP's previous reports (the development boundary now includes an area of land north of Turallo Terrace and the southernmost development boundary now borders Gibraltar Street). It should be noted that the client requires Pro-Forma paragraphs for the report (Sections 1 – 3 of the report) and DP has been required to reproduce these paragraphs in this report.

The site location, development boundaries and site features are shown on Drawing 1, Appendix A. DP considered it appropriate to consolidate both previous reports into the one report. It should also be noted that the laboratory sample receipt advice, chain of custody and laboratory certificates (see Appendix J) still contain samples collected within the original development boundary. However, these samples and analytical results have not been included in this report.

The objective of the PSI-L was to identify potential sources of contamination and determine the potential contaminants of concern, identify areas of potential contamination, identify human and ecological receptors associated with the proposed development and identify potentially affected media (soil, groundwater, ground gas etc.).

The investigation was undertaken in general accordance with DP's proposal 94188.03.P.002.Rev0 dated 6 July 2021. This report must be read in conjunction with all appendices including the notes provided in Appendix B.

5. Scope of Works

The PSI-L included the following scope of works:

- Preparation of a list of Potential Areas of Environmental Concern (PAEC) through investigation of the site by the following methods:
    - Review of local topographic, soil, geological, salinity and acid sulfate soils mapping;
    - Review of available historical aerial photography for the site to identify land uses and changes in the land that may indicate a potential for contamination;
    - Search of the NSW EPA contaminated land records to determine the existence of statutory notices current on any parts of the site, or adjacent land, under the Contaminated Land Management Act (1997) and licences (if any) under the Protection of the Environment Operations Act (1997);
    - Search through the dangerous goods database held by SafeWork NSW;
    - NSW Office of Water groundwater bore search;
    - Summary of current and historic titles and Deposited Plans to identify previous owners that may indicate potentially contaminating activities that may have occurred on site; and

  - Review of readily available Council records and Section 10.7 (formerly Section 149) certificate.
- Undertake a limited subsurface investigation including the drilling of 12 boreholes (locations were nominated by the client) with sampling and laboratory testing for the contaminants of concern as outlined in Section 8;
- Installation of three groundwater monitoring wells for potential future environmental monitoring;
- Development of a preliminary conceptual site model (CSM); and
- Provision of this report detailing the methodology and results of the limited intrusive investigation and providing comment on: identifying observed potential sources of contamination and associated potential contaminants; the compatibility of the site for the proposed development; and recommendations for further works if considered necessary (as mentioned in SEPP 55).

6. Environmental Setting

6.1 Topography

The regional topography comprises flat to gently sloped plains with some low foot slopes of alluvium and colluvium. The region typically slopes gently towards Lake George.

The site gently slopes from 698 m in the south-east/east to 694 m in the north-west/west, towards Halfway Creek. The northern portion of the site slopes down in a northerly direction from Turallo Terrace towards Turallo Creek from 696 m to 691 m. All elevations are in reference to levels relative to Australian Height Datum (AHD).

6.2 Site Geology

Reference to the Canberra 1:100,000 Geological Sheet 8727 indicates that most of the site (to the west of Majara Street and north of Turallo Terrace) is underlain by Quaternary aged alluvium and part of the eastern side (between Majara Street and the existing railway) is underlain by colluvium, overlying middle to late Ordovician aged Birkenburn beds, which comprises interbedded sandstone, siltstone and shale. It is expected that the Birkenburn beds would underly the alluvium.

6.3 Soil Landscapes

The site is underlain by various soil landscape groups. Published mapping indicates it is underlain by the Millpost soil group (mapped across the northernmost portion of the site) and the Hoskinstown soil group (mapped across the train station area, most of the eastern portion of the site and Mick Sherd Oval).

The Millpost soil group landscape is characterised by flat to very gently inclined plains on Quaternary alluvium of gravel, sand, silty clay and black organic clay. Limitations associated with the Millpost soil group include localised imperfect drainage, localised permanently high-water tables, localised run-on,

and seasonal water logging. The soil group is also subject to experiencing localised salinity, infertile dispersible soils and acidic topsoils, localised flooding hazards and engineering hazards.

Hoskinstown soil group landscape is characterised by undulating low hills on Silurian volcanics and sedimentary units of proximal quartz tubidites of sandstone, shale and siltstone, acid and basic volcanics and tuffs. The landscape contains isolated patches of rock outcrop. Limitations associated with the Hoskinstown soil group include localised saline scalds, minor sheet erosion and seasonal water logging. The soil group is also subject to experiencing run-ons and engineering hazards.

6.4 Acid Sulfate Soils

Reference to the CSIRO's Atlas of Australian Acid Sulfate Soils online mapping portal, (A S R I S - Atlas of Australian Acid Sulfate Soils (csiro.au)) indicates that the site has a low probability of acid sulfate soils to be present.

6.5 Surface Water and Groundwater

On-site stormwater drainage is present across the site and expected to flow towards Turallo Creek and Halfway Creek, located approximately 100 m north and 650 m west of the site, respectively. Turrallo Creek flows into Halfway Creek and then into Lake George which is located approximately 7.5 km to the north west of the site. Two unnamed water bodies are located adjacent to Turallo Creek approximately 160 m to the north of the site. Review of the topographic map and the site inspection indicates that the likely direction of surface water drainage would generally be towards the north-west/north.

A search of the publicly available registered groundwater bore database indicated that there are no registered groundwater bores present on the site and six registered groundwater bores within 500 m of the site. The groundwater bores from within 500 m of the site are summarised in Table 2 and further details of the groundwater bores are provided in Appendix C.

Table 2: Summary of Available Information from Nearby Registered Groundwater Bores

Bore ID Authorised Purpose Completion Year Status	Location Relative to Site	Final Depth (m)	Standing Water Level (m bgl)
GW020916 - Domestic- 1952	496 m W	21.9	N/A
GW402023 - Domestic - 2002	273 m SE	22.0	10.0
GW403783 - Domestic - 2003	226 m SE	50.0	28.0
GW403817 - Domestic - 2007	490 m W	39.0	6.0
GW404164 - Domestic - 2004	455 m NW	42.0	2.0
GW416600 – Monitoring - 2004	150 m E	5.1	4.35

Based on the regional topography and the inferred flow direction of nearby water courses, the anticipated flow direction of groundwater beneath the site is to the north-west/west, towards Lake George, the likely receiving surface water body for the groundwater flow path. Given the local geology

(i.e. Birkenburn beds), the groundwater in the fractured rock beneath the site is anticipated to be relatively fresh. Accordingly, potential beneficial uses could include irrigation or drinking water, although the future use of the groundwater for these purposes in the vicinity of the site is considered unlikely given the urban setting.

7. Site History

7.1 Title Deeds

A historical title deeds search was used to obtain ownership and occupancy information including company names and the occupations of individuals. The title information can assist in the identification of previous land uses by the company names or the site owners and can, therefore, assist in establishing whether there were potentially contaminating activities occurring at the site. A summary of the title deeds and possible land uses (with reference to the aerial photographs and other historical searches) is presented in Tables 3 – 7, further details of the searches are provided in Appendix C.

Table 3: Lot 701 DP 1027107

Date of Acquisition and Term Held	Registered Proprietor(s) & Occupations	Inferred Land Use
19.09.1884	Dedicated for the purpose of Public Recreation	Sport and Recreation
03.10.1884	Boundaries of Section 26, Village of Bungendore published	Sport and Recreation
04.08.1886	Proclaimed as a Public Park within the meaning of the "Public Parks Act of 1884. Now known as "Bungendore Park".	Sport and Recreation
To Date	#The State of New South Wales	Sport and Recreation

# Denotes current registered proprietor

Table 4: Lot 12 DP 1139067

Date of Acquisition and Term Held	Registered Proprietor(s) & Occupations	Inferred Land Use
31.05.1871 (1871 to 1937)	Eva Wright (And her deceased estate)	Unknown
10.12.1937 (1937 to 1949)	William Douglas Morton (Trust Officer)	Unknown
01.02.1949 (1949 to Date)	# The Council of the Shire of Yarrowlumla Now known as #Queanbeyan-Palerang Regional Council	Community Centre

# Denotes current registered proprietor

Table 5: Lot 3 DP 830878

Date of Acquisition and Term Held	Registered Proprietor(s) & Occupations	Inferred Land Use
09.02.1883 (1883 to 1993)	Commissioner for Railways (Intervening name changes) Now State Rail Authority of New South Wales	Railway land

Date of Acquisition and Term Held	Registered Proprietor(s) & Occupations	Inferred Land Use
27.07.1993 (1993 to Date)	# Yarrowlumla Shire Council Now known as #Queanbeyan-Palerang Regional Council	Queanbeyan-Palerang Regional Council Offices

# Denotes current registered proprietor

Table 6: Lot 701 DP 96240

Date of Acquisition and Term Held	Registered Proprietor(s) & Occupations	Inferred Land Use
Unknown to 1884	Crown Reserve for Public Buildings in the design of the Town Crown Plan 15-1004, circa 1882	Unknown
31.03.1884	Part within Crown Reserve No. 193 for Railway	Railway land
03.08.1901	Part within Crown Reserve No. 33064 for Access to Water	Unknown
08.02.1935	Crown Reserve No. 65079 for Commonage	Unknown
29.05.1981	Crown Reserve No. 94996 for Public Recreation	Unknown
29.05.1981	Council of the Shire of Yarrowlumla appointed trustee	Unknown
13.01.1995	Yarrowlumla Shire Council Crown Reserves Trust Yarrowlumla Shire Council - Trustee	Unknown
Unknown to Date	# The State of New South Wales	Unknown

# Denotes current registered proprietor

Table 7: Lots 13 and 14 DP 758183

Date of Acquisition and Term Held	Registered Proprietor(s) & Occupations	Inferred Land Use
01.01.1918 (1918 to 1937)	Eva Wright (Spinster) (In ownership prior to 1900. Searches conducted from 1918 on)	Unknown
10.12.1937 (1937 to 1949)	William Douglas Morton (Trust Officer)	Unknown
01.02.1949 (1949 to date)	# Council of the Shire of Yarrowlumla Now known as #Queanbeyan-Palerang Regional Council	Unknown

# Denotes current registered proprietor

7.2 Historical Aerial Photography

Several historical aerial photographs were obtained from NSW Government public databases and Google Earth Pro. Extracts of the aerial photographs are included in Appendix D. A summary of key features observed for the site and surrounding land is presented in Table 8.

Table 8: Summary of Historical Aerial Photographs

Year	Site	Surrounding Land Use
1961	The site was mostly undeveloped. Majara Street and Mick Sherd Oval were noted as the only developments within the site. Some ground disturbance was noted to the east of Majara Street, the ground disturbance was most likely associated with buried services. Ground disturbance was noted within the northern portion of the site (between Turallo Creek and Turallo Terrace). The ground disturbance was possibly a tributary/ to Turallo Creek. Some sporadic trees were noted across the site as well.	The site was bordered by vacant land to the north, Gibraltar Street to the south, a railway line to the east and a mixture of vacant/open land and residential dwellings to the west. Surrounding the site in all directions were low-density residential properties and vacant lots. A tennis court appeared to be located to the west of the site and the Bungendore Primary School and Bungendore Train Station were located to the south of the site. Beyond the residential areas, vacant lots and school, agricultural land use was present and further to the north was Turallo Creek.
1967	There appeared to be no significant changes to the site from the previous photograph.	There appeared to be no significant changes to the surrounding land from the previous photograph. A small number of additional low-residential dwellings appeared to be developed in all directions around the site.
1976	There appeared to be no significant changes to the site from the previous photograph.	There appeared to be no significant changes to the surrounding land from the previous photograph. Continued residential development appeared to have occurred in the surrounding areas of the site.
1985	The northern portion of the site appeared to have undergone extensive ground disturbance (possible in-fill of the suspected tributary). The public toilets appeared to have been constructed in the western portion of the site.	There appeared to be no significant changes to the surrounding land from the previous photograph. Continued residential development appeared to have occurred in the surrounding areas of the site.

Year	Site	Surrounding Land Use
1992	The community centre appeared to be developed south of Turallo Terrace and west of the railway corridor. The swimming pool and other associated structures appeared to be developed south of Turallo Terrace and to the west of Majara Street. Further ground disturbance appeared to have occurred in the northern portion of the site.	Bungendore Primary School appeared to have some extensions/development works occur. Continued residential development appeared to have occurred in the surrounding areas of the site. An additional tennis court was constructed to the west of the site.
2007	Ground disturbance had appeared in the south of the community centre and the development of the Queanbeyan-Palerang Reginal Council (QPRC) offices had also occurred.	Bungendore Primary School appeared to have been extended all the way to the northern boundary of the school oval.
2018	A footpath appeared to have been constructed around the Mick Sherd Oval and a small gazebo and park seating appeared to have been developed on the corner of Gibraltar and Majara Street. Another footpath had been constructed east of Majara Street.	The tennis courts appeared to have been upgraded and buildings to facilitate the use of Mick Sherd Oval also appeared to have been developed west of the site.

7.3 Public Registers and Planning Records

EPA (or equivalent) Notices – Provided in Appendix C	No Notices were identified for the site. The nearest site on the list was a former timber treatment plant located approximately 800 m to the south of the site. Given the distance between the former timber treatment plant and the site, it is considered unlikely that any impacts from the former use would be affecting the site. Accessed 20/04/2021
EPA (or equivalent) Licences	No Notices were identified for the site. Several licenses were noted within Bungendore for various industrial activities including land based extractive activities, sewerage treatment and renewable energy works. These licensed activities were not considered likely to affect the site. Accessed 20/04/2021
WorkSafe NSW– Provided in Appendix C	No results from SafeWork searches indicated that there were hazardous substances located within the site.

7.4 Section 10.7 (2 and 5) Planning Certificates

The site is located within the local government area of QPRC. The site is zoned as SP2: Special Purpose Infrastructure and RE1: Public Recreational.

The Section 10.7 (2 and 5) Planning Certificates were requested from QPRC on 1 April 2021 and are provided in Appendix C. Lots searched included:

- **Lot 701 DP 1027107:**
  - The land has not been assessed for the likelihood of contamination by Council considering past uses or results of systematic sampling;
  - The site is not considered critical habitat, is not located in a conservation area nor contains registered heritage items. However, Council is aware of environmental heritage items being present on the land;
  - The site is not located in a mine subsidence or road widening/construction area.
  - The site is located in a bushfire and contamination hazard/risk area.
  - The site is not subject to flood related development controls.
  - The site is not located in bio-diversity certified land.
  - The site is not reported to contain loose fill asbestos.
  - The site is not/has not been identified as contaminated land as per the Contaminated Land Management Act 1997 or Environmental Planning and Assessment Act 1979 (EP&A Act).
- **Lot 12 DP 1139067 and Lot 3 DP 830878;**
  - The land has not been assessed for the likelihood of contamination by Council considering past uses or results of systematic sampling;
  - The site is not considered critical habitat, is not located in a conservation area nor contains registered heritage items.
  - The site is not located in a mine subsidence or road widening/construction area.
  - The site is located in a bushfire and contamination hazard/risk area.
  - The site is not subject to flood related development controls.
  - The site is not located in bio-diversity certified land.
  - The site is not reported to contain loose fill asbestos.
  - The site is not/has not been identified as contaminated land as per the Contaminated Land Management Act 1997 or Environmental Planning and Assessment Act 1979 (EP&A Act).
- **Lot 701 DP 96240;**
  - The land has not been assessed for the likelihood of contamination by Council considering past uses or results of systematic sampling;
  - The site is not considered critical habitat, is not located in a conservation area nor contains registered heritage items. However, Council is aware of environmental heritage items being present on the land;
  - The site is not located in a mine subsidence or road widening/construction area.
  - The site is located in a bushfire and contamination hazard/risk area.

- The site is subject to flood related development controls.
- The site is not located in bio-diversity certified land.
- The site is not reported to contain loose fill asbestos.
- The site is not/has not been identified as contaminated land as per the Contaminated Land Management Act 1997 or Environmental Planning and Assessment Act 1979 (EP&A Act).

7.5 Other Sources

According to the QPRC Aquatics website (https://qprcaquatics.com.au/about-us/bungendore/), the Bungendore Pool (QPRC Bungendore Pool) was officially opened 30 November 1991.

7.6 Site History Integrity Assessment

The information used to establish the history of the site was sourced from reputable and reliable reference documents, many of which were official records held by Government departments/agencies. The databases maintained by various Government agencies potentially can contain high quality information, but some of these do not contain any data at all.

In particular, aerial photographs provide high quality information that is generally independent of memory or documentation. They are only available at intervals of several years, so some gaps exist in the information from this source. The observed site features are open to different interpretations and can be affected by the time of day and/or year at which they were taken, as well as specific events, such as flooding. Care has been taken to consider different possible interpretations of aerial photographs and to consider them in conjunction with other lines of evidence.

7.7 Summary of Site History

The site historical title information suggests that the site was used for recreational and railway purposes from at least 1884. The aerial photographs from between 1961 and 1985 indicates that the site was mostly vacant with some ground disturbance noted across the site at times. The aerial photographs from 1985 and 1992 indicates that placement of fill had occurred within the tributary of Turallo Creek, located in the northern portion of the site. The aerial photograph from 1992 suggests that sometime between 1985 and 1992, the community centre was constructed and according to the QPRC Aquatics website, the pool was officially opened 30 November 1991. The satellite image from 2007 indicates ground disturbance and placement of fill had occurred north of the council offices, where construction for those offices had established sometime before 2007. Planning searches indicated no known sources of contamination across the site. The EPA database searches also indicated that no contaminated sites are located within the current site of investigation.

8. Site Walkover

A site walkover was undertaken by an environmental scientist on 19 March and 22 July 2021. The general site topography was consistent with that described in Section 4. The site layout appears to have remained unchanged from the 2018 aerial photograph. The following key site features pertinent to the PSI-L were observed (refer to photographs in Appendix E):

- The site comprised mostly developed lots of land. The northern portion (north of Turallo Terrace) of the site comprised vacant land and was moderately grassed. Between Turallo Terrace and Gibraltar Street, a public swimming pool and associated structures, a community hall, the Queanbeyan-Palerang Regional Council offices and the Mick Sherd Oval were present. Some areas of vacant land were located between the infrastructure on site and comprised of grass coverage and some sporadic tree coverage;
- The northern portion of the site appeared to have been built up along the northern side of Turallo Terrace and sloped down towards a near flat area, towards Turallo Creek;
- The swimming pool area comprised of a 25 m swimming pool, several small buildings and several shade structures. Along the western boundary of the swimming pool, a mound of fill was present. Numerous small to large trees surrounded the swimming pool;
- The community centre comprised of one building and a playground with car parks to the north of the centre. Numerous small to large trees surrounded the community centre;
- The QPRC offices comprised of several buildings with carparks and landscaped areas around the offices;
- A small park/urban open space with numerous large trees was located to the south-east corner of the Mick Sherd Oval;
- The railway corridor along the eastern boundary of the site exposed siltstone bedrock;
- Surface fill/topsoil fill were noted across most areas of the site;
- No evidence of staining or odorous soils was noted during the site inspection;
- No evidence of underground fuel storage tanks or aboveground liquid fuel storage tanks were noted during the site inspection where DP had access to; and
- No evidence of potential asbestos containing materials was noted during the site inspection although it is noted that DP's scope did not include a hazardous building materials assessment.

9. Preliminary Conceptual Site Model

A conceptual site model (CSM) is a representation of site-related information regarding contamination sources, receptors and exposure pathways between those sources and receptors. The CSM provides the framework for identifying how the site became contaminated and how potential receptors may be exposed to contamination either in the present or the future i.e. it enables an assessment of the potential source – pathway – receptor linkages (complete pathways).

Potential Sources

Based on the current investigation, the following potential sources of contamination and associated contaminants of potential concern (COPC) have been identified.

- S1: Fill: Associated with past construction of the swimming pool, ovals, community centre, QPRC building and car parks/roads and ground disturbance/possible fill placement in a tributary in the northern portion of the site.
  - COPC include metals, total recoverable hydrocarbons (TRH), benzene, toluene, ethylbenzene, xylene (BTEX), polycyclic aromatic hydrocarbons (PAH), polychlorinated biphenyls (PCB), organochlorine pesticides (OCP), organophosphate pesticides (OPP), phenols and asbestos.
- S2: Existing buildings and the hazardous building materials (HBM) that may be associated with those structures.
  - COPC include asbestos, synthetic mineral fibres (SMF), lead (in paint) and PCB.

Potential Receptors

The following potential human receptors have been identified:

- R1: Current users [general public, community workers and council workers];
- R2: Construction and maintenance workers;
- R3: End users [students, teachers and other associated workers on a school site]; and
- R4: Adjacent site users [residential, recreational and students, teachers and other associated workers on a school site (Bungendore Primary School)].

The following potential environmental receptors have been identified:

- R5: Surface water [on-site stormwater drainage lines flowing into Turallo Creek (fresh water)];
- R6: Groundwater; and
- R7: Terrestrial ecology.

Potential Pathways

The following potential pathways have been identified:

- P1: Ingestion and dermal contact;
- P2: Inhalation of dust and/or vapours;
- P3: Surface water run-off;
- P4: Lateral migration of groundwater providing base flow to water bodies;
- P5: Leaching of contaminants and vertical migration into groundwater; and
- P6: Contact with terrestrial ecology.

Summary of Potentially Complete Exposure Pathways

A 'source–pathway–receptor' approach has been used to assess the potential risks of harm being caused to human or environmental receptors from contamination sources on or in the vicinity of the site, via exposure pathways (potential complete pathways). The possible pathways between the above sources (S1 to S2) and receptors (R1 to R7) are provided in below Table 9.

Table 9: Summary of Potentially Complete Exposure Pathways

Source and COPC	Transport Pathway	Receptor	Risk Management Action
S1: Fill, Metals, TRH, BTEX, PAH, OCP, OPP, PCB, Phenols and asbestos	P1: Ingestion and dermal contact P2: Inhalation of dust and/or vapours	R1: Current users [general public, community workers and council workers] R2: Construction and maintenance workers R3: End users [students, teachers and other associated workers on a school site]	Disturbed ground was identified in the historical aerial photographs across the entire site but more notable within the northern portion of the site. Potential fill may also be present within service trenches, underneath roads and buildings within the site. An intrusive investigation is recommended to assess possible contamination including testing of the soils . A groundwater investigation is not recommended at this stage based on the historical assessment. A groundwater investigation may be recommended at a later stage depending on the results of the soil sample assessment.
	P2: Inhalation of dust and/or vapours	R4: Adjacent site users [recreational and residents].	
	P3: Surface water run-off P5: Lateral migration of groundwater providing base flow to water bodies	R5: Surface Water	
	P4: Leaching of contaminants and vertical migration into groundwater	R6: Groundwater	

Source and COPC	Transport Pathway	Receptor	Risk Management Action
	P6: Contact with terrestrial ecology	R7: terrestrial ecology	
S2: Current buildings, asbestos, SMF, lead (in paint) and PCB	P1: Ingestion and dermal contact P2: Inhalation of dust	R1: Current users [general public, community workers and council workers] R2: Construction and maintenance workers R3: End users [students, teachers and other associated workers on a school site]	A HAZMAT survey is recommended for existing structures that are potentially planned on being demolished (swimming pool structures and community centre structures). Potential residual HBM may also be present across the site where off-cuts may be present from historical construction. A validation assessment is also recommended within the building footprints once the current buildings has been demolished. An intrusive investigation is recommended around current structures and within the footprint of buildings if they are planned to be demolished to assess possible contamination including testing of the soils. A groundwater investigation is not recommended at this stage based on the historical assessment. A groundwater investigation may be recommended at a later stage depending on the results of the soil sample assessment.
	P3: Surface water run-off* P5: Leaching of contaminants and vertical migration into groundwater*	R5: Surface Water.	
	P4: Lateral migration of groundwater providing base flow to water bodies* P5: Leaching of contaminants and vertical migration into groundwater*	R4: Adjacent site users [recreational and residential] R6: Groundwater	

Source and COPC	Transport Pathway	Receptor	Risk Management Action
	P6: Contact with terrestrial ecology*	R7: Terrestrial ecology	

Note: *Pathway only refers to lead and PCB for S2.

10. Sampling and Analysis Quality Plan

10.1 Data Quality Objectives

The PSI-L was devised with reference to the seven-step data quality objective process which is provided in Appendix B Schedule B2, NEPC (2013). The DQO process is outlined in Appendix F.

10.2 Soil Sampling Rationale

The client provided the borehole location plan. It was assumed that the locations were based on where the development of the site is proposed to occur (i.e. building locations, car parks and other site infrastructure). Therefore, opportunistic sampling from the concurrent geotechnical boreholes was adopted. Bore BH09 was drilled outside of the site boundary (see Drawing 1, Appendix A) due to the uncertainty of underground services in the area.

It should be noted that at the time of the intrusive works (March, 2021), the northern portion of the site was not included in the scope of works and therefore boreholes were not drilled in this area.

Soil samples were collected from each borehole at depths of approximately 0.1 m, 0.5 m, 1.0 m and every 1.0 m thereafter, and changes in lithology or signs of contamination.

The general sampling methods are described in the field work methodology, included in Appendix G.

11. Site Assessment Criteria

The site assessment criteria (SAC) applied in the current investigation are informed by the CSM (Section 7) which identified human and environmental receptors to potential contamination on the site. Analytical results are assessed (as a Tier 1 assessment) against the SAC comprising primarily the investigation and screening levels of Schedule B1 of NEPC (2013).

The investigation and screening levels applied in the current investigation comprise levels adopted for a generic low-density residential space with **garden/soil access** (including primary schools/childcare centres) land use scenario. A conservative approach has been adopted due to the proposed agricultural plot of land that is planned to be located within the northern portion of the site (**garden/soil access)**. NSW waste classification criteria (WCC) has also been included. The derivation of the SAC and WCC are included in Appendix H and the adopted SAC and WCC are listed on the summary analytical results tables in Appendix K.

12. Results

12.1 Field Work Methods

The field work comprised the drilling of twelve boreholes (BH01-T and BH02-T and BH01 to BH10, it should be noted that the borehole names were nominated by Hindmarsh Pty Ltd and were adopted for this investigation) using an EVH2100 drilling rig at the locations shown on Drawing 1, Appendix A. The boreholes were drilled through overburden soils and upper weathered rock (where encountered) with 110 mm diameter solid flight augers. Bores BH01- T, BH02-T and BH04 to BH07 were augured to the limit of investigation depths of 3 m, while Bores BH09 and BH10 were drilled to limit of investigation depths of 6.0 m. Bore BH03 refused in siltstone bedrock at a depth of 1.7 m. Bores BH01, BH02 and BH08 were cored drilled using an NMLC drilling bit through siltstone bedrock from depths of between 1.5 m – 2.6 m to limit of investigation depths of between 6.0 m – 6.2 m.

The approximate test location coordinates provided on each borehole log were determined on site using a hand-held GPS which is accurate only to about 3 – 5 m. The surface levels shown on the borehole logs to Australian Height Datum (AHD) and coordinates to Map Grid of Australia (MGA, Zone 55) were interpolated determined using the provided survey drawings and as such, are approximate only and not to be relied on.

12.2 Field Work Results

The boreholes were logged on-site by a geotechnical engineer and an environmental scientist. Subsurface conditions encountered are given in the borehole logs in Appendix I, which should be read in conjunction with the notes defining classification methods and descriptive terms.

The succession of strata is broadly summarised below:

- **TOPSOIL FILL:** generally low to medium plasticity silty clay with a various mixture of sand and gravel in all boreholes to depths of between 0.2 m to 0.3 m; overlying
- **FILL:** generally low to high plasticity clayey soils and loose to dense sandy soils in all bores from depths of 0.2 m to 0.3 m to depths of 0.3 to 0.7 m;
- **ALLUVIAL:** generally low to high plasticity clayey and silty soils and dense to very dense sandy soils in BH04 from depths of 0.4 m to 1.0 m.
- **RESIDUAL:** generally low to high plasticity silty clay soils in BH02, BH02-T, BH03, BH05, BH06, BH09, from depths of 0.4 m to 0.7 m to 1.0 m to 3.0 m;

- **EXTREMELY WEATHERED BEDROCK:** generally low to high plasticity silty clay soils in BH01, BH01-T and BH04 to BH10, from depths of 0.3 m to 1.1 m to depths of 1.0 m to 3.5 m; and
- **BEDROCK:** variably very low to medium strength, extremely/highly weathered to moderately weathered siltstone in BH01 to BH06 and BH08 to BH10 from 1.0 m to 3.5 m depths to the limit of investigation or refusal depths of 1.7 m to 6.15 m.

There were no other apparent observations of visual or olfactory evidence (e.g. staining, odours, free phase product) to suggest the presence of contamination within the soils or groundwater encountered during this investigation.

No asbestos was observed during the course of the investigation. However, it should be noted that the small footprint of borehole drilling limits the ability to observe potential asbestos in soils and it **cannot** be assumed that there is no asbestos present at the site.

The PID screening indicated that the sub-surface conditions were generally absent of VOC with all recorded values of less than 5 ppm.

No free groundwater was encountered during the drilling and coring of the boreholes however, it is noted that the use of drilling fluids in the cored boreholes precluded any direct observation during deeper drilling. DP also notes that groundwater conditions rarely remain constant and can change seasonally due to variations in rainfall, temperature and soil permeability. For these reasons, it is noted that the moisture condition of the site soils may vary considerably from the time of the investigation compared to at the time of construction. It must be noted that due to the topography, sandy nature of the site soils in parts and fractured weathered rock, groundwater seepages must be expected following periods of rainfall.

Groundwater wells were installed in Boreholes BH02, BH08 and BH09. Groundwater wells were installed for any possible future groundwater monitoring. It should be noted that groundwater monitoring was not part of the scope for this addendum to PSI-L

The groundwater monitoring wells were measured on 4 May 2021 and observations summarised in Table 10.

Table 10: Summary of Groundwater Level Measurements on 4 May 2021

Bore No.	Depth (m)	RL (m)*
BH02	5.39	691.11
BH08	5.84	691.16
BH09	No Groundwater Observed	-

*Surface levels given in Table 3 are based on the survey data provided by Project Surveyors Pty Ltd

12.1 Laboratory Analytical Results

The results of laboratory analysis are summarised in the following tables in Appendix H:

- Tables K1 and K2: Summary of Results of Soil Analysis;

- Table K3: Summary of Preliminary Waste Classification Assessment; and
- Tables QA1 – QA4: Quality Assurance and Quality Control.

The laboratory certificate(s) of analysis together with the chain of custody and sample receipt information are provided in Appendix J.

13. Discussion

13.1 Soils

Analytical results of soil samples were generally within the adopted health-based (i.e. HIL-A/HSL-A), ecological (i.e. EIL/ESL) criteria, and management limits for low-density residential land use and primary schools with the exception of:

- Nickel in samples BH05/3.0 m at 10 mg/kg, BH06/3.0 m and BH10/5.0 m at 9 mg/kg and BH10/0.5 m at 8 mg/kg exceeded the EIL of 7 mg/kg. Samples BH05/3.0 m, BH06/3.0 m and BH10/5.0 m are below the top 2 m of soil where likely root zones and animal habitation zones are likely to be located and are considered not to be of concern. Furthermore, there was no sign of stressed flora and fauna within the site;
- A calculation of the $95\%UCL_{average}$ using ProUCL software was undertaken for nickel samples within the upper 2.0 m of the soil and where concentrations above the laboratory Practical Quantification Limit were reported. The $95\%UCL_{average}$ was then compared to the assessment criteria. The $95\%UCL_{average}$ for nickel at the site was calculated below the assessment criteria. The outputs from the ProUCL software are presented in Appendix L; and
- Soil results for all cadmium and mercury and a number of arsenic results (see Table K1) were less than PQL.

Reported concentrations of metals, TRH, BTEX, PAH, OCP, OPP, PCB and phenols were below the CT1 criteria for General Solid Waste (non-putrescible).

Based on the natural material observed from the boreholes and chemical analysis of select samples, the material underlying the fill could also be classified as VENM. It should be noted that a VENM classification would be voided should the natural material be mixed with any fill or potential contaminants.

13.2 Data Quality Assurance and Quality Control

The data quality assurance and quality control (QA/QC) results are included in Appendix M and the relative percentage difference results for intra-laboratory and inter-laboratory replicates are included in Appendix H. Based on the results of the field QA and field and laboratory QC, and evaluation against the data quality indicators (DQI) it is concluded that the field and laboratory test data obtained are reliable and useable for this assessment.

14. Revised Conceptual Site Model

The data collected for this PSI-L has generally confirmed that certain potential contaminant sources outlined in the CSM outlined in Section 8 pose a potentially complete pathway to the identified receptor(s) whilst others do not. No other sources of contamination have been identified as a result of the testing results. This is summarised in Table 11.

Table 11: Updated Summary of Potentially Complete Exposure Pathways (Proposed Land Use)

Source and COPC	Transport Pathway	Receptor	Risk Management Action
S1: Fill, Metals, TRH, BTEX, PAH, OCP, OPP, PCB, Phenols and asbestos	P1: Ingestion and dermal contact P2: Inhalation of dust and/or vapours	R1: Current users [general public, community workers and council workers] R2: Construction and maintenance workers R3: End users [students, teachers and other associated workers on a school site]	Fill was identified during the intrusive work and subsequential walkover and historical aerial review of the northern portion of the site. Further testing within the additional northern portion of the site is recommended to assess possible contamination including testing of the soils and groundwater, if required. A construction environmental management plan (CEMP) is recommended to be prepared and implemented during potential future site works, including an unexpected finds protocol (UFP) and asbestos finds protocol if contamination is suspected (i.e. staining of soil and odours, suspected asbestos containing material (ACM) fragments etc.). In addition, should fill material require disposal off-site, further assessment would be required.
	P2: Inhalation of dust and/or vapours	R4: Adjacent site users [students, teachers and other associated workers on a school site, recreational, students, school workers and residents].	
	P3: Surface water run-off P5: Lateral migration of groundwater providing base flow to water bodies	R5: Surface Water	
	P4: Leaching of contaminants and vertical migration into groundwater	R6: Groundwater	
	P6: Contact with terrestrial ecology	R7: terrestrial ecology	

Source and COPC	Transport Pathway	Receptor	Risk Management Action
S2: Current and former buildings, asbestos, SMF, lead (in paint) and PCB	P1: Ingestion and dermal contact P2: Inhalation of dust	R1: Current users [general public, community workers and council workers] R2: Construction and maintenance workers R3: End users [students, teachers and other associated workers on a school site]	The results of the laboratory analysis indicated that reported concentrations of contaminants of concern were below the adopted assessment criteria or not detected (asbestos). DP recommends a HAZMAT survey is conducted for the existing structures that are proposed to be demolished (swimming pool structures and community centre). Potential residual HBM may also be present across the site where structures have been demolished and/or off-cuts may be present from historical construction. Should HBM be present in structures that are planned to be demolished, a validation assessment is also recommended within the soil of the building footprints once a current structure has been demolished. The recommended CEMP for future works should include an asbestos/HBM finds protocol to address any potential contaminants of concern associated with hazardous building materials. In addition, should fill material impacted by HBM require off-site disposal,
	P3: Surface water run-off* P5: Leaching of contaminants and vertical migration into groundwater*	R5: Surface Water.	
	P4: Lateral migration of groundwater providing base flow to water bodies* P5: Leaching of contaminants and vertical migration into groundwater*	R4: Adjacent site users [students, teachers and other associated workers on a school site, recreational, students, school workers and residents] R6: Groundwater	
	P6: Contact with terrestrial ecology*	R7: Terrestrial ecology	

Source and COPC	Transport Pathway	Receptor	Risk Management Action
			further assessment would be required.

Note: *Pathway only refers to lead and PCB for S2.

15. Conclusions and Recommendations

While analytical results of soil samples were generally within the adopted SAC, given the limited nature of the PSI-L undertaken to date, it is considered appropriate that further intrusive investigation should be undertaken within areas of the site (i.e. the northern portion of the site) that have not undergone intrusive works and where potential sources of contamination may be present.

However, based on the results of the PSI-L, it is considered that the site can be made suitable for the proposed school development subject to recommended further investigation (detailed site investigation), subsequent further data analysis and subsequent remediation or management (remedial action plan) if considered necessary based on the findings of the further investigation.

DP also recommends that the following measures are undertaken at the site before and during any future development works:

- A detailed HAZMAT survey will need to be undertaken for existing structures before any demolition works can occur. The buildings will have to be vacated completely before any detailed HAZMAT surveys can be undertaken and it is understood that this can only happen once the Department of Education receive ownership of the site. Future site works (including civil works) should only be undertaken once a detailed HAZMAT survey has been completed. It is also recommended that if HBM are found to be present in the structures, a validation assessment within the soils of the structure footprints should be undertaken once demolition works have been completed;

- A Construction Environment Management Plan (CEMP) should also be prepared before future development works including an 'unexpected finds protocol' and asbestos finds protocol and implemented during the works (i.e. hydrocarbon staining and/odours observed during works, suspected ACM fragments of asbestos fibres);
- Should suspected asbestos be encountered at the site, the affected area should be fenced off and assessed by an NSW licensed asbestos assessor; and
- Should any fill material be required to be disposed off-site, the material must be assessed in accordance with NSW EPA Waste Classification Guidelines Part 1 Classifying Waste (2014) and assigned a formal waste classification prior to off-site disposal.

16. References

Bureau of Mineral Resources (1992), 'Geology of Canberra Geological Series Sheet 8727, 1:100 000 scale map', dated 1992.

CRC CARE. (2017). *Risk-based Management and Remediation Guidance for Benzo(a)pyrene.* Technical Report no. 39: Cooperative Research Centre for Contamination Assessment and Remediation of the Environment.

DP, 2019, *'Report on Preliminary Site Investigation Proposed Supported Housing, 4 – 6 Majara Street*, *Bungendore*, Douglas Partners Pty Ltd.

DP, 2020, *'Report on Targeted Detailed Site Investigation Proposed Supported Housing, 4 – 6 Majara Street*, *Bungendore,* Douglas Partners Pty Ltd.

NEPC. (2013). *National Environment Protection (Assessment of Site Contamination) Measure 1999 (as amended 2013) [NEPM].* Australian Government Publishing Services Canberra: National Environment Protection Council.

NSW Department of Land and Water Conservation (2000): Canberra Soil Landscape Series Sheet 8727 1:100 000 scale map.NEPC. (2013). *National Environment Protection (Assessment of Site Contamination) Measure 1999 (as amended 2013) [NEPM].* Australian Government Publishing Services Canberra: National Environment Protection Council.

NSW EPA. (2020). *Guidelines for Consultants Reporting on Contaminated Land.* Contaminated Land Guidelines: NSW Environment Protection Authority.

17. Limitations

Douglas Partners (DP) has prepared this report for this project at Majara Street, Bungendore in accordance with DP's proposal 94188.03.P.002.Rev0 dated 6 July 2021 and acceptance received from Doug MacPherson dated 14 July 2021. The work was carried out under contract ID SINSW01327/20, dated 3 March 2021. This report is provided for the exclusive use of NSW Department of Education - School Infrastructure NSW for this project only and for the purposes as described in the report. It should not be used by or relied upon for other projects or purposes on the same or other site or by a third party. Any party so relying upon this report beyond its exclusive use and purpose as stated above, and without the express written consent of DP, does so entirely at its own risk and without recourse to DP for any

loss or damage. In preparing this report DP has necessarily relied upon information provided by the client and/or their agents.

The results provided in the report are indicative of the sub-surface conditions on the site only at the specific sampling and/or testing locations, and then only to the depths investigated and at the time the work was carried out. Sub-surface conditions can change abruptly due to variable geological processes and also as a result of human influences. Such changes may occur after DP's field testing has been completed.

DP's advice is based upon the conditions encountered during this investigation. The accuracy of the advice provided by DP in this report may be affected by undetected variations in ground conditions across the site between and beyond the sampling and/or testing locations. The advice may also be limited by budget constraints imposed by others or by site accessibility.

The assessment of atypical safety hazards arising from this advice is restricted to the environmental components set out in this report and based on known project conditions and stated design advice and assumptions. While some recommendations for safe controls may be provided, detailed 'safety in design' assessment is outside the current scope of this report and requires additional project data and assessment.

This report must be read in conjunction with all of the attached and should be kept in its entirety without separation of individual pages or sections. DP cannot be held responsible for interpretations or conclusions made by others unless they are supported by an expressed statement, interpretation, outcome or conclusion stated in this report.

This report, or sections from this report, should not be used as part of a specification for a project, without review and agreement by DP. This is because this report has been written as advice and opinion rather than instructions for construction.

Douglas Partners Pty Ltd

Appendix A

Drawing 1

Turallo Terrace

Majara Street

Gibraltar Street

Mick Sherd Oval

Railway

BH01-T

BH02-T

BH01

BH02

BH03

BH04

BH05

BH06

BH07

BH08

BH09

BH10



Locality Plan

LEGEND

- Approximate Site Boundary
- Queanbeyan-Palerang Regional Council Offices
- Community Centre
- Swimming Pool Boundary
- Fill Mound
- Approximate Extent of Observed Surface Fill
- Approximate Borehole Location

0 15 30 45 60 75

1:1500 @ A3

NOTE: Base drawing from Google Earth Pro, dated 2019)

Douglas Partners
Geotechnics / Environment / Groundwater

CLIENT: School Infrastructure NSW		
OFFICE: Canberra	DRAWN BY: SDG	
SCALE: As Shown	DATE: 07.09.2021	

TITLE: **Site Features and Test Location Plan**
Proposed High School
Majara Street, Bungendore

N

PROJECT No:	202107.03
DRAWING No:	1
REVISION:	2

Appendix B

About This Report

About this Report

Douglas Partners

Introduction

These notes have been provided to amplify DP's report in regard to classification methods, field procedures and the comments section. Not all are necessarily relevant to all reports.

DP's reports are based on information gained from limited subsurface excavations and sampling, supplemented by knowledge of local geology and experience. For this reason, they must be regarded as interpretive rather than factual documents, limited to some extent by the scope of information on which they rely.

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Borehole and Test Pit Logs

The borehole and test pit logs presented in this report are an engineering and/or geological interpretation of the subsurface conditions, and their reliability will depend to some extent on frequency of sampling and the method of drilling or excavation. Ideally, continuous undisturbed sampling or core drilling will provide the most reliable assessment, but this is not always practicable or possible to justify on economic grounds. In any case the boreholes and test pits represent only a very small sample of the total subsurface profile.

Interpretation of the information and its application to design and construction should therefore take into account the spacing of boreholes or pits, the frequency of sampling, and the possibility of other than 'straight line' variations between the test locations.

Groundwater

Where groundwater levels are measured in boreholes there are several potential problems, namely:

- In low permeability soils groundwater may enter the hole very slowly or perhaps not at all during the time the hole is left open;
- A localised, perched water table may lead to an erroneous indication of the true water table;
- Water table levels will vary from time to time with seasons or recent weather changes. They may not be the same at the time of construction as are indicated in the report; and
- The use of water or mud as a drilling fluid will mask any groundwater inflow. Water has to be blown out of the hole and drilling mud must first be washed out of the hole if water measurements are to be made.

More reliable measurements can be made by installing standpipes which are read at intervals over several days, or perhaps weeks for low permeability soils. Piezometers, sealed in a particular stratum, may be advisable in low permeability soils or where there may be interference from a perched water table.

Reports

The report has been prepared by qualified personnel, is based on the information obtained from field and laboratory testing, and has been undertaken to current engineering standards of interpretation and analysis. Where the report has been prepared for a specific design proposal, the information and interpretation may not be relevant if the design proposal is changed. If this happens, DP will be pleased to review the report and the sufficiency of the investigation work.

Every care is taken with the report as it relates to interpretation of subsurface conditions, discussion of geotechnical and environmental aspects, and recommendations or suggestions for design and construction. However, DP cannot always anticipate or assume responsibility for:

- Unexpected variations in ground conditions. The potential for this will depend partly on borehole or pit spacing and sampling frequency;
- Changes in policy or interpretations of policy by statutory authorities; or
- The actions of contractors responding to commercial pressures.

If these occur, DP will be pleased to assist with investigations or advice to resolve the matter.

About this Report

Site Anomalies

In the event that conditions encountered on site during construction appear to vary from those which were expected from the information contained in the report, DP requests that it be immediately notified. Most problems are much more readily resolved when conditions are exposed rather than at some later stage, well after the event.

Information for Contractual Purposes

Where information obtained from this report is provided for tendering purposes, it is recommended that all information, including the written report and discussion, be made available. In circumstances where the discussion or comments section is not relevant to the contractual situation, it may be appropriate to prepare a specially edited document. DP would be pleased to assist in this regard and/or to make additional report copies available for contract purposes at a nominal charge.

Site Inspection

The company will always be pleased to provide engineering inspection services for geotechnical and environmental aspects of work to which this report is related. This could range from a site visit to confirm that conditions exposed are as expected, to full time engineering presence on site.

Appendix C

Site History Searches

WaterNSW
Work Summary

GW416600

Licence: 40BL192199
Licence Status: ACTIVE

Authorised Purpose(s): MONITORING BORE
Intended Purpose(s): MONITORING BORE

Work Type: Bore
Work Status: Equipped
Construct.Method:
Owner Type: Private

Commenced Date:
Completion Date: 15/01/2015
Final Depth: 5.10 m
Drilled Depth: 5.10 m

Contractor Name: GHD
Driller: Unkown Unknown
Assistant Driller:

Property: THE VILLAGE ESTATE 4610 Kings Hwy BUNGENDORE 2621 NSW
GWMA: -
GW Zone: -
Standing Water Level (m): 4.350
Salinity Description:
Yield (L/s):

Site Details

Site Chosen By:

	County	Parish	Cadastre
Form A:	MURRAY	CURRANDOOLY	ADJ 1//747767
Licensed:	MURRAY	CURRANDOOLY	Whole Lot 1//747767

Region: 40 - Murrumbidgee
River Basin: 412 - LACHLAN RIVER
Area/District:
CMA Map: 8727-2N
Grid Zone:
Scale:

Elevation: 0.00 m (A.H.D.)
Elevation Source: Unknown
Northing: 6096215.000
Easting: 722818.000
Latitude: 35°15'08.7"S
Longitude: 149°26'56.7"E

GS Map: -
MGA Zone: 55
Coordinate Source: GPS - Global

Construction

Negative depths indicate Above Ground Level; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity; PL-Placement of Gravel Pack; PC-Pressure Cemented; S-Sump; CE-Centralisers

Hole	Pipe	Component	Type	From (m)	To (m)	Outside Diameter (mm)	Inside Diameter (mm)	Interval	Details
1		Hole	Hole	0.00	5.10	150			Unknown
1		Annulus	Bentonite/Grout	1.00	2.00				
1	1	Casing	P.V.C.	0.00	2.10	150			
1	1	Opening	Slots	2.10	5.10	150		0	PVC

Drillers Log

From (m)	To (m)	Thickness (m)	Drillers Description	Geological Material	Comments
0.00	1.00	1.00	sandy clay	Sandy Clay	
1.00	2.20	1.20	fine sand	Fine Sand	
2.20	5.10	2.90	gravel, medium	Gravel	

Remarks

15/01/2015: Form A Remarks:
Helen Lester: Coordinates are taken from charted licence location.
Information taken from an email from Stuart Gray, Senior Hydrogeologist at GHD
The annulus was backfilled with 8mm gravel.
No other details were provided.

***** End of GW416600 *****

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WaterNSW
Work Summary

GW020916

Licence:
Licence Status:

Authorised Purpose(s):
Intended Purpose(s): DOMESTIC

Work Type: Bore open thru rock
Work Status:
Construct.Method: Cable Tool
Owner Type: Private

Commenced Date:
Completion Date: 01/06/1952
Final Depth: 21.90 m
Drilled Depth: 22.00 m

Contractor Name: (None)
Driller:
Assistant Driller:

Property:
GWMA:
GW Zone:
Standing Water Level (m):
Salinity Description:
Yield (L/s):

Site Details

Site Chosen By:

	County	Parish	Cadastre
Form A:	MURRAY	WAMBOIN	99999
Licensed:			

Region: 40 - Murrumbidgee
River Basin: 411 - LAKE GEORGE
Area/District:
CMA Map: 8727-2N
Grid Zone:
Scale:

Elevation: 0.00 m (A.H.D.)
Elevation Source: (Unknown)
Northing: 6096059.000
Easting: 722020.000
Latitude: 35°15'14.4"S
Longitude: 149°26'25.3"E

GS Map: -
MGA Zone: 55
Coordinate Source: GD.,ACC.MAP

Construction

Negative depths indicate Above Ground Level; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity; PL-Placement of Gravel Pack; PC-Pressure Cemented; S-Sump; CE-Centralisers

Hole	Pipe	Component	Type	From (m)	To (m)	Outside Diameter (mm)	Inside Diameter (mm)	Interval	Details
1	1	Opening	Screen	-100.00	3.30	127		1	
1	1	Casing	Threaded Steel	-0.70	17.80	127			

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)		Duration (hr)	Salinity (mg/L)

							Hole Depth (m)		
4.30	4.30	0.00	(Unknown)						
12.20	12.20	0.00	(Unknown)						
21.90	21.90	0.00	Fractured	3.70		1.14			

Drillers Log

From (m)	To (m)	Thickness (m)	Drillers Description	Geological Material	Comments
0.00	1.83	1.83	Clay Sandy	Clay	
1.83	11.58	9.75	Quartz Decomposed Clay	Quartz	
11.58	14.33	2.75	Quartz	Quartz	
14.33	17.68	3.35	Quartz Decomposed Clay	Quartz	
17.68	21.95	4.27	Quartz Decomposed Water Supply	Quartz	

Remarks

09/05/1979: LAKE GEORGE HOTEL,BUNGENDORE.
09/05/1979: GRAVEL IN BASE OF HOLE

***** End of GW020916 *****

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WaterNSW
Work Summary

GW402023

Licence: 40WA410095
Licence Status: CURRENT

Authorised Purpose(s): DOMESTIC
Intended Purpose(s): DOMESTIC

Work Type: Bore
Work Status:
Construct.Method: Rotary Air
Owner Type:

Commenced Date:
Completion Date: 15/10/2002
Final Depth: 22.00 m
Drilled Depth: 22.00 m

Contractor Name: J & L Drilling Pty Ltd
Driller: Leon Thomas Sharp
Assistant Driller:

Property: N/A 37 Duralla St BUNGENDORE 2621 NSW
GWMA: -
GW Zone: -
Standing Water Level (m): 10.000
Salinity Description:
Yield (L/s): 3.000

Site Details

Site Chosen By:

	County	Parish	Cadastre
Form A:	MURRAY	WAMBOIN	LT18 DP555657
Licensed:	MURRAY	WAMBOIN	Whole Lot 18//555657

Region: 40 - Murrumbidgee
River Basin: - Unknown
Area/District:
CMA Map: 8727-2N
Grid Zone:
Scale:

Elevation: 0.00 m (A.H.D.)
Elevation Source: (Unknown)
Northing: 6095788.000
Easting: 722723.000
Latitude: 35°15'22.6"S
Longitude: 149°26'53.4"E

GS Map: -
MGA Zone: 55
Coordinate Source: Map Interpre

Construction

Negative depths indicate Above Ground Level; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity; PL-Placement of Gravel Pack; PC-Pressure Cemented; S-Sump; CE-Centralisers

Hole	Pipe	Component	Type	From (m)	To (m)	Outside Diameter (mm)	Inside Diameter (mm)	Interval	Details
1		Hole	Hole	0.00	22.00	254			Rotary Air
1	1	Casing	Steel	0.00	22.00	203	193		Seated on Bottom, Welded

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
11.00	11.50	0.50	Unknown	10.00		1.00			
19.00	19.50	0.50	Unknown	10.00		2.00			

Drillers Log

From (m)	To (m)	Thickness (m)	Drillers Description	Geological Material	Comments
0.00	9.00	9.00	Clay, soil	Clay	
9.00	15.00	6.00	Silt, gravel	Silt	
15.00	22.00	7.00	Gravel, sand clay	Gravel	

Remarks

15/10/2002: Form A Remarks:
Sump installed from 18 metres to 22 metres.

***** End of GW402023 *****

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WaterNSW
Work Summary

GW403783

Licence:
Licence Status:

Authorised Purpose(s):
Intended Purpose(s): DOMESTIC

Work Type: Bore
Work Status: New Bore
Construct.Method: Rotary Air
Owner Type: Private

Commenced Date:
Completion Date: 09/02/2003
Final Depth: 50.00 m
Drilled Depth: 50.00 m

Contractor Name: J & L Drilling Pty Ltd
Driller: Barry Trevor Miles
Assistant Driller:

Property:
GWMA:
GW Zone:
Standing Water Level (m): 28.000
Salinity Description:
Yield (L/s): 0.375

Site Details

Site Chosen By:

	County	Parish	Cadastre
Form A:	MURRAY	WAMBOIN	42//569045
Licensed:			

Region: 40 - Murrumbidgee
River Basin: 411 - LAKE GEORGE
Area/District:

CMA Map: 8727-2N
Grid Zone:
Scale:

Elevation: 0.00 m (A.H.D.)
Elevation Source: Unknown

Northing: 6095828.000
Easting: 722695.000

Latitude: 35°15'21.3"S
Longitude: 149°26'52.2"E

GS Map: -
MGA Zone: 55
Coordinate Source: GIS - Geogra

Construction

Negative depths indicate Above Ground Level; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity; PL-Placement of Gravel Pack; PC-Pressure Cemented; S-Sump; CE-Centralisers

Hole	Pipe	Component	Type	From (m)	To (m)	Outside Diameter (mm)	Inside Diameter (mm)	Interval	Details
1		Hole	Hole	0.00	50.00	200			Rotary Air
1		Annulus	Waterworn/Rounded	10.00	50.00				Graded
1	1	Casing	Pvc Class 9	0.00	50.00	139	125		Welded - Butt, S: 45.00-50.00m
1	1	Opening	Slots - Vertical	0.00	50.00	139		0	PVC Class 9, Welded - Butt, SL: 200.0mm, A: 3.00mm

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
35.00	36.00	1.00	Unknown	28.00		0.38			

Drillers Log

From (m)	To (m)	Thickness (m)	Drillers Description	Geological Material	Comments
0.00	1.00	1.00	TOPSOIL	Topsoil	
1.00	50.00	49.00	YELLOW SHALE	Invalid Code	

Remarks

09/02/2003: Form A Remarks:
ENTERED BY PATRICIA EWERS 4TH OCTOBER 2007.

INFORMATION NOT INCLUDED ON FORM:

NO INFORMATION ON DRAWDOWN LEVEL
NO INFORMATION ON SALINITY AND WATER TASTE
NO INFORMATION ON PUMPING TESTS ON BORE COMPLETION
NO DETAILS ON SLOT OPENING TYPE

***** End of GW403783 *****

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WaterNSW
Work Summary

GW403817

Licence:
Licence Status:

Authorised Purpose(s):
Intended Purpose(s): DOMESTIC

Work Type: Bore
Work Status: New Bore
Construct.Method: Rotary Air
Owner Type: Private

Commenced Date:
Completion Date: 27/07/2007
Final Depth: 39.00 m
Drilled Depth: 39.00 m

Contractor Name: Bungendore Water Bores
Driller: Daniel Robert Hill
Assistant Driller: Gerrard Hill

Property:
GWMA:
GW Zone:
Standing Water Level (m): 6.000
Salinity Description: Fresh
Yield (L/s): 3.000

Site Details

Site Chosen By:

	County	Parish	Cadastre
Form A:	MURRAY	WAMBOIN	2//306112
Licensed:			

Region: 40 - Murrumbidgee
River Basin: 411 - LAKE GEORGE
Area/District:
CMA Map: 8727-2N
Grid Zone:
Scale:

Elevation: 0.00 m (A.H.D.)
Elevation Source: Unknown
Northing: 6096094.000
Easting: 722039.000
Latitude: 35°15'13.2"S
Longitude: 149°26'26.0"E

GS Map: -
MGA Zone: 55
Coordinate Source: GIS - Geogra

Construction

Negative depths indicate Above Ground Level; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity; PL-Placement of Gravel Pack; PC-Pressure Cemented; S-Sump; CE-Centralisers

Hole	Pipe	Component	Type	From (m)	To (m)	Outside Diameter (mm)	Inside Diameter (mm)	Interval	Details
1		Hole	Hole	0.00	24.00	300			Rotary Air
1		Hole	Hole	24.00	39.00	200			Rotary Air
1		Annulus	Waterworn/Rounded	0.00	39.00				Graded, Q:3.000m3
1	1	Casing	Pvc Class 18	0.00	39.00	160	150		Driven into Hole, Welded - Butt
1	1	Casing	Pvc Class 18	0.00	24.00	219	209		Driven into Hole, Welded - Butt
1	1	Opening	Slots - Vertical	26.00	38.00	160		0	

									Casing - Oxy-cut Slot, PVC Class 18, Welded - Butt, SL: 120.0mm, A: 2.00mm

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
24.00	26.00	2.00	Unknown	6.00		0.75		01:00:00	
32.00	36.00	4.00	Unknown	6.00		2.29		04:00:00	

Drillers Log

From (m)	To (m)	Thickness (m)	Drillers Description	Geological Material	Comments
0.00	1.00	1.00	BLACK SOIL	Invalid Code	
1.00	26.00	25.00	FINE SAND LOAMY CLAYS	Invalid Code	
26.00	34.00	8.00	YELLOW WHITE GRAVELLY SANDS	Invalid Code	
34.00	39.00	5.00	BLACK SHALE	Invalid Code	

Remarks

27/07/2007: Form A Remarks:
ENTERED BY PATRICIA EWERS 11TH OCTOBER 2007.

INFORMATION NOT INCLUDED ON FORM:

NO INFORMATION ON DRAWDOWN LEVEL
NO INFORMATION ON SALINITY
NO INFORMATION ON PUMPING TESTS ON BORE COMPLETION
NO INFORMATION ON WHO CHOSE BORE LOCATION

***** End of GW403817 *****

Warning To Clients: This raw data has been supplied to the NSW Office of Water by drillers, licensees and other sources. The NOW does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.

WaterNSW
Work Summary

GW404164

Licence:
Licence Status:

Authorised Purpose(s):
Intended Purpose(s): DOMESTIC

Work Type: Bore
Work Status: Supply Obtained
Construct.Method: Rotary - Air/F
Owner Type: Private

Commenced Date:
Completion Date: 21/09/2004
Final Depth: 42.00 m
Drilled Depth: 42.00 m

Contractor Name: Bungendore Water Bores
Driller: Daniel Robert Hill
Assistant Driller: Gerrard Hill

Property:
GWMA:
GW Zone:
Standing Water Level (m): 2.000
Salinity Description:
Yield (L/s): 0.750

Site Details

Site Chosen By:

	County	Parish	Cadastre
Form A:	MURRAY	WAMBOIN	1//882770
Licensed:			

Region: 40 - Murrumbidgee
River Basin: 411 - LAKE GEORGE
Area/District:
CMA Map: 8727-2N
Grid Zone:
Scale:

Elevation: 0.00 m (A.H.D.)
Elevation Source: Unknown
Northing: 6096330.000
Easting: 722253.000
Latitude: 35°15'05.4"S
Longitude: 149°26'34.3"E

GS Map: -
MGA Zone: 55
Coordinate Source: GIS - Geogra

Construction

Negative depths indicate Above Ground Level; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity; PL-Placement of Gravel Pack; PC-Pressure Cemented; S-Sump; CE-Centralisers

Hole	Pipe	Component	Type	From (m)	To (m)	Outside Diameter (mm)	Inside Diameter (mm)	Interval	Details
1		Hole	Hole	0.00	42.00	200			Rotary - Air/Foam
1		Annulus	Waterworn/Rounded	0.00	42.00				Graded, Q:2.500m3
1	1	Casing	Pvc Class 9	-0.50	42.00	160	152		Driven into Hole, Screwed and Glued
1	1	Opening	Slots - Vertical	24.00	40.00	160		0	Casing - Hand Sawn Slot, PVC Class 9, Screwed and Glued, SL: 120.0mm, A: 2.00mm

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
5.00	8.00	3.00	Unknown	2.00		0.13			200.00
28.00	31.00	3.00	Unknown	2.00		0.31			200.00
34.00	37.00	3.00	Unknown	2.00		0.38		03:00:00	200.00

Drillers Log

From (m)	To (m)	Thickness (m)	Drillers Description	Geological Material	Comments
0.00	1.00	1.00	SOIL	Soil	
1.00	9.00	8.00	CLAYS - SOFT AND LARGE GRAVELLY SAND	Invalid Code	
9.00	42.00	33.00	SHALES/QUARTZ/SILTSTONE - WEATHERED	Shale	

Remarks

21/09/2004: Form A Remarks:
ENTERED BY PATRICIA EWERS ON 5TH FEBRUARY 2008.

INFORMATION NOT PROVIDED ON FORM:

NO INFORMATION ON DRAWDOWN LEVEL
NO INFORMATION ON WATER TASTE
NO INFORMATION ON PUMPING TESTS ON BORE COMPLETION

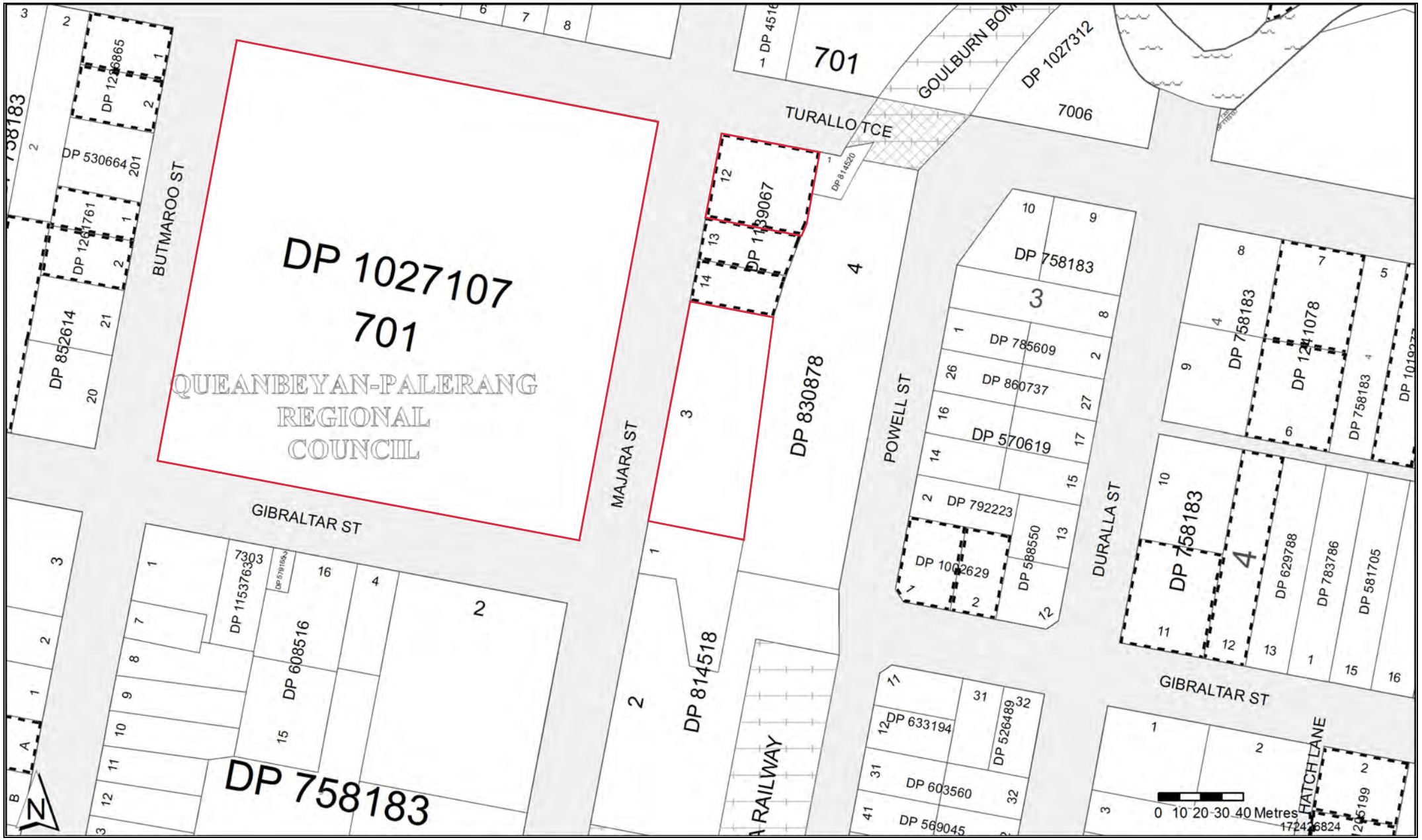
***** End of GW404164 *****

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Cadastral Records Enquiry Report : Lot 3 DP 830878

Ref : Majara Street, Bungendore

Locality : BUNGENDORE
Parish : WAMBOIN
LGA : QUEANBEYAN-PALERANG REGIONAL
County : MURRAY



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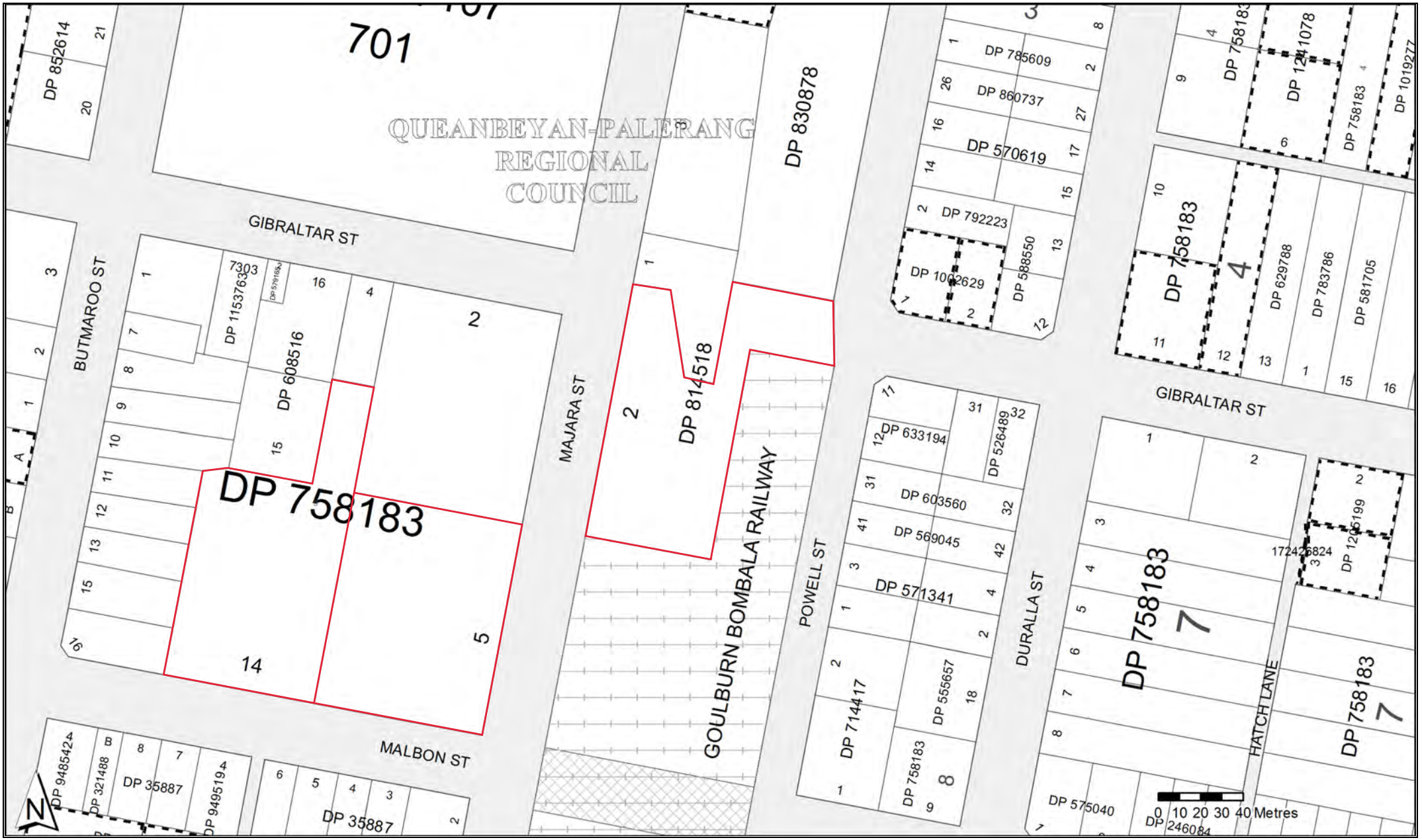
	Status	Surv/Comp	Purpose
DP159293			
Lot(s): A			
CA95444 - LOT A DP159293			
DP747767			
Lot(s): 1			
DP1270361	PRE-ALLOCATED	UNAVAILABLE	RESUMPTION OR ACQUISITION
DP758183			
Lot(s): 17 Section : 2			
CA95382 - LOT 17 SE2 DP758183			
Lot(s): 11, 12 Section : 4			
CA111668 - LOTS 11-12 SECTION 4 DP758183			
DP1002629			
Lot(s): 1, 2			
DP792223	HISTORICAL	SURVEY	SUBDIVISION
DP1019277			
Lot(s): 4			
DP758183	HISTORICAL	COMPILATION	CROWN ADMIN NO.
DP1040690			
Lot(s): 5			
DP1007969	HISTORICAL	SURVEY	SUBDIVISION
DP1139067			
Lot(s): 12, 13, 14			
CA111652 - LOTS 12-14 DP1139067			
DP1205199			
Lot(s): 1, 2, 3			
DP575836	HISTORICAL	SURVEY	SUBDIVISION
DP1226865			
Lot(s): 1, 2			
DP758183	HISTORICAL	COMPILATION	CROWN ADMIN NO.
DP1241078			
Lot(s): 6, 7			
DP758183	HISTORICAL	COMPILATION	CROWN ADMIN NO.
DP1261761			
Lot(s): 1, 2			
DP749828	HISTORICAL	SURVEY	SUBDIVISION
Lot(s): 1			
DP530664	HISTORICAL	SURVEY	SUBDIVISION

Caution: This information is provided as a searching aid only. Whilst every endeavour is made the ensure that current map, plan and titling information is accurately reflected, the Registrar General cannot guarantee the information provided. For **ALL ACTIVITY PRIOR TO SEPTEMBER 2002** you must refer to the RGs Charting and Reference Maps.

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Cadastral Records Enquiry Report : Lot 2 DP 814518

Locality : BUNGENDORE
Parish : WAMBOIN
LGA : QUEANBEYAN-PALERANG REGIONAL
County : MURRAY



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Req:R810549 /Doc:CP 00015-1004 P /Rev:30-Nov-2012 /NSW LRS /Prt:07-May-2021 13:55 /Seq:1 of 1
© Office of the Registrar-General /Src:INFOTRACK /Ref:Majara Street, Bungendore

TOWN OF BUNGENDORE.

PLAN OF THE PARISH OF WAMBOIN

County of Murray.

Shewing Reserves for Public Purposes

Also Adjustments measured for Sale etc in Sections 3. 6. 7. 8. 16. 19. 20. 27. and 28

Transmitted to the Surveyor General with my letter dated 15th Nov 1898

Allots. 17 & 18 pt Allot 6 Sec. 22 Acquired for Hospital Purposes Gaz 5.19.8, 4.9.1901 Gazetted 13.6.02.

Allot 1 & 2 Sec 20, 5.1.06 for another Hospital Purpose Gaz 5.1.06

Allots 1 to 4 Sec 20, 5.1.06 for another Hospital Purpose Gaz 5.1.06

PLAN MICROFILMED

RE ADDITIONS OR ALTERATIONS TO BE MADE

B 15 1004

15-1004

[6115]

Department of Lands,
Sydney, 19th September, 1884.

HIS Excellency the Governor, with the advice of the Executive Council, has been pleased to dedicate the Crown Lands hereunder described, for the several public purposes mentioned in connection therewith, an Abstract of such intended dedication having been laid before Parliament, in accordance with the 5th section of the Crown Lands Alienation Act of 1861.

[Ms. 84-18,930]

JAMES S. FARNELL.

List No. 21 of 1884.

Place.	County.	Allotment.	Section.	Portion.	Locality.	Area.	To what purpose dedicated.	No. of Papers.	Cat. No. of Plan.
						a. r. p.		Ms.	
Arakoon	Macquarie	2	22	.....	Town of Arakoon	2 0 19	Public School Site	84- 6,681	P. 1,143-1,978
Bokhara	Narran.....	.....	16	.....	Village of Bokhara.....	3 0 28	do	9,505	P. 1,171-1,978
Bang Bang.....	Forbes	.....	....	49	Parish of Bang Bang....	2 0 0	do	8,162	P. 1,213-1,978
Boree Cabonne ..	Ashburnham ..	.....	....	248	Parish of Boree Cabonne	2 0 0	do	8,316	P. 1,215-1,978
Bluff Rock	Clive.....	.....	....	158	Parish of Bluffland.....	2 0 0	do	7,915	P. 1,220-1,978
Bungendore	Murray.....	.....	26	.....	Village of Bungendore ..	10 0 14	Pubic Recreation	13,163	B. 15-1,004R
Calabash	Monteagle	.....	....	79	Parish of Willawong	2 0 0	Public School Site	8,477	P. 1,231-1,978
Eringonia	Culgoa	3, 4, 5	5	.....	Town of Eringonia.....	1 2 0	do	8,282	E. 1-2,031
Fladbury.....	Gough	.....	....	22	Parish of Fladbury.....	2 0 2	do	8,107	P. 1,238-1,978
Galore	Urana	.....	....	59	Parish of Galore.....	2 0 0	do	8,224	P. 1,217-1,978
Hannah Bay	Gloucester	.....	....	1	Parish of Tomaree	2 0 0	do	8,167	P. 1,236-1,978
Horse-shoe Bend	Clive	.....	....	116	Parish of Bolivia.....	2 0 0	do	9,443	P. 1,221-1,978
Kiandra	Wallace	.....	....	30	Town of Kiandra	2 0 0	do	83-24,545	P. 1,205-1,978
Mount Hope ...	Blaxland	.....	....	71	Parish of Mount Hope ..	2 0 0	do	84- 8,165	P. 1,201-1,978
Nambucca Heads	Raleigh	.....	....	1A	Village of Nambucca ..	1 0 36	do	6,998	P. 1,276-1,978
Nymagee.....	Mouramba	1	21	.....	Village of Nymagee	2 2 24	do	6,064	P. 1,269-1,978
Do	do	.....	....	.....	At Nymagee.....	about 12 0 14	General Cemetery	13,508	N. 1-2,242R
Nyngan	Oxley	2	13	.....	Village of Nyngan	2 0 0	Public School Site	2,092	P. 1,247-1,978
Wallamba River..	Gloucester	.... .	....	132	Parish of Wollom	3 1 38	do	10,593	P. 1,232-1,978
Walgett	Baradine	.....	....	.....	Parish of Walgett	109 0 0	Public Recreation	12,993	L. 179-1,834aa
Teramby	Gloucester	2	1 and	71	Village of Teramby	1 2 20	Public School Site	81- 6,092	G. 936-1,497 and T. 1-2,270R

[6114]

Department of Lands,
Sydney, 19th September, 1884.

HIS Excellency the Governor, with the advice of the Executive Council, has been pleased to dedicate the Crown Lands hereunder described for the use of the Pastoral and Agricultural Associations mentioned in connection therewith, an Abstract of such intended dedication having been laid before Parliament in accordance with the 32nd section of the Lands Acts Amendment Act of 1875.

[Ms. 84-18,929]

JAMES S. FARNELL.

List No. 22 of 1884.

Place.	County.	Allotment.	Section.	Portion.	Locality.	Area.	Name of Association.	No. of Papers.	Cat. No. of Plan.
						a. r. p.		Ms.	
Candelo	Auckland	.....	....	177	Town of Candelo	13 2 30	Candelo Agricultural and Pastoral Association.	84-11,476	C. 13-1,006
Germanton.....	Goulburn.....	.....	....	186	At Germanton.....	7 0 38	Germanton Pastoral and Agricultural Society.	84-10,836	G. 3-2,229
Wilcannia	Young	.....	....	84	At Wilcannia	20 0 0	Wilcannia Pastoral Society	84- 8,911	W. 12-1,937

[4324]

Department of Lands,
Sydney, 22nd July, 1884.

HIS Excellency the Governor, with the advice of the Executive Council, is pleased to notify that the following reserved or boundary road, a tracing of which may be seen at the office of the Crown Lands Agent, Windsor, which has been applied for to be closed and alienated under the 10th section of the Crown Lands Alienation Act of 1861, will be closed at the expiration of three months after the date of this notice, if no valid objections be previously lodged, and a grant of the site of the road so closed, will issue in accordance with such application; and all persons interested are invited to state, within three months from this date, their objections, if any, to such road being closed or to such grant being made.

JAMES S. FARNELL.

SCHEDULE OF AN UNNECESSARY ROAD applied for to be closed and alienated under the 10th clause of the Crown Lands Alienation Act of 1861.

Registration No.	Applicant.	Area.	Parish.	County.	Description.
Ms. 84-1351	G. A. Cleeve	a. r. p. 0 3 10	Kurrajong	Cook	The southern half of a reserved road 1 chain wide passing along and within the south boundary of B. Singleton's (now William Lamrock's) portion of 50 acres, and extending from the south-west corner of that land to a point 20 feet west from its south-east corner.

National Library of Australia http://nla.gov.au/nla.news-page12873514

[6467] Colonial Secretary's Office,
Sydney, 2nd October, 1884.

HIS Excellency the Governor directs it to be notified, for general information, that the Principal Secretary of State for the Colonies has intimated in his Despatch of the 8th August last, No. 60, that the Queen will not be advised to exercise her power of disallowance in respect of the following Acts, passed by the Legislature of this Colony, viz. :—

47 VICTORIA.

No. 18. "An Act to amend the eighth section and the four hundred and forty-sixth and four hundred and forty-ninth sections of the Criminal Law Amendment Act of 1883."

No. 19. An Act to apply certain sums out of the Consolidated Revenue Fund of New South Wales towards the services of the year 1884.

PRIVATE ACT.

An Act to authorise the construction by the Great Cobar Copper Mining Company (Limited) of a tramway over certain roads and Government Reserves and vacant Crown Lands in the Colony of New South Wales.

ALEX. STUART.

[6443] General Post Office,
Sydney, 1st October, 1884.

THE undermentioned persons have been authorized to sell Postage Stamps from the dates set against their names respectively, viz. :—

1884.
3 Sept.—Mr. Joseph Both, Botany Road, Waterloo.
10 " M. E. C. Cocks, Redfern-street, Redfern.
12 " Railway Station-master, Hamilton.
13 " Mr. P. Lensi, 67, Oxford-street, Sydney.
13 " Mr. Chas. A. Johnson, Euroka-street, St. Leonard's.
17 " Messrs. Beale & Co., 371a, Pitt-street, Sydney.
18 " Mr. Herbert Edridge, 424 (in lieu of 420), Elizabeth-street, Strawberry Hills.
20 " Mr. John M'Caskie, Crescent-street, Balmain.
20 " Mr. James Mitchell, 15, King-street, Newtown.
23 " Mr. C. R. Stone, 23, William-street East, Sydney.
26 " Mrs. E. M'Gregor, Tram Terminus, Waverley.

JAMES NORTON.

[6444] General Post Office,
Sydney, 25th September, 1884.

HIS Excellency the Governor, with the advice of the Executive Council, has approved of the exchange at the General Post Office, for cash, of spoiled but unused stamped envelopes, in lots bearing stamps to the value of not less than £1. A discount of 10 per centum will be charged for the accommodation.

JAMES NORTON.

[6321] General Post Office,
Sydney, 25th September, 1884.

REDUCTION IN RATES OF POSTAGE ON PACKETS BOOKS, AND BULK PARCELS OF NEWSPAPERS.

HIS Excellency the Governor, with the advice of the Executive Council, has been pleased to approve of the following rates of postage being levied, on and after the 1st October next, on packets and books and also on bulk parcels containing newspapers over seven days old or printed out of the Colony, namely.:—

	s.	d.
Packets of patterns or samples—For every 2 ozs. or under	0	1
Book Packets—For every 4 ozs. or under	0	1
Bulk parcels containing newspapers over seven days old, or printed out of the Colony and posted by registered newspaper publishers or by newsvendors—per pound or fraction thereof	0	1

The above rates to be charged on packets, books, and newspapers posted for transmission within the Colony, as well as on those for the other Australian Colonies, New Zealand, and Fiji.

JAMES NORTON.

[6419] Department of Mines,
Stock Branch,
Sydney, 3rd October, 1884.

COMMONS REGULATION ACT OF 1873.—ERINGONIA COMMON.

NOTICE is hereby given that Mr. Robert Lack has been duly elected a Trustee of the Eringonia Common, vice Willoughby, resigned, for the unexpired period of three years from January, 1883.

JOSEPH P. ABBOTT.

[6420] Department of Mines,
Stock Branch,
Sydney, 3rd October, 1884.

COMMONS REGULATION ACT OF 1873.—BOWLING ALLEY POINT COMMON.

NOTICE is hereby given that Messrs. Francis Mullaroy and James P. Robertson have been duly elected Trustees of the Bowling Alley Point Common, vice Westaway and Hickling, resigned, for the unexpired period of three years from January, 1883.

JOSEPH P. ABBOTT.

[6405] Department of Lands,
Sydney, 3rd October, 1884.

RECREATION GROUNDS.

THE boundaries of the undermentioned areas, dedicated on the 19th ultimo, for Public Recreation, are hereby published for general information.

JAMES S. FARNELL.

BUNGENDORE.

Area 10 acres 0 roods 14 perches: Commencing at the intersection of the south side of Turallo-terrace with the eastern side of Butmaro-street; and bounded thence on the north by part of the south side of that terrace bearing south 89 degrees 45 minutes east 10 chains 8 links to the western side of Majara-street; thence on the east by part of the western side of that street bearing south 10 chains to the northern side of Gibraltar-street; thence on the south by part of the northern side of that street bearing west 10 chains 5½ links to the eastern side of Butmaro-street aforesaid; thence on the west by part of the eastern side of that street bearing north 10 minutes west 10 chains 4½ links, to the point of commencement, being section No. 26, village of Bungendore, as shown on plan catalogued B. 15–1,004 Roll, Surveyor General's Office. [Ms. 84–13,163]

WALGETT.

County of Baradine, parish of Walgett, area 109 acres: Commencing at the intersection of the north side of Montkeila-street with the east side of Darling-street; and bounded thence on the south by that side of Montkeila-street bearing east 56 chains; on the east by the west boundary of camping reserve No. 1,845, notified 20th November, 1882, bearing north to the Namoi River; and thence on the north by that river downwards to the east side of Darling-street aforesaid; and thence on the west by that side of that street bearing south, to the point of commencement.

The above is situated in the town of Walgett, and is shown on plan catalogued L. 179–1,834a Roll, Surveyor General's Office. [Ms. 84–12,993]

Department of Lands,
Sydney, 30th September, 1884.

APPROACHING LAND SALES.

CROWN LANDS have been advertised in the Government Gazette for sale at the undermentioned places and dates:—

1884.	No. Gazette.
ARMIDALE—	
Monday, 27 Oct.	490
CANDELO—	
Tuesday, 14 Oct.	465
CASSILIS—	
Monday, 27 Oct.	490
COOMA—	
Monday, 13 Oct.	465
CONDOUBLIN—	
Monday, 6 Oct.	451
COROWA—	
Wednesday, 22 Oct.	479
DENILIQUIN—	
Wednesday, 22 Oct.	479
DUBBO—	
Monday, 13 Oct.	465
Wednesday, 22 Oct.	479
FORBES—	
Monday, 6 Oct.	451
GREENFELL—	
Monday, 6 Oct.	451
GLENBROOK—	
Saturday, 18 Oct.	473
Saturday, 25 Oct.	473
GOULBURN—	
Monday, 6 Oct.	451
GUNNING—	
Monday, 6 Oct.	451
GUNNEDAH—	
Monday, 27 Oct.	490
MILPARINKA—	
Monday, 27 Oct.	490
MUSCLEBROOK—	
Monday, 27 Oct.	490
ORANGE—	
Monday, 27 Oct.	490
PARKES—	
Wednesday, 22 Oct.	479
PATERSON—	
Monday, 27 Oct.	490
TAMWORTH—	
Monday, 27 Oct.	490
TAREE—	
Monday, 27 Oct.	490
URANA—	
Wednesday, 22 Oct.	479
WALCHA—	
Monday, 27 Oct.	490
WEST KEMPSEY—	
Wednesday, 22 Oct.	479
WILCANNIA—	
Wednesday, 22 Oct.	479

JAMES S. FARNELL.

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NEW SOUTH WALES, to wit. } Proclamation by His Excellency The Right Honourable CHARLES ROBERT, BARON CARRINGTON, a Member of Her Majesty's Most Honourable Privy Council, Knight Grand Cross of the Most Distinguished Order of Saint Michael and Saint George, Governor and Commander-in-Chief of the Colony of New South Wales and its Dependencies.

(L.S.) CARRINGTON, *Governor.*

WHEREAS by the "Public Parks Act of 1884," it is enacted that it shall be lawful for the Governor to appoint Trustees of any lands which have been already, or may hereafter be dedicated for the purposes of public recreation, convenience, health, or enjoyment: Now, therefore, I, CHARLES ROBERT, BARON CARRINGTON, the Governor aforesaid, with the advice of the Executive Council, do hereby (with a view to the appointment of Trustees under the said Act), by this my Proclamation declare the land hereinafter described, which has been dedicated for the purpose of Public Recreation at Bungendore, to be a Public Park within the meaning of the "Public Parks Act of 1884," and that it be known by the name of "Bungendore Park," that is to say:—

County of Murray, parish of Wamboin, village of Bungendore, area 10 acres 0 roods 14 perches: Commencing at the intersection of the south side of Turallo Terrace, with the eastern side of Butmaro-street, and bounded thence on the north by part of the south side of that terrace bearing south 89 degrees 45 minutes east 10 chains 8 links to the western side of Majara-street; thence on the east by part of the western side of that street bearing south 10 chains to the northern side of Gibraltar-street; thence on the south by part of the northern side of that street, bearing west 10 chains 5½ links to the eastern side of Butmaro-street aforesaid; thence on the west by part of the eastern side of that street bearing north 10 minutes west 10 chains 4½ links to the point of commencement,—being section No. 26, village of Bungendore, as shown on plan catalogued B. 15-1,004 Roll, Surveyor General's Office.

Given under my Hand and Seal, at Government House, Sydney, this twenty-ninth day of July, in the year of our Lord one thousand eight hundred and eighty-six, and in the fiftieth year of Her Majesty's Reign.

By His Excellency's Command,
JAMES FLETCHER.

[4524] GOD SAVE THE QUEEN!

NEW SOUTH WALES, to wit. } Proclamation by His Excellency The Right Honourable CHARLES ROBERT, BARON CARRINGTON, a Member of Her Majesty's Most Honourable Privy Council, Knight Grand Cross of the Most Distinguished Order of Saint Michael and Saint George, Governor and Commander-in-Chief of the Colony of New South Wales and its Dependencies.

(L.S.) CARRINGTON, *Governor.*

WHEREAS by the "Public Parks Act of 1884," it is enacted that it shall be lawful for the Governor to appoint Trustees of any lands which have been already or may hereafter be dedicated for the purpose of public recreation, convenience, health, or enjoyment: Now, therefore, I, CHARLES ROBERT, BARON CARRINGTON, the Governor aforesaid, with the advice of the Executive Council, do hereby (with a view to the appointment of Trustees under the said Act), by this my Proclamation declare the land hereinafter described, which has been dedicated for the purpose of public recreation at Maclean, to be a Public Park within the meaning of the "Public Parks Act of 1884," and that it be known by the name of "Maclean Park," that is to say:—

159 acres 3 roods, county of Clarence, parish of Taloumbi, portion No. 234: Commencing on the southern side of a road 2 chains wide at a point distant 2 chains south from the south-western corner of portion No. 192 of 80 acres; and bounded thence on the north by that road dividing it from that portion and from part of portion No. 198 of 54 acres bearing east 40 chains and 74 links; on the east by a line bearing south 40 chains; on the south by a line bearing west 40 chains and 74 links; on the west by a line bearing north 40 chains, to the point of commencement,—exclusively of a road 1 chain wide passing through this land in a south-easterly, and thence in a southerly direction, the area of which has been deducted from the total area.

Given under my Hand and Seal, at Government House, Sydney, this twenty-ninth day of July, in the year of our Lord one thousand eight hundred and eighty-six, and in the fiftieth year of Her Majesty's Reign.

By His Excellency's Command,
JAMES FLETCHER.

[4525] GOD SAVE THE QUEEN!

[4939] Department of Justice,
Sydney, 3rd August, 1886.

HIS Excellency the Governor, with the advice of the Executive Council, has been pleased to appoint

THOMAS LEAN, Esquire, J.P.,

to be the Licensing Magistrate of the Licensing Court for the Licensing District of Cobar, pending the appointment of a Police Magistrate at that place vice Davies, transferred.

JAMES P. GARVAN.

[4938] Department of Justice,
Sydney, 3rd August, 1886.

HIS Excellency the Governor, with the advice of the Executive Council, has been pleased to appoint

OSWALD JAQUES, Esquire, J.P.,

to be the Licensing Magistrate of the Licensing Court for the Licensing District of Nymagee, pending the appointment of a Police Magistrate at Cobar, vice Davies, transferred.

JAMES P. GARVAN.

[4937] Department of Justice,
Sydney, 3rd August, 1886.

HIS Excellency the Governor, with the advice of the Executive Council, has been pleased to appoint

Senior-constable JAMES KENNY

to be Acting Clerk of Petty Sessions at Obley, vice Murphy, transferred,—to take effect from 1st ultimo.

JAMES P. GARVAN.

[4936] Department of Justice,
Sydney, 3rd August, 1886.

HIS Excellency the Governor, with the advice of the Executive Council, has been pleased to appoint

Senior-constable GEORGE BARNEIT

to be Acting Clerk of Petty Sessions at Howlong, vice Nickson,—to take effect from the 1st ultimo.

JAMES P. GARVAN.

[4923] General Post Office,
Sydney, 30th July, 1886.

HIS Excellency the Governor, with the advice of the Executive Council, has been pleased to approve of the following appointment, promotions, and change, viz.:—

Mrs. CAROLINE PALMER

to be 4th Class Post and Telegraph Mistress at St. Mary's, vice Russell, transferred;

Mr. GEORGE IRELAND, Telegraph Messenger at Woodburn,

to be 4th Class Telegraph Operator at Armidale;

Mr. FREDERICK ABRAMS, Telegraph Operator at Gabo Island,

to be 4th Class Telegraph Operator at Green Cape, vice Walter;

Miss MARY JANE DAVIES, Telegraph Operator at Balmain,

to be 4th Post and Telegraph Mistress at Hunter's Hill, vice Twentyman, resigned;

Mr. FREDERICK THOMAS SOUTH, Telegraph Operator at William-street,

to be 3rd Class Post and Telegraph Master at Broken Hill;

Mr. GEORGE LOBSEY, 4th Class Post and Telegraph Master at Pooncarie,

to be 3rd Class Post and Telegraph Master at Balranald, vice Jefferson;

Mr. THOMAS BARCLAY, Telegraph Operator at Bourke,

to be 4th Class Post and Telegraph Master at Pooncarie, vice Lobsey;

Mr. FRANK WALLER, Telegraph Operator at Goulburn,

to be 4th Class Post and Telegraph Master at Sutton Forest, vice KNOX;

Mr. J. A. KNOX, Post and Telegraph Master at Sutton Forest,

to be 4th Class Telegraph Operator at Goulburn.

F. B. SUTTOR.

[4921] General Post Office,
Sydney, 30th July, 1886.

HIS Excellency the Governor, with the advice of the Executive Council, has been pleased to approve of the following change, viz.:—

Mr. CHARLES MOXHAM, 4th Class Post and Telegraph Master, Marulan,

to be 4th Class Operator at Bourke.

F. B. SUTTOR.

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Historical Title

NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE
29/4/2021 10:30AM

FOLIO: 701/1027107

First Title(s): THIS FOLIO
Prior Title(s): CROWN LAND

Recorded	Number	Type of Instrument	C.T. Issue
9/5/2001	DP1027107	DEPOSITED PLAN	LOT RECORDED FOLIO NOT CREATED
3/4/2009	CA142782	CONVERSION ACTION	FOLIO CREATED CT NOT ISSUED
17/11/2010	AF883074	DEPARTMENTAL DEALING	

*** END OF SEARCH ***

Majara Street, Bungendore PRINTED ON 29/4/2021

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Received: 29/04/2021 10:30:50

Title Search

NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

FOLIO: 701/1027107

SEARCH DATE	TIME	EDITION NO	DATE
29/4/2021	10:19 AM	-	-

CERTIFICATE OF TITLE HAS NOT ISSUED

LAND

LOT 701 IN DEPOSITED PLAN 1027107
AT BUNGENDORE
LOCAL GOVERNMENT AREA QUEANBEYAN-PALERANG REGIONAL
PARISH OF WAMBOIN COUNTY OF MURRAY
TITLE DIAGRAM DP1027107

FIRST SCHEDULE

THE STATE OF NEW SOUTH WALES (CA142782)

SECOND SCHEDULE (3 NOTIFICATIONS)

* 1 THE LAND IS A RESERVE WITHIN THE MEANING OF PART 5 OF THE CROWN LANDS ACT 1989 AND THERE ARE RESTRICTIONS ON TRANSFER AND OTHER DEALINGS IN THE LAND UNDER THAT ACT, WHICH MAY REQUIRE CONSENT OF THE MINISTER.
* 2 LIMITED TITLE. LIMITATION PURSUANT TO SECTION 28T(4) OF THE REAL PROPERTY ACT, 1900. THE BOUNDARIES OF THE LAND COMPRISED HEREIN HAVE NOT BEEN INVESTIGATED BY THE REGISTRAR GENERAL.
* 3 THE LAND IS DEDICATED FOR A PUBLIC PURPOSE

NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

* Any entries preceded by an asterisk do not appear on the current edition of the Certificate of Title. Warning: the information appearing under notations has not been formally recorded in the Register. InfoTrack an approved NSW Information Broker hereby certifies that the information contained in this document has been provided electronically by the Registrar General in accordance with Section 96B(2) of the Real Property Act 1900.

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Received: 29/04/2021 10:18:39

1. Agreement with Council re maintenance of crossings ; 38/3643RE ; H 230.100

2. Re proposed alienation of R.A 182 & closure parts Duralla v Powell Sts. EA 47-8643503 RE. vide Gaz of 16.5.43 . & 57/665 Illaw.

3. Def^n of bdys by Pearce. PA 40473 58864702 RE 10382 Approved on 30-3-56.

4 Leases by Council of Pump House, Well, & Tank. R1837 L 6420 EA 63/851846 P+S.

5 Relocation of L Xing sign approx 350ft along eastern road approach 60/52/1803 wrm.

6. Application by Mr & Mrs J.A. Hession to purchase Authority land - declined Pps 178160

7. Nil obj to the definitions of Authority bdy by surveyor Peter Gill Pps 284755 F25886

8. CST: ISSUED FOR LOTS 1 & 2 DP 814520 Pps 215937 F25841 H318, H319.100.

9. CST ISSUED FOR LOTS 1 & 2 DP 814518 Pps 215937 F25840 H320 H321.100.

10. LOT 1 DP 814518 SOLD TO G. HANDCOCK & P. ORR FOR $96000 ON 2.10.91 Pps 215942 F25840. Comp 183.92.

11. LOT 1 DP 814520 SOLD TO PG. BROWNBILL & V. TALSMA FOR $58000 ON 18.5.92 Pps 215937. Comp 317.92 F25841.

12. CT ISSUED FOR LOTS 3 & 4 DP 830878 Pcs NIL. F26803. H 337.100 H338.100.

13. LOT 38 DP 830878. SOLD TO YARROWLUMLA SHIRE CNCL. $73000 ON 30.4.93 Pps 212760 F26808. 217.93.

Withd'l of objection to granting of Sp. Lse. of RR 184 L.G. 16.3.2016 P.E.

THIS WORKING PLAN IS OBSOLETE. DATED. 28 APR 1998 FOR REFERENCING UPDATING PLEASE USE G.I.S.

27

BUNGENDORE

Re Village Map
EA 30-2932

MODBURY ST.

MULLION STREET

GIBRALTAR STREET

DURALLA STREET

TURALLO STREET

POWELL STREET

MAJARA STREET

CREEK

Reserve for British Pasturage

Reserve

Parsonage

Church

Public School

Schoolmaster's Residence

Police Reserve

Public Recreation

Court House

Police

Boundary

Reserve

Rad: 15 Ch^s

12 Miles

END OF CONTRACT

No 182. 3a 1r 34p by Deed H 145.100

Transfer of lease of land from 181 A&P to 182 A&P by Deed = 0a 3r 29p? Vide H 135.100

Note, Area of 181, 182, 179, by Deed = 0a 3r 29p?

Re proposed resumption of R 605 EA 63/1357

Vide H 135.100

Vide H 145.100

Vide H 105.100

H 321.100

H 338.100

H 337.100

Extra 2-3-5
Total 3-3-31

0a 0r 1p

Encl. Ltr Sec. 17-8-94

P 65

Historical Title

NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE
29/4/2021 10:30AM

FOLIO: 12/1139067

First Title(s): OLD SYSTEM
Prior Title(s): BK 2095 NO 657

Recorded	Number	Type of Instrument	C.T. Issue
9/5/2009	DP1139067	DEPOSITED PLAN	LOT RECORDED FOLIO NOT CREATED
9/5/2009	CA111652	CONVERSION ACTION	FOLIO CREATED CT NOT ISSUED
28/5/2009	AE715175	DEPARTMENTAL DEALING	EDITION 1
3/1/2012	AG446901	LEASE	EDITION 2

*** END OF SEARCH ***

Majara Street, Bungendore PRINTED ON 29/4/2021

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Received: 29/04/2021 10:30:50

Title Search

NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

FOLIO: 12/1139067

SEARCH DATE	TIME	EDITION NO	DATE
29/4/2021	10:18 AM	2	3/1/2012

LAND

LOT 12 IN DEPOSITED PLAN 1139067
AT BUNGENDORE
LOCAL GOVERNMENT AREA QUEANBEYAN-PALERANG REGIONAL
PARISH OF WAMBOIN COUNTY OF MURRAY
TITLE DIAGRAM DP1139067

FIRST SCHEDULE

PALERANG COUNCIL (CA111652)

SECOND SCHEDULE (4 NOTIFICATIONS)

1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
2 QUALIFIED TITLE. CAUTION PURSUANT TO SECTION 28J OF THE REAL PROPERTY ACT, 1900. ENTERED 9.5.2009. BK 2095 NO 657
3 LIMITED TITLE. LIMITATION PURSUANT TO SECTION 28T(4) OF THE REAL PROPERTY ACT, 1900. THE BOUNDARIES OF THE LAND COMPRISED HEREIN HAVE NOT BEEN INVESTIGATED BY THE REGISTRAR GENERAL.
4 AG446901 LEASE TO SOUTH COAST HOME MODIFICATION & MAINTENANCE SERVICE LIMITED OF MEETING ROOM 1, STORAGE ROOM 1 & STORAGE ROOM 2, BUNGENDORE COMMUNITY CENTRE AND LIBRARY BUILDING, 4 MAJARA STREET, BUNGENDORE. EXPIRES: 14/7/2014.

NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

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Received: 29/04/2021 10:18:40

Historical Title

NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE
29/4/2021 10:30AM

FOLIO: 2/814520

First Title(s): OLD SYSTEM
Prior Title(s): CA52077

Recorded	Number	Type of Instrument	C.T. Issue
13/1/1992	CA52077	CONVERSION ACTION	FOLIO CREATED EDITION 1
28/1/1992	E218796	DEPARTMENTAL DEALING	
17/6/1993	DP830878	DEPOSITED PLAN	FOLIO CANCELLED

*** END OF SEARCH ***

Majara Street, Bungendore PRINTED ON 29/4/2021

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Received: 29/04/2021 10:30:52

Req:R810832 /Doc:DL I515583 /Rev:23-Apr-2010 /NSW LRS /Pgs:ALL /Prt:07-May-2021 14:17 /Seq:1 of 1
© Office of the Registrar-General /Src:INFOTRACK /Ref:INFOTRACKajara Street, Bungendore

RP13

[redacted]

TRANSFER

Real Property Act, 1900

I 515583 X

OFFICE OF STATE REVENUE (N.S.W. TREASURY) 1992/93 $3 NO STAMP DUTY IS PAYABLE ON THIS INSTRUMENT

Office of State Revenue use only

(A) [redacted]

Show no more than 20 References to Title.
If appropriate, specify the share transferred.

[redacted]

(B) **LODGED BY**

L.T.O. Box	Name, Address or DX and Telephone
28A	GALLOWAY & CO. Phone: 233-1011 Fax: 23[illegible] DX 340 L.T.O. Delivery [illegible] REFERENCE (max. 15 characters): BADEN YARROWLUMLA

(C) [redacted] 28 JUN 1993 [redacted]

(D) acknowledges receipt of the consideration of $73,000.00

and as regards the land specified above transfers to the transferee an estate in fee simple

(E) subject to the following **ENCUMBRANCES** 1. ..... 2. ..... 3. .....

(F) [redacted]

(G) [redacted] as joint tenants/tenants in common

(H) We certify this dealing correct for the purposes of the Real Property Act, 1900. **DATE** 21.7.1993

Signed in my presence by the transferor who is personally known to me.

..... Signature of Witness

..... Name of Witness (BLOCK LETTERS)

..... Address of Witness

The Common Seal of STATE BAIL AUTHORITY OF NEW SOUTH WALES was hereunto affixed in the presence of:-

AUTHORISED OFFICER

..... Signature of Transferor

Signed in my presence by the transferee who is personally known to me.

..... Signature of Witness

..... Name of Witness (BLOCK LETTERS)

..... Address of Witness

..... Signature of Transferee

W J Baker
Solicitor for the transferee

☞ INSTRUCTIONS FOR FILLING OUT THIS FORM ARE AVAILABLE FROM THE LAND TITLES OFFICE

(CHECKED BY Office use only)

26 A

BDN

Historical Title

NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE
29/4/2021 10:30AM

FOLIO: 3/830878

First Title(s): OLD SYSTEM
Prior Title(s): 2/814520

Recorded	Number	Type of Instrument	C.T. Issue
17/6/1993	DP830878	DEPOSITED PLAN	FOLIO CREATED EDITION 1
27/7/1993	I515583	TRANSFER	EDITION 2
6/5/2004	AA611120	DEPARTMENTAL DEALING	
14/9/2015	AJ811575	DEPARTMENTAL DEALING	

*** END OF SEARCH ***

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Title Search

NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

FOLIO: 3/830878

SEARCH DATE	TIME	EDITION NO	DATE
29/4/2021	10:18 AM	2	27/7/1993

LAND

LOT 3 IN DEPOSITED PLAN 830878
AT BUNGENDORE
LOCAL GOVERNMENT AREA QUEANBEYAN-PALERANG REGIONAL
PARISH OF WAMBOIN COUNTY OF MURRAY
TITLE DIAGRAM DP830878

FIRST SCHEDULE

YARROWLUMLA SHIRE COUNCIL (T I515583)

SECOND SCHEDULE (0 NOTIFICATIONS)

NIL

NOTATIONS

NOTE: THE CERTIFICATE OF TITLE FOR THIS FOLIO OF THE REGISTER DOES NOT INCLUDE SECURITY FEATURES INCLUDED ON COMPUTERISED CERTIFICATES OF TITLE ISSUED FROM 4TH JANUARY, 2004. IT IS RECOMMENDED THAT STRINGENT PROCESSES ARE ADOPTED IN VERIFYING THE IDENTITY OF THE PERSON(S) CLAIMING A RIGHT TO DEAL WITH THE LAND COMPRISED IN THIS FOLIO.

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

* Any entries preceded by an asterisk do not appear on the current edition of the Certificate of Title. Warning: the information appearing under notations has not been formally recorded in the Register. InfoTrack an approved NSW Information Broker hereby certifies that the information contained in this document has been provided electronically by the Registrar General in accordance with Section 96B(2) of the Real Property Act 1900.

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Historical Title

NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE
29/4/2021 10:31AM

FOLIO: 1/124205

First Title(s): VOL 241 FOL 98
Prior Title(s): VOL 241 FOL 98

Recorded	Number	Type of Instrument	C.T. Issue
7/8/1991		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED
6/1/1992	DP814518	DEPOSITED PLAN	FOLIO CANCELLED

*** END OF SEARCH ***

Majara Street, Bungendore PRINTED ON 29/4/2021

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Historical Title

NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE
29/4/2021 10:30AM

FOLIO: 2/124205

First Title(s): VOL 459 FOL 90
Prior Title(s): VOL 459 FOL 90

Recorded	Number	Type of Instrument	C.T. Issue
7/8/1991		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED
6/1/1992	DP814518	DEPOSITED PLAN	FOLIO CANCELLED

*** END OF SEARCH ***

Majara Street, Bungendore PRINTED ON 29/4/2021

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Historical Title

NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE
29/4/2021 10:30AM

FOLIO: 2/814518

First Title(s): OLD SYSTEM VOL 241 FOL 98
VOL 459 FOL 90
Prior Title(s): 1-2/124205 CA52076

Recorded	Number	Type of Instrument	C.T. Issue
6/1/1992	DP814518	DEPOSITED PLAN	FOLIO CREATED EDITION 1
6/5/2004	AA611120	DEPARTMENTAL DEALING	
17/2/2011	AG73762	LEASE	EDITION 2

*** END OF SEARCH ***

Majara Street, Bungendore PRINTED ON 29/4/2021

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Title Search

NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

FOLIO: 2/814518

SEARCH DATE	TIME	EDITION NO	DATE
29/4/2021	10:18 AM	2	17/2/2011

LAND

LOT 2 IN DEPOSITED PLAN 814518
AT BUNGENDORE
LOCAL GOVERNMENT AREA QUEANBEYAN-PALERANG REGIONAL
PARISH OF WAMBOIN COUNTY OF MURRAY
TITLE DIAGRAM DP814518

FIRST SCHEDULE

STATE RAIL AUTHORITY OF NEW SOUTH WALES

SECOND SCHEDULE (1 NOTIFICATION)

1 AG73762 LEASE TO PATRICIA CREEGAN OF ROOMS 2,3,4 & 6 BUNGENDORE RAILWAY STATION. EXPIRES: 30/6/2015.

NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

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Req:R789205 /Doc:CP 00017-1004 P /Rev:24-Nov-2012 /NSW LRS /Prt:05-May-2021 07:03 /Seq:1 of 1
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QUEANBEYAN.

92.337

PLAN OF ~~PORTION~~ Allot.5 Sec.9
VILLAGE OF BUNGENDORE.

County of Murray Parish of Wamboin

Land District of Queanbeyan Land Board District of Cooma

~~Resumed Area N°~~ ~~Pastoral Holding~~ Eastern Division

Applied for under the Section of the Crown Lands Act of 188 by

Cancels part of B14 1004

Por. N° ..... C.P. N° .....

Por. N° ..... C.L. N° .....

Measured for School purposes

[redacted]

To Goulburn

26 B16

Res. for Pub.c Recreation

Dedicated 3rd Oct.r 1884

10. 0. 14.

Gibraltar St.

R 14019 Res.d Telegraph Office Notified 27th June '91 0. 2. 28

Watch-house B13 0. 2. 0

A School of Arts B16 0. 1. 0

2 P224 1978 Pub.c School Dedicated 8th Jan.y 1875 2. 0. 0

Sec 9

Police Reserve

5. 1. 0

B14 1004

Post of fence

paling 400 Fence

5

2ac.

503 fence 360.

503

Post of fence

pcb tree 400 rail

Post of fence

Majara St.

1

LINE

B.R. 5. N°1.

St.

St.

Malbon St.

1	2	17	18
a Johnston 0. 1. 38	Johnston 0. 1. 38	F.S. Falconer 0. 1. 38	A. Chapman 0. 1. 38

22 B16

RAILWAY

from Nicholago River

PLAN MICROFILMED

NO ADDITIONS OR AMENDMENTS TO BE MADE

Certified Tracing to Head Office 16.2.92

Azimuth taken from

Field Book Vol. III Folio 21

Reference to Corners

Corner	Bearing	From	Links.	N°. on Tree

Reference to Traverse

Line	Bearing	Distance

Value of Improvements

I hereby certify that I in person made and on the 17th Dec.r 1891 completed the survey represented on this plan on which are written the bearings and lengths of the lines measured by me and I declare that the survey has been executed in accordance with the regulations published for the guidance of Licensed Surveyors and the practice of the Department of Lands.

A Hamden Goodridge Licensed Surveyor

Transmitted to the District Surveyor with my letter of 9th Jany N°92/9

Voucher N°92.9 Passed 1 day £3.3.0 Passed G.H.S. 2-92

Calculation Book N° 1571 Folio 54 P.O.

Checked and Charted G Bromley Jan.y 27th 1892

Examined G.H. Chaffey

Plan approved 5th February 1892

G.H. Chaffey D.S.

Scale 20 Chains to an Inch.

B17.1004

[2441] Department of Lands,
Sydney, 2nd April, 1892.

RESERVES FROM SALE FOR PUBLIC BUILDINGS.

HIS Excellency the Governor, with the advice of the Executive Council, directs it to be notified that, in pursuance of the provisions of the 101st section of the Crown Lands Act of 1884, the land specified in the Schedule appended hereto shall be reserved from sale for public buildings, and is hereby reserved accordingly.

HENRY COPELAND.

EASTERN DIVISION.

Land District of Gundagai.

No. 15,371. County of Wynyard, parish of Adelong, town of Adelong, containing an area of about 1½ acres. The Crown Lands within the following boundaries: Commencing on the south-western side of Lockhart-street, at its intersection with the south-eastern side of Campbell-street; and bounded thence by part of the south-western side of Lockhart-street bearing south-easterly to the north-western side of a line running through section 6; thence by that side of that lane bearing south-westerly to the north-eastern side of Lynch-street; thence by part of the north-eastern side of Lynch-street bearing north-westerly to the south-eastern side of Campbell-street; and thence by part of that side of that street bearing north-easterly, to the point of commencement,—being part of section 6.

In lieu of reserve for public buildings, notified under general notice of the 24th December, 1861, and cancelled this day.
[Ms. 91-10,355 Dep.]

Metropolitan Land District.

No. 15,413. County of Cumberland, parish of Gordon, containing an area of 3 acres. The Crown Lands within the boundaries of measured portion 240,—as shown on plan catalogued C. 1,172-2,030.
[Ms. 92-1,309 Dep.]

No. 15,414. County of Cumberland, parish of Gordon, containing an area of 3 acres 1 rood 29 perches. The Crown Lands within the boundaries of measured portion 262,—as shown on plan catalogued C. 1,172-2,030.
[Ms. 92-1,309 Dep.]

No. 15,415. County of Cumberland, parish of Gordon, containing an area of 5 acres 0 roods 35 perches. The Crown Lands within the boundaries of measured portion 203,—as shown on plan catalogued C. 1,172-2,030.
[Ms. 92-1,309 Dep.]

No. 15,416. County of Cumberland, parish of Gordon, containing an area of 8 acres 2 roods 5 perches. The Crown Lands within the boundaries of measured portion 290,—as shown on plan catalogued C. 1,172-2,030.
[Ms. 92-1,309 Dep.]

No. 15,417. County of Cumberland, parish of Gordon, containing an area of 14 acres 3 roods 10 perches. The Crown Lands within the boundaries of measured portion 159,—as shown on plan catalogued C. 1,172-2,030.
[Ms. 92-1,309 Dep.]

[2444] Department of Lands,
Sydney, 2nd April, 1892.

RESERVES FROM SALE FOR PUBLIC SCHOOL PURPOSES.

HIS Excellency the Governor, with the advice of the Executive Council, directs it to be notified that, in pursuance of the provisions of the 101st section of the Crown Lands Act of 1884, the land specified in the Schedule appended hereto shall be reserved from sale for Public School purposes, and is hereby reserved accordingly.

HENRY COPELAND.

EASTERN DIVISION.

Land District of Bathurst.

No. 15,431. County of Roxburgh, parish of Peel, village of Peel, containing an area of about 2 acres. The Crown Lands within the following boundaries: Commencing on the left bank of Clear Creek, section 2, village of Peel, at the north-east corner of the portion of 2 acres dedicated 2nd July, 1863, as a National School site; and bounded thence on the west by the east boundary of that school site bearing south 8 chains 94 links to its south-east corner; thence on the south by a line bearing east 2 chains 15 links; thence on the east by a line bearing north to Clear Creek aforesaid; and thence on the north by that creek downwards, to the point of commencement.

Note.—The above forms that part of reserve under general notice of 24th December, 1861, revoked this day.
[Ms. 92-1,508 Dep.]

Land District of Molong.

No. 15,410. County of Ashburnham, parish of Dulladerry, containing an area of 8 acres. The Crown Lands within the following boundaries: Commencing at the south-west corner of portion 117 of 2 acres 2 roods, being the land set apart as a General Cemetery; and bounded thence on the north by a line passing along the south boundaries of that portion and portion 120 bearing east 9 chains to the west boundary of portion 123 of 100 acres; thence on the east by part of that west boundary bearing southerly 8 chains 89 links; thence on the south by a line bearing west about 9 chains; and thence on the west by a line parallel to the east boundary of portion 70 bearing northerly, to the point of commencement.

Note.—The above includes that part of reserve 1,012 for public purposes, notified 14th February, 1879, revoked this day.
[Ms. 92-1,509 Dep.]

Land District of Queanbeyan.

No. 15,432. County of Murray, parish of Wamboin, village of Bungendore, containing an area of 2 acres. The Crown Lands within the boundaries of allotment 5 of section 9, village of Bungendore,—as shown on plan catalogued B. 17-1,004.
[Ms. 92-1,606 Dep.]

WESTERN DIVISION.

Land District of Willyama.

No. 15,430. County of Yancowinna, parish of Picton, containing an area of 2 acres 2 roods 35 perches. The Crown Lands within the boundaries of allotment 2 of section 7, in the town of Alma,—as shown in plan catalogued ALMA 25.

Includes part of reserve 7,772 from sale, revoked this day.
[Ms. 92-1,471 Dep.]

[2452] Department of Lands,
Sydney, 2nd April, 1892.

RESERVES FROM SALE FOR PRESERVATION AND GROWTH OF TIMBER.

HIS Excellency the Governor, with the advice of the Executive Council, directs it to be notified, that in pursuance of the provisions of the 112th section of the Crown Lands Act of 1884, the land specified in the Schedule appended hereto shall be reserved from sale for preservation and growth of timber, and is hereby reserved accordingly.

HENRY COPELAND.

CENTRAL DIVISION.

Land District of Hillston

Within the leasehold area of Huntawang Holding No. 405, notified 11th July, 1885.

No. 15,402. County of Nicholson, parish of Weenya, containing an area of about 1,670 acres. The Crown Lands within the following boundaries: Commencing at a point 12 chains north and 40 chains east from the south-east corner of portion 40, Loughnan Brothers' 240 acres; thence on the west by a line north to the Lachlan River; thence by that river upwards to the north-east corner of portion 2 of 120 acres; thence on the east by a line partly forming the east boundary of that portion bearing south to a south boundary of travelling stock reserve 2,862, notified 20th August, 1883; thence on part of the south and the south-east by part of a south and south-easterly boundary of that reserve bearing west and south-westerly to a point east of the point of commencement; and thence on the remainder of the south by a line west, to that point.

The above-described land embraces portions 4 and 2, and a part of travelling stock reserve 2,862, above referred to.
[Ms. 92-636 Dep.]

Within the resumed area of Huntawang Holding No. 405, notified 11th July, 1885.

No. 15,408. County of Nicholson, parishes of Huntawang and East Marowie, containing an area of about 2,680 acres. The Crown Lands within the following boundaries: Commencing at the south extremity of the marked eastern part of the dividing line of the holding, at a post bearing 44 degrees 50 minutes 19¾ links from a pine-tree marked broad-arrow over A over 87; thence on the south by a part of said dividing line westerly 80 chains; thence on the west by a line northerly, parallel to the part of dividing line first mentioned, to the south-easterly boundary of travelling stock reserve 2,862, notified 20th August, 1883; thence on the north-west by part of that boundary bearing north-easterly to the said dividing line; and thence by the dividing line southerly, to the point of commencement.

The above is in lieu of part of water reserve 1,393, cancelled this day.
[Ms. 92-678 Dep.]

National Library of Australia http://nla.gov.au/nla.news-page13202085

Parish of Loadstone

The Risk Public School

Lot 118, D.P. 755719 of 7411 square metres — Reserve 59994 for Public School (addition). *Government Gazette* 23rd September 1927.

Parish of Lismore

Tregeagle Public School

Lot 278, D.P. 755718 of 8094 square metres — Dedicated for Public School site. *Government Gazette* 10th March 1893.

Lot 581, D.P. 728645 of 9713 square metres — Reserve 33704 for Public School purposes. *Government Gazette* 11th January 1902.

Parish of Coldstream

Tucabia Public School

Lots 1 and 6-10, section 17, D.P. 758999 of 1.042 hectares — Reserve 15889 for Public School purposes. *Government Gazette* 2nd July 1892.

Lots 2-5, section 17, D.P. 758999 of 8094 square metres — Dedicated (R540121) for Public School site. *Government Gazette* 25th October 1892.

Parish of Tunstall

Jiggi Public School

Lot 249, D.P. 755747 of 8094 square metres — Dedicated (R540200) for Public School site. *Government Gazette* 2nd December 1899.

Lot 251, D.P. 755747 of 1.769 hectares — Reserve 81812 for Public School purposes. *Government Gazette* 24th July 1959.

EDUCATION REFORM ACT 1990

Land Acquisition (Just Terms Compensation) Act 1991

Notice of Compulsory Acquisition of Land for Public School

THE Minister for Education and Training, with the approval of His Excellency the Governor, declares by delegate that the land described in the Schedule below is acquired by compulsory process under the provisions of the Land Acquisition (Just Terms Compensation) Act 1991, for the purposes of the Education Reform Act.

Dated at Sydney, this twenty-sixth day of September 1995.

J. AQUILINA, M.P.,
Minister for Education and Training.

SCHEDULE

Parish of Wellsmore

Ando Public School

Lots 164 and 165, D.P. 756862 of 1.748 hectares — Dedicated for Public School site. *Government Gazette* 22nd July 1914.

Parish of Burnima

Bibbenluke Public School

Allotment 2, section 6, D.P. 758103 of 1.214 hectares — Reserve 984 for Public School purposes. *Government Gazette* 31st December 1883.

Parish of Goulburn

Goulburn South Public School

Allotment 19, section 56, D.P. 758468 of 4047 square metres — Dedicated for Public School. *Government Gazette* 11th March 1881.

Tirranna Public School

Lot 342, D.P. 750015 of 8094 square metres — Dedicated for Public School site. *Government Gazette* 11th June 1886.

Parish of Bombala

Bombala Infants School

Allotment 6, section 32, D.P. 758129 of 8094 square metres — Dedicated for National School. *Government Gazette* 1st June 1866.

Allotments 2 and 3, section 32, D.P. 758129 of 2.081 hectares — Dedicated for Public School purposes. *Government Gazette* 1st December 1894.

Allotment 7, section 32, D.P. 758129 of 6070 square metres — Dedicated for Public School site. *Government Gazette* 5th April 1899.

Bombala Public/High School

Lot 376, D.P. 821616 of 5345 square metres — Dedicated for Public School site. *Government Gazette* 18th April 1952 and 16th September 1966.

Parish of Wambolin

Bungendore Public School

Allotments 5 and 14, section 9, D.P. 758183 of 1.6694 hectares — Reserve 15432 for Public School purposes. *Government Gazette* 2nd April 1892.

EDUCATION REFORM ACT 1990

Land Acquisition (Just Terms Compensation) Act 1991

Notice of Compulsory Acquisition of Land for Public School

THE Minister for Education and Training, with the approval of His Excellency the Governor, declares by delegate that the land described in the Schedule below is acquired by compulsory process under the provisions of the Land Acquisition (Just Terms Compensation) Act 1991, for the purposes of the Education Reform Act.

Dated at Sydney, this twenty-sixth day of September 1995.

J. AQUILINA, M.P.,
Minister for Education and Training.

National Library of Australia http://nla.gov.au/nla.news-page14923965

Historical Title

NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE
29/4/2021 10:30AM

FOLIO: 5/9/758183

First Title(s): 5/9/758183
Prior Title(s): CROWN LAND

Recorded	Number	Type of Instrument	C.T. Issue
27/9/1990	DP758183	DEPOSITED PLAN	FOLIO CREATED CT NOT ISSUED
27/11/1995	O682207	DEPARTMENTAL DEALING	
4/3/1996	O955871	DEPARTMENTAL DEALING	EDITION 1
18/4/1996	2094056	DEPARTMENTAL DEALING	
6/5/2004	AA611120	DEPARTMENTAL DEALING	
18/12/2012	AH445390	DEPARTMENTAL DEALING	
27/3/2014	AI472893	DEPARTMENTAL DEALING	

*** END OF SEARCH ***

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Title Search

NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

FOLIO: 5/9/758183

SEARCH DATE	TIME	EDITION NO	DATE
29/4/2021	10:18 AM	1	4/3/1996

LAND

LOT 5 OF SECTION 9 IN DEPOSITED PLAN 758183
AT BUNGENDORE
LOCAL GOVERNMENT AREA QUEANBEYAN-PALERANG REGIONAL
PARISH OF WAMBOIN COUNTY OF MURRAY
(FORMERLY KNOWN AS ALLOTMENT 5 OF SECTION 9)
TITLE DIAGRAM CROWN PLAN 17.1004

FIRST SCHEDULE

THE MINISTER FOR EDUCATION AND TRAINING (DD O682207)

SECOND SCHEDULE (2 NOTIFICATIONS)

* 1 O682207 LAND EXCLUDES MINERALS - SEE MEMORANDUM S700000A
* 2 RESERVE NO. R15432 FOR PUBLIC SCHOOL PURPOSES VIDE NOTIFN. IN GOV. GAZ. DATED 2.4.1892 FOLIO 2745

NOTATIONS

NOTE: THE CERTIFICATE OF TITLE FOR THIS FOLIO OF THE REGISTER DOES NOT INCLUDE SECURITY FEATURES INCLUDED ON COMPUTERISED CERTIFICATES OF TITLE ISSUED FROM 4TH JANUARY, 2004. IT IS RECOMMENDED THAT STRINGENT PROCESSES ARE ADOPTED IN VERIFYING THE IDENTITY OF THE PERSON(S) CLAIMING A RIGHT TO DEAL WITH THE LAND COMPRISED IN THIS FOLIO.
2094056 NOTE: ACQUIRED FOR THE PURPOSES OF THE EDUCATION REFORM ACT, 1990 SEE GAZ. 13.10.1995 FOLIO 7301

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

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16343 66

Wamboin
Pt Bungendore

Plan of Section 9 in the Village of Bungendore County of Murray to be s[redacted]

Allot [redacted]

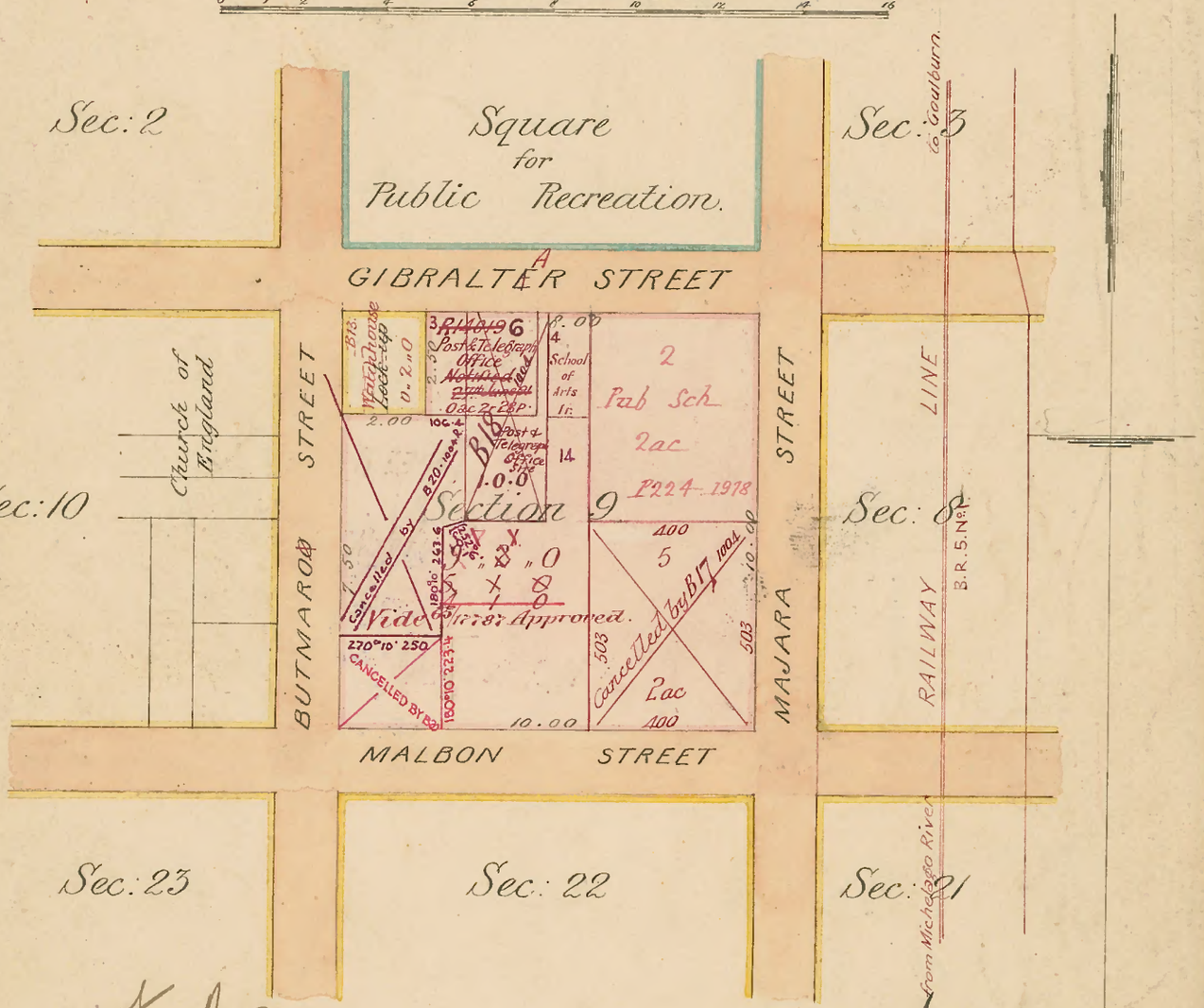
Abt 1a 1r rev'd Gaz. 7.1.66
Abt 1a 1r 28p Rev'd Gaz. 10-12-65

~~Blocks B,C,D,E,F,G within W.E.L.A. 343 Notified Gaz 10-12-65~~

B 14 1004

PLAN MICROFILMED
NO ADDITIONS OR AMENDMENTS TO BE MADE

Scale 4 chains to 1 inch.



Plan approved of 4 1/4 acres
G.H. Cheffe
Dist. Surr.
14th Feb 1896

Plan approved as reduced to 5 1/4 acres
G.H. Cheffe
5-2-98

Plan approved for 7 1/4 acres
A.C. Betts
Dist. Sur.
19th July 1889

Notes
Surveyed by circumferenter
Marked in accordance with Regulations.

14-1004

Transmitted to the Surveyor General with my Letter No. 66/78 of the 21st August
J.B. Thompson
Licensed Surveyor

Acct 61320 5
$10.00
17.12.66

[1001] Department of Lands,
Sydney, 3rd August, 1901.

REVOCATION OF NOTIFICATIONS OF TRACTS OR AREAS PREVIOUSLY NOTIFIED AS NOT AVAILABLE FOR SETTLEMENT UNTIL SURVEY EFFECTED AND FURTHER NOTIFICATION.

IT is hereby notified, for public information, that His Excellency the Lieutenant-Governor, with the advice of the Executive Council, has been pleased to revoke, under the provisions of the 10th section of the Crown Lands Act of 1895, the notifications that the tracts or areas hereunder described are not available for settlement, and they are hereby revoked accordingly.

W. P. CRICK.

EASTERN DIVISION.

LAND DISTRICT OF GOSFORD.

County of Northumberland, parish of Wyong, containing an area of 444 acres. The Crown Lands within the boundaries of measured portions 157, 158, 159, 160, 161, 162, and 163,—as shown on plans catalogued N. 1,063 and N. 1,083-2,111.

NOTE.—The above was notified 30th September, 1899.

[Ms. 1901-4,656 Dep.]

CENTRAL DIVISION.

LAND DISTRICT OF DUBBO.

County of Lincoln, parish of Tuckland, area about 1,100 acres. The Crown Lands bounded on the north by portions 23 of 6,355 acres, parish of Yarrow, and 6 of 480 acres, parish of Tuckland; on the east by the boundary dividing the counties of Lincoln and Bligh; on the south by portions 19 and 21, parish Tuckland; and on the west by part of the north-eastern boundary of Ford's Creek Holding.

The above was notified 28th September, 1898, and reserve 33,054 from sale or lease other than additional conditional purchase or conditional lease, notified this day, and area set apart for conditional purchase or conditional lease, are in lieu.

[Ms. 1901-4,028 Dep.]

[1003] Department of Lands,
Sydney, 3rd August, 1901.

RESERVES FROM SALE FOR ACCESS.

HIS Excellency the Lieutenant-Governor, with the advice of the Executive Council, directs it to be notified that, in pursuance of the provisions of the 101st section of the Crown Lands Act of 1884, the land hereunder described shall be reserved from sale pending determination of the portions to be set apart for access, and is hereby reserved accordingly.

W. P. CRICK.

EASTERN DIVISION.

LAND DISTRICT OF QUEANBEYAN.

No. 33,061. County of Murray, parish of Wamboin, village of Bungendore, containing an area of 4 acres 1 rood 32 perches. The Crown Lands within the boundaries of section 13, village of Bungendore.

[Ms. 1901-4,820 Dep.]

CENTRAL DIVISION.

LAND DISTRICT OF MOREE.

Within Tyreel Holding, resumed area No. 52A.

No. 33,079. County of Courallie, parish of Moree, containing an area of 23 acres. The Crown Lands within the boundaries of measured portion 142 of 23 acres, - as shown on plan catalogued C. 420-1,880.

[An. 1901-8,185]

[1008] Department of Lands,
Sydney, 3rd August, 1901.

RESERVE FROM SALE FOR RACECOURSE.

HIS Excellency the Lieutenant-Governor, with the advice of the Executive Council, directs it to be notified that, in pursuance of the provisions of the 101st section of the Crown Lands Act of 1884, the land hereunder described shall be reserved from sale pending determination of the portion to be set apart for racecourse, and is hereby reserved accordingly.

W. P. CRICK.

EASTERN DIVISION.

LAND DISTRICT OF YOUNG.

Within the population area of Wambat, proclaimed 30th January, 1886.

No. 33,032. County of Harden, parish of Wambat, containing an area of 67 acres. The Crown Lands within the boundaries of measured portion 32,—as shown on plan catalogued H. 5,942-1,716.

Reserved from lease generally as No. 33,033, notified this day.

[Ms. 1901-3,583 Dep.]

[1006] Department of Lands,
Sydney, 3rd August, 1901.

RESERVE FROM SALE FOR PUBLIC BUILDINGS.

HIS Excellency the Lieutenant-Governor, with the advice of the Executive Council, directs it to be notified that, in pursuance of the provisions of the 101st section of the Crown Lands Act of 1884, the land hereunder described shall be reserved from sale pending determination of the portion to be set apart for public buildings, and is hereby reserved accordingly.

W. P. CRICK.

EASTERN DIVISION.

LAND DISTRICT OF QUEANBEYAN.

No. 33,067. County of Murray, parish of Wamboin, village of Bungendore, containing an area of 4 acres 3 roods. The Crown Lands within the following boundaries: Commencing on the north side of Malbon-street, at the south-west corner of allotment 5 of section 9, village of Bungendore; and bounded thence by that side of that street west to the east side of Butmaro-street; thence by that side of that street north to the south side of Gibraltar-street; thence by that side of that street east to the north-west corner of allotment 6; thence by the west, south, and part of the east boundaries of that allotment bearing south, east, and north to the south-west corner of allotment 4; thence by the south boundary of that allotment east to the west boundary of allotment 2; and thence by part of that boundary and by the west boundary of allotment 5 aforesaid south, to the point of commencement.

[Ms. 1901-4,820 Dep.]

[1009] Department of Lands,
Sydney, 3rd August, 1901.

RESERVES FROM SALE FOR TRIGONOMETRICAL PURPOSES.

HIS Excellency the Lieutenant-Governor, with the advice of the Executive Council, directs it to be notified that, in pursuance of the provisions of the 101st section of the Crown Lands Act of 1884, the land hereunder described shall be reserved from sale pending determination of the portions to be set apart for trigonometrical purposes, and is hereby reserved accordingly.

W. P. CRICK.

EASTERN DIVISION.

LAND DISTRICT OF TUMBARUMBA.

No. 33,026. County of Selwyn parish of Tumbarumba, containining an area of 77 acres 2 roods. The Crown Lands within the following boundaries: Commencing on the west boundary of portion 122 of 295 acres parish of Burra, being a point bearing north 50 degrees 20 minutes east 15 chains 77 links from Tumbarumba Trigonometrical Station, which bears south 22 degrees 36 minutes west 31 chains 59 links from the north-west corner of that portion; and bounded thence by part of the west boundary of said portion bearing south 24 chains 98 links; thence by lines bearing west 31 chains 5 links; thence north 24 chains 98 links; and thence east 31 chains 5 links, to the point of commencement,—as shown on plan catalogued Ms. 647 Wga.

NOTE.—In lieu of trigonometrical reserve 10,377, revoked this day.

[Ms. 1901-4,693 Dep.]

EASTERN AND CENTRAL DIVISIONS.

LAND DISTRICTS OF TUMBARUMBA AND TUMBARUMBA NORTH.

Partly within the resumed areas of Carabost Holding No. 198 and Copabella Holding No. 379.

No. 33,025. Counties of Goulburn and Wynyard, parish of Yarara, containing an area of 35 acres. The Crown Lands within the following boundaries: Commencing at a point bearing north 56 degrees 4 minutes east 14 chains 16 links from Rosewood Trigonometrical Station which bears north 32 degrees 7 minutes west 31 links from gum-tree marked broad-arrow over WG over 22 on survey of range between counties Wynyard and Goulburn, plan catalogued M. 62, sheet 2 Roll; and bounded thence by lines bearing west 20 chains; thence south 17 chains 50 links; thence east 20 chains; and thence north 17 chains 50 links, to the point of commencement,—as shown on plan catalogued Ms. 645 Wga.

NOTE.—Partly within forest reserve 1,018, notified 30th March, 1878, and partly within forest reserve 2,422, notified 10th May, 1880.

[Ms. 1901-4,684 Dep.]

National Library of Australia http://nla.gov.au/nla.news-page13687196

Historical Title

NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE
29/4/2021 10:31AM

FOLIO: 14/9/758183

First Title(s): 14/9/758183
Prior Title(s): CROWN LAND

Recorded	Number	Type of Instrument	C.T. Issue
27/9/1990	DP758183	DEPOSITED PLAN	FOLIO CREATED CT NOT ISSUED
27/11/1995	O682207	DEPARTMENTAL DEALING	
4/3/1996	O955871	DEPARTMENTAL DEALING	EDITION 1
18/4/1996	2094056	DEPARTMENTAL DEALING	
22/1/2001	7243841	LEASE	EDITION 2
6/5/2004	AA611120	DEPARTMENTAL DEALING	
18/12/2012	AH445390	DEPARTMENTAL DEALING	
27/3/2014	AI472893	DEPARTMENTAL DEALING	

*** END OF SEARCH ***

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Received: 29/04/2021 10:30:56

Title Search

NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

FOLIO: 14/9/758183

SEARCH DATE	TIME	EDITION NO	DATE
29/4/2021	10:18 AM	2	22/1/2001

LAND

LOT 14 OF SECTION 9 IN DEPOSITED PLAN 758183
AT BUNGENDORE
LOCAL GOVERNMENT AREA QUEANBEYAN-PALERANG REGIONAL
PARISH OF WAMBOIN COUNTY OF MURRAY
(FORMERLY KNOWN AS ALLOTMENT 14 OF SECTION 9)
TITLE DIAGRAM CROWN PLAN 14.1004

FIRST SCHEDULE

THE MINISTER FOR EDUCATION AND TRAINING (DD O682207)

SECOND SCHEDULE (3 NOTIFICATIONS)

* 1 O682207 LAND EXCLUDES MINERALS - SEE MEMORANDUM S700000A
* 2 RESERVE NO. R15432 FOR PUBLIC SCHOOL PURPOSES (ADDITION) VIDE NOTIFN. IN GOV. GAZ. DATED 26.9.1975 FOLIO 3957
3 7243841 LEASE TO THE COUNCIL OF THE SHIRE OF YARROWLUMLA OF PREMISES SHOWN CROSS-HATCHED IN PLAN WITH 7243841. EXPIRES: 30/6/2025. OPTION OF RENEWAL: 25 YEARS.

NOTATIONS

NOTE: THE CERTIFICATE OF TITLE FOR THIS FOLIO OF THE REGISTER DOES NOT INCLUDE SECURITY FEATURES INCLUDED ON COMPUTERISED CERTIFICATES OF TITLE ISSUED FROM 4TH JANUARY, 2004. IT IS RECOMMENDED THAT STRINGENT PROCESSES ARE ADOPTED IN VERIFYING THE IDENTITY OF THE PERSON(S) CLAIMING A RIGHT TO DEAL WITH THE LAND COMPRISED IN THIS FOLIO.
2094056 NOTE: ACQUIRED FOR THE PURPOSES OF THE EDUCATION REFORM ACT, 1990 SEE GAZ. 13.10.1995 FOLIO 7301

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

Majara Street, Bungendore PRINTED ON 29/4/2021

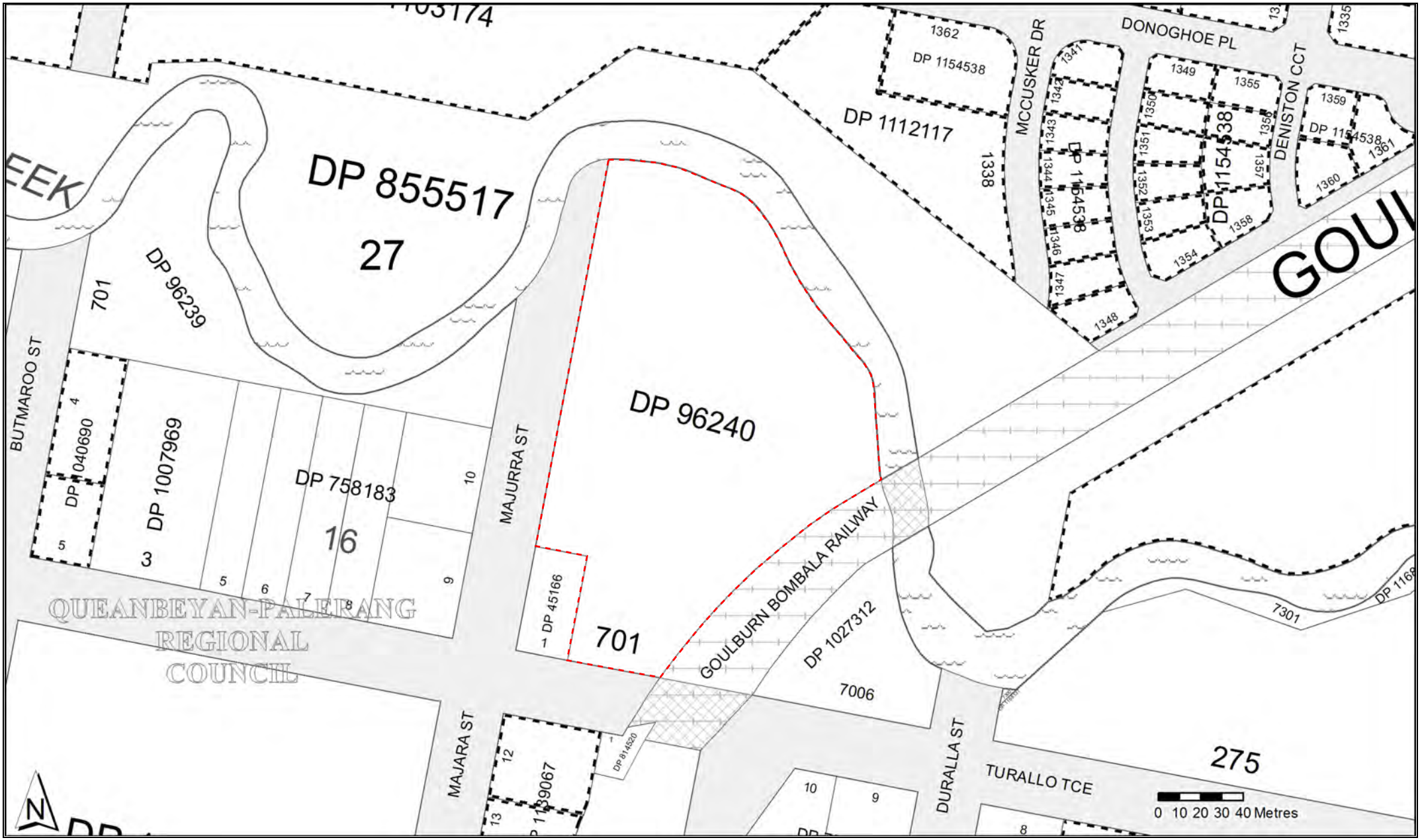
* Any entries preceded by an asterisk do not appear on the current edition of the Certificate of Title. Warning: the information appearing under notations has not been formally recorded in the Register. InfoTrack an approved NSW Information Broker hereby certifies that the information contained in this document has been provided electronically by the Registrar General in accordance with Section 96B(2) of the Real Property Act 1900.

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Received: 29/04/2021 10:18:43

Cadastral Records Enquiry Report : Lot 701 DP 96240

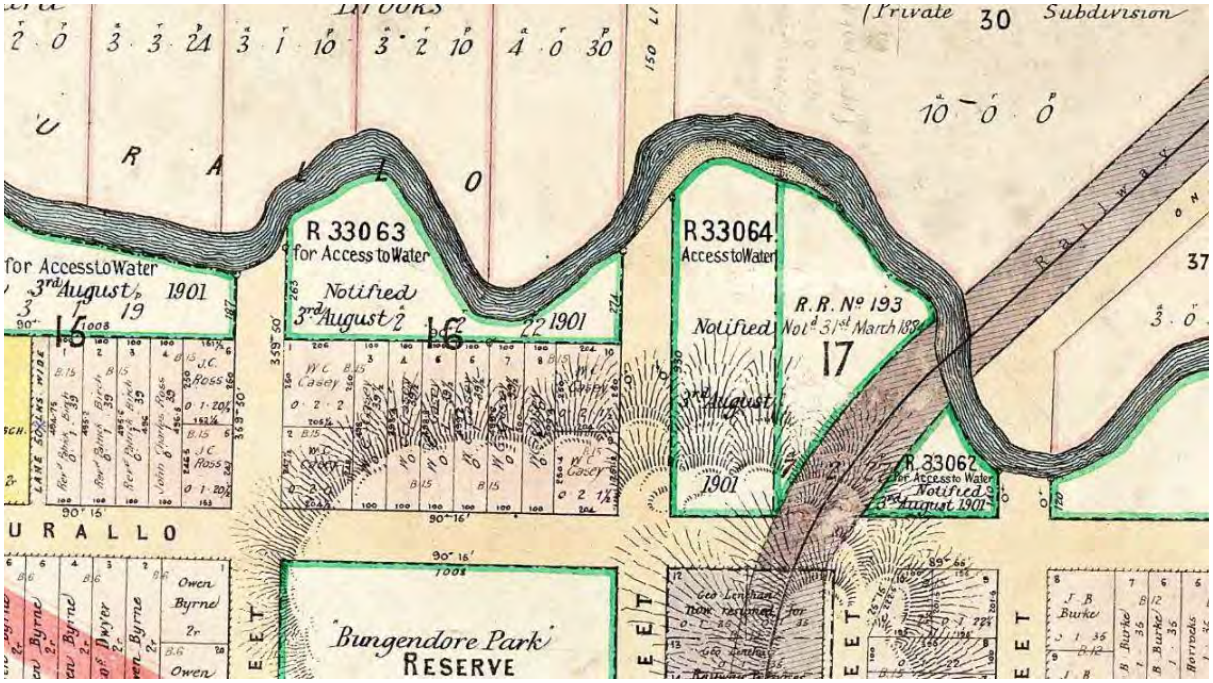
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Parish : WAMBOIN
LGA : QUEANBEYAN-PALERANG REGIONAL
County : MURRAY



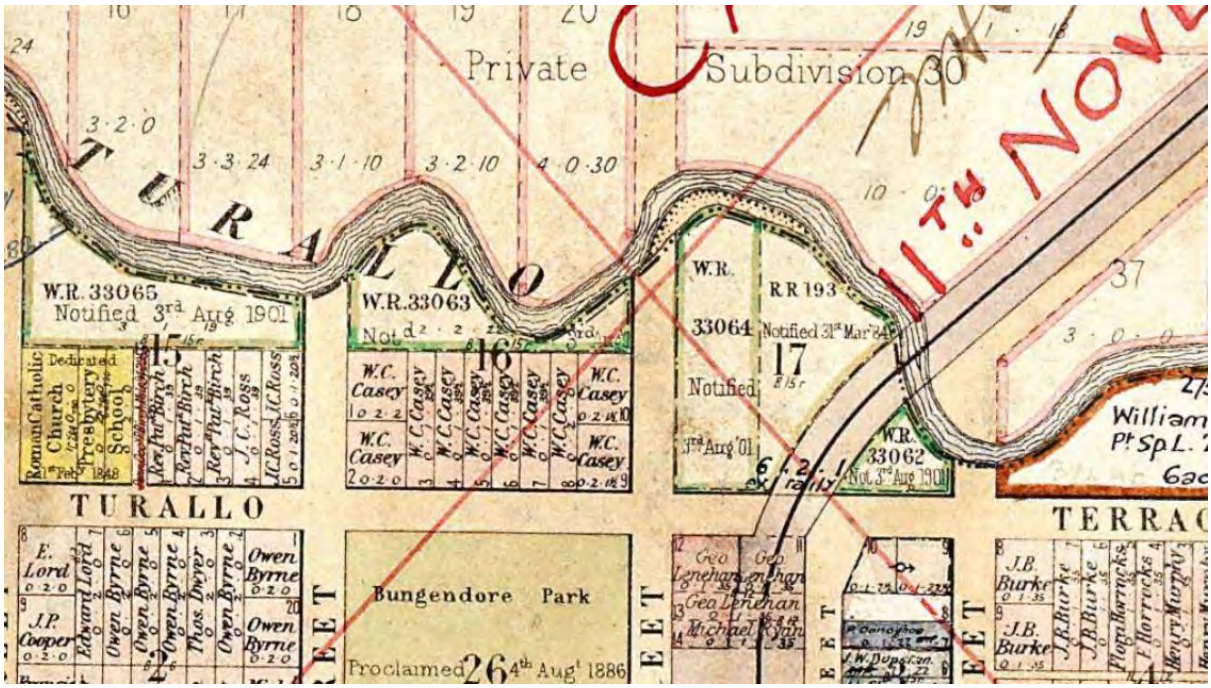
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This information is provided as a searching aid only.Whilst every endeavour is made to ensure that current map, plan and titling information is accurately reflected, the Registrar General cannot guarantee the information provided. For ALL ACTIVITY PRIOR TO SEPTEMBER 2002 you must refer to the RGs Charting and Reference Maps

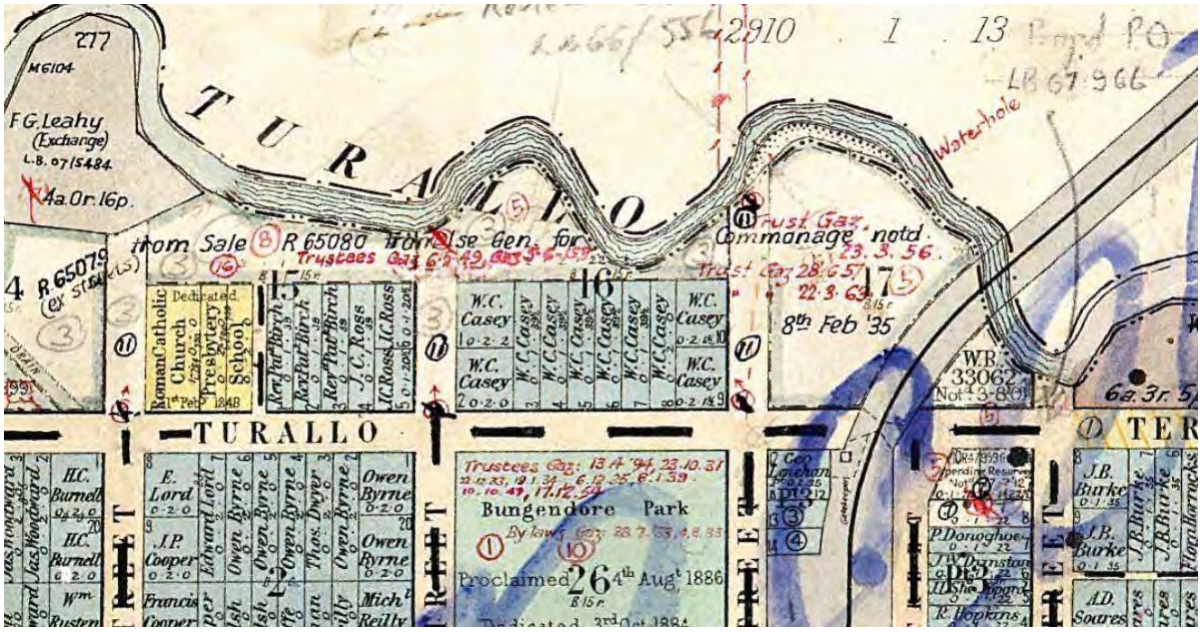
EXTRACT 1884 TOWN MAP



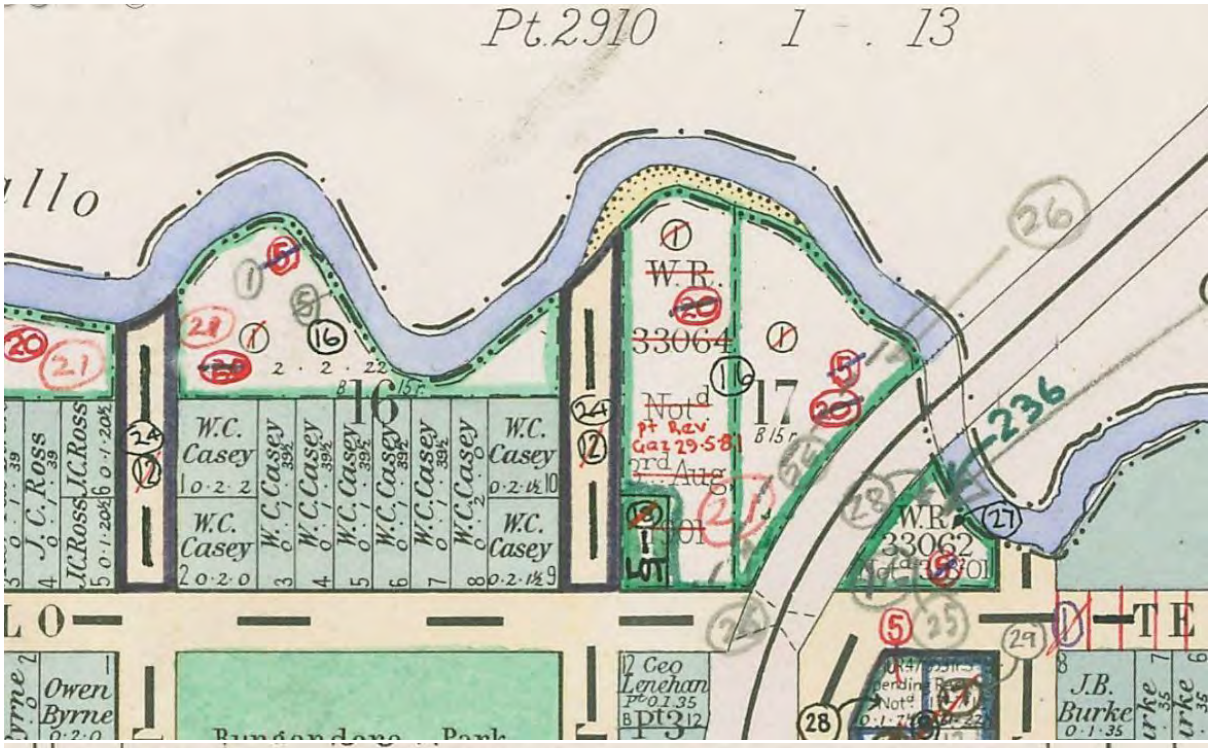
EXTRACT 1901 TOWN MAP



EXTRACT 1931 TOWN MAP

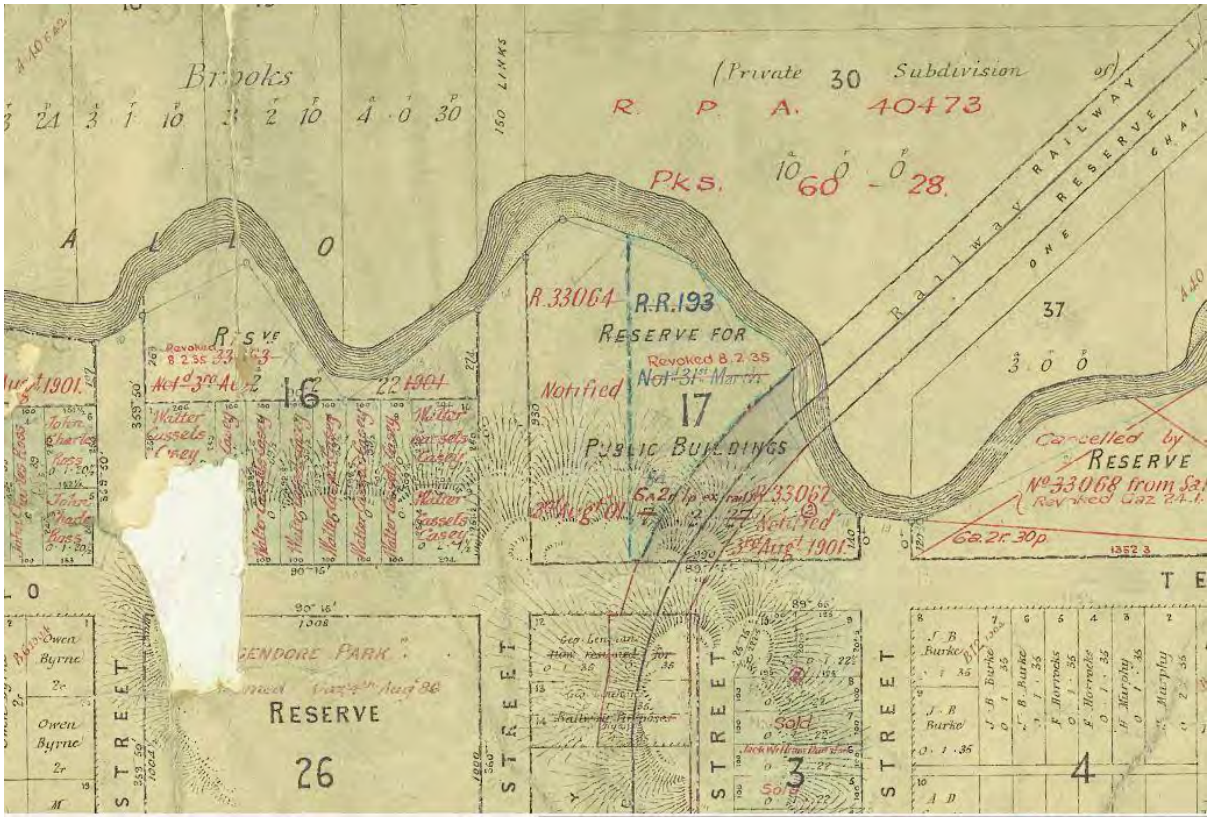


EXTRACT REGIONAL OFFICE TOWN MAP



15	SW	Easemt Resmd for Water Drainage Gaz 10·8·79
16	NW	R 94996 for Public Recreation Notd 29·5·81 (4 pts) Pt Rev Gaz 14·1·83
~~17~~	~~NE~~	~~R.O. 82-6 N. Sands 3140m² GB 82H 393~~ Term. Rev. 24/12/89
~~18~~	~~NE~~	~~WR 33064 Notd 3-8-1901~~ Rev Gaz 22-4-83

EXTRACT CROWN PLAN 15-1004



LANDS DEPARTMENT NOTICES

APPOINTMENTS

Department of Lands

THE following appointments are hereby notified:

Mr Leo Noel Fletcher, Member of the Metropolitan Local Land Board with effect from 23rd April, 1981.

Mr Robert Dunbar Lowrey, Member of the Local Land Board for the Land District of Casino, to take effect from 11th May, 1981.

A. R. L. GORDON, Minister for Lands.

---

(425) Sydney, 29th May, 1981.

APPOINTMENT OF TRUSTEES

IN pursuance of the provisions of section 37o, Crown Lands Consolidation Act, 1913, the undermentioned persons are appointed to be trustees of the reserves particularized hereunder.

A. R. L. GORDON, Minister for Lands.

Land District—Goulburn; Shire—Mulwaree
Parish—Baw Baw; County—Argyle

Reserve 94993 for Promotion of the Study and Preservation of Native Flora and Fauna, notified this day :

Kym LaVerne Day, Roy Arthur Lyle Shave, Margaret Molly O'Neill, Reginald Garth Dixon, Thomas Reginald Hone and John Charles Tozer. GB80 H 780.

Land District and Shire—Gundagai
Parish—Mooney Mooney; County—Harden

Reserves 55507 and 85395 for Public Recreation at Muttama, notified 16th June, 1922 and 16th July, 1965, respectively: Warwick George Edmund Sides in place of John William Briggs. WA80 R 40.

Land District—Tumbarumba; Shire—Tumut
Parish—Mate; County—Wynyard

Reserve 81995 for Public Recreation at Yaven Creek, notified 25th September, 1959: William Kerry Pearce, Laurence John Pearce, Kevin Frederick Purcell and James Raymond Roche in place of William Roche, Henry Edgar Pearce, Frederick Donald Purcell and John Kenneth Pearce. WA81 R 4.

Land District and Shire—Warren
Parish—Tongamba; County—Gregory

Reserve 48002 for Public Hall and Reserve 72369 for Public Recreation at Marthaguy, notified 7th August, 1912, and 1st August,. 1947, respectively: John Edward Simmons as an additional trustee. DB81 R 61.

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(424) Sydney, 29th May, 1981.

APPOINTMENT OF TRUSTEES

IN pursuance of the provisions of section 37p, Crown Lands Consolidation Act, 1913, the undermentioned corporations are appointed to be sole trustees of the reserves particularized hereunder.

A. R. L. GORDON, Minister for Lands.

Land District—Queanbeyan; Shire—Yarrowlumla
Parish—Wamboin; County—Murray

Reserve 94996 for Public Recreation at Bungendore, notified this day: *The Council of the Shire of Yarrowlumla.* GB80 H 641.

Land District and Municipality—Tamworth
Parish—Tamworth; County—Inglis

Reserve 94997 for Parking at Tamworth, notified this day: *The Council of the Municipality of Tamworth.* TH79 R 14.

Land District—Taree; City—Greater Taree
Parish—Taree; County—Macquarie

Reserve 94998 for Bush Fire Brigade Purposes at Taree, notified this day: *The Council of the City of Greater Taree.* TE80 R 107.

(461) Sydney, 29th May, 1981.

DECLARATION OF ROADS TO BE PUBLIC ROAD UNDER PROVISIONS OF THE PUBLIC ROADS ACT, 1902

IN pursuance of the provisions of section 18, Public Roads Act, 1902, the roads hereunder described are declared to be public road and dedicated to the public accordingly.

A. R. L. GORDON, Minister for Lands.

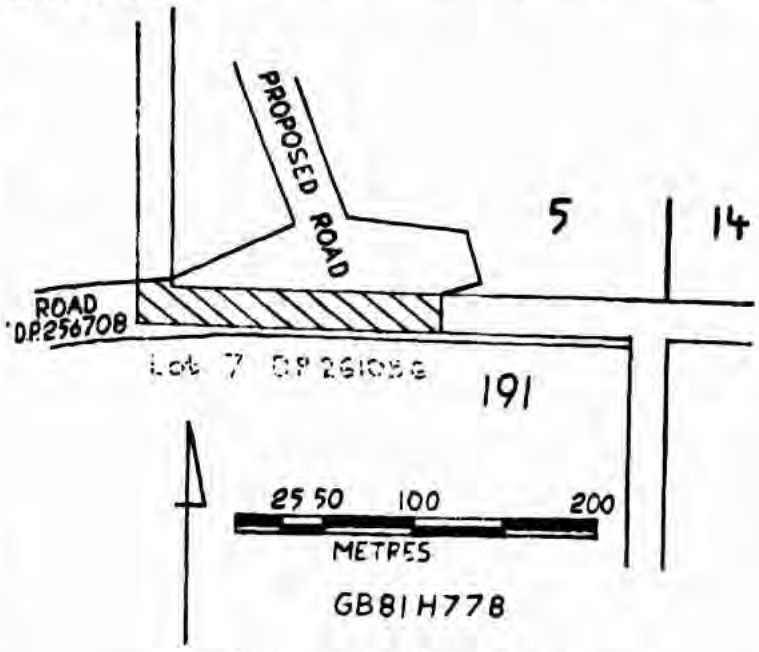
Descriptions

Land District and Shire—Kempsey

Parish Palmerston, County Macquarie, at Crescent Head. Road (part Hodgson Street) extending from Main Street to the northwesterly prolongation of the western boundary of allotment 23, section 3, separating allotments 11 and 12 from allotments 13 and 14, section 3 and extending from Hill Street to East Street. (Council's Reference: R110/76.) TE80 H 185.

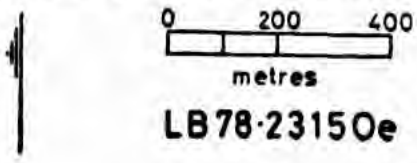
Land District—Queanbeyan; Shire—Yarrowlumla

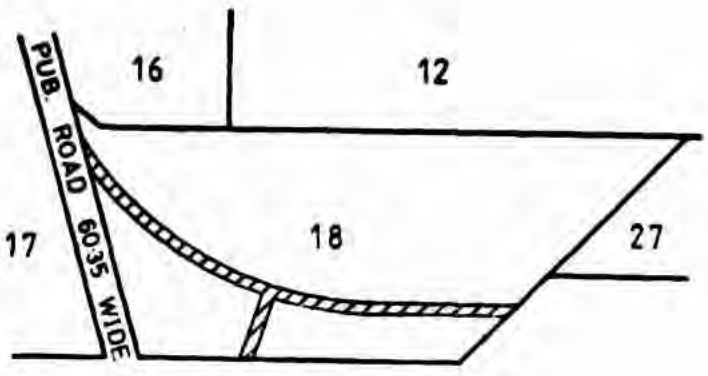
Parish Wamboin, County Murray. The road shown by hatching on diagram hereunder. (Council's reference S4/80.) GB81 H 778.



Land District and Shire—Forbes

Parish Monwonga, County Cunningham. The road 20 metres wide shown by hatching on diagram hereunder. (Council's reference: 63-B-35C.) L.B. 78 2315 OE.





Administrative District and Shire—Bourke

Parishes Birrawarra, Irrara and Mooroonowa, County Irrara. The Cameroo–Burrawantie Road as depicted on plan W.D.R. 138 in the Western Lands Commission, Sydney. (Council's reference: R. 13.) W.L.C. 80-728.

National Library of Australia http://nla.gov.au/nla.news-page14464888

Reserve 84626 at Braidwood, notified for shire council chambers on 8 November 1963.

Reserve 88525 at Farrington, notified for quarry on 24 March 1972.

Reserve 89587 at Warri Bridge, notified for public recreation on 12 September 1975.

Reserve 89828 at Nerriga, notified for rubbish depot on 4 June 1976.

Reserve 91160 at Araluen North, notified for bush fire brigade purposes on 7 July 1978.

Reserve 94633 at Braidwood, notified for public recreation on 1 May 1981.

Reserve 96175 at Little Bombay, notified for public recreation on 30 July 1982.

Reserve 96777 at Nerriga, notified for public recreation and bush fire brigade purposes on 27 May 1983.

Land at Mongarlowe, dedicated for public recreation on 9 June 1897.

Land at Braidwood, dedicated for public recreation on 18 January 1884.

PART 2

Tallaganda Shire Council Crown Reserves Reserve Trust.

PART 3

Tallaganda Shire Council.

SCHEDULE 13

PART 1

Reserve 19854 at Berrima, notified for access on 31 March 1894.

Reserve 26996 at Berrima, notified for public recreation on 18 December 1897.

Reserve 46633 at Penrose, notified for public recreation on 31 May 1911.

Reserve 52976 at Wingello, notified for public recreation on 6 September 1918.

Reserve 55900 at Penrose, notified for public recreation on 15 December 1922.

Reserve 57815 at Mittagong, notified for preservation of native birds, trees, flora and fauna on 20 February 1925.

Reserve 59299 at Berrima, notified for public recreation and baths on 5 November 1926.

Reserve 63869 at Murrimba, notified for public recreation and resting place on 7 April 1933.

Reserve 63986 at Caloola Pass, notified for public recreation and resting place on 16 June 1933.

Reserve 64867 at Berrima, notified for resting place on 2 November 1934.

Reserve 67616 at Bundanoon, notified for public recreation on 20 May 1938.

Reserve 80606 at Burradoo, notified for public recreation on 2 May 1958.

Reserve 81145 at Welby, notified for public recreation on 17 October 1958.

Reserve 84159 at Bowral, notified for public baths, public recreation, resting place and camping on 25 January 1963.

Reserve 85512 at Berrima, notified for public recreation and resting place on 29 October 1965.

Reserve 88238 at Bundanoon, notified for rubbish depot on 14 May 1971.

Reserve 88790 at Berrima, notified for public recreation and public hall on 8 December 1972.

Reserve 89886 at Berrima, notified for museum on 6 August 1976.

Reserve 90284 at Mittagong, notified for public recreation on 24 August 1973.

Reserve 90729 at Bundanoon, notified for public recreation on 11 March 1977.

Reserve 91077 at Goanna Falls, notified for public recreation on 23 March 1978.

Reserve 96638 at Berrima, notified for bush fire brigade purposes on 11 March 1983.

Reserve 97448 at Robertson, notified for community centre on 28 September 1984.

Reserve 180042 at Canyonleigh, notified for public recreation and community purposes on 2 June 1989.

Land at Robertson, dedicated for public recreation on 22 May 1897.

Land at Welby, dedicated for public recreation on 7 May 1886.

PART 2

Wingecarribee Shire Council Crown Reserves Reserve Trust.

PART 3

Wingecarribee Shire Council.

SCHEDULE 14

PART 1

Reserve 31941 at Burra, notified for public recreation on 29 December 1900.

Reserve 67557 at Ballallaba, notified for access and plantation on 29 April 1938.

Reserve 70568 at Michelago, notified for public recreation on 15 May 1942.

Reserve 71599 at Captains Flat, notified for public recreation on 27 July 1945.

Reserve 73883 at Bungendore, notified for rubbish depot and sanitary purposes on 1 December 1950.

Reserve 76056 at Currandooly, notified for local government purposes on 10 July 1953.

Reserve 78587 at Bungendore, notified for recreation on 11 May 1956.

National Library of Australia http://nla.gov.au/nla.news-page14820448

Reserve 78831 at Captains Flat, notified for public recreation on 17 August 1956.

Reserve 80641 at Captains Flat, notified for public recreation on 9 May 1958.

Reserve 85215 at Captains Flat, notified for access on 5 February 1965.

Reserve 85226 at Captains Flat, notified for reservoir on 5 February 1965.

Reserve 85577 at Majura, notified for public recreation on 10 December 1965.

Reserve 88693 at Bywong, notified for rubbish depot on 11 August 1972.

Reserve 89674 at Sutton, notified for bush fire brigade purposes on 5 December 1975.

Reserve 94996 at Bungendore, notified for public recreation on 29 May 1981.

Reserve 95480 at Brindabella, notified for public recreation on 26 June 1981.

PART 2

Yarrowlumla Shire Council Crown Reserves Reserve Trust.

PART 3

Yarrowlumla Shire Council.

SCHEDULE 15

PART 1

Reserve 76555 at Morumbateman, notified for war memorial (recreation reserve) on 5 February 1954.

Reserve 77562 at Yass, notified for public recreation on 29 April 1955.

Reserve 84528 at Bookham, notified for public recreation on 20 September 1963.

Reserve 86113 at Wee Jasper, notified for public hall and public recreation on 16 December 1966.

Reserve 95524 at Yass, notified for public recreation on 24 July 1981.

Reserve 95821 at Wee Jasper, notified for drainage on 26 February 1982.

Reserve 97127 at Morumbateman, notified for preservation of historic sites and buildings on 6 January 1984.

Reserve 97641 at Morumbateman, notified for kindergarten on 4 January 1985.

Land at Binalong, dedicated for public recreation on 26 March 1886.

Land at Bowning, dedicated for public recreation on 9 March 1894.

PART 2

Yass Shire Council Crown Reserves Reserve Trust.

PART 3

Yass Shire Council.

SCHEDULE 16

PART 1

Reserve 9405 at Murrumburrah, notified for public health and recreation on 27 July 1889.

Reserve 32888 at Tubbul, notified for public recreation on 22 June 1901.

Reserve 53718 at Wirrimah, notified for public recreation on 9 January 1920.

Reserve 54275 at Young, notified for municipal purposes on 19 November 1920.

Reserve 56876 at Young, notified for public recreation on 29 February 1924.

Reserve 62996 at Young, notified for public recreation on 23 October 1931.

Reserve 64378 at Maimuru, notified for public recreation on 25 January 1934.

Reserve 71448 at Monteagle, notified for public recreation and public hall on 9 March 1945.

Reserve 75899 at Koorawatha, notified for public recreation on 8 May 1953.

Reserve 78952 at Young, notified for public baths and public recreation on 12 October 1956.

Reserve 79300 at Bribbaree, notified for public recreation on 25 January 1957.

Reserve 81474 at Milvale, notified for public recreation on 13 March 1959.

Reserve 84209 at Young, notified for public recreation on 22 February 1963.

Reserve 85911 at Wirrimah, notified for public recreation on 12 August 1966.

Reserve 89150 at Koorawatha, notified for public recreation on 1 March 1974.

Reserve 96908 at Young, notified for public recreation on 12 August 1983.

Reserve 97823 at Young, notified for local government purposes on 21 June 1985.

PART 2

Young Shire Council Crown Reserves Reserve Trust.

PART 3

Young Shire Council.

NOTIFICATION OF CLOSING OF A ROAD

IN pursuance of the provisions of the Roads Act 1993, the road hereunder described is closed and the land comprised therein ceases to be a public road and the rights of passage and access that previously existed in relation to the road are extinguished.

GEORGE SOURIS, M.P.,
Minister for Land and Water Conservation.

National Library of Australia http://nla.gov.au/nla.news-page14820449

LAND REGISTRY SERVICES

Title Search

NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

FOLIO: 701/96240

SEARCH DATE	TIME	EDITION NO	DATE
27/7/2021	4:07 PM	-	-

CERTIFICATE OF TITLE HAS NOT ISSUED

LAND

LOT 701 IN DEPOSITED PLAN 96240
AT BUNGENDORE
LOCAL GOVERNMENT AREA QUEANBEYAN-PALERANG REGIONAL
PARISH OF WAMBOIN COUNTY OF MURRAY
TITLE DIAGRAM DP96240

FIRST SCHEDULE

THE STATE OF NEW SOUTH WALES (CA143642)

SECOND SCHEDULE (3 NOTIFICATIONS)

* 1 THE LAND IS A RESERVE WITHIN THE MEANING OF PART 5 OF THE CROWN LANDS ACT 1989 AND THERE ARE RESTRICTIONS ON TRANSFER AND OTHER DEALINGS IN THE LAND UNDER THAT ACT, WHICH MAY REQUIRE CONSENT OF THE MINISTER.
* 2 LIMITED TITLE. LIMITATION PURSUANT TO SECTION 28T(4) OF THE REAL PROPERTY ACT, 1900. THE BOUNDARIES OF THE LAND COMPRISED HEREIN HAVE NOT BEEN INVESTIGATED BY THE REGISTRAR GENERAL.
* 3 THE PLAN DEFINING THE LAND IN THIS FOLIO WHICH WAS PREPARED FOR IDENTIFICATION PURPOSES IS NOW SUITABLE FOR TITLE ISSUE. IT IS NOT A CURRENT PLAN IN TERMS OF SECTION 7A OF THE CONVEYANCING ACT 1919.

NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

* Any entries preceded by an asterisk do not appear on the current edition of the Certificate of Title. Warning: the information appearing under notations has not been formally recorded in the Register. InfoTrack an approved NSW Information Broker hereby certifies that the information contained in this document has been provided electronically by the Registrar General in accordance with Section 96B(2) of the Real Property Act 1900.

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Received: 27/07/2021 16:07:08

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
BROOKVALE	Littles Dry Cleaning	123 Old Pittwater ROAD	Other Industry	Regulation under CLM Act not required	-33.76759121	151.2625932
BROOMS HEAD	Former Brooms Head General Store and S	92 Ocean ROAD	Service Station	Regulation under CLM Act not required	-29.60711599	153.3346312
BROWNSVILLE	Caltex Service Station	342 Kanahooka ROAD	Service Station	Regulation under CLM Act not required	-34.48591734	150.8064373
BRUNSWICK HEADS	Caltex Service Station	5 Tweed STREET	Service Station	Regulation under CLM Act not required	-28.5381619	153.5487135
BUDGEWOI	Colongra Power Station	Off Scenic DRIVE	Other Industry	Under assessment	-33.21463137	151.5529338
BULAHDELAH	Caltex Service Station	8 Red Gum Road, Corner Mahogany STRE	Service Station	Regulation under CLM Act not required	-32.39837094	152.2106015
BULAHDELAH	Former Caltex Service Station	53-59 Bulahdelah WAY	Service Station	Regulation under CLM Act not required	-32.40721638	152.2110291
BULAHDELAH	BP-branded (former Mobil) Service Statio	73-75 Bulahdelah WAY	Service Station	Regulation under CLM Act not required	-32.40971018	152.2105785
BULLABURRA	Former Burmah Bullaburra Service Statior	367 - 369 Great Western HIGHWAY	Service Station	Regulation under CLM Act not required	-33.72482995	150.4124537
BULLI	Scrap Yard	7 Molloy STREET	Other Industry	Contamination formerly regulated under	-34.33663195	150.9131154
BULLI	Bulli Brickworks	Quilkey PLACE	Other Industry	Regulation under CLM Act not required	-34.33263113	150.9086247
BUNGALORA	Former landfill area	Part of 840 Terranora ROAD	Other Industry	Regulation under CLM Act not required	-28.2424318	153.4789209
BUNGENDORE	Former Timber Treatment Plant	Corner King Street and Butmaroo STREET	Other Industry	Contamination formerly regulated under	-35.26151273	149.4434907
BURONGA	Caltex Service Station	Sturt Hwy Cnr Silver City HIGHWAY	Service Station	Regulation under CLM Act not required	-34.17056496	142.1813847
BURWOOD	Burwood STA Depot	Cnr Shaftesbury and Parramatta ROADS	Other Industry	Contamination formerly regulated under	-33.86982934	151.1089057
BYRON BAY	Residential Development	Lot 15 Seaview STREET	Unclassified	Regulation under CLM Act not required	-28.65214464	153.6165573

Locked Bag 2906, Lisarow NSW 2252
Customer Experience 13 10 50
ABN 81 913 830 179 | www.safework.nsw.gov.au

Our Ref: D21/063632

12 May 2021

Mr Elliott Luck
Douglas Partners Pty Ltd
Elliott.luck@douglaspartners.com.au

Dear Mr Luck

RE SITE: DP1027107 Lot 701, 6-14 Butamroo Street Bungendore NSW 2621

I refer to your site search request received by SafeWork NSW requesting information on Storage of Hazardous Chemicals for the above site.

A search of the records held by SafeWork NSW has not located any records pertaining to the above-mentioned premises.

For further information or if you have any questions, please call us on 13 10 50 or email licensing@safework.nsw.gov.au

Yours sincerely



Gabriela Draper

Licensing Representative
Licensing and Funds, Better Regulation
SafeWork NSW

NSW GOVERNMENT | SafeWork NSW

Locked Bag 2906, Lisarow NSW 2252
Customer Experience 13 10 50
ABN 81 913 830 179 | www.safework.nsw.gov.au

Our Ref: D21/058451

12 May 2021

Mr Elliott Luck
Douglas Partners
Elliott.luck@douglaspartners.com.au

Dear Mr Luck

RE SITE: 20 Majara St, Bungendore NSW 2621

I refer to your site search request received by SafeWork NSW requesting information on Storage of Hazardous Chemicals for the above site.

A search of the records held by SafeWork NSW has not located any records pertaining to the above-mentioned premises.

For further information or if you have any questions, please call us on 13 10 50 or email licensing@safework.nsw.gov.au

Yours sincerely

Gabriela Draper

Licensing Representative
Licensing and Funds, Better Regulation
SafeWork NSW

Locked Bag 2906, Lisarow NSW 2252
Customer Experience 13 10 50
ABN 81 913 830 179 | www.safework.nsw.gov.au

Our Ref: D21/126369

4 August 2021

Elliott Luck
Douglas Partners Pty Ltd
elliott.luck@douglaspartners.com.au

Dear Elliott,

RE SITE: Lot 701 Turallo Terrace Bungendore NSW 2621

I refer to your site search request received by SafeWork NSW requesting information on Storage of Hazardous Chemicals for the above sites.

A search of the records held by SafeWork NSW has not located any records pertaining to the above-mentioned premises.

For further information or if you have any questions, please call us on 13 10 50 or email licensing@safework.nsw.gov.auw

Yours sincerely

May Neill

Licensing Representative, Licensing and Funds
Licensing and Funds | Better Regulation Division
Department of Customer Service
p 13 10 50
www.customerservice.nsw.gov.au
Level 3, 32 Mann Street, Gosford NSW 2250

QUEANBEYAN-PALERANG REGIONAL COUNCIL
Planning Certificate issued under Section 10.7(2&5)
Environmental Planning and Assessment Act 1979

Certificate No.: PL.2021.1601
Your Reference: 202107.00
Date of Issue: 1 April 2021

Mr S Goodsell
2/73 Sheppard Street
HUME NSW 2620

Property Number	349908
Property Address:	Bungendore Park 6-14 Butmaroo Street BUNGENDORE NSW 2621
Legal Description:	Lot 701 DP 1027107

This certificate is provided under Section 10.7(2&5) of the Act. At the date of this certificate, the subject land is affected by the following matters.

Notes:

(a) The information in this certificate only relates to the real property identifier associated with the property and not to any licence or permissive occupancy that may be attached to and included in the property details contained in the description of the land.

(b) The *Environmental Planning and Assessment Act 1979* will be referred to in this Certificate as 'the Act'.

Disclaimer:

This certificate contains information provided to Council by third parties and is as current as the latest information available to Council at the time of production of this document. Council does not warrant the accuracy of the information contained within the information provided by third parties and has not independently verified the information. It is strongly recommended that you contact the relevant third parties to confirm the accuracy of the information.

1. Names of relevant instruments and development control plans

(1) The name of each environmental planning instrument that applies to the carrying out of development on the land.

Palerang Local Environmental Plan 2014 **and State Environmental Planning Policies (SEPPs) that may apply to the carrying out of development on the land:**

- *State Environmental Planning Policy No 21 – Caravan Parks*
- *State Environmental Planning Policy No 33 – Hazardous and Offensive Development*
- *State Environmental Planning Policy No 36 – Manufactured Home Estates*
- *State Environmental Planning Policy No 50 – Canal Estate Development*
- *State Environmental Planning Policy No 55 – Remediation of Land*
- *State Environmental Planning Policy No 64 – Advertising and Signage*
- *State Environmental Planning Policy No 65 – Design Quality of Residential Apartment Development*
- *State Environmental Planning Policy No 70 – Affordable Housing (Revised Schemes)*
- *State Environmental Planning Policy (Affordable Rental Housing) 2009*
- *State Environmental Planning Policy (Building Sustainability Index: BASIX) 2004*
- *State Environmental Planning Policy (Concurrences and Consents) 2018*
- *State Environmental Planning Policy (Educational Establishments and Child Care Facilities) 2017*
- *State Environmental Planning Policy (Exempt and Complying Development Codes) 2008*
- *State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004*
- *State Environmental Planning Policy (Infrastructure) 2007*
- *State Environmental Planning Policy (Koala Habitat Protection) 2021*
- *State Environmental Planning Policy (Mining, Petroleum Production & Extractive Industries) 2007*
- *State Environmental Planning Policy (Primary Production and Rural Development) 2019*
- *State Environmental Planning Policy (State and Regional Development) 2011*
- *State Environmental Planning Policy (Vegetation in Non-Rural Areas) 2017*

www.legislation.nsw.gov.au/#/browse/inForce/EPIs/S
www.legislation.nsw.gov.au/#/view/EPI/2014/623/full

(2) The name of each proposed environmental planning instrument that will apply to the carrying out of development on the land and that is or has been the subject of community consultation or on public exhibition under the Act (unless the Director-General has notified the council that the making of the proposed instrument has been deferred indefinitely or has not been approved).

Yes: Draft Queanbeyan-Palerang Local Environmental Plan 2020
http://leptracking.planning.nsw.gov.au/proposaldetails.php?rid=6660

Yes. State Environmental Planning Policies (SEPPs) that have been the subject of community consultation or on public exhibition under the Act that may apply to the carrying out of development on the land:

- Draft State Environmental Planning Policy (Environment)
- Draft State Environmental Planning Policy (Housing Diversity) 2020
- Remediation of Land State Environmental Planning Policy
- State Environmental Planning Policy No 21 — Caravan Parks
- State Environmental Planning Policy No 33 – Hazardous and Offensive Development
- State Environmental Planning Policy No 36 — Manufactured Home Estates
- State Environmental Planning Policy No 55 — Remediation of Land
- State Environmental Planning Policy No 65 – Design Quality of Residential Apartment Development
- State Environmental Planning Policy No 70 — Affordable Housing (Revised Schemes)
- State Environmental Planning Policy (Affordable Rental Housing) 2009
- State Environmental Planning Policy (Building Sustainability Index: BASIX) 2004
- State Environmental Planning Policy (Educational Establishments and Child Care Facilities) 2017
- State Environmental Planning Policy (Exempt and Complying Development Code) 2008
- State Environmental Planning Policy (Infrastructure) 2007
- State Environmental Planning Policy (Mining, Petroleum Production & Extractive Industries) 2007
- State Environmental Planning Policy (Primary Production and Rural Development) 2019
- State Environmental Planning Policy (State and Regional Development) 2011

www.planningportal.nsw.gov.au/draftplans

(3) The name of each development control plan that applies to the carrying out of development on the land:

Lot 701 DP 1027107 **Palerang Development Control Plan 2015**

www.qprc.nsw.gov.au/Building-Development/Planning-Zoning/Planning-controls#section-3

2. Zoning and land use under relevant LEPs

(a) Identity of the zone:

Lot 701 DP 1027107 **RE1 Public Recreation**

RE1 Public Recreation - *Palerang Local Environmental Plan 2014*

(b) The purposes for which development may be carried out without development consent:

Extensive agriculture

(c) The purposes for which development may not be carried out except with development consent:

Aquaculture; Building identification signs; Business identification signs; Caravan parks; Community facilities; Entertainment facilities; Environmental facilities; Environmental protection works; Flood mitigation works; Information and education facilities; Kiosks; Markets; Recreation areas; Recreation facilities (indoor); Recreation facilities (major); Recreation facilities (outdoor); Roads; Waste or resource transfer stations; Water recycling facilities

(d) The purposes for which development is prohibited:

Any development not specified in item (b) or (c)

Note: Demolition of a building or work requires consent under clause 2.7 of the applicable Local Environmental Plan.

Listed below are any additional site specific permitted uses (only with development consent) from the schedule of the relevant Local Environmental Plan cited in clause 1(1) of this certificate. Note that for multi lot titles, the additional uses may apply only to particular lots.

Lot 701 DP 1027107 **There are no additional uses permitted on this land.**

(e) Minimum land dimensions for the erection of a dwelling house on the land fixed by development standards applying to the land:

(1) Minimum area

Lot 701 DP 1027107 **Not applicable. A new dwelling is prohibited on the land.**

Unless the land is within a zone where a dwelling house is not permitted. Refer to clause 2(d)

(f) Whether the land includes or comprises critical habitat:

Lot 701 DP 1027107 **No. None of the land includes or comprises critical habitat.**

(g) Whether the land is in a conservation area:

Lot 701 DP 1027107	**No. The land is not in a Heritage Conservation Area or a State Conservation Area.**

(h) Whether an item of environmental heritage is situated on the land:

Lot 701 DP 1027107	**Yes. Council is aware of items of state environmental heritage or local environmental heritage that are located on the land.**

2A. Zoning and land use under *State Environmental Planning Policy (Sydney Region Growth Centres) 2006*

Whether the land is within any zone under:

(a) Part 3 of the *State Environmental Planning Policy (Sydney Region Growth Centres) 2006* or

(b) A Precinct Plan (within the means of the *State Environmental Planning Policy (Sydney Region Growth Centres) 2006* or

(c) A proposed Precinct Plan that is or has been the subject of community consultation or on public exhibition under the Act.

Not applicable.

3. Complying Development

(1) Whether or not the land is land on which complying development may be carried out under each of the codes for complying development because of the provisions of clauses 1.17A (1) (c) to (e), (2), (3) and (4), 1.18 (1) (c3) and 1.19 of *State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.*

Zone - RE1 Public Recreation		**Lot 701 DP 1027107**
Part No.	**Code**	**Land on which complying development may be carried out**
Part 3	**Housing Code**	**Not Applicable**
Part 3A	**Rural Housing Code**	**Not Applicable**
Part 3B	**Low Rise Housing Diversity Code**	**Not Applicable**
Part 3C	**Greenfield Housing Code**	**Not Applicable**
Part 3D	**Inland Code**	**Not Applicable**
Part 4	**Housing Alterations Code**	**No**
Part 4A	**General Development Code**	**No**
Part 5	**Commercial and Industrial Alterations Code**	**No**
Part 5A	**Commercial and Industrial (New Buildings and Additions) Code**	**Not Applicable**
Part 5B	**Container Recycling Facilities Code**	**Not Applicable**
Part 6	**Subdivisions Code**	**No**
Part 7	**Demolition Code**	**No**
Part 8	**Fire Safety Code**	**No**

(2) If complying development may not be carried out on that land because of the provisions of clauses 1.17A (1) (c) to (e), (2), (3) and (4), 1.18 (1) (c3) and 1.19 of that Policy, the reasons why it may not be carried out under these clauses.

Zone - RE1 Public Recreation		**Lot 701 DP 1027107**
Part No.	**Code**	**Reason**
Part 4	**Housing Alterations Code**	**Is identified as an item of environmental heritage or a heritage item by an environmental planning instrument.**
Part 4	**Housing Alterations Code**	**Part of the land is identified by an environmental planning instrument as being environmentally sensitive land for exempt and complying development - *Palerang Local Environmental Plan 2014* 3.3 (2)(jb).**
Part 4A	**General Development Code**	**Is identified as an item of environmental heritage or a heritage item by an environmental planning instrument.**
Part 4A	**General Development Code**	**Part of the land is identified by an environmental planning instrument as being environmentally sensitive land for exempt and complying development - *Palerang Local Environmental Plan 2014* 3.3 (2)(jb).**
Part 5	**Commercial and Industrial Alterations Code**	**Is identified as an item of environmental heritage or a heritage item by an environmental planning instrument.**

Part 5	**Commercial and Industrial Alterations Code**	**Part of the land is identified by an environmental planning instrument as being environmentally sensitive land for exempt and complying development - *Palerang Local Environmental Plan 2014* 3.3 (2)(jb).**
Part 6	**Subdivisions Code**	**Is identified as an item of environmental heritage or a heritage item by an environmental planning instrument.**
Part 6	**Subdivisions Code**	**Part of the land is identified by an environmental planning instrument as being environmentally sensitive land for exempt and complying development - *Palerang Local Environmental Plan 2014* 3.3 (2)(jb).**
Part 7	**Demolition Code**	**Is identified as an item of environmental heritage or a heritage item by an environmental planning instrument.**
Part 7	**Demolition Code**	**Part of the land is identified by an environmental planning instrument as being environmentally sensitive land for exempt and complying development - *Palerang Local Environmental Plan 2014* 3.3 (2)(jb).**
Part 8	**Fire Safety Code**	**Is identified as an item of environmental heritage or a heritage item by an environmental planning instrument.**
Part 8	**Fire Safety Code**	**Part of the land is identified by an environmental planning instrument as being environmentally sensitive land for exempt and complying development - *Palerang Local Environmental Plan 2014* 3.3 (2)(jb).**

4, 4A. Repealed

4B. Annual charges under *Local Government Act 1993* for coastal protection services that relate to existing coastal protection works

In relation to a coastal council—whether the owner (or any previous owner) of the land has consented in writing to the land being subject to annual charges under section 496B of the *Local Government Act 1993* for coastal protection services that relate to existing coastal protection works (within the meaning of section 553B of that Act).

No. The land is not affected because it is not located in a coastal council.

5. Mine subsidence

Whether or not the land is proclaimed to be a mine subsidence district within the meaning of the *Coal Mine Subsidence Compensation Act 2017.*

No. The land is not proclaimed to be a mine subsidence district within the meaning of the *Coal Mine Subsidence Compensation Act 2017.*

6. Road widening and road realignment

(a) Is the land affected by a road widening or road realignment under Division 2 of Part 3 of the *Roads Act 1993*?

Lot 701 DP 1027107	**No. The land is not affected by a road widening or road realignment under the Roads Act 1993.**

(b) Is the land affected by any road widening or road realignment under any environmental planning instrument?

Lot 701 DP 1027107	**No. The land is not affected by any road widening or road realignment under any environmental planning instrument.**

(c) Is the land affected by any road widening or road realignment under any resolution of the Council?

Lot 701 DP 1027107	**No. The land is not affected by a road widening or road realignment under a resolution of Council.**

7. Council and other public authority policies on hazard risk restrictions

(a) Is the land affected by a policy adopted by council that restricts the development of the land because of the likelihood of land slip, bushfire, tidal inundation, subsidence, acid sulphate soils or any other risk (other than flooding)?

Yes. All land in QPRC is affected by policies adopted by the council that restricts the development of the land because of the likelihood of contaminated land and bushfire.

Lot 701 DP 1027107	**The land has not been assessed for the likelihood of contamination by Council considering past uses or results of systematic testing. It is not known if Contaminated Land provisions of the Development Control Plan or the relevant State legislation, apply.**

Note: Refer to Clause 11 of this certificate to check if the land is bushfire prone.

(b) Is the land affected by a policy adopted by any other public authority that restricts the development of the land because of the likelihood of landslip, bushfire, tidal inundation, subsidence, acid sulphate or any other risk?

No. Council is not aware of a policy adopted by any other public authority that restricts the development of the land.

7A. Flood related development controls information

(1) Whether or not development on that land or part of the land for the purposes of dwelling houses, dual occupancies, multi dwelling housing or residential flat buildings (not including development for the purposes of group homes or seniors housing) is subject to flood related development controls.

Lot 701 DP 1027107	**Yes. Refer to Palerang Local Environmental Plan 2014, Clause 6.2 and Palerang Development Control Plan 2015 Part B - General Provisions, Section B9 Flood Planning.**

(2) Whether or not development on that land or part of the land for any other purpose is subject to flood related development controls.

Lot 701 DP 1027107	**Yes. Refer to Palerang Local Environmental Plan 2014, Clause 6.2 and Palerang Development Control Plan 2015 Part B - General Provisions, Section B9 Flood Planning.**

8. Land reserved for acquisition

Whether or not any environmental planning instrument or proposed environmental planning instrument referred to in clause 1 makes provision in relation to the acquisition of the land by a public authority, as referred to in section 3.15 of the Act.

Lot 701 DP 1027107	**No. Council is not aware of any environmental planning instrument or proposed environmental planning instrument that makes provision for the acquisition of the land by a public authority.**

9. Contributions plans

The name of each Contributions plan applying to the land.

Lot 701 DP 1027107	**Palerang Council Section 94 Development Contributions Plan No. 7 for the Provision of Recreation Facilities at Bungendore.**
Lot 701 DP 1027107	**Palerang Council Section 94 Development Contributions Plan No. 8 for the Provision of Pathway Network at Bungendore.**
Lot 701 DP 1027107	**Palerang Council Section 94 Development Contributions Plan No. 9 for Street Upgrading at Bungendore.**
Lot 701 DP 1027107	**Yarrowlumla Council Section 94 Contributions Plan No. 1 Bungendore.**

www.qprc.nsw.gov.au/Building-Development/Planning-Zoning/Planning-controls#section-6

9A. Biodiversity certified land

Whether the land is biodiversity certified land under Part 8 of the *Biodiversity Conservation Act 2016.*

Lot 701 DP 1027107	**No. Council has not been notified that the land is biodiversity certified under the Biodiversity Conservation Act 2016.**

10. Biodiversity stewardship sites

Whether the land is a biodiversity stewardship site under a biodiversity stewardship agreement under Part 5 of the *Biodiversity Conservation Act 2016.*

Lot 701 DP 1027107	**No. Council has not been notified that the land is a biodiversity stewardship site under a biodiversity stewardship agreement under the Biodiversity Conservation Act 2016.**

10A. Native vegetation clearing set asides

Whether the land contains a set aside area under section 60ZC of the *Local Land Services Act 2013*.

Lot 701 DP 1027107	**No. Council has not been notified that the land contains a set aside area or it is registered in the public register under the Local Land Services Act 2013.**

11. Bush fire prone land

Whether the land is bush fire prone land.

Lot 701 DP 1027107	**No. The land is not bush fire prone as defined in Section 10.3 of the Environmental Planning and Assessment Act 1979.**

12. Property Vegetation Plans

Whether Council has been notified that a property vegetation plan under the *Native Vegetation Act 2003* applies to the land.

Lot 701 DP 1027107	**No. Council has not been notified of a property vegetation plan under the Native Vegetation Act 2003 that applies to the land.**

13. Orders under *Trees (Disputes Between Neighbours) Act 2006*

Whether Council has been notified whether an order has been made under the *Trees (Disputes Between Neighbours) Act 2006* to carry out work in relation to a tree on the land.

No. Council has not been notified of order made under the *Trees (Disputes Between Neighbours) Act 2006* to carry out work in relation to a tree on the land.

14. Directions under Part 3A

Whether there is a direction by the Minister in force under section 75P (2) (c1) of the Act that a provision of an environmental planning instrument prohibiting or restricting the carrying out of a project or a stage of a project on the land under Part 4 of the Act does not have effect.

No. Council has not been advised of any Directions by the Minister under section 75P (2) (c1) of the Act.

15. Site compatibility certificates and conditions for seniors housing

Whether there is a current site compatibility certificate (seniors housing), of which the council is aware, in respect of proposed development on the land:

No. Council is not aware of any valid site compatibility certificate (seniors housing) applying to the land.

16. Site compatibility certificates for infrastructure, schools or TAFE establishments

Whether there is a valid site compatibility certificate (infrastructure, schools or TAFE establishments), of which council is aware of in respect of proposed development on the land.

No. Council is not aware of any valid site compatibility certificate (infrastructure, schools or TAFE establishments) applying to the land.

17. Site compatibility certificates and conditions for affordable rental housing

Whether there a current site compatibility certificate (affordable rental housing), of which the council is aware, in respect of proposed development on the land.

No. Council is not aware of any valid site compatibility certificate (affordable rental housing) applying to the land.

18. Paper subdivision information

The name of any development plan adopted by a relevant authority that applies to the land or that is proposed to be subject to a consent ballot.

No. Council is not aware of any development plan adopted by a relevant authority or any subdivision Order that applies to a paper subdivision of the land as described in Part 16C of the *Environmental Planning and Assessment Regulation 2000*.

19. Site verification certificate

Whether there is a current site verification certificate in relation to Division 3 of Part 4AA of the *State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007* that Council is aware of.

No. Council is not aware of any site verification certificate applying to the land.

20. Loose-fill asbestos insulation

If the land includes any residential premises (within the meaning of Division 1A of Part 8 of the *Home Building Act 1989*) that are listed on the register that is required to be maintained under that Division.

No. Council is not aware of any residential premises on the land that are affected by loose-fill asbestos insulation (Division 1A of Part 8 of the *Home Building Act 1989*) and that are listed on the NSW register that is required to be maintained under that Division.

NSW Fair Trading maintains a NSW Register of homes that are affected by loose-fill asbestos insulation: www.fairtrading.nsw.gov.au/loose-fill-asbestos-insulation-register

Some buildings located in the Queanbeyan-Palerang local government area have been identified as containing loose-fill asbestos insulation (sometimes referred to as "Mr Fluffy" insulation), for example, in the roof space. You should make your own enquiries as to the age of the buildings on the land to which this certificate relates. If the land contains a building constructed prior to 1980, Queanbeyan-Palerang Regional Council strongly recommends that any potential purchaser obtains advice from a licensed asbestos assessor to determine whether loose-fill asbestos is present in any building on the land; and, if so, the health risks (if any) this may pose for the building's occupants. Contact NSW Fair Trading for further information: https://www.fairtrading.nsw.gov.au/housing-and-property/loose-fill-asbestos-insulation

Nothing in this statement relates to information about the presence of bonded asbestos materials such as asbestos cement sheeting that may have been used at this site.

21. Affected building notices and building product rectification orders

(1) Is there any affected building notice of which the council is aware that is in force in respect of the land?

(2) A statement of:

(a) whether there is any building product rectification order of which the council is aware that is in force in respect of the land and has not been fully complied with, and

(b) whether any notice of intention to make a building product rectification order of which the council is aware has been given in respect of the land and is outstanding.

No. Council is not aware of the existence of any affected building notice in force, or building product rectification order, or any notice of intention to make a building product rectification order.

22. State Environmental Planning Policy (Western Sydney Aerotropolis) 2020

For land to which *State Environmental Planning Policy (Western Sydney Aerotropolis) 2020* applies, whether the land is:

(a) in an ANEF or ANEC contour of 20 or greater as referred to in clause 19 of that Policy, or

(b) shown on the *Lighting Intensity and Wind Shear Map* under that Policy, or

(c) shown on the *Obstacle Limitation Surface Map* under that Policy, or

(d) in the "public safety area" on the *Public Safety Area Map* under that Policy, or

(e) in the "3 kilometre wildlife buffer zone" or the "13 kilometre wildlife buffer zone" on the *Wildlife Buffer Zone Map* under that Policy.

Not applicable.

Additional matters prescribed by section 59(2) of the *Contaminated Land Management Act 1997*

(a) Whether there is land to which a certificate relates regarding significantly contaminated land within the meaning of that Act.

Lot 701 DP 1027107	**No. Council is not aware that the land is significantly contaminated.**

(b) Whether there is land to which a certificate relates regarding being subject to a management order within the meaning of that Act.

Lot 701 DP 1027107	**No. Council is not aware that the land is subject to a management order.**

(c) Whether there is land to which a certificate relates regarding the subject of an approved voluntary management proposal within the meaning of that Act.

Lot 701 DP 1027107	**No. Council is not aware that the land is subject to an approved voluntary management order.**

(d) Whether there is land to which a certificate relates regarding being subject to an ongoing maintenance order within the meaning of that Act.

Lot 701 DP 1027107	**No. Council is not aware that the land is subject to an ongoing maintenance order.**

(e) Whether there is land to which a certificate relates regarding being the subject of a site audit statement within the meaning of that Act.

Lot 701 DP 1027107	**No. Council is not aware that the land is the subject of a site audit statement.**

Additional Notes

Aircraft Noise

The land is not located within the Australian Noise Exposure Forecast (ANEF) contour of 20 or greater for the Canberra Airport. Land within an ANEF contour of less than 20 is generally regarded as being 'acceptable' for new residential dwellings and other land uses under *Australian Standard AS2021:2015 Acoustics- Aircraft noise intrusion- Building siting and construction*. Further advice in respect of potential aircraft noise impacts is available from Canberra Airport at: https://www.canberraairport.com.au/corporate/community/aircraft-noise/

Additional information provided in accordance with section 10.7(5) of the *Environmental Planning and Assessment Act 1979*

Vegetation Clearing

There are restrictions on the clearing of vegetation on the land.
Refer to:
- ***State Environmental Planning Policy (Vegetation in Non-Rural Areas) 2017,***
- ***Biodiversity Conservation Act 2016,***
- ***Local Land Services Act 2013,***
- **relevant Development Control Plan [see clause 1(3) of this certificate],**
- **clause 10A of this certificate if a native vegetation set aside area applies,**
- **clause 12 of this certificate if a property vegetation plan applies.**

Loose Fill Asbestos

If the land to which this certificate relates contains a building constructed prior to 1980, the Council strongly recommends that any potential purchaser obtain advice from an appropriately qualified expert as to whether loose fill asbestos is present in any building on the land and, if so, the health risks (if any) this may pose for the building's occupants. Prospective purchasers may also wish to ask the current owner if the property has previously been inspected under the NSW WorkCover ceiling insulation testing program. Further information about loose fill asbestos insulation (including information about the NSW WorkCover ceiling insulation testing scheme) can be found at:
http://www.fairtrading.nsw.gov.au/housing-and-property/loose-fill-asbestos-insulation

Road Access

Lot 701 DP 1027107	**The land is served by a public road which is maintained by Council. Enquiries related to maintenance schedules can be made to Council at: https://www.qprc.nsw.gov.au/Services/Roads-and-footpaths**

Development Approvals

The following development approvals or complying development certificates have been issued by Council in the previous five years:

DA.2016.058 – Outdoor Gym
DA.2019.1342 - Pergola

ISSUE DETAILS
Certificate No: PL.2021.1601
Checked: CK.

M J Thompson
Portfolio General Manager
Natural and Built Character
Queanbeyan-Palerang Regional Council



Per……

1 April 2021

QUEANBEYAN-PALERANG REGIONAL COUNCIL
Planning Certificate issued under Section 10.7(2&5)
Environmental Planning and Assessment Act 1979

Certificate No.: PL.2021.1603
Your Reference: 202107.00
Date of Issue: 06 April 2021

Mr S Goodsell
2/73 Sheppard Street
HUME NSW 2620

Property Number	352017
Property Address:	Community Centre 2 Majara Street BUNGENDORE NSW 2621
Legal Description:	Lot 12 DP 1139067

This certificate is provided under Section 10.7(2&5) of the Act. At the date of this certificate, the subject land is affected by the following matters.

Notes:

(a) The information in this certificate only relates to the real property identifier associated with the property and not to any licence or permissive occupancy that may be attached to and included in the property details contained in the description of the land.

(b) The *Environmental Planning and Assessment Act 1979* will be referred to in this Certificate as 'the Act'.

Disclaimer:

This certificate contains information provided to Council by third parties and is as current as the latest information available to Council at the time of production of this document. Council does not warrant the accuracy of the information contained within the information provided by third parties and has not independently verified the information. It is strongly recommended that you contact the relevant third parties to confirm the accuracy of the information.

1. Names of relevant instruments and development control plans

(1) The name of each environmental planning instrument that applies to the carrying out of development on the land.

Palerang Local Environmental Plan 2014 **and State Environmental Planning Policies (SEPPs) that may apply to the carrying out of development on the land:**

- *State Environmental Planning Policy No 21 – Caravan Parks*
- *State Environmental Planning Policy No 33 – Hazardous and Offensive Development*
- *State Environmental Planning Policy No 36 – Manufactured Home Estates*
- *State Environmental Planning Policy No 50 – Canal Estate Development*
- *State Environmental Planning Policy No 55 – Remediation of Land*
- *State Environmental Planning Policy No 64 – Advertising and Signage*
- *State Environmental Planning Policy No 65 – Design Quality of Residential Apartment Development*
- *State Environmental Planning Policy No 70 – Affordable Housing (Revised Schemes)*
- *State Environmental Planning Policy (Affordable Rental Housing) 2009*
- *State Environmental Planning Policy (Building Sustainability Index: BASIX) 2004*
- *State Environmental Planning Policy (Concurrences and Consents) 2018*
- *State Environmental Planning Policy (Educational Establishments and Child Care Facilities) 2017*
- *State Environmental Planning Policy (Exempt and Complying Development Codes) 2008*
- *State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004*
- *State Environmental Planning Policy (Infrastructure) 2007*
- *State Environmental Planning Policy (Koala Habitat Protection) 2021*
- *State Environmental Planning Policy (Mining, Petroleum Production & Extractive Industries) 2007*
- *State Environmental Planning Policy (Primary Production and Rural Development) 2019*
- *State Environmental Planning Policy (State and Regional Development) 2011*
- *State Environmental Planning Policy (Vegetation in Non-Rural Areas) 2017*

www.legislation.nsw.gov.au/#/browse/inForce/EPIs/S
www.legislation.nsw.gov.au/#/view/EPI/2014/623/full

(2) The name of each proposed environmental planning instrument that will apply to the carrying out of development on the land and that is or has been the subject of community consultation or on public exhibition under the Act (unless the Director-General has notified the council that the making of the proposed instrument has been deferred indefinitely or has not been approved).

Yes: Draft Queanbeyan-Palerang Local Environmental Plan 2020
http://leptracking.planning.nsw.gov.au/proposaldetails.php?rid=6660

Yes. State Environmental Planning Policies (SEPPs) that have been the subject of community consultation or on public exhibition under the Act that may apply to the carrying out of development on the land:

- Draft State Environmental Planning Policy (Environment)
- Draft State Environmental Planning Policy (Housing Diversity) 2020
- Remediation of Land State Environmental Planning Policy
- State Environmental Planning Policy No 21 — Caravan Parks
- State Environmental Planning Policy No 33 – Hazardous and Offensive Development
- State Environmental Planning Policy No 36 — Manufactured Home Estates
- State Environmental Planning Policy No 55 — Remediation of Land
- State Environmental Planning Policy No 65 – Design Quality of Residential Apartment Development
- State Environmental Planning Policy No 70 — Affordable Housing (Revised Schemes)
- State Environmental Planning Policy (Affordable Rental Housing) 2009
- State Environmental Planning Policy (Building Sustainability Index: BASIX) 2004
- State Environmental Planning Policy (Educational Establishments and Child Care Facilities) 2017
- State Environmental Planning Policy (Exempt and Complying Development Code) 2008
- State Environmental Planning Policy (Infrastructure) 2007
- State Environmental Planning Policy (Mining, Petroleum Production & Extractive Industries) 2007
- State Environmental Planning Policy (Primary Production and Rural Development) 2019
- State Environmental Planning Policy (State and Regional Development) 2011

www.planningportal.nsw.gov.au/draftplans

(3) The name of each development control plan that applies to the carrying out of development on the land:

Lot 12 DP 1139067 **Palerang Development Control Plan 2015**

www.qprc.nsw.gov.au/Building-Development/Planning-Zoning/Planning-controls#section-3

2. Zoning and land use under relevant LEPs

(a) Identity of the zone:

Lot 12 DP 1139067 **SP2 Infrastructure**

SP2 Infrastructure - *Palerang Local Environmental Plan 2014*

(b) The purposes for which development may be carried out without development consent:

Nil

(c) The purposes for which development may not be carried out except with development consent:

Aquaculture; Community facilities; Roads; The purpose shown on the Land Zoning Map, including any development that is ordinarily incidental or ancillary to development for that purpose

(d) The purposes for which development is prohibited:

Any development not specified in item (b) or (c)

Note: Demolition of a building or work requires consent under clause 2.7 of the applicable Local Environmental Plan.

Listed below are any additional site specific permitted uses (only with development consent) from the schedule of the relevant Local Environmental Plan cited in clause 1(1) of this certificate. Note that for multi lot titles, the additional uses may apply only to particular lots.

Lot 12 DP 1139067 **There are no additional uses permitted on this land.**

(e) Minimum land dimensions for the erection of a dwelling house on the land fixed by development standards applying to the land:

(1) Minimum area

Lot 12 DP 1139067 **Not applicable. A new dwelling is prohibited on the land.**

Unless the land is within a zone where a dwelling house is not permitted. Refer to clause 2(d).

(f) Whether the land includes or comprises critical habitat:

Lot 12 DP 1139067 **No. None of the land includes or comprises critical habitat.**

(g) Whether the land is in a conservation area:

Lot 12 DP 1139067	**No. The land is not in a Heritage Conservation Area or a State Conservation Area.**

(h) Whether an item of environmental heritage is situated on the land:

Lot 12 DP 1139067	**No. Council is not aware of any items of state environmental heritage or local environmental heritage that are located on the land.**

2A. Zoning and land use under *State Environmental Planning Policy (Sydney Region Growth Centres) 2006*

Whether the land is within any zone under:

(a) Part 3 of the *State Environmental Planning Policy (Sydney Region Growth Centres) 2006* or

(b) A Precinct Plan (within the means of the *State Environmental Planning Policy (Sydney Region Growth Centres) 2006* or

(c) A proposed Precinct Plan that is or has been the subject of community consultation or on public exhibition under the Act.

Not applicable.

3. Complying Development

(1) Whether or not the land is land on which complying development may be carried out under each of the codes for complying development because of the provisions of clauses 1.17A (1) (c) to (e), (2), (3) and (4), 1.18 (1) (c3) and 1.19 of *State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.*

(2) If complying development may not be carried out on that land because of the provisions of clauses 1.17A (1) (c) to (e), (2), (3) and (4), 1.18 (1) (c3) and 1.19 of that Policy, the reasons why it may not be carried out under these clauses.

Zone SP2 - Infrastructure		**Lot 12 DP 1139067**
Part No.	**Code**	**Land on which complying development may be carried out**
Part 3	**Housing Code**	**Not Applicable**
Part 3A	**Rural Housing Code**	**Not Applicable**
Part 3B	**Low Rise Housing Diversity Code**	**Not Applicable**
Part 3C	**Greenfield Housing Code**	**Not Applicable**
Part 3D	**Inland Code**	**Not Applicable**
Part 4	**Housing Alterations Code**	**Not Applicable**
Part 4A	**General Development Code**	**Not Applicable**
Part 5	**Commercial and Industrial Alterations Code**	**No**
Part 5A	**Commercial and Industrial (New Buildings and Additions) Code**	**Not Applicable**
Part 5B	**Container Recycling Facilities Code**	**Not Applicable**
Part 6	**Subdivisions Code**	**Not Applicable**
Part 7	**Demolition Code**	**Not Applicable**
Part 8	**Fire Safety Code**	**Not Applicable**

4, 4A. Repealed

4B. Annual charges under *Local Government Act 1993* for coastal protection services that relate to existing coastal protection works

In relation to a coastal council—whether the owner (or any previous owner) of the land has consented in writing to the land being subject to annual charges under section 496B of the *Local Government Act 1993* for coastal protection services that relate to existing coastal protection works (within the meaning of section 553B of that Act).

No. The land is not affected because it is not located in a coastal council.

5. Mine subsidence

Whether or not the land is proclaimed to be a mine subsidence district within the meaning of the *Coal Mine Subsidence Compensation Act 2017.*

No. The land is not proclaimed to be a mine subsidence district within the meaning of the *Coal Mine Subsidence Compensation Act 2017.*

6. Road widening and road realignment

(a) Is the land affected by a road widening or road realignment under Division 2 of Part 3 of the *Roads Act 1993*?

Lot 12 DP 1139067	**No. The land is not affected by a road widening or road realignment under the Roads Act 1993.**

(b) Is the land affected by any road widening or road realignment under any environmental planning instrument?

Lot 12 DP 1139067	**No. The land is not affected by any road widening or road realignment under any environmental planning instrument.**

(c) Is the land affected by any road widening or road realignment under any resolution of the Council?

Lot 12 DP 1139067	**No. The land is not affected by a road widening or road realignment under a resolution of Council.**

7. Council and other public authority policies on hazard risk restrictions

(a) Is the land affected by a policy adopted by council that restricts the development of the land because of the likelihood of land slip, bushfire, tidal inundation, subsidence, acid sulphate soils or any other risk (other than flooding)?

Yes. All land in QPRC is affected by policies adopted by the council that restricts the development of the land because of the likelihood of contaminated land and bushfire.

Lot 12 DP 1139067	**The land has not been assessed for the likelihood of contamination by Council considering past uses or results of systematic testing. It is not known if Contaminated Land provisions of the Development Control Plan or the relevant State legislation, apply.**

Note: Refer to Clause 11 of this certificate to check if the land is bushfire prone.

(b) Is the land affected by a policy adopted by any other public authority that restricts the development of the land because of the likelihood of landslip, bushfire, tidal inundation, subsidence, acid sulphate or any other risk?

No. Council is not aware of a policy adopted by any other public authority that restricts the development of the land.

7A. Flood related development controls information

(1) Whether or not development on that land or part of the land for the purposes of dwelling houses, dual occupancies, multi dwelling housing or residential flat buildings (not including development for the purposes of group homes or seniors housing) is subject to flood related development controls.

Lot 12 DP 1139067	**No. The land is not subject to flood related development controls.**

(2) Whether or not development on that land or part of the land for any other purpose is subject to flood related development controls.

Lot 12 DP 1139067	**No. The land is not subject to flood related development controls.**

8. Land reserved for acquisition

Whether or not any environmental planning instrument or proposed environmental planning instrument referred to in clause 1 makes provision in relation to the acquisition of the land by a public authority, as referred to in section 3.15 of the Act.

Lot 12 DP 1139067	**No. Council is not aware of any environmental planning instrument or proposed environmental planning instrument that makes provision for the acquisition of the land by a public authority.**

9. Contributions plans

The name of each Contributions plan applying to the land.

Lot 12 DP 1139067	**Palerang Council Section 94 Development Contributions Plan No. 7 for the Provision of Recreation Facilities at Bungendore.**
Lot 12 DP 1139067	**Palerang Council Section 94 Development Contributions Plan No. 8 for the Provision of Pathway Network at Bungendore.**
Lot 12 DP 1139067	**Palerang Council Section 94 Development Contributions Plan No. 9 for Street Upgrading at Bungendore.**
Lot 12 DP 1139067	**Yarrowlumla Council Section 94 Contributions Plan No. 1 Bungendore.**

www.qprc.nsw.gov.au/Building-Development/Planning-Zoning/Planning-controls#section-6

9A. Biodiversity certified land

Whether the land is biodiversity certified land under Part 8 of the *Biodiversity Conservation Act 2016.*

Lot 12 DP 1139067	**No. Council has not been notified that the land is biodiversity certified under the Biodiversity Conservation Act 2016.**

10. Biodiversity stewardship sites

Whether the land is a biodiversity stewardship site under a biodiversity stewardship agreement under Part 5 of the *Biodiversity Conservation Act 2016.*

Lot 12 DP 1139067	**No. Council has not been notified that the land is a biodiversity stewardship site under a biodiversity stewardship agreement under the Biodiversity Conservation Act 2016.**

10A. Native vegetation clearing set asides

Whether the land contains a set aside area under section 60ZC of the *Local Land Services Act 2013*.

Lot 12 DP 1139067	**No. Council has not been notified that the land contains a set aside area or it is registered in the public register under the Local Land Services Act 2013.**

11. Bush fire prone land

Whether the land is bush fire prone land.

Lot 12 DP 1139067	**No. The land is not bush fire prone as defined in Section 10.3 of the Environmental Planning and Assessment Act 1979.**

12. Property Vegetation Plans

Whether Council has been notified that a property vegetation plan under the *Native Vegetation Act 2003* applies to the land.

Lot 12 DP 1139067	**No. Council has not been notified of a property vegetation plan under the Native Vegetation Act 2003 that applies to the land.**

13. Orders under *Trees (Disputes Between Neighbours) Act 2006*

Whether Council has been notified whether an order has been made under the *Trees (Disputes Between Neighbours) Act 2006* to carry out work in relation to a tree on the land.

No. Council has not been notified of order made under the *Trees (Disputes Between Neighbours) Act 2006* to carry out work in relation to a tree on the land.

14. Directions under Part 3A

Whether there is a direction by the Minister in force under section 75P (2) (c1) of the Act that a provision of an environmental planning instrument prohibiting or restricting the carrying out of a project or a stage of a project on the land under Part 4 of the Act does not have effect.

No. Council has not been advised of any Directions by the Minister under section 75P (2) (c1) of the Act.

15. Site compatibility certificates and conditions for seniors housing

Whether there is a current site compatibility certificate (seniors housing), of which the council is aware, in respect of proposed development on the land:

No. Council is not aware of any valid site compatibility certificate (seniors housing) applying to the land.

16. Site compatibility certificates for infrastructure, schools or TAFE establishments

Whether there is a valid site compatibility certificate (infrastructure, schools or TAFE establishments), of which council is aware of in respect of proposed development on the land.

No. Council is not aware of any valid site compatibility certificate (infrastructure, schools or TAFE establishments) applying to the land.

17. Site compatibility certificates and conditions for affordable rental housing

Whether there a current site compatibility certificate (affordable rental housing), of which the council is aware, in respect of proposed development on the land.

No. Council is not aware of any valid site compatibility certificate (affordable rental housing) applying to the land.

18. Paper subdivision information

The name of any development plan adopted by a relevant authority that applies to the land or that is proposed to be subject to a consent ballot.

No. Council is not aware of any development plan adopted by a relevant authority or any subdivision Order that applies to a paper subdivision of the land as described in Part 16C of the *Environmental Planning and Assessment Regulation 2000*.

19. Site verification certificate

Whether there is a current site verification certificate in relation to Division 3 of Part 4AA of the *State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007* that Council is aware of.

No. Council is not aware of any site verification certificate applying to the land.

20. Loose-fill asbestos insulation

If the land includes any residential premises (within the meaning of Division 1A of Part 8 of the *Home Building Act 1989*) that are listed on the register that is required to be maintained under that Division.

No. Council is not aware of any residential premises on the land that are affected by loose-fill asbestos insulation (Division 1A of Part 8 of the *Home Building Act 1989*) and that are listed on the NSW register that is required to be maintained under that Division.

NSW Fair Trading maintains a NSW Register of homes that are affected by loose-fill asbestos insulation: www.fairtrading.nsw.gov.au/loose-fill-asbestos-insulation-register

Some buildings located in the Queanbeyan-Palerang local government area have been identified as containing loose-fill asbestos insulation (sometimes referred to as "Mr Fluffy" insulation), for example, in the roof space. You should make your own enquiries as to the age of the buildings on the land to which this certificate relates. If the land contains a building constructed prior to 1980, Queanbeyan-Palerang Regional Council strongly recommends that any potential purchaser obtains advice from a licensed asbestos assessor to determine whether loose-fill asbestos is present in any building on the land; and, if so, the health risks (if any) this may pose for the building's occupants. Contact NSW Fair Trading for further information: https://www.fairtrading.nsw.gov.au/housing-and-property/loose-fill-asbestos-insulation

Nothing in this statement relates to information about the presence of bonded asbestos materials such as asbestos cement sheeting that may have been used at this site.

21. Affected building notices and building product rectification orders

(1) Is there any affected building notice of which the council is aware that is in force in respect of the land?

(2) A statement of:

(a) whether there is any building product rectification order of which the council is aware that is in force in respect of the land and has not been fully complied with, and

(b) whether any notice of intention to make a building product rectification order of which the council is aware has been given in respect of the land and is outstanding.

No. Council is not aware of the existence of any affected building notice in force, or building product rectification order, or any notice of intention to make a building product rectification order.

22. State Environmental Planning Policy (Western Sydney Aerotropolis) 2020

For land to which *State Environmental Planning Policy (Western Sydney Aerotropolis) 2020* applies, whether the land is:

(a) in an ANEF or ANEC contour of 20 or greater as referred to in clause 19 of that Policy, or

(b) shown on the *Lighting Intensity and Wind Shear Map* under that Policy, or

(c) shown on the *Obstacle Limitation Surface Map* under that Policy, or

(d) in the "public safety area" on the *Public Safety Area Map* under that Policy, or

(e) in the "3 kilometre wildlife buffer zone" or the "13 kilometre wildlife buffer zone" on the *Wildlife Buffer Zone Map* under that Policy.

Not applicable.

Additional matters prescribed by section 59(2) of the *Contaminated Land Management Act 1997*

(a) Whether there is land to which a certificate relates regarding significantly contaminated land within the meaning of that Act.

Lot 12 DP 1139067	**No. Council is not aware that the land is significantly contaminated.**

(b) Whether there is land to which a certificate relates regarding being subject to a management order within the meaning of that Act.

Lot 12 DP 1139067	**No. Council is not aware that the land is subject to a management order.**

(c) Whether there is land to which a certificate relates regarding the subject of an approved voluntary management proposal within the meaning of that Act.

Lot 12 DP 1139067	**No. Council is not aware that the land is subject to an approved voluntary management order.**

(d) Whether there is land to which a certificate relates regarding being subject to an ongoing maintenance order within the meaning of that Act.

Lot 12 DP 1139067	**No. Council is not aware that the land is subject to an ongoing maintenance order.**

(e) Whether there is land to which a certificate relates regarding being the subject of a site audit statement within the meaning of that Act.

Lot 12 DP 1139067	**No. Council is not aware that the land is the subject of a site audit statement.**

Additional Notes

Aircraft Noise

The land is not located within the Australian Noise Exposure Forecast (ANEF) contour of 20 or greater for the Canberra Airport. Land within an ANEF contour of less than 20 is generally regarded as being 'acceptable' for new residential dwellings and other land uses under *Australian Standard AS2021:2015 Acoustics- Aircraft noise intrusion- Building siting and construction*. Further advice in respect of potential aircraft noise impacts is available from Canberra Airport at: https://www.canberraairport.com.au/corporate/community/aircraft-noise/

Additional information provided in accordance with section 10.7(5) of the *Environmental Planning and Assessment Act 1979*

Vegetation Clearing

There are restrictions on the clearing of vegetation on the land.
Refer to:
- ***State Environmental Planning Policy (Vegetation in Non-Rural Areas) 2017,***
- ***Biodiversity Conservation Act 2016,***
- ***Local Land Services Act 2013,***
- **relevant Development Control Plan [see clause 1(3) of this certificate],**
- **clause 10A of this certificate if a native vegetation set aside area applies,**
- **clause 12 of this certificate if a property vegetation plan applies.**

Loose Fill Asbestos

If the land to which this certificate relates contains a building constructed prior to 1980, the Council strongly recommends that any potential purchaser obtain advice from an appropriately qualified expert as to whether loose fill asbestos is present in any building on the land and, if so, the health risks (if any) this may pose for the building's occupants. Prospective purchasers may also wish to ask the current owner if the property has previously been inspected under the NSW WorkCover ceiling insulation testing program. Further information about loose fill asbestos insulation (including information about the NSW WorkCover ceiling insulation testing scheme) can be found at:
http://www.fairtrading.nsw.gov.au/housing-and-property/loose-fill-asbestos-insulation

Road Access

Lot 12 DP 1139067	**The land is served by a public road which is maintained by Council. Enquiries related to maintenance schedules can be made to Council at:** **https://www.qprc.nsw.gov.au/Services/Roads-and-footpaths**

Development Approvals

Council has no records of development approvals or complying development certificates that have been issued by the previous Council in the previous five years.

ISSUE DETAILS

Certificate No: PL.2021.1603
Checked: CK.

M J Thompson
Portfolio General Manager
Natural and Built Character
Queanbeyan-Palerang Regional Council



Per……

06 April 2021

QUEANBEYAN-PALERANG REGIONAL COUNCIL
Planning Certificate issued under Section 10.7(2&5)
Environmental Planning and Assessment Act 1979

Certificate No.: PL.2021.1604
Your Reference: 202107.00
Date of Issue: 06 April 2021

Mr S Goodsell
2/73 Sheppard Street
HUME NSW 2620

Property Number	343976
Property Address:	Council Office 10 Majara Street BUNGENDORE NSW 2621
Legal Description:	Lot 3 DP 830878

This certificate is provided under Section 10.7(2&5) of the Act. At the date of this certificate, the subject land is affected by the following matters.

Notes:

(a) The information in this certificate only relates to the real property identifier associated with the property and not to any licence or permissive occupancy that may be attached to and included in the property details contained in the description of the land.

(b) The *Environmental Planning and Assessment Act 1979* will be referred to in this Certificate as 'the Act'.

Disclaimer:

This certificate contains information provided to Council by third parties and is as current as the latest information available to Council at the time of production of this document. Council does not warrant the accuracy of the information contained within the information provided by third parties and has not independently verified the information. It is strongly recommended that you contact the relevant third parties to confirm the accuracy of the information.

1. Names of relevant instruments and development control plans

(1) The name of each environmental planning instrument that applies to the carrying out of development on the land.

Palerang Local Environmental Plan 2014 **and State Environmental Planning Policies (SEPPs) that may apply to the carrying out of development on the land:**

- *State Environmental Planning Policy No 21 – Caravan Parks*
- *State Environmental Planning Policy No 33 – Hazardous and Offensive Development*
- *State Environmental Planning Policy No 36 – Manufactured Home Estates*
- *State Environmental Planning Policy No 50 – Canal Estate Development*
- *State Environmental Planning Policy No 55 – Remediation of Land*
- *State Environmental Planning Policy No 64 – Advertising and Signage*
- *State Environmental Planning Policy No 65 – Design Quality of Residential Apartment Development*
- *State Environmental Planning Policy No 70 – Affordable Housing (Revised Schemes)*
- *State Environmental Planning Policy (Affordable Rental Housing) 2009*
- *State Environmental Planning Policy (Building Sustainability Index: BASIX) 2004*
- *State Environmental Planning Policy (Concurrences and Consents) 2018*
- *State Environmental Planning Policy (Educational Establishments and Child Care Facilities) 2017*
- *State Environmental Planning Policy (Exempt and Complying Development Codes) 2008*
- *State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004*
- *State Environmental Planning Policy (Infrastructure) 2007*
- *State Environmental Planning Policy (Koala Habitat Protection) 2021*
- *State Environmental Planning Policy (Mining, Petroleum Production & Extractive Industries) 2007*
- *State Environmental Planning Policy (Primary Production and Rural Development) 2019*
- *State Environmental Planning Policy (State and Regional Development) 2011*
- *State Environmental Planning Policy (Vegetation in Non-Rural Areas) 2017*

www.legislation.nsw.gov.au/#/browse/inForce/EPIs/S
www.legislation.nsw.gov.au/#/view/EPI/2014/623/full

(2) The name of each proposed environmental planning instrument that will apply to the carrying out of development on the land and that is or has been the subject of community consultation or on public exhibition under the Act (unless the Director-General has notified the council that the making of the proposed instrument has been deferred indefinitely or has not been approved).

Yes: Draft Queanbeyan-Palerang Local Environmental Plan 2020
http://leptracking.planning.nsw.gov.au/proposaldetails.php?rid=6660

Yes. State Environmental Planning Policies (SEPPs) that have been the subject of community consultation or on public exhibition under the Act that may apply to the carrying out of development on the land:

- Draft State Environmental Planning Policy (Environment)
- Draft State Environmental Planning Policy (Housing Diversity) 2020
- Remediation of Land State Environmental Planning Policy
- State Environmental Planning Policy No 21 — Caravan Parks
- State Environmental Planning Policy No 33 – Hazardous and Offensive Development
- State Environmental Planning Policy No 36 — Manufactured Home Estates
- State Environmental Planning Policy No 55 — Remediation of Land
- State Environmental Planning Policy No 65 – Design Quality of Residential Apartment Development
- State Environmental Planning Policy No 70 — Affordable Housing (Revised Schemes)
- State Environmental Planning Policy (Affordable Rental Housing) 2009
- State Environmental Planning Policy (Building Sustainability Index: BASIX) 2004
- State Environmental Planning Policy (Educational Establishments and Child Care Facilities) 2017
- State Environmental Planning Policy (Exempt and Complying Development Code) 2008
- State Environmental Planning Policy (Infrastructure) 2007
- State Environmental Planning Policy (Mining, Petroleum Production & Extractive Industries) 2007
- State Environmental Planning Policy (Primary Production and Rural Development) 2019
- State Environmental Planning Policy (State and Regional Development) 2011

www.planningportal.nsw.gov.au/draftplans

(3) The name of each development control plan that applies to the carrying out of development on the land:

Lot 3 DP 830878 **Palerang Development Control Plan 2015**
www.qprc.nsw.gov.au/Building-Development/Planning-Zoning/Planning-controls#section-3

2. Zoning and land use under relevant LEPs

(a) Identity of the zone:

Lot 3 DP 830878 **SP2 Infrastructure**

SP2 Infrastructure - *Palerang Local Environmental Plan 2014*

(b) The purposes for which development may be carried out without development consent:
Nil.

(c) The purposes for which development may not be carried out except with development consent:
Aquaculture; Community facilities; Roads; the purpose shown on the Land Zoning Map, including any development that is ordinarily incidental or ancillary to development for that purpose.

(d) The purposes for which development is prohibited:
Any development not specified in item (b) or (c).

Note: Demolition of a building or work requires consent under clause 2.7 of the applicable Local Environmental Plan.

Listed below are any additional site specific permitted uses (only with development consent) from the schedule of the relevant Local Environmental Plan cited in clause 1(1) of this certificate. Note that for multi lot titles, the additional uses may apply only to particular lots.

Lot 3 DP 830878 **There are no additional uses permitted on this land.**

(e) Minimum land dimensions for the erection of a dwelling house on the land fixed by development standards applying to the land:

Lot 3 DP 830878 **Not applicable. A new dwelling is prohibited on the land.**

(f) Whether the land includes or comprises critical habitat:

Lot 3 DP 830878 **No. None of the land includes or comprises critical habitat.**

(g) Whether the land is in a conservation area:

Lot 3 DP 830878 **No. The land is not in a Heritage Conservation Area or a State Conservation Area.**

(h) Whether an item of environmental heritage is situated on the land:

Lot 3 DP 830878 **No. Council is not aware of any items of state environmental heritage or local environmental heritage that are located on the land.**

2A. Zoning and land use under *State Environmental Planning Policy (Sydney Region Growth Centres) 2006*

Whether the land is within any zone under:

(a) Part 3 of the *State Environmental Planning Policy (Sydney Region Growth Centres) 2006* or

(b) A Precinct Plan (within the means of the *State Environmental Planning Policy (Sydney Region Growth Centres) 2006* or

(c) A proposed Precinct Plan that is or has been the subject of community consultation or on public exhibition under the Act.

Not applicable.

3. Complying Development

(1) Whether or not the land is land on which complying development may be carried out under each of the codes for complying development because of the provisions of clauses 1.17A (1) (c) to (e), (2), (3) and (4), 1.18 (1) (c3) and 1.19 of *State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.*

(2) If complying development may not be carried out on that land because of the provisions of clauses 1.17A (1) (c) to (e), (2), (3) and (4), 1.18 (1) (c3) and 1.19 of that Policy, the reasons why it may not be carried out under these clauses.

Zone SP2 - Infrastructure		**Lot 3 DP 830878**
Part No	**Code**	**Land on which complying development may be carried out**
Part 3	**Housing Code**	**Not Applicable**
Part 3A	**Rural Housing Code**	**Not Applicable**
Part 3B	**Low Rise Housing Diversity Code**	**Not Applicable**
Part 3C	**Greenfield Housing Code**	**Not Applicable**
Part 3D	**Inland Code**	**Not Applicable**
Part 4	**Housing Alterations Code**	**Not Applicable**
Part 4A	**General Development Code**	**Not Applicable**
Part 5	**Commercial and Industrial Alterations Code**	**Not Applicable**
Part 5A	**Commercial and Industrial (New Buildings and Additions) Code**	**Not applicable**
Part 5B	**Container Recycling Facilities Code**	**Not Applicable**
Part 6	**Subdivisions Code**	**Not Applicable**
Part 7	**Demolition Code**	**Not Applicable**
Part 8	**Fire Safety Code**	**Not Applicable**

4, 4A. Repealed

4B. Annual charges under *Local Government Act 1993* for coastal protection services that relate to existing coastal protection works

In relation to a coastal council—whether the owner (or any previous owner) of the land has consented in writing to the land being subject to annual charges under section 496B of the *Local Government Act 1993* for coastal protection services that relate to existing coastal protection works (within the meaning of section 553B of that Act).

No. The land is not affected because it is not located in a coastal council.

5. Mine subsidence

Whether or not the land is proclaimed to be a mine subsidence district within the meaning of the *Coal Mine Subsidence Compensation Act 2017.*

No. The land is not proclaimed to be a mine subsidence district within the meaning of the *Coal Mine Subsidence Compensation Act 2017.*

6. Road widening and road realignment

(a) Is the land affected by a road widening or road realignment under Division 2 of Part 3 of the *Roads Act 1993*?

Lot 3 DP 830878	**No. The land is not affected by a road widening or road realignment under the *Roads Act 1993.***

(b) Is the land affected by any road widening or road realignment under any environmental planning instrument?

Lot 3 DP 830878	**No. The land is not affected by any road widening or road realignment under any environmental planning instrument.**

(c) Is the land affected by any road widening or road realignment under any resolution of the Council?

Lot 3 DP 830878	**No. The land is not affected by a road widening or road realignment under a resolution of Council.**

7. Council and other public authority policies on hazard risk restrictions

(a) Is the land affected by a policy adopted by council that restricts the development of the land because of the likelihood of land slip, bushfire, tidal inundation, subsidence, acid sulphate soils or any other risk (other than flooding)?

Yes. All land in QPRC is affected by policies adopted by the council that restricts the development of the land because of the likelihood of contaminated land and bushfire.

Lot 3 DP 830878	**The land has not been assessed for the likelihood of contamination by Council considering past uses or results of systematic testing. It is not known if Contaminated Land provisions of the Development Control Plan or the relevant State legislation, apply.**

Note: Refer to Clause 11 of this certificate to check if the land is bushfire prone.

(b) Is the land affected by a policy adopted by any other public authority that restricts the development of the land because of the likelihood of landslip, bushfire, tidal inundation, subsidence, acid sulphate or any other risk?

No. Council is not aware of a policy adopted by any other public authority that restricts the development of the land.

7A. Flood related development controls information

(1) Whether or not development on that land or part of the land for the purposes of dwelling houses, dual occupancies, multi dwelling housing or residential flat buildings (not including development for the purposes of group homes or seniors housing) is subject to flood related development controls.

Lot 3 DP 830878	**No. The land is not subject to flood related development controls.**

(2) Whether or not development on that land or part of the land for any other purpose is subject to flood related development controls.

Lot 3 DP 830878	**No. The land is not subject to flood related development controls.**

8. Land reserved for acquisition

Whether or not any environmental planning instrument or proposed environmental planning instrument referred to in clause 1 makes provision in relation to the acquisition of the land by a public authority, as referred to in section 3.15 of the Act.

Lot 3 DP 830878	**No. Council is not aware of any environmental planning instrument or proposed environmental planning instrument that makes provision for the acquisition of the land by a public authority.**

9. Contributions plans

The name of each Contributions plan applying to the land.

Lot 3 DP 830878	**Palerang Council Section 94 Development Contributions Plan No. 7 for the Provision of Recreation Facilities at Bungendore.**
Lot 3 DP 830878	**Palerang Council Section 94 Development Contributions Plan No. 8 for the Provision of Pathway Network at Bungendore.**
Lot 3 DP 830878	**Palerang Council Section 94 Development Contributions Plan No. 9 for Street Upgrading at Bungendore.**
Lot 3 DP 830878	**Yarrowlumla Council Section 94 Contributions Plan No. 1 Bungendore.**

www.qprc.nsw.gov.au/Building-Development/Planning-Zoning/Planning-controls#section-6

9A. Biodiversity certified land

Whether the land is biodiversity certified land under Part 8 of the *Biodiversity Conservation Act 2016.*

Lot 3 DP 830878	**No. Council has not been notified that the land is biodiversity certified under the *Biodiversity Conservation Act 2016.***

10. Biodiversity stewardship sites

Whether the land is a biodiversity stewardship site under a biodiversity stewardship agreement under Part 5 of the *Biodiversity Conservation Act 2016.*

Lot 3 DP 830878	**No. Council has not been notified that the land is a biodiversity stewardship site under a biodiversity stewardship agreement under the *Biodiversity Conservation Act 2016.***

10A. Native vegetation clearing set asides

Whether the land contains a set aside area under section 60ZC of the *Local Land Services Act 2013*.

Lot 3 DP 830878	**No. Council has not been notified that the land contains a set aside area or it is registered in the public register under the *Local Land Services Act 2013.***

11. Bush fire prone land

Whether the land is bush fire prone land.

Lot 3 DP 830878	**No. The land is not bush fire prone as defined in Section 10.3 of the *Environmental Planning and Assessment Act 1979.***

12. Property Vegetation Plans

Whether Council has been notified that a property vegetation plan under the *Native Vegetation Act 2003* applies to the land.

Lot 3 DP 830878	**No. Council has not been notified of a property vegetation plan under the *Native Vegetation Act 2003* that applies to the land.**

13. Orders under *Trees (Disputes Between Neighbours) Act 2006*

Whether Council has been notified whether an order has been made under the *Trees (Disputes Between Neighbours) Act 2006* to carry out work in relation to a tree on the land.

No. Council has not been notified of order made under the *Trees (Disputes Between Neighbours) Act 2006* to carry out work in relation to a tree on the land.

14. Directions under Part 3A

Whether there is a direction by the Minister in force under section 75P (2) (c1) of the Act that a provision of an environmental planning instrument prohibiting or restricting the carrying out of a project or a stage of a project on the land under Part 4 of the Act does not have effect.

No. Council has not been advised of any Directions by the Minister under section 75P (2) (c1) of the Act.

15. Site compatibility certificates and conditions for seniors housing

Whether there is a current site compatibility certificate (seniors housing), of which the council is aware, in respect of proposed development on the land:

No. Council is not aware of any valid site compatibility certificate (seniors housing) applying to the land.

16. Site compatibility certificates for infrastructure, schools or TAFE establishments

Whether there is a valid site compatibility certificate (infrastructure, schools or TAFE establishments), of which council is aware of in respect of proposed development on the land.

No. Council is not aware of any valid site compatibility certificate (infrastructure, schools or TAFE establishments) applying to the land.

17. Site compatibility certificates and conditions for affordable rental housing

Whether there a current site compatibility certificate (affordable rental housing), of which the council is aware, in respect of proposed development on the land.

No. Council is not aware of any valid site compatibility certificate (affordable rental housing) applying to the land.

18. Paper subdivision information

The name of any development plan adopted by a relevant authority that applies to the land or that is proposed to be subject to a consent ballot.

No. Council is not aware of any development plan adopted by a relevant authority or any subdivision Order that applies to a paper subdivision of the land as described in Part 16C of the *Environmental Planning and Assessment Regulation 2000*.

19. Site verification certificate

Whether there is a current site verification certificate in relation to Division 3 of Part 4AA of the *State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007* that Council is aware of.

No. Council is not aware of any site verification certificate applying to the land.

20. Loose-fill asbestos insulation

If the land includes any residential premises (within the meaning of Division 1A of Part 8 of the *Home Building Act 1989*) that are listed on the register that is required to be maintained under that Division.

No. Council is not aware of any residential premises on the land that are affected by loose-fill asbestos insulation (Division 1A of Part 8 of the *Home Building Act 1989*) and that are listed on the NSW register that is required to be maintained under that Division.

NSW Fair Trading maintains a NSW Register of homes that are affected by loose-fill asbestos insulation: www.fairtrading.nsw.gov.au/loose-fill-asbestos-insulation-register.

Some buildings located in the Queanbeyan-Palerang local government area have been identified as containing loose-fill asbestos insulation (sometimes referred to as "Mr Fluffy" insulation), for example, in the roof space. You should make your own enquiries as to the age of the buildings on the land to which this certificate relates. If the land contains a building constructed prior to 1980, Queanbeyan-Palerang Regional Council strongly recommends that any potential purchaser obtains advice from a licensed asbestos assessor to determine whether loose-fill asbestos is present in any building on the land; and, if so, the health risks (if any) this may pose for the building's occupants. Contact NSW Fair Trading for further information: https://www.fairtrading.nsw.gov.au/housing-and-property/loose-fill-asbestos-insulation.

Nothing in this statement relates to information about the presence of bonded asbestos materials such as asbestos cement sheeting that may have been used at this site.

21. Affected building notices and building product rectification orders

(1) Is there any affected building notice of which the council is aware that is in force in respect of the land?

(2) A statement of:

(a) whether there is any building product rectification order of which the council is aware that is in force in respect of the land and has not been fully complied with, and

(b) whether any notice of intention to make a building product rectification order of which the council is aware has been given in respect of the land and is outstanding.

No. Council is not aware of the existence of any affected building notice in force, or building product rectification order, or any notice of intention to make a building product rectification order.

22. State Environmental Planning Policy (Western Sydney Aerotropolis) 2020

For land to which *State Environmental Planning Policy (Western Sydney Aerotropolis) 2020* applies, whether the land is:

(a) in an ANEF or ANEC contour of 20 or greater as referred to in clause 19 of that Policy, or

(b) shown on the *Lighting Intensity and Wind Shear Map* under that Policy, or

(c) shown on the *Obstacle Limitation Surface Map* under that Policy, or

(d) in the "public safety area" on the *Public Safety Area Map* under that Policy, or

(e) in the "3 kilometre wildlife buffer zone" or the "13 kilometre wildlife buffer zone" on the *Wildlife Buffer Zone Map* under that Policy.

Not applicable.

Additional matters prescribed by section 59(2) of the *Contaminated Land Management Act 1997*

(a) Whether there is land to which a certificate relates regarding significantly contaminated land within the meaning of that Act.

Lot 3 DP 830878	**No. Council is not aware that the land is significantly contaminated.**

(b) Whether there is land to which a certificate relates regarding being subject to a management order within the meaning of that Act.

Lot 3 DP 830878	**No. Council is not aware that the land is subject to a management order.**

(c) Whether there is land to which a certificate relates regarding the subject of an approved voluntary management proposal within the meaning of that Act.

Lot 3 DP 830878	**No. Council is not aware that the land is subject to an approved voluntary management order.**

(d) Whether there is land to which a certificate relates regarding being subject to an ongoing maintenance order within the meaning of that Act.

Lot 3 DP 830878	**No. Council is not aware that the land is subject to an ongoing maintenance order.**

(e) Whether there is land to which a certificate relates regarding being the subject of a site audit statement within the meaning of that Act.

Lot 3 DP 830878	**No. Council is not aware that the land is the subject of a site audit statement.**

Additional Notes

Aircraft Noise

The land is not located within the Australian Noise Exposure Forecast (ANEF) contour of 20 or greater for the Canberra Airport. Land within an ANEF contour of less than 20 is generally regarded as being 'acceptable' for new residential dwellings and other land uses under *Australian Standard AS2021:2015 Acoustics- Aircraft noise intrusion- Building siting and construction*. Further advice in respect of potential aircraft noise impacts is available from Canberra Airport at: https://www.canberraairport.com.au/corporate/community/aircraft-noise/

Additional information provided in accordance with section 10.7(5) of the *Environmental Planning and Assessment Act 1979*

Vegetation Clearing

There are restrictions on the clearing of vegetation on the land.
Refer to:
- ***State Environmental Planning Policy (Vegetation in Non-Rural Areas) 2017,***
- ***Biodiversity Conservation Act 2016,***
- ***Local Land Services Act 2013,***
- **relevant Development Control Plan [clause 1(3) of this certificate],**
- **clause 10A of this certificate if a native vegetation set aside area applies,**
- **clause 12 of this certificate if a property vegetation plan applies.**

Loose Fill Asbestos

If the land to which this certificate relates contains a building constructed prior to 1980, the Council strongly recommends that any potential purchaser obtain advice from an appropriately qualified expert as to whether loose fill asbestos is present in any building on the land and, if so, the health risks (if any) this may pose for the building's occupants. Prospective purchasers may also wish to ask the current owner if the property has previously been inspected under the NSW WorkCover ceiling insulation testing program. Further information about loose fill asbestos insulation (including information about the NSW WorkCover ceiling insulation testing scheme) can be found at:
http://www.fairtrading.nsw.gov.au/housing-and-property/loose-fill-asbestos-insulation

Road Access

Lot 3 DP 830878	**The land is served by a public road which is maintained by Council.** **Enquiries related to maintenance schedules can be made to Council at:** **https://www.qprc.nsw.gov.au/Services/Roads-and-footpaths**

Development Approvals

Council has no records of development approvals or complying development certificates that have been issued by the previous Council in the previous five years.

ISSUE DETAILS

Certificate No: PL.2021.1604
Checked: ML

M J Thompson
Portfolio General Manager
Natural and Built Character
Queanbeyan-Palerang Regional Council



Per……

06 April 2021

QUEANBEYAN-PALERANG REGIONAL COUNCIL
Planning Certificate issued under Section 10.7(2&5)
Environmental Planning and Assessment Act 1979

Certificate No.: PL.2021.1605
Your Reference: 202107.00
Date of Issue: 01 April 2021

Mr S Goodsell
2/73 Sheppard Street
HUME NSW 2620

Property Number	349910
Property Address:	Railway Station - Bungendore 20 Majara Street BUNGENDORE NSW 2621
Legal Description:	Lot 2 DP 814518

This certificate is provided under Section 10.7(2&5) of the Act. At the date of this certificate, the subject land is affected by the following matters.

Notes:

(a) The information in this certificate only relates to the real property identifier associated with the property and not to any licence or permissive occupancy that may be attached to and included in the property details contained in the description of the land.

(b) The *Environmental Planning and Assessment Act 1979* will be referred to in this Certificate as 'the Act'.

Disclaimer:

This certificate contains information provided to Council by third parties and is as current as the latest information available to Council at the time of production of this document. Council does not warrant the accuracy of the information contained within the information provided by third parties and has not independently verified the information. It is strongly recommended that you contact the relevant third parties to confirm the accuracy of the information.

1. Names of relevant instruments and development control plans

(1) The name of each environmental planning instrument that applies to the carrying out of development on the land.

Palerang Local Environmental Plan 2014 **and State Environmental Planning Policies (SEPPs) that may apply to the carrying out of development on the land:**

- *State Environmental Planning Policy No 21 – Caravan Parks*
- *State Environmental Planning Policy No 33 – Hazardous and Offensive Development*
- *State Environmental Planning Policy No 36 – Manufactured Home Estates*
- *State Environmental Planning Policy No 50 – Canal Estate Development*
- *State Environmental Planning Policy No 55 – Remediation of Land*
- *State Environmental Planning Policy No 64 – Advertising and Signage*
- *State Environmental Planning Policy No 65 – Design Quality of Residential Apartment Development*
- *State Environmental Planning Policy No 70 – Affordable Housing (Revised Schemes)*
- *State Environmental Planning Policy (Affordable Rental Housing) 2009*
- *State Environmental Planning Policy (Building Sustainability Index: BASIX) 2004*
- *State Environmental Planning Policy (Concurrences and Consents) 2018*
- *State Environmental Planning Policy (Educational Establishments and Child Care Facilities) 2017*
- *State Environmental Planning Policy (Exempt and Complying Development Codes) 2008*
- *State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004*
- *State Environmental Planning Policy (Infrastructure) 2007*
- *State Environmental Planning Policy (Koala Habitat Protection) 2021*
- *State Environmental Planning Policy (Mining, Petroleum Production & Extractive Industries) 2007*
- *State Environmental Planning Policy (Primary Production and Rural Development) 2019*
- *State Environmental Planning Policy (State and Regional Development) 2011*
- *State Environmental Planning Policy (Vegetation in Non-Rural Areas) 2017*

www.legislation.nsw.gov.au/#/browse/inForce/EPIs/S
www.legislation.nsw.gov.au/#/view/EPI/2014/623/full

(2) The name of each proposed environmental planning instrument that will apply to the carrying out of development on the land and that is or has been the subject of community consultation or on public exhibition under the Act (unless the Director-General has notified the council that the making of the proposed instrument has been deferred indefinitely or has not been approved).

Yes: Draft Queanbeyan-Palerang Local Environmental Plan 2020
http://leptracking.planning.nsw.gov.au/proposaldetails.php?rid=6660

Yes. State Environmental Planning Policies (SEPPs) that have been the subject of community consultation or on public exhibition under the Act that may apply to the carrying out of development on the land:

- Draft State Environmental Planning Policy (Environment)
- Draft State Environmental Planning Policy (Housing Diversity) 2020
- Remediation of Land State Environmental Planning Policy
- State Environmental Planning Policy No 21 — Caravan Parks
- State Environmental Planning Policy No 33 – Hazardous and Offensive Development
- State Environmental Planning Policy No 36 — Manufactured Home Estates
- State Environmental Planning Policy No 55 — Remediation of Land
- State Environmental Planning Policy No 65 – Design Quality of Residential Apartment Development
- State Environmental Planning Policy No 70 — Affordable Housing (Revised Schemes)
- State Environmental Planning Policy (Affordable Rental Housing) 2009
- State Environmental Planning Policy (Building Sustainability Index: BASIX) 2004
- State Environmental Planning Policy (Educational Establishments and Child Care Facilities) 2017
- State Environmental Planning Policy (Exempt and Complying Development Code) 2008
- State Environmental Planning Policy (Infrastructure) 2007
- State Environmental Planning Policy (Mining, Petroleum Production & Extractive Industries) 2007
- State Environmental Planning Policy (Primary Production and Rural Development) 2019
- State Environmental Planning Policy (State and Regional Development) 2011

www.planningportal.nsw.gov.au/draftplans

(3) The name of each development control plan that applies to the carrying out of development on the land:

Lot 2 DP 814518 **Palerang Development Control Plan 2015**
www.qprc.nsw.gov.au/Building-Development/Planning-Zoning/Planning-controls#section-3

2. Zoning and land use under relevant LEPs

(a) Identity of the zone:

Lot 2 DP 814518 **SP2 Infrastructure**

SP2 Infrastructure - *Palerang Local Environmental Plan 2014*

(b) The purposes for which development may be carried out without development consent:
Nil.

(c) The purposes for which development may not be carried out except with development consent:
Aquaculture; Community facilities; Roads; the purpose shown on the Land Zoning Map, including any development that is ordinarily incidental or ancillary to development for that purpose.

(d) The purposes for which development is prohibited:
Any development not specified in item (b) or (c).

Note: Demolition of a building or work requires consent under clause 2.7 of the applicable Local Environmental Plan.

Listed below are any additional site specific permitted uses (only with development consent) from the schedule of the relevant Local Environmental Plan cited in clause 1(1) of this certificate. Note that for multi lot titles, the additional uses may apply only to particular lots.

Lot 2 DP 814518 **There are no additional uses permitted on this land.**

(e) Minimum land dimensions for the erection of a dwelling house on the land fixed by development standards applying to the land:

Lot 2 DP 814518 **Not applicable. A new dwelling is prohibited on the land.**

(f) Whether the land includes or comprises critical habitat:

Lot 2 DP 814518 **No. None of the land includes or comprises critical habitat.**

(g) Whether the land is in a conservation area:

Lot 2 DP 814518 **No. The land is not in a Heritage Conservation Area or a State Conservation Area.**

(h) Whether an item of environmental heritage is situated on the land:

Lot 2 DP 814518 **Yes. Council is aware of an item of state environmental heritage that is located on the land.**

2A. Zoning and land use under *State Environmental Planning Policy (Sydney Region Growth Centres) 2006*

Whether the land is within any zone under:

(a) Part 3 of the *State Environmental Planning Policy (Sydney Region Growth Centres) 2006* or

(b) A Precinct Plan (within the means of the *State Environmental Planning Policy (Sydney Region Growth Centres) 2006* or

(c) A proposed Precinct Plan that is or has been the subject of community consultation or on public exhibition under the Act.

Not applicable.

3. Complying Development

(1) Whether or not the land is land on which complying development may be carried out under each of the codes for complying development because of the provisions of clauses 1.17A (1) (c) to (e), (2), (3) and (4), 1.18 (1) (c3) and 1.19 of *State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.*

Zone SP2 - Infrastructure		**Lot 2 DP 814518**
Part No	**Code**	**Land on which complying development may be carried out**
Part 3	**Housing Code**	**Not Applicable**
Part 3A	**Rural Housing Code**	**Not Applicable**
Part 3B	**Low Rise Housing Diversity Code**	**Not Applicable**
Part 3C	**Greenfield Housing Code**	**Not Applicable**
Part 3D	**Inland Code**	**Not Applicable**
Part 4	**Housing Alterations Code**	**Not Applicable**
Part 4A	**General Development Code**	**Not Applicable**
Part 5	**Commercial and Industrial Alterations Code**	**Not Applicable**
Part 5A	**Commercial and Industrial (New Buildings and Additions) Code**	**No**
Part 5B	**Container Recycling Facilities Code**	**Not Applicable**
Part 6	**Subdivisions Code**	**Not Applicable**
Part 7	**Demolition Code**	**Not Applicable**
Part 8	**Fire Safety Code**	**Not Applicable**

(2) If complying development may not be carried out on that land because of the provisions of clauses 1.17A (1) (c) to (e), (2), (3) and (4), 1.18 (1) (c3) and 1.19 of that Policy, the reasons why it may not be carried out under these clauses.

Zone SP2 - Infrastructure		**Lot 2 DP 814518**
Part No	**Code**	**Reason**
Part 5A	**Commercial and Industrial (New Buildings and Additions) Code**	**is identified as an item of environmental heritage or a heritage item by an environmental planning instrument.**

4, 4A. Repealed

4B. Annual charges under *Local Government Act 1993* for coastal protection services that relate to existing coastal protection works

In relation to a coastal council—whether the owner (or any previous owner) of the land has consented in writing to the land being subject to annual charges under section 496B of the *Local Government Act 1993* for coastal protection services that relate to existing coastal protection works (within the meaning of section 553B of that Act).

No. The land is not affected because it is not located in a coastal council.

5. Mine subsidence

Whether or not the land is proclaimed to be a mine subsidence district within the meaning of the *Coal Mine Subsidence Compensation Act 2017.*

No. The land is not proclaimed to be a mine subsidence district within the meaning of the *Coal Mine Subsidence Compensation Act 2017.*

6. Road widening and road realignment

(a) Is the land affected by a road widening or road realignment under Division 2 of Part 3 of the *Roads Act 1993*?

Lot 2 DP 814518	**No. The land is not affected by a road widening or road realignment under the *Roads Act 1993.***

(b) Is the land affected by any road widening or road realignment under any environmental planning instrument?

Lot 2 DP 814518	**No. The land is not affected by any road widening or road realignment under any environmental planning instrument.**

(c) Is the land affected by any road widening or road realignment under any resolution of the Council?

Lot 2 DP 814518	**No. The land is not affected by a road widening or road realignment under a resolution of Council.**

7. Council and other public authority policies on hazard risk restrictions

(a) Is the land affected by a policy adopted by council that restricts the development of the land because of the likelihood of land slip, bushfire, tidal inundation, subsidence, acid sulphate soils or any other risk (other than flooding)?

Yes. All land in QPRC is affected by policies adopted by the council that restricts the development of the land because of the likelihood of contaminated land and bushfire.

Lot 2 DP 814518	**The land has not been assessed for the likelihood of contamination by Council considering past uses or results of systematic testing. It is not known if Contaminated Land provisions of the Development Control Plan or the relevant State legislation, apply.**

Note: Refer to Clause 11 of this certificate to check if the land is bushfire prone.

(b) Is the land affected by a policy adopted by any other public authority that restricts the development of the land because of the likelihood of landslip, bushfire, tidal inundation, subsidence, acid sulphate or any other risk?

No. Council is not aware of a policy adopted by any other public authority that restricts the development of the land.

7A. Flood related development controls information

(1) Whether or not development on that land or part of the land for the purposes of dwelling houses, dual occupancies, multi dwelling housing or residential flat buildings (not including development for the purposes of group homes or seniors housing) is subject to flood related development controls.

Lot 2 DP 814518	**No. The land is not subject to flood related development controls.**

(2) Whether or not development on that land or part of the land for any other purpose is subject to flood related development controls.

Lot 2 DP 814518	**No. The land is not subject to flood related development controls.**

8. Land reserved for acquisition

Whether or not any environmental planning instrument or proposed environmental planning instrument referred to in clause 1 makes provision in relation to the acquisition of the land by a public authority, as referred to in section 3.15 of the Act.

Lot 2 DP 814518	**No. Council is not aware of any environmental planning instrument or proposed environmental planning instrument that makes provision for the acquisition of the land by a public authority.**

9. Contributions plans

The name of each Contributions plan applying to the land.

Lot 2 DP 814518	**Palerang Council Section 94 Development Contributions Plan No. 7 for the Provision of Recreation Facilities at Bungendore.**
Lot 2 DP 814518	**Palerang Council Section 94 Development Contributions Plan No. 8 for the Provision of Pathway Network at Bungendore.**
Lot 2 DP 814518	**Palerang Council Section 94 Development Contributions Plan No. 9 for Street Upgrading at Bungendore.**
Lot 2 DP 814518	**Yarrowlumla Council Section 94 Contributions Plan No. 1 Bungendore.**

www.qprc.nsw.gov.au/Building-Development/Planning-Zoning/Planning-controls#section-6

9A. Biodiversity certified land

Whether the land is biodiversity certified land under Part 8 of the *Biodiversity Conservation Act 2016.*

Lot 2 DP 814518	**No. Council has not been notified that the land is biodiversity certified under the *Biodiversity Conservation Act 2016.***

10. Biodiversity stewardship sites

Whether the land is a biodiversity stewardship site under a biodiversity stewardship agreement under Part 5 of the *Biodiversity Conservation Act 2016.*

Lot 2 DP 814518	**No. Council has not been notified that the land is a biodiversity stewardship site under a biodiversity stewardship agreement under the *Biodiversity Conservation Act 2016.***

10A. Native vegetation clearing set asides

Whether the land contains a set aside area under section 60ZC of the *Local Land Services Act 2013*.

Lot 2 DP 814518	**No. Council has not been notified that the land contains a set aside area or it is registered in the public register under the *Local Land Services Act 2013*.**

11. Bush fire prone land

Whether the land is bush fire prone land.

Lot 2 DP 814518	**No. The land is not bush fire prone as defined in Section 10.3 of the *Environmental Planning and Assessment Act 1979*.**

12. Property Vegetation Plans

Whether Council has been notified that a property vegetation plan under the *Native Vegetation Act 2003* applies to the land.

Lot 2 DP 814518	**No. Council has not been notified of a property vegetation plan under the *Native Vegetation Act 2003* that applies to the land.**

13. Orders under *Trees (Disputes Between Neighbours) Act 2006*

Whether Council has been notified whether an order has been made under the *Trees (Disputes Between Neighbours) Act 2006* to carry out work in relation to a tree on the land.

No. Council has not been notified of order made under the *Trees (Disputes Between Neighbours) Act 2006* to carry out work in relation to a tree on the land.

14. Directions under Part 3A

Whether there is a direction by the Minister in force under section 75P (2) (c1) of the Act that a provision of an environmental planning instrument prohibiting or restricting the carrying out of a project or a stage of a project on the land under Part 4 of the Act does not have effect.

No. Council has not been advised of any Directions by the Minister under section 75P (2) (c1) of the Act.

15. Site compatibility certificates and conditions for seniors housing

Whether there is a current site compatibility certificate (seniors housing), of which the council is aware, in respect of proposed development on the land:

No. Council is not aware of any valid site compatibility certificate (seniors housing) applying to the land.

16. Site compatibility certificates for infrastructure, schools or TAFE establishments

Whether there is a valid site compatibility certificate (infrastructure, schools or TAFE establishments), of which council is aware of in respect of proposed development on the land.

No. Council is not aware of any valid site compatibility certificate (infrastructure, schools or TAFE establishments) applying to the land.

17. Site compatibility certificates and conditions for affordable rental housing

Whether there a current site compatibility certificate (affordable rental housing), of which the council is aware, in respect of proposed development on the land.

No. Council is not aware of any valid site compatibility certificate (affordable rental housing) applying to the land.

18. Paper subdivision information

The name of any development plan adopted by a relevant authority that applies to the land or that is proposed to be subject to a consent ballot.

No. Council is not aware of any development plan adopted by a relevant authority or any subdivision Order that applies to a paper subdivision of the land as described in Part 16C of the *Environmental Planning and Assessment Regulation 2000*.

19. Site verification certificate

Whether there is a current site verification certificate in relation to Division 3 of Part 4AA of the *State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007* that Council is aware of.

No. Council is not aware of any site verification certificate applying to the land.

20. Loose-fill asbestos insulation

If the land includes any residential premises (within the meaning of Division 1A of Part 8 of the *Home Building Act 1989*) that are listed on the register that is required to be maintained under that Division.

No. Council is not aware of any residential premises on the land that are affected by loose-fill asbestos insulation (Division 1A of Part 8 of the *Home Building Act 1989*) and that are listed on the NSW register that is required to be maintained under that Division.

NSW Fair Trading maintains a NSW Register of homes that are affected by loose-fill asbestos insulation: www.fairtrading.nsw.gov.au/loose-fill-asbestos-insulation-register.

Some buildings located in the Queanbeyan-Palerang local government area have been identified as containing loose-fill asbestos insulation (sometimes referred to as "Mr Fluffy" insulation), for example, in the roof space. You should make your own enquiries as to the age of the buildings on the land to which this certificate relates. If the land contains a building constructed prior to 1980, Queanbeyan-Palerang Regional Council strongly recommends that any potential purchaser obtains advice from a licensed asbestos assessor to determine whether loose-fill asbestos is present in any building on the land; and, if so, the health risks (if any) this may pose for the building's occupants. Contact NSW Fair Trading for further information: https://www.fairtrading.nsw.gov.au/housing-and-property/loose-fill-asbestos-insulation.

Nothing in this statement relates to information about the presence of bonded asbestos materials such as asbestos cement sheeting that may have been used at this site.

21. Affected building notices and building product rectification orders

(1) Is there any affected building notice of which the council is aware that is in force in respect of the land?

(2) A statement of:

(a) whether there is any building product rectification order of which the council is aware that is in force in respect of the land and has not been fully complied with, and

(b) whether any notice of intention to make a building product rectification order of which the council is aware has been given in respect of the land and is outstanding.

No. Council is not aware of the existence of any affected building notice in force, or building product rectification order, or any notice of intention to make a building product rectification order.

22. State Environmental Planning Policy (Western Sydney Aerotropolis) 2020

For land to which *State Environmental Planning Policy (Western Sydney Aerotropolis) 2020* applies, whether the land is:

(a) in an ANEF or ANEC contour of 20 or greater as referred to in clause 19 of that Policy, or

(b) shown on the *Lighting Intensity and Wind Shear Map* under that Policy, or

(c) shown on the *Obstacle Limitation Surface Map* under that Policy, or

(d) in the "public safety area" on the *Public Safety Area Map* under that Policy, or

(e) in the "3 kilometre wildlife buffer zone" or the "13 kilometre wildlife buffer zone" on the *Wildlife Buffer Zone Map* under that Policy.

Not applicable.

Additional matters prescribed by section 59(2) of the *Contaminated Land Management Act 1997*

(a) Whether there is land to which a certificate relates regarding significantly contaminated land within the meaning of that Act.

Lot 2 DP 814518	**No. Council is not aware that the land is significantly contaminated.**

(b) Whether there is land to which a certificate relates regarding being subject to a management order within the meaning of that Act.

Lot 2 DP 814518	**No. Council is not aware that the land is subject to a management order.**

(c) Whether there is land to which a certificate relates regarding the subject of an approved voluntary management proposal within the meaning of that Act.

Lot 2 DP 814518	**No. Council is not aware that the land is subject to an approved voluntary management order.**

(d) Whether there is land to which a certificate relates regarding being subject to an ongoing maintenance order within the meaning of that Act.

Lot 2 DP 814518	**No. Council is not aware that the land is subject to an ongoing maintenance order.**

(e) Whether there is land to which a certificate relates regarding being the subject of a site audit statement within the meaning of that Act.

Lot 2 DP 814518	**No. Council is not aware that the land is the subject of a site audit statement.**

Additional Notes

Aircraft Noise

The land is not located within the Australian Noise Exposure Forecast (ANEF) contour of 20 or greater for the Canberra Airport. Land within an ANEF contour of less than 20 is generally regarded as being 'acceptable' for new residential dwellings and other land uses under *Australian Standard AS2021:2015 Acoustics- Aircraft noise intrusion- Building siting and construction*. Further advice in respect of potential aircraft noise impacts is available from Canberra Airport at: https://www.canberraairport.com.au/corporate/community/aircraft-noise/

Additional information provided in accordance with section 10.7(5) of the *Environmental Planning and Assessment Act 1979*

Vegetation Clearing

There are restrictions on the clearing of vegetation on the land.
Refer to:
- ***State Environmental Planning Policy (Vegetation in Non-Rural Areas) 2017,***
- ***Biodiversity Conservation Act 2016,***
- ***Local Land Services Act 2013,***
- **relevant Development Control Plan [clause 1(3) of this certificate],**
- **clause 10A of this certificate if a native vegetation set aside area applies,**
- **clause 12 of this certificate if a property vegetation plan applies.**

Loose Fill Asbestos

If the land to which this certificate relates contains a building constructed prior to 1980, the Council strongly recommends that any potential purchaser obtain advice from an appropriately qualified expert as to whether loose fill asbestos is present in any building on the land and, if so, the health risks (if any) this may pose for the building's occupants. Prospective purchasers may also wish to ask the current owner if the property has previously been inspected under the NSW WorkCover ceiling insulation testing program. Further information about loose fill asbestos insulation (including information about the NSW WorkCover ceiling insulation testing scheme) can be found at:
http://www.fairtrading.nsw.gov.au/housing-and-property/loose-fill-asbestos-insulation

Road Access

Lot 2 DP 814518	**The land is served by a public road which is maintained by Council.** **Enquiries related to maintenance schedules can be made to Council at:** **https://www.qprc.nsw.gov.au/Services/Roads-and-footpaths**

Aircraft Noise

The land is not located within the Australian Noise Exposure Forecast (ANEF) contour of 20 or greater for the Canberra Airport. Land within an ANEF contour of less than 20 is generally regarded as being 'acceptable' for new residential dwellings and other land uses under *Australian Standard AS2021:2015 Acoustics- Aircraft noise intrusion- Building siting and construction*. Further advice in respect of potential aircraft noise impacts is available from Canberra Airport at:
https://www.canberraairport.com.au/corporate/community/aircraft-noise/

Development Approvals

Council has no records of development approvals or complying development certificates that have been issued by the previous Council in the previous five years.

ISSUE DETAILS

Certificate No: PL.2021.1605
Checked: ML

M J Thompson
Portfolio General Manager
Natural and Built Character
Queanbeyan-Palerang Regional Council



Per

01 April 2021

QUEANBEYAN-PALERANG REGIONAL COUNCIL
Planning Certificate issued under Section 10.7(2&5)
Environmental Planning and Assessment Act 1979

Certificate No.: PL.2021.1606
Your Reference: 202107.00
Date of Issue: 06 April 2021

Mr S Goodsell
2/73 Sheppard Street
HUME NSW 2620

Property Number	345299
Property Address:	Bungendore Primary School 59-65 Gibraltar Street BUNGENDORE NSW 2621
Legal Description:	Lot 14 Sec 9 DP 758183 Lot 5 Sec 9 DP 758183

This certificate is provided under Section 10.7(2&5) of the Act. At the date of this certificate, the subject land is affected by the following matters.

Notes:

(a) The information in this certificate only relates to the real property identifier associated with the property and not to any licence or permissive occupancy that may be attached to and included in the property details contained in the description of the land.

(b) The *Environmental Planning and Assessment Act 1979* will be referred to in this Certificate as 'the Act'.

Disclaimer:

This certificate contains information provided to Council by third parties and is as current as the latest information available to Council at the time of production of this document. Council does not warrant the accuracy of the information contained within the information provided by third parties and has not independently verified the information. It is strongly recommended that you contact the relevant third parties to confirm the accuracy of the information.

1. Names of relevant instruments and development control plans

(1) The name of each environmental planning instrument that applies to the carrying out of development on the land.

Palerang Local Environmental Plan 2014 **and State Environmental Planning Policies (SEPPs) that may apply to the carrying out of development on the land:**

- *State Environmental Planning Policy No 21 – Caravan Parks*
- *State Environmental Planning Policy No 33 – Hazardous and Offensive Development*
- *State Environmental Planning Policy No 36 – Manufactured Home Estates*
- *State Environmental Planning Policy No 50 – Canal Estate Development*
- *State Environmental Planning Policy No 55 – Remediation of Land*
- *State Environmental Planning Policy No 64 – Advertising and Signage*
- *State Environmental Planning Policy No 65 – Design Quality of Residential Apartment Development*
- *State Environmental Planning Policy No 70 – Affordable Housing (Revised Schemes)*
- *State Environmental Planning Policy (Affordable Rental Housing) 2009*
- *State Environmental Planning Policy (Building Sustainability Index: BASIX) 2004*
- *State Environmental Planning Policy (Concurrences and Consents) 2018*
- *State Environmental Planning Policy (Educational Establishments and Child Care Facilities) 2017*
- *State Environmental Planning Policy (Exempt and Complying Development Codes) 2008*
- *State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004*
- *State Environmental Planning Policy (Infrastructure) 2007*
- *State Environmental Planning Policy (Koala Habitat Protection) 2021*
- *State Environmental Planning Policy (Mining, Petroleum Production & Extractive Industries) 2007*
- *State Environmental Planning Policy (Primary Production and Rural Development) 2019*
- *State Environmental Planning Policy (State and Regional Development) 2011*
- *State Environmental Planning Policy (Vegetation in Non-Rural Areas) 2017*

www.legislation.nsw.gov.au/#/browse/inForce/EPIs/S
www.legislation.nsw.gov.au/#/view/EPI/2014/623/full

(2) The name of each proposed environmental planning instrument that will apply to the carrying out of development on the land and that is or has been the subject of community consultation or on public exhibition under the Act (unless the Director-General has notified the council that the making of the proposed instrument has been deferred indefinitely or has not been approved).

Yes: Draft Queanbeyan-Palerang Local Environmental Plan 2020
http://leptracking.planning.nsw.gov.au/proposaldetails.php?rid=6660

Yes. State Environmental Planning Policies (SEPPs) that have been the subject of community consultation or on public exhibition under the Act that may apply to the carrying out of development on the land:

- Draft State Environmental Planning Policy (Environment)
- Draft State Environmental Planning Policy (Housing Diversity) 2020
- Remediation of Land State Environmental Planning Policy
- State Environmental Planning Policy No 21 — Caravan Parks
- State Environmental Planning Policy No 33 – Hazardous and Offensive Development
- State Environmental Planning Policy No 36 — Manufactured Home Estates
- State Environmental Planning Policy No 55 — Remediation of Land
- State Environmental Planning Policy No 65 – Design Quality of Residential Apartment Development
- State Environmental Planning Policy No 70 — Affordable Housing (Revised Schemes)
- State Environmental Planning Policy (Affordable Rental Housing) 2009
- State Environmental Planning Policy (Building Sustainability Index: BASIX) 2004
- State Environmental Planning Policy (Educational Establishments and Child Care Facilities) 2017
- State Environmental Planning Policy (Exempt and Complying Development Code) 2008
- State Environmental Planning Policy (Infrastructure) 2007
- State Environmental Planning Policy (Mining, Petroleum Production & Extractive Industries) 2007
- State Environmental Planning Policy (Primary Production and Rural Development) 2019
- State Environmental Planning Policy (State and Regional Development) 2011

www.planningportal.nsw.gov.au/draftplans

(3) The name of each development control plan that applies to the carrying out of development on the land:

Lot 14 Sec 9 DP 758183 **Palerang Development Control Plan 2015**
Lot 5 Sec 9 DP 758183 **Palerang Development Control Plan 2015**
www.qprc.nsw.gov.au/Building-Development/Planning-Zoning/Planning-controls#section-3

2. Zoning and land use under relevant LEPs

(a) Identity of the zone:

Lot 14 Sec 9 DP 758183 **R2 Low Density Residential**
Lot 5 Sec 9 DP 758183 **R2 Low Density Residential**

R2 Low Density Residential - *Palerang Local Environmental Plan 2014*

(b) The purposes for which development may be carried out without development consent:
Home businesses; Home occupations.

(c) The purposes for which development may not be carried out except with development consent:
Backpackers' accommodation; Bed and breakfast accommodation; Boarding houses; Building identification signs; Business identification signs; Centre-based child care facilities; Community facilities; Dual occupancies; Dwelling houses; Environmental facilities; Environmental protection works; Exhibition homes; Exhibition villages; Flood mitigation works; Group homes; Health consulting rooms; Home-based child care; Home industries; Neighbourhood shops; Oyster aquaculture; Pond-based aquaculture; Recreation areas; Recreation facilities (indoor); Recreation facilities (outdoor); Respite day care centres; Roads; Secondary dwellings; Semi-detached dwellings; Seniors housing; Sewage treatment plants; Shop top housing; Tank-based aquaculture; Water supply systems.

(d) The purposes for which development is prohibited:
Water treatment facilities; any other development not specified in item (b) or (c).

Note: Demolition of a building or work requires consent under clause 2.7 of the applicable Local Environmental Plan.

Listed below are any additional site specific permitted uses (only with development consent) from the schedule of the relevant Local Environmental Plan cited in clause 1(1) of this certificate. Note that for multi lot titles, the additional uses may apply only to particular lots.

Lot 14 Sec 9 DP 758183 **There are no additional uses permitted on this land.**
Lot 5 Sec 9 DP 758183 **There are no additional uses permitted on this land.**

(e) Minimum land dimensions for the erection of a dwelling house on the land fixed by development standards applying to the land:

(1) Minimum area

Lot 14 Sec 9 DP 758183 **Minimum Lot Size 850 square metres**
Lot 5 Sec 9 DP 758183 **Minimum Lot Size 850 square metres**

unless the land is:

(2) a lot created in accordance with clause 4.1, 4.1AA, 4.1A or 4.1B of the *Palerang Local Environmental Plan 2014, or*

(3) a lot created before the commencement of the *Palerang Local Environmental Plan 2014* and on which the erection of a dwelling house was permissible immediately before that commencement, or

(4) a lot resulting from a subdivision for which development consent (or equivalent) was granted before the commencement of the *Palerang Local Environmental Plan 2014* and on which the erection of a dwelling house would have been permissible if the plan of subdivision had been registered before that commencement, or

(5) an existing holding as defined in the *Palerang Local Environmental Plan 2014.*

(f) Whether the land includes or comprises critical habitat:

Lot 14 Sec 9 DP 758183	**No. None of the land includes or comprises critical habitat.**
Lot 5 Sec 9 DP 758183	**No. None of the land includes or comprises critical habitat.**

(g) Whether the land is in a conservation area:

Lot 14 Sec 9 DP 758183	**No. The land is not in a Heritage Conservation Area or a State Conservation Area.**
Lot 5 Sec 9 DP 758183	**No. The land is not in a Heritage Conservation Area or a State Conservation Area.**

(h) Whether an item of environmental heritage is situated on the land:

Lot 14 Sec 9 DP 758183	**No. Council is not aware of any items of state environmental heritage or local environmental heritage that are located on the land.**
Lot 5 Sec 9 DP 758183	**No. Council is not aware of any items of state environmental heritage or local environmental heritage that are located on the land.**

2A. Zoning and land use under *State Environmental Planning Policy (Sydney Region Growth Centres) 2006*

Whether the land is within any zone under:

(a) Part 3 of the *State Environmental Planning Policy (Sydney Region Growth Centres) 2006* or

(b) A Precinct Plan (within the means of the *State Environmental Planning Policy (Sydney Region Growth Centres) 2006* or

(c) A proposed Precinct Plan that is or has been the subject of community consultation or on public exhibition under the Act.

Not applicable.

3. Complying Development

(1) Whether or not the land is land on which complying development may be carried out under each of the codes for complying development because of the provisions of clauses 1.17A (1) (c) to (e), (2), (3) and (4), 1.18 (1) (c3) and 1.19 of *State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.*

(2) If complying development may not be carried out on that land because of the provisions of clauses 1.17A (1) (c) to (e), (2), (3) and (4), 1.18 (1) (c3) and 1.19 of that Policy, the reasons why it may not be carried out under these clauses.

Zone - R2 Low Density Residential		**Lot 14 Sec 9 DP 758183 Lot 5 Sec 9 DP 758183**
Part No.	**Code**	**Land on which complying development may be carried out**
Part 3	**Housing Code**	**Not Applicable**
Part 3A	**Rural Housing Code**	**Not Applicable**
Part 3B	**Low Rise Housing Diversity Code**	**Yes (see note 1)**
Part 3C	**Greenfield Housing Code**	**Not Applicable**
Part 3D	**Inland Code**	**Yes**
Part 4	**Housing Alterations Code**	**Yes**
Part 4A	**General Development Code**	**Yes**
Part 5	**Commercial and Industrial Alterations Code**	**Yes**
Part 5A	**Commercial and Industrial (New Buildings and Additions) Code**	**Not Applicable**
Part 5B	**Container Recycling Facilities Code**	**Not Applicable**
Part 6	**Subdivisions Code**	**Yes**
Part 7	**Demolition Code**	**Yes**
Part 8	**Fire Safety Code**	**Yes**

Note 1: Only dual occupancies are permissible with consent in R2 Low Density Residential under the *Palerang Local Environmental Plan 2014.*

4, 4A. Repealed

4B. Annual charges under *Local Government Act 1993* for coastal protection services that relate to existing coastal protection works

In relation to a coastal council—whether the owner (or any previous owner) of the land has consented in writing to the land being subject to annual charges under section 496B of the *Local Government Act 1993* for coastal protection services that relate to existing coastal protection works (within the meaning of section 553B of that Act).

No. The land is not affected because it is not located in a coastal council.

5. Mine subsidence

Whether or not the land is proclaimed to be a mine subsidence district within the meaning of the *Coal Mine Subsidence Compensation Act 2017.*

No. The land is not proclaimed to be a mine subsidence district within the meaning of the *Coal Mine Subsidence Compensation Act 2017.*

6. Road widening and road realignment

(a) Is the land affected by a road widening or road realignment under Division 2 of Part 3 of the *Roads Act 1993*?

Lot 14 Sec 9 DP 758183	**No. The land is not affected by a road widening or road realignment under the *Roads Act 1993*.**
Lot 5 Sec 9 DP 758183	**No. The land is not affected by a road widening or road realignment under the *Roads Act 1993.***

(b) Is the land affected by any road widening or road realignment under any environmental planning instrument?

Lot 14 Sec 9 DP 758183	**No. The land is not affected by any road widening or road realignment under any environmental planning instrument.**
Lot 5 Sec 9 DP 758183	**No. The land is not affected by any road widening or road realignment under any environmental planning instrument.**

(c) Is the land affected by any road widening or road realignment under any resolution of the Council?

Lot 14 Sec 9 DP 758183	**No. The land is not affected by a road widening or road realignment under a resolution of Council.**
Lot 5 Sec 9 DP 758183	**No. The land is not affected by a road widening or road realignment under a resolution of Council.**

7. Council and other public authority policies on hazard risk restrictions

(a) Is the land affected by a policy adopted by council that restricts the development of the land because of the likelihood of land slip, bushfire, tidal inundation, subsidence, acid sulphate soils or any other risk (other than flooding)?

Yes. All land in QPRC is affected by policies adopted by the council that restricts the development of the land because of the likelihood of contaminated land and bushfire.

Lot 14 Sec 9 DP 758183	**The land has not been assessed for the likelihood of contamination by Council considering past uses or results of systematic testing. It is not known if Contaminated Land provisions of the Development Control Plan or the relevant State legislation, apply.**
Lot 5 Sec 9 DP 758183	**The land has not been assessed for the likelihood of contamination by Council considering past uses or results of systematic testing. It is not known if Contaminated Land provisions of the Development Control Plan or the relevant State legislation, apply.**

Note: Refer to Clause 11 of this certificate to check if the land is bushfire prone.

(b) Is the land affected by a policy adopted by any other public authority that restricts the development of the land because of the likelihood of landslip, bushfire, tidal inundation, subsidence, acid sulphate or any other risk?

No. Council is not aware of a policy adopted by any other public authority that restricts the development of the land.

7A. Flood related development controls information

(1) Whether or not development on that land or part of the land for the purposes of dwelling houses, dual occupancies, multi dwelling housing or residential flat buildings (not including development for the purposes of group homes or seniors housing) is subject to flood related development controls.

Lot 14 Sec 9 DP 758183	**No. The land is not subject to flood related development controls.**
Lot 5 Sec 9 DP 758183	**No. The land is not subject to flood related development controls.**

(2) Whether or not development on that land or part of the land for any other purpose is subject to flood related development controls.

Lot 14 Sec 9 DP 758183	**No. The land is not subject to flood related development controls.**
Lot 5 Sec 9 DP 758183	**No. The land is not subject to flood related development controls.**

8. Land reserved for acquisition

Whether or not any environmental planning instrument or proposed environmental planning instrument referred to in clause 1 makes provision in relation to the acquisition of the land by a public authority, as referred to in section 3.15 of the Act.

Lot 14 Sec 9 DP 758183	**No. Council is not aware of any environmental planning instrument or proposed environmental planning instrument that makes provision for the acquisition of the land by a public authority.**
Lot 5 Sec 9 DP 758183	**No. Council is not aware of any environmental planning instrument or proposed environmental planning instrument that makes provision for the acquisition of the land by a public authority.**

9. Contributions plans

The name of each Contributions plan applying to the land.

Lot 14 Sec 9 DP 758183	**Yarrowlumla Council Section 94 Contributions Plan No. 1 Bungendore.**
Lot 14 Sec 9 DP 758183	**Palerang Council Section 94 Development Contributions Plan No. 7 for the Provision of Recreation Facilities at Bungendore.**
Lot 14 Sec 9 DP 758183	**Palerang Council Section 94 Development Contributions Plan No. 8 for the Provision of Pathway Network at Bungendore.**
Lot 14 Sec 9 DP 758183	**Palerang Council Section 94 Development Contributions Plan No. 9 for Street Upgrading at Bungendore.**
Lot 5 Sec 9 DP 758183	**Palerang Council Section 94 Development Contributions Plan No. 7 for the Provision of Recreation Facilities at Bungendore.**
Lot 5 Sec 9 DP 758183	**Palerang Council Section 94 Development Contributions Plan No. 8 for the Provision of Pathway Network at Bungendore.**
Lot 5 Sec 9 DP 758183	**Palerang Council Section 94 Development Contributions Plan No. 9 for Street Upgrading at Bungendore.**
Lot 5 Sec 9 DP 758183	**Yarrowlumla Council Section 94 Contributions Plan No. 1 Bungendore.**

www.qprc.nsw.gov.au/Building-Development/Planning-Zoning/Planning-controls#section-6

9A. Biodiversity certified land

Whether the land is biodiversity certified land under Part 8 of the *Biodiversity Conservation Act 2016.*

Lot 14 Sec 9 DP 758183	**No. Council has not been notified that the land is biodiversity certified under the *Biodiversity Conservation Act 2016.***
Lot 5 Sec 9 DP 758183	**No. Council has not been notified that the land is biodiversity certified under the *Biodiversity Conservation Act 2016.***

10. Biodiversity stewardship sites

Whether the land is a biodiversity stewardship site under a biodiversity stewardship agreement under Part 5 of the *Biodiversity Conservation Act 2016.*

Lot 14 Sec 9 DP 758183	**No. Council has not been notified that the land is a biodiversity stewardship site under a biodiversity stewardship agreement under the *Biodiversity Conservation Act 2016.***
Lot 5 Sec 9 DP 758183	**No. Council has not been notified that the land is a biodiversity stewardship site under a biodiversity stewardship agreement under the *Biodiversity Conservation Act 2016.***

10A. Native vegetation clearing set asides

Whether the land contains a set aside area under section 60ZC of the *Local Land Services Act 2013*.

Lot 14 Sec 9 DP 758183	**No. Council has not been notified that the land contains a set aside area or it is registered in the public register under the *Local Land Services Act 2013*.**
Lot 5 Sec 9 DP 758183	**No. Council has not been notified that the land contains a set aside area or it is registered in the public register under the *Local Land Services Act 2013*.**

11. Bush fire prone land

Whether the land is bush fire prone land.

Lot 14 Sec 9 DP 758183	**No. The land is not bush fire prone as defined in Section 10.3 of the *Environmental Planning and Assessment Act 1979*.**
Lot 5 Sec 9 DP 758183	**No. The land is not bush fire prone as defined in Section 10.3 of the *Environmental Planning and Assessment Act 1979.***

12. Property Vegetation Plans

Whether Council has been notified that a property vegetation plan under the *Native Vegetation Act 2003* applies to the land.

Lot 14 Sec 9 DP 758183	**No. Council has not been notified of a property vegetation plan under the *Native Vegetation Act 2003* that applies to the land.**
Lot 5 Sec 9 DP 758183	**No. Council has not been notified of a property vegetation plan under the *Native Vegetation Act 2003* that applies to the land.**

13. Orders under *Trees (Disputes Between Neighbours) Act 2006*

Whether Council has been notified whether an order has been made under the *Trees (Disputes Between Neighbours) Act 2006* to carry out work in relation to a tree on the land.

No. Council has not been notified of order made under the *Trees (Disputes Between Neighbours) Act 2006* to carry out work in relation to a tree on the land.

14. Directions under Part 3A

Whether there is a direction by the Minister in force under section 75P (2) (c1) of the Act that a provision of an environmental planning instrument prohibiting or restricting the carrying out of a project or a stage of a project on the land under Part 4 of the Act does not have effect.

No. Council has not been advised of any Directions by the Minister under section 75P (2) (c1) of the Act.

15. Site compatibility certificates and conditions for seniors housing

Whether there is a current site compatibility certificate (seniors housing), of which the council is aware, in respect of proposed development on the land:

No. Council is not aware of any valid site compatibility certificate (seniors housing) applying to the land.

16. Site compatibility certificates for infrastructure, schools or TAFE establishments

Whether there is a valid site compatibility certificate (infrastructure, schools or TAFE establishments), of which council is aware of in respect of proposed development on the land.

No. Council is not aware of any valid site compatibility certificate (infrastructure, schools or TAFE establishments) applying to the land.

17. Site compatibility certificates and conditions for affordable rental housing

Whether there a current site compatibility certificate (affordable rental housing), of which the council is aware, in respect of proposed development on the land.

No. Council is not aware of any valid site compatibility certificate (affordable rental housing) applying to the land.

18. Paper subdivision information

The name of any development plan adopted by a relevant authority that applies to the land or that is proposed to be subject to a consent ballot.

No. Council is not aware of any development plan adopted by a relevant authority or any subdivision Order that applies to a paper subdivision of the land as described in Part 16C of the *Environmental Planning and Assessment Regulation 2000*.

19. Site verification certificate

Whether there is a current site verification certificate in relation to Division 3 of Part 4AA of the *State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007* that Council is aware of.

No. Council is not aware of any site verification certificate applying to the land.

20. Loose-fill asbestos insulation

If the land includes any residential premises (within the meaning of Division 1A of Part 8 of the *Home Building Act 1989*) that are listed on the register that is required to be maintained under that Division.

No. Council is not aware of any residential premises on the land that are affected by loose-fill asbestos insulation (Division 1A of Part 8 of the *Home Building Act 1989*) and that are listed on the NSW register that is required to be maintained under that Division.

NSW Fair Trading maintains a NSW Register of homes that are affected by loose-fill asbestos insulation: www.fairtrading.nsw.gov.au/loose-fill-asbestos-insulation-register.

Some buildings located in the Queanbeyan-Palerang local government area have been identified as containing loose-fill asbestos insulation (sometimes referred to as "Mr Fluffy" insulation), for example, in the roof space. You should make your own enquiries as to the age of the buildings on the land to which this certificate relates. If the land contains a building constructed prior to 1980, Queanbeyan-Palerang Regional Council strongly recommends that any potential purchaser obtains advice from a licensed asbestos assessor to determine whether loose-fill asbestos is present in any building on the land; and, if so, the health risks (if any) this may pose for the building's occupants. Contact NSW Fair Trading for further information: https://www.fairtrading.nsw.gov.au/housing-and-property/loose-fill-asbestos-insulation.

Nothing in this statement relates to information about the presence of bonded asbestos materials such as asbestos cement sheeting that may have been used at this site.

21. Affected building notices and building product rectification orders

(1) Is there any affected building notice of which the council is aware that is in force in respect of the land?

(2) A statement of:

(a) whether there is any building product rectification order of which the council is aware that is in force in respect of the land and has not been fully complied with, and

(b) whether any notice of intention to make a building product rectification order of which the council is aware has been given in respect of the land and is outstanding.

No. Council is not aware of the existence of any affected building notice in force, or building product rectification order, or any notice of intention to make a building product rectification order.

22. State Environmental Planning Policy (Western Sydney Aerotropolis) 2020

For land to which *State Environmental Planning Policy (Western Sydney Aerotropolis) 2020* applies, whether the land is:

(a) in an ANEF or ANEC contour of 20 or greater as referred to in clause 19 of that Policy, or

(b) shown on the *Lighting Intensity and Wind Shear Map* under that Policy, or

(c) shown on the *Obstacle Limitation Surface Map* under that Policy, or

(d) in the "public safety area" on the *Public Safety Area Map* under that Policy, or

(e) in the "3 kilometre wildlife buffer zone" or the "13 kilometre wildlife buffer zone" on the *Wildlife Buffer Zone Map* under that Policy.

Not applicable.

Additional matters prescribed by section 59(2) of the *Contaminated Land Management Act 1997*

(a) Whether there is land to which a certificate relates regarding significantly contaminated land within the meaning of that Act.

Lot 14 Sec 9 DP 758183	**No. Council is not aware that the land is significantly contaminated.**
Lot 5 Sec 9 DP 758183	**No. Council is not aware that the land is significantly contaminated.**

(b) Whether there is land to which a certificate relates regarding being subject to a management order within the meaning of that Act.

Lot 14 Sec 9 DP 758183	**No. Council is not aware that the land is subject to a management order.**
Lot 5 Sec 9 DP 758183	**No. Council is not aware that the land is subject to a management order.**

(c) Whether there is land to which a certificate relates regarding the subject of an approved voluntary management proposal within the meaning of that Act.

Lot 14 Sec 9 DP 758183	**No. Council is not aware that the land is subject to an approved voluntary management order.**
Lot 5 Sec 9 DP 758183	**No. Council is not aware that the land is subject to an approved voluntary management order.**

(d) Whether there is land to which a certificate relates regarding being subject to an ongoing maintenance order within the meaning of that Act.

Lot 14 Sec 9 DP 758183	**No. Council is not aware that the land is subject to an ongoing maintenance order.**
Lot 5 Sec 9 DP 758183	**No. Council is not aware that the land is subject to an ongoing maintenance order.**

(e) Whether there is land to which a certificate relates regarding being the subject of a site audit statement within the meaning of that Act.

Lot 14 Sec 9 DP 758183	**No. Council is not aware that the land is the subject of a site audit statement.**
Lot 5 Sec 9 DP 758183	**No. Council is not aware that the land is the subject of a site audit statement.**

Additional Notes

Aircraft Noise

The land is not located within the Australian Noise Exposure Forecast (ANEF) contour of 20 or greater for the Canberra Airport. Land within an ANEF contour of less than 20 is generally regarded as being 'acceptable' for new residential dwellings and other land uses under *Australian Standard AS2021:2015 Acoustics- Aircraft noise intrusion- Building siting and construction*. Further advice in respect of potential aircraft noise impacts is available from Canberra Airport at: https://www.canberraairport.com.au/corporate/community/aircraft-noise/

Additional information provided in accordance with section 10.7(5) of the *Environmental Planning and Assessment Act 1979*

Vegetation Clearing

There are restrictions on the clearing of vegetation on the land.
Refer to:
- ***State Environmental Planning Policy (Vegetation in Non-Rural Areas) 2017,***
- ***Biodiversity Conservation Act 2016,***
- ***Local Land Services Act 2013,***
- **relevant Development Control Plan [clause 1(3) of this certificate],**
- **clause 10A of this certificate if a native vegetation set aside area applies,**
- **clause 12 of this certificate if a property vegetation plan applies.**

Loose Fill Asbestos

If the land to which this certificate relates contains a building constructed prior to 1980, the Council strongly recommends that any potential purchaser obtain advice from an appropriately qualified expert as to whether loose fill asbestos is present in any building on the land and, if so, the health risks (if any) this may pose for the building's occupants. Prospective purchasers may also wish to ask the current owner if the property has previously been inspected under the NSW WorkCover ceiling insulation testing program. Further information about loose fill asbestos insulation (including information about the NSW WorkCover ceiling insulation testing scheme) can be found at:
http://www.fairtrading.nsw.gov.au/housing-and-property/loose-fill-asbestos-insulation

Road Access

Lot 14 Sec 9 DP 758183	**The land is served by a public road which is maintained by Council.** **Enquiries related to maintenance schedules can be made to Council at:** **https://www.qprc.nsw.gov.au/Services/Roads-and-footpaths**
Lot 5 Sec 9 DP 758183	**The land is served by a public road which is maintained by Council.** **Enquiries related to maintenance schedules can be made to Council at:** **https://www.qprc.nsw.gov.au/Services/Roads-and-footpaths**

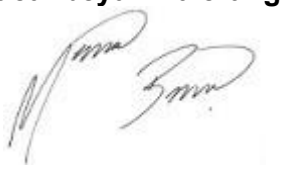
Development Approvals

Council has no records of development approvals or complying development certificates that have been issued by the previous Council in the previous five years.

ISSUE DETAILS

Certificate No: PL.2021.1606
Checked: ML

M J Thompson
Portfolio General Manager
Natural and Built Character
Queanbeyan-Palerang Regional Council



Per……

06 April 2021

QUEANBEYAN-PALERANG REGIONAL COUNCIL
Planning Certificate issued under Section 10.7(2&5)
Environmental Planning and Assessment Act 1979

Certificate No.: PL.2021.2419
Your Reference: 202107.03
Date of Issue: 02 August 2021

Douglas Partners Pty Ltd
2/73 Sheppard Street
HUME ACT 2609

elliott.luck@douglaspartners.com.au

Property Number	351480
Property Address:	The Common 18 Turallo Terrace BUNGENDORE NSW 2621
Legal Description:	Lot 701 DP 96240

This certificate is provided under Section 10.7(2&5) of the Act. At the date of this certificate, the subject land is affected by the following matters.

Notes:

(a) The information in this certificate only relates to the real property identifier associated with the property and not to any licence or permissive occupancy that may be attached to and included in the property details contained in the description of the land.

(b) The *Environmental Planning and Assessment Act 1979* will be referred to in this Certificate as 'the Act'.

Disclaimer:

This certificate contains information provided to Council by third parties and is as current as the latest information available to Council at the time of production of this document. Council does not warrant the accuracy of the information contained within the information provided by third parties and has not independently verified the information. It is strongly recommended that you contact the relevant third parties to confirm the accuracy of the information.

1. Names of relevant instruments and development control plans

(1) The name of each environmental planning instrument that applies to the carrying out of development on the land.

Palerang Local Environmental Plan 2014 **and State Environmental Planning Policies (SEPPs) that may apply to the carrying out of development on the land:**

- *State Environmental Planning Policy No 21 – Caravan Parks*
- *State Environmental Planning Policy No 33 – Hazardous and Offensive Development*
- *State Environmental Planning Policy No 36 – Manufactured Home Estates*
- *State Environmental Planning Policy No 50 – Canal Estate Development*
- *State Environmental Planning Policy No 55 – Remediation of Land*
- *State Environmental Planning Policy No 64 – Advertising and Signage*
- *State Environmental Planning Policy No 65 – Design Quality of Residential Apartment Development*
- *State Environmental Planning Policy No 70 – Affordable Housing (Revised Schemes)*
- *State Environmental Planning Policy (Affordable Rental Housing) 2009*
- *State Environmental Planning Policy (Building Sustainability Index: BASIX) 2004*
- *State Environmental Planning Policy (Concurrences and Consents) 2018*
- *State Environmental Planning Policy (Educational Establishments and Child Care Facilities) 2017*
- *State Environmental Planning Policy (Exempt and Complying Development Codes) 2008*
- *State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004*
- *State Environmental Planning Policy (Infrastructure) 2007*
- *State Environmental Planning Policy (Koala Habitat Protection) 2021*
- *State Environmental Planning Policy (Mining, Petroleum Production & Extractive Industries) 2007*
- *State Environmental Planning Policy (Primary Production and Rural Development) 2019*
- *State Environmental Planning Policy (State and Regional Development) 2011*
- *State Environmental Planning Policy (Vegetation in Non-Rural Areas) 2017*

www.legislation.nsw.gov.au/#/browse/inForce/EPIs/S
www.legislation.nsw.gov.au/#/view/EPI/2014/623/full

(2) The name of each proposed environmental planning instrument that will apply to the carrying out of development on the land and that is or has been the subject of community consultation or on public exhibition under the Act (unless the Planning Secretary has notified the council that the making of the proposed instrument has been deferred indefinitely or has not been approved).

Yes: Draft Queanbeyan-Palerang Local Environmental Plan 2020
www.planningportal.nsw.gov.au/ppr/finalisation/queanbeyan-palerang-regional-council-comprehensive-lep

Yes. State Environmental Planning Policies (SEPPs) that have been the subject of community consultation or on public exhibition under the Act that may apply to the carrying out of development on the land:

- Draft State Environmental Planning Policy (Environment)
- Draft State Environmental Planning Policy (Housing Diversity) 2020
- Remediation of Land State Environmental Planning Policy
- State Environmental Planning Policy No 21 — Caravan Parks
- State Environmental Planning Policy No 33 – Hazardous and Offensive Development
- State Environmental Planning Policy No 36 — Manufactured Home Estates
- State Environmental Planning Policy No 55 — Remediation of Land
- State Environmental Planning Policy No 65 – Design Quality of Residential Apartment Development
- State Environmental Planning Policy No 70 — Affordable Housing (Revised Schemes)
- State Environmental Planning Policy (Affordable Rental Housing) 2009
- State Environmental Planning Policy (Building Sustainability Index: BASIX) 2004
- State Environmental Planning Policy (Educational Establishments and Child Care Facilities) 2017
- State Environmental Planning Policy (Exempt and Complying Development Code) 2008
- State Environmental Planning Policy (Infrastructure) 2007
- State Environmental Planning Policy (Mining, Petroleum Production & Extractive Industries) 2007
- State Environmental Planning Policy (Primary Production and Rural Development) 2019
- State Environmental Planning Policy (State and Regional Development) 2011

www.planningportal.nsw.gov.au/draftplans

(3) The name of each development control plan that applies to the carrying out of development on the land:

Lot 701 DP 96240 **Palerang Development Control Plan 2015**

www.qprc.nsw.gov.au/Building-Development/Planning-Zoning/Planning-controls#section-3

2. Zoning and land use under relevant LEPs

(a) Identity of the zone:

Lot 701 DP 96240 **RE1 Public Recreation**

RE1 Public Recreation - *Palerang Local Environmental Plan 2014*

(b) The purposes for which development may be carried out without development consent:

Extensive agriculture

(c) The purposes for which development may not be carried out except with development consent:

Aquaculture; Building identification signs; Business identification signs; Caravan parks; Community facilities; Entertainment facilities; Environmental facilities; Environmental protection works; Flood mitigation works; Information and education facilities; Kiosks; Markets; Recreation areas; Recreation facilities (indoor); Recreation facilities (major); Recreation facilities (outdoor); Roads; Waste or resource transfer stations; Water recycling facilities

(d) The purposes for which development is prohibited:

Any development not specified in item (b) or (c)

Note: Demolition of a building or work requires consent under clause 2.7 of the applicable Local Environmental Plan.

Listed below are any additional site specific permitted uses (only with development consent) from the schedule of the relevant Local Environmental Plan cited in clause 1(1) of this certificate. Note that for multi lot titles, the additional uses may apply only to particular lots.

Lot 701 DP 96240 **There are no additional uses permitted on this land.**

(e) Minimum land dimensions for the erection of a dwelling house on the land fixed by development standards applying to the land:

(1) Minimum area

Lot 701 DP 96240 **Not applicable. A new dwelling is prohibited on the land.**

Unless the land is within a zone where a dwelling house is not permitted. Refer to clause 2(d).

(f) Whether the land includes or comprises critical habitat:

Lot 701 DP 96240	**No. None of the land includes or comprises critical habitat.**

(g) Whether the land is in a conservation area:

Lot 701 DP 96240	**No. The land is not in a Heritage Conservation Area or a State Conservation Area.**

(h) Whether an item of environmental heritage is situated on the land:

Lot 701 DP 96240	**Yes. Council is aware of items of state environmental heritage or local environmental heritage that are located on the land.**

2A. Zoning and land use under *State Environmental Planning Policy (Sydney Region Growth Centres) 2006*

Whether the land is within any zone under:

(a) Part 3 of the *State Environmental Planning Policy (Sydney Region Growth Centres) 2006* or

(b) A Precinct Plan (within the means of the *State Environmental Planning Policy (Sydney Region Growth Centres) 2006* or

(c) A proposed Precinct Plan that is or has been the subject of community consultation or on public exhibition under the Act.

Not applicable.

3. Complying Development

(1) Whether or not the land is land on which complying development may be carried out under each of the codes for complying development because of the provisions of clauses 1.17A (1) (c) to (e), (2), (3) and (4), 1.18 (1) (c3) and 1.19 of *State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.*

Zone RE1 - Public Recreation		**Lot 701 DP 96240**
Part No.	**Code**	**Land on which complying development may be carried out**
Part 3	**Housing Code**	**Not Applicable**
Part 3A	**Rural Housing Code**	**Not Applicable**
Part 3B	**Low Rise Housing Diversity Code**	**Not Applicable**
Part 3C	**Greenfield Housing Code**	**Not Applicable**
Part 3D	**Inland Code**	**Not Applicable**
Part 4	**Housing Alterations Code**	**No**
Part 4A	**General Development Code**	**No**
Part 5	**Commercial and Industrial Alterations Code**	**No**
Part 5A	**Commercial and Industrial (New Buildings and Additions) Code**	**Not Applicable**
Part 5B	**Container Recycling Facilities Code**	**Not Applicable**
Part 6	**Subdivisions Code**	**No**
Part 7	**Demolition Code**	**No**
Part 8	**Fire Safety Code**	**No**

(2) If complying development may not be carried out on that land because of the provisions of clauses 1.17A (1) (c) to (e), (2), (3) and (4), 1.18 (1) (c3) and 1.19 of that Policy, the reasons why it may not be carried out under these clauses.

Zone RE1 - Public Recreation		**Lot 701 DP 96240**
Part No.	**Code**	**Reason**
Part 4	**Housing Alterations Code**	**Is identified as an item of environmental heritage or a heritage item by an environmental planning instrument.**
Part 4	**Housing Alterations Code**	**Part of the land is identified by an environmental planning instrument as being environmentally sensitive land for exempt and complying development - *Palerang Local Environmental Plan 2014* 3.3 (2)(jb).**
Part 4	**Housing Alterations Code**	**Part of the land is identified by an environmental planning instrument as being environmentally sensitive land for exempt and complying development - Palerang Local Environmental Plan 2014 3.3 (2)(jc).**
Part 4A	**General Development Code**	**Is identified as an item of environmental heritage or a heritage item by an environmental planning instrument.**
Part 4A	**General Development Code**	**Part of the land is identified by an environmental planning instrument as being environmentally sensitive land for exempt and complying development - *Palerang Local Environmental Plan 2014* 3.3 (2)(jb).**

Part 4A	**General Development Code**	**Part of the land is identified by an environmental planning instrument as being environmentally sensitive land for exempt and complying development - Palerang Local Environmental Plan 2014 3.3 (2)(jc).**
Part 5	**Commercial and Industrial Alterations Code**	**Is identified as an item of environmental heritage or a heritage item by an environmental planning instrument.**
Part 5	**Commercial and Industrial Alterations Code**	**Part of the land is identified by an environmental planning instrument as being environmentally sensitive land for exempt and complying development - *Palerang Local Environmental Plan 2014* 3.3 (2)(jb).**
Part 5	**Commercial and Industrial Alterations Code**	**Part of the land is identified by an environmental planning instrument as being environmentally sensitive land for exempt and complying development - Palerang Local Environmental Plan 2014 3.3 (2)(jc).**
Part 6	**Subdivisions Code**	**Is identified as an item of environmental heritage or a heritage item by an environmental planning instrument.**
Part 6	**Subdivisions Code**	**Part of the land is identified by an environmental planning instrument as being environmentally sensitive land for exempt and complying development - *Palerang Local Environmental Plan 2014* 3.3 (2)(jb).**
Part 6	**Subdivisions Code**	**Part of the land is identified by an environmental planning instrument as being environmentally sensitive land for exempt and complying development - Palerang Local Environmental Plan 2014 3.3 (2)(jc).**
Part 7	**Demolition Code**	**Is identified as an item of environmental heritage or a heritage item by an environmental planning instrument.**
Part 7	**Demolition Code**	**Part of the land is identified by an environmental planning instrument as being environmentally sensitive land for exempt and complying development – *Palerang Local Environmental Plan 2014* 3.3 (2)(jb).**
Part 7	**Demolition Code**	**Part of the land is identified by an environmental planning instrument as being environmentally sensitive land for exempt and complying development - Palerang Local Environmental Plan 2014 3.3 (2)(jc).**
Part 8	**Fire Safety Code**	**Is identified as an item of environmental heritage or a heritage item by an environmental planning instrument.**
Part 8	**Fire Safety Code**	**Part of the land is identified by an environmental planning instrument as being environmentally sensitive land for exempt and complying development - *Palerang Local Environmental Plan 2014* 3.3 (2)(jb).**
Part 8	**Fire Safety Code**	**Part of the land is identified by an environmental planning instrument as being environmentally sensitive land for exempt and complying development - Palerang Local Environmental Plan 2014 3.3 (2)(jc).**

4, 4A. Repealed

4B. Annual charges under *Local Government Act 1993* for coastal protection services that relate to existing coastal protection works

In relation to a coastal council—whether the owner (or any previous owner) of the land has consented in writing to the land being subject to annual charges under section 496B of the *Local Government Act 1993* for coastal protection services that relate to existing coastal protection works (within the meaning of section 553B of that Act).

No. The land is not affected because it is not located in a coastal council.

5. Mine subsidence

Whether or not the land is proclaimed to be a mine subsidence district within the meaning of the *Coal Mine Subsidence Compensation Act 2017.*

No. The land is not proclaimed to be a mine subsidence district within the meaning of the *Coal Mine Subsidence Compensation Act 2017.*

6. Road widening and road realignment

(a) Is the land affected by a road widening or road realignment under Division 2 of Part 3 of the *Roads Act 1993*?

Lot 701 DP 96240	**No. The land is not affected by a road widening or road realignment under the Roads Act 1993.**

(b) Is the land affected by any road widening or road realignment under any environmental planning instrument?

Lot 701 DP 96240	**No. The land is not affected by any road widening or road realignment under any environmental planning instrument.**

(c) Is the land affected by any road widening or road realignment under any resolution of the Council?

Lot 701 DP 96240	**No. The land is not affected by a road widening or road realignment under a resolution of Council.**

7. Council and other public authority policies on hazard risk restrictions

(a) Is the land affected by a policy adopted by council that restricts the development of the land because of the likelihood of land slip, bushfire, tidal inundation, subsidence, acid sulphate soils or any other risk (other than flooding)?

Yes. All land in QPRC is affected by policies adopted by the council that restricts the development of the land because of the likelihood of contaminated land and bushfire.

Lot 701 DP 96240	**The land has not been assessed for the likelihood of contamination by Council considering past uses or results of systematic testing. It is not known if Contaminated Land provisions of the Development Control Plan or the relevant State legislation, apply.**

Note: Refer to Clause 11 of this certificate to check if the land is bushfire prone.

(b) Is the land affected by a policy adopted by any other public authority that restricts the development of the land because of the likelihood of landslip, bushfire, tidal inundation, subsidence, acid sulphate or any other risk?

Yes. Council is aware of a policy adopted by a public authority that restricts the development of the land due to the risk of bushfire.
Refer to clause 11 of this certificate.

7A. Flood related development controls information

(1) Whether the land or part of the land is within the flood planning area and is subject to flood related development controls.

Lot 701 DP 96240	**Yes. The land or part of the land is within the flood planning area and is subject to flood related development controls.**

(2) Whether the land or part of the land is between the flood planning area and the probable maximum flood and is subject to flood related development controls.

Lot 701 DP 96240	**Yes. The land or part of the land is between the flood planning area and the probable maximum flood and is subject to flood related development controls. Refer to Palerang Local Environmental Plan 2014, Clause 6.2 and Palerang Development Control Plan 2015 Part B - General Provisions, Section B9 Flood Planning.**

8. Land reserved for acquisition

Whether or not any environmental planning instrument or proposed environmental planning instrument referred to in clause 1 makes provision in relation to the acquisition of the land by a public authority, as referred to in section 3.15 of the Act.

Lot 701 DP 96240	**No. Council is not aware of any environmental planning instrument or proposed environmental planning instrument that makes provision for the acquisition of the land by a public authority.**

9. Contributions plans

The name of each Contributions plan applying to the land.

Lot 701 DP 96240	**Palerang Council Section 94 Development Contributions Plan No. 7 for the Provision of Recreation Facilities at Bungendore.**
Lot 701 DP 96240	**Palerang Council Section 94 Development Contributions Plan No. 8 for the Provision of Pathway Network at Bungendore.**
Lot 701 DP 96240	**Palerang Council Section 94 Development Contributions Plan No. 9 for Street Upgrading at Bungendore.**
Lot 701 DP 96240	**Yarrowlumla Council Section 94 Contributions Plan No. 1 Bungendore.**

www.qprc.nsw.gov.au/Building-Development/Planning-Zoning/Planning-controls#section-6

9A. Biodiversity certified land

Whether the land is biodiversity certified land under Part 8 of the *Biodiversity Conservation Act 2016.*

Lot 701 DP 96240	**No. Council has not been notified that the land is biodiversity certified under the Biodiversity Conservation Act 2016.**

10. Biodiversity stewardship sites

Whether the land is a biodiversity stewardship site under a biodiversity stewardship agreement under Part 5 of the *Biodiversity Conservation Act 2016.*

Lot 701 DP 96240	**No. Council has not been notified that the land is a biodiversity stewardship site under a biodiversity stewardship agreement under the Biodiversity Conservation Act 2016.**

10A. Native vegetation clearing set asides

Whether the land contains a set aside area under section 60ZC of the *Local Land Services Act 2013*.

Lot 701 DP 96240	**No. Council has not been notified that the land contains a set aside area or it is registered in the public register under the Local Land Services Act 2013.**

11. Bush fire prone land

Whether the land is bush fire prone land.

Lot 701 DP 96240	**Yes. The land is partly bush fire prone as defined in Section 10.3 of the Environmental Planning and Assessment Act 1979.** **Refer to the relevant Development Control Plan [see clause1(3) of this certificate].**

12. Property Vegetation Plans

Whether Council has been notified that a property vegetation plan under the *Native Vegetation Act 2003* applies to the land.

Lot 701 DP 96240	**No. Council has not been notified of a property vegetation plan under the Native Vegetation Act 2003 that applies to the land.**

13. Orders under *Trees (Disputes Between Neighbours) Act 2006*

Whether Council has been notified whether an order has been made under the *Trees (Disputes Between Neighbours) Act 2006* to carry out work in relation to a tree on the land.

No. Council has not been notified of order made under the *Trees (Disputes Between Neighbours) Act 2006* to carry out work in relation to a tree on the land.

14. Directions under Part 3A

Whether there is a direction by the Minister in force under section 75P (2) (c1) of the Act that a provision of an environmental planning instrument prohibiting or restricting the carrying out of a project or a stage of a project on the land under Part 4 of the Act does not have effect.

No. Council has not been advised of any Directions by the Minister under section 75P (2) (c1) of the Act.

15. Site compatibility certificates and conditions for seniors housing

Whether there is a current site compatibility certificate (seniors housing), of which the council is aware, in respect of proposed development on the land:

No. Council is not aware of any valid site compatibility certificate (seniors housing) applying to the land.

16. Site compatibility certificates for infrastructure, schools or TAFE establishments

Whether there is a valid site compatibility certificate (infrastructure, schools or TAFE establishments), of which council is aware of in respect of proposed development on the land.

No. Council is not aware of any valid site compatibility certificate (infrastructure, schools or TAFE establishments) applying to the land.

17. Site compatibility certificates and conditions for affordable rental housing

Whether there a current site compatibility certificate (affordable rental housing), of which the council is aware, in respect of proposed development on the land.

No. Council is not aware of any valid site compatibility certificate (affordable rental housing) applying to the land.

18. Paper subdivision information

The name of any development plan adopted by a relevant authority that applies to the land or that is proposed to be subject to a consent ballot.

No. Council is not aware of any development plan adopted by a relevant authority or any subdivision Order that applies to a paper subdivision of the land as described in Part 16C of the *Environmental Planning and Assessment Regulation 2000*.

19. Site verification certificate

Whether there is a current site verification certificate in relation to Division 3 of Part 4AA of the *State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007* that Council is aware of.

No. Council is not aware of any site verification certificate applying to the land.

20. Loose-fill asbestos insulation

If the land includes any residential premises (within the meaning of Division 1A of Part 8 of the *Home Building Act 1989*) that are listed on the register that is required to be maintained under that Division.

No. Council is not aware of any residential premises on the land that are affected by loose-fill asbestos insulation (Division 1A of Part 8 of the *Home Building Act 1989*) and that are listed on the NSW register that is required to be maintained under that Division.

NSW Fair Trading maintains a NSW Register of homes that are affected by loose-fill asbestos insulation: www.fairtrading.nsw.gov.au/loose-fill-asbestos-insulation-register

Some buildings located in the Queanbeyan-Palerang local government area have been identified as containing loose-fill asbestos insulation (sometimes referred to as "Mr Fluffy" insulation), for example, in the roof space. You should make your own enquiries as to the age of the buildings on the land to which this certificate relates. If the land contains a building constructed prior to 1980, Queanbeyan-Palerang Regional Council strongly recommends that any potential purchaser obtains advice from a licensed asbestos assessor to determine whether loose-fill asbestos is present in any building on the land; and, if so, the health risks (if any) this may pose for the building's occupants. Contact NSW Fair Trading for further information: https://www.fairtrading.nsw.gov.au/housing-and-property/loose-fill-asbestos-insulation

Nothing in this statement relates to information about the presence of bonded asbestos materials such as asbestos cement sheeting that may have been used at this site.

21. Affected building notices and building product rectification orders

(1) Is there any affected building notice of which the council is aware that is in force in respect of the land?

(2) A statement of:

(a) whether there is any building product rectification order of which the council is aware that is in force in respect of the land and has not been fully complied with, and

(b) whether any notice of intention to make a building product rectification order of which the council is aware has been given in respect of the land and is outstanding.

No. Council is not aware of the existence of any affected building notice in force, or building product rectification order, or any notice of intention to make a building product rectification order.

22. State Environmental Planning Policy (Western Sydney Aerotropolis) 2020

For land to which *State Environmental Planning Policy (Western Sydney Aerotropolis) 2020* applies, whether the land is:

(a) in an ANEF or ANEC contour of 20 or greater as referred to in clause 19 of that Policy, or

(b) shown on the *Lighting Intensity and Wind Shear Map* under that Policy, or

(c) shown on the *Obstacle Limitation Surface Map* under that Policy, or

(d) in the "public safety area" on the *Public Safety Area Map* under that Policy, or

(e) in the "3 kilometre wildlife buffer zone" or the "13 kilometre wildlife buffer zone" on the *Wildlife Buffer Zone Map* under that Policy.

Not applicable.

Additional Notes

Aircraft Noise

The land is not located within the Australian Noise Exposure Forecast (ANEF) contour of 20 or greater for the Canberra Airport. Land within an ANEF contour of less than 20 is generally regarded as being 'acceptable' for new residential dwellings and other land uses under *Australian Standard AS2021:2015 Acoustics- Aircraft noise intrusion- Building siting and construction*. Further advice in respect of potential aircraft noise impacts is available from Canberra Airport at:
https://www.canberraairport.com.au/corporate/community/aircraft-noise

Additional matters prescribed by section 59(2) of the *Contaminated Land Management Act 1997*

(a) Whether there is land to which a certificate relates regarding significantly contaminated land within the meaning of that Act.

Lot 701 DP 96240	**No. Council is not aware that the land is significantly contaminated.**

(b) Whether there is land to which a certificate relates regarding being subject to a management order within the meaning of that Act.

Lot 701 DP 96240	**No. Council is not aware that the land is subject to a management order.**

(c) Whether there is land to which a certificate relates regarding the subject of an approved voluntary management proposal within the meaning of that Act.

Lot 701 DP 96240	**No. Council is not aware that the land is subject to an approved voluntary management order.**

(d) Whether there is land to which a certificate relates regarding being subject to an ongoing maintenance order within the meaning of that Act.

Lot 701 DP 96240	**No. Council is not aware that the land is subject to an ongoing maintenance order.**

(e) Whether there is land to which a certificate relates regarding being the subject of a site audit statement within the meaning of that Act.

Lot 701 DP 96240	**No. Council is not aware that the land is the subject of a site audit statement.**

Additional information provided in accordance with section 10.7(5) of the *Environmental Planning and Assessment Act 1979*

Vegetation Clearing

There are restrictions on the clearing of vegetation on the land.
Refer to:

- ***State Environmental Planning Policy (Vegetation in Non-Rural Areas) 2017,***
- ***Biodiversity Conservation Act 2016,***
- ***Local Land Services Act 2013,***
- **relevant Development Control Plan [see clause 1(3) of this certificate],**
- **clause 10A of this certificate if a native vegetation set aside area applies,**
- **clause 12 of this certificate if a property vegetation plan applies.**

Loose Fill Asbestos

If the land to which this certificate relates contains a building constructed prior to 1980, the Council strongly recommends that any potential purchaser obtain advice from an appropriately qualified expert as to whether loose fill asbestos is present in any building on the land and, if so, the health risks (if any) this may pose for the building's occupants. Prospective purchasers may also wish to ask the current owner if the property has previously been inspected under the NSW WorkCover ceiling insulation testing program. Further information about loose fill asbestos insulation (including information about the NSW WorkCover ceiling insulation testing scheme) can be found at:
http://www.fairtrading.nsw.gov.au/housing-and-property/loose-fill-asbestos-insulation

Road Access

Lot 701 DP 96240	**The land is served by a public road which is maintained by Council. Enquiries related to maintenance schedules can be made to Council at:** **https://www.qprc.nsw.gov.au/Services/Roads-and-footpaths**

Development Approvals

Council has no records of development approvals or complying development certificates that have been issued by the previous Council in the previous five years.

ISSUE DETAILS

Certificate No: PL.2021.2419
Checked: CK.

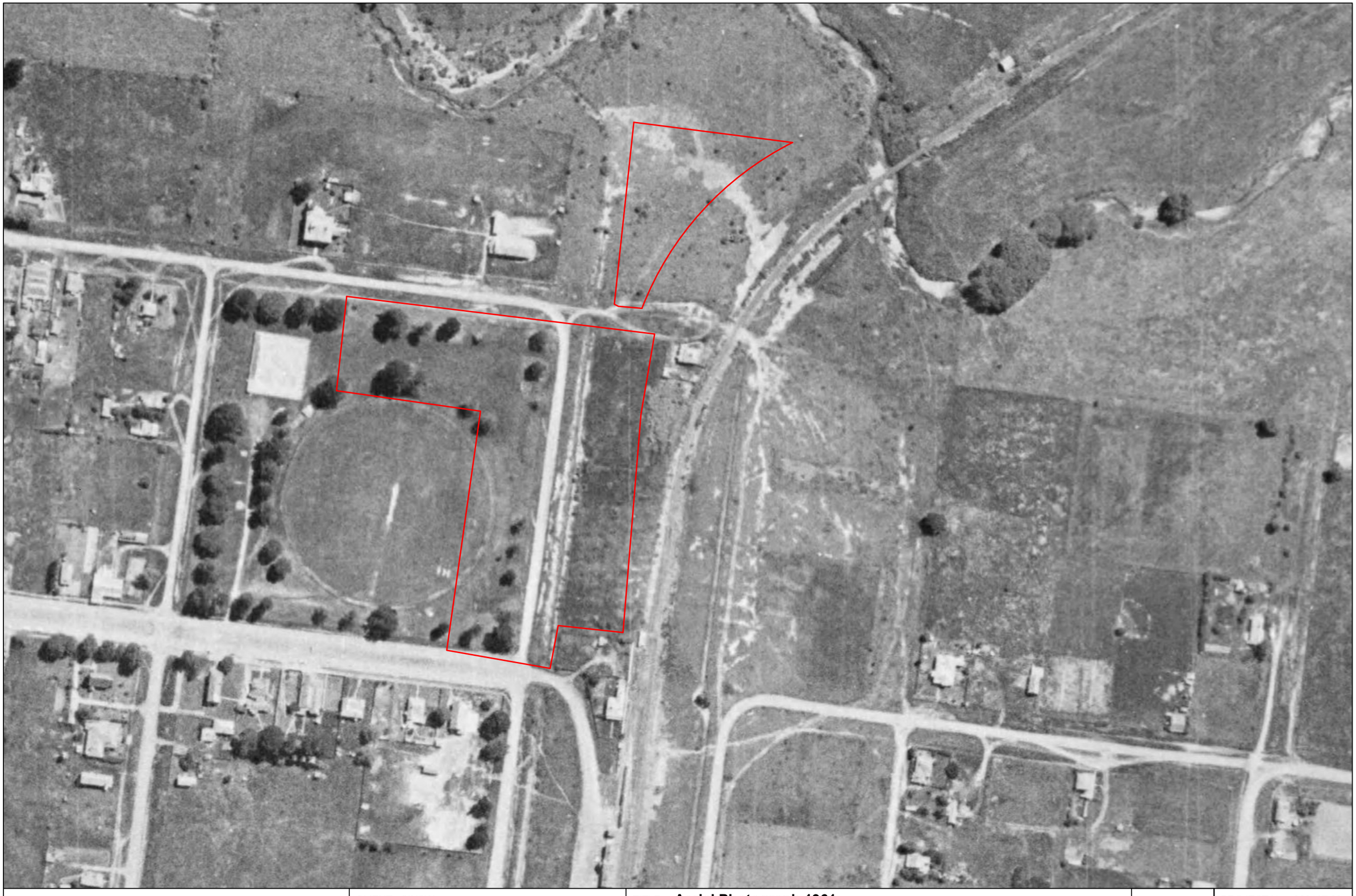
M J Thompson
Portfolio General Manager
Natural and Built Character
Queanbeyan-Palerang Regional Council

Per……

02 August 2021

Appendix D

Historical Aerial Photographs (D1 – D7)



Douglas Partners Geotechnics / Environment / Groundwater	CLIENT: SINSW	TITLE: **Aerial Photograph 1961** **Proposed High School** **Majara Street, Bungendore**	PROJECT No: 202107.03
	OFFICE: Canberra DRAWN BY: SDG		PLATE No: D1
	SCALE: NTS DATE: 07.09.2021		REVISION: 2



Douglas Partners Geotechnics / Environment / Groundwater	CLIENT: SINSW	TITLE: **Aerial Photograph 1967** **Proposed High School** **Majara Street, Bungendore**	PROJECT No: 202107.03
	OFFICE: Canberra DRAWN BY: SDG		PLATE No: D2
	SCALE: NTS DATE: 07.09.2021		REVISION: 2



Douglas Partners
Geotechnics / Environment / Groundwater

CLIENT: SINSW		TITLE: **Aerial Photograph 1976** **Proposed High School** **Majara Street, Bungendore**	PROJECT No: 202107.03
OFFICE: Canberra	DRAWN BY: SDG		PLATE No: D3
SCALE: NTS	DATE: 07.09.2021		REVISION: 2



Douglas Partners
Geotechnics / Environment / Groundwater

CLIENT: SINSW		
OFFICE: Canberra	DRAWN BY: SDG	
SCALE: NTS	DATE: 07.09.2021	

TITLE: **Aerial Photograph 1985**
Proposed High School
Majara Street, Bungendore

N

PROJECT No:	202107.03
PLATE No:	D4
REVISION:	2



Douglas Partners
Geotechnics / Environment / Groundwater

CLIENT: SINSW		TITLE: **Aerial Photograph 1992**	PROJECT No: 202107.03
OFFICE: Canberra	DRAWN BY: SDG	**Proposed High School**	PLATE No: D5
SCALE: NTS	DATE: 07.09.2021	**Majara Street, Bungendore**	REVISION: 2



Douglas Partners Geotechnics / Environment / Groundwater	CLIENT: SINSW	TITLE: **Aerial Photograph 2007** **Proposed High School** **Majara Street, Bungendore**	PROJECT No: 202107.03
	OFFICE: Canberra DRAWN BY: SDG		PLATE No: D6
	SCALE: NTS DATE: 07.09.2021		REVISION: 2



Douglas Partners Geotechnics / Environment / Groundwater	CLIENT: SINSW	TITLE: **Aerial Photograph 2018** **Proposed High School** **Majara Street, Bungendore**	PROJECT No: 202107.03
	OFFICE: Canberra DRAWN BY: SDG		PLATE No: D7
	SCALE: NTS DATE: 07.09.2021		REVISION: 2

Appendix E

Site Photographs



Photo 1: View of the western portion of the site (adjacent to the swimming pool)

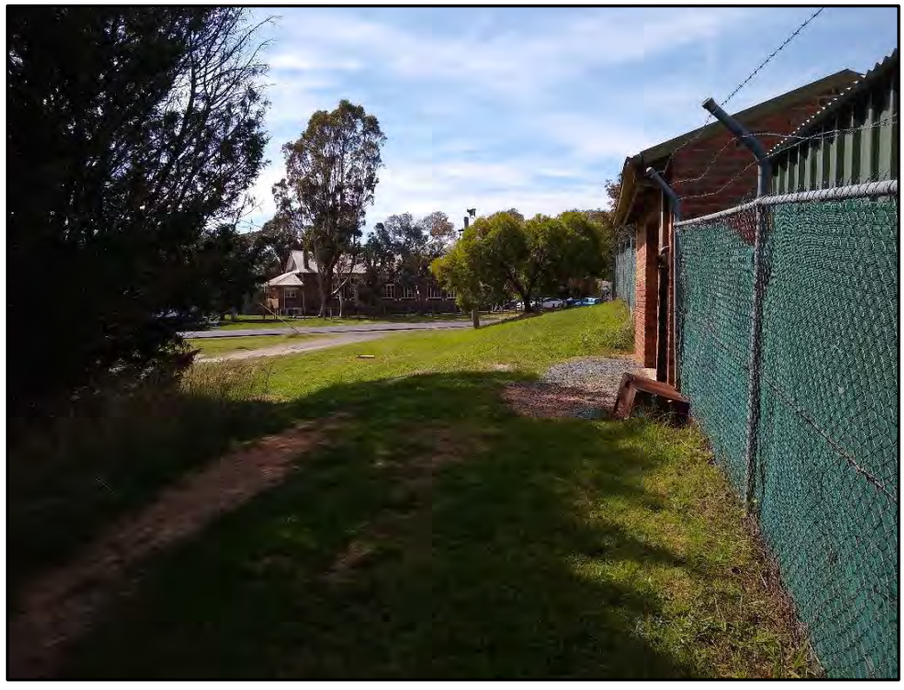


Photo 2: View of the fill mound along the western boundary of the swimming pool

Douglas Partners Geotechnics | Environment | Groundwater	**Site Photographs**		PROJECT:	202107.03
	Majara Street		Plate	1
	Bungendore		REV:	A
	Client	SINSW	DATE:	28.07.2021



Photo 3: View of Majara Street, Bungendore Community Centre and gravel fill



Photo 4: View of the vacant lots along the eastern boundary of the site

Douglas Partners Geotechnics | Environment | Groundwater	**Site Photographs**		PROJECT:	202107.03
	Majara Street		Plate	2
	Bungendore		REV:	A
	Client	SINSW	DATE:	28.07.2021



Photo 5: View of Mich Sherd Oval



Photo 6: View of gravel fill car park and council offices

Douglas Partners Geotechnics | Environment | Groundwater	**Site Photographs**		PROJECT:	202107.03
	Majara Street		Plate	3
	Bungendore		REV:	A
	Client	SINSW	DATE:	28.07.2021



Photo 7: View of the northern portion of the site, looking south-east



Photo 8: View of the northern portion of the site, looking north

Douglas Partners Geotechnics | Environment | Groundwater	**Site Photographs**		PROJECT:	202107.03
	Majara Street		Plate	4
	Bungendore		REV:	A
	Client	SINSW	DATE:	28.07.2021



Photo 9: View of the sloping surface within the northern portion of the site



Photo 10: View of surface fill, located within the northern section of the site

Douglas Partners Geotechnics | Environment | Groundwater	**Site Photographs**		PROJECT:	202107.03
	Majara Street		Plate	5
	Bungendore		REV:	A
	Client	SINSW	DATE:	28.07.2021

Appendix F

Data Quality Objectives

Appendix F
Data Quality Objectives
Majara Street, Bungendore

F1.0 Data Quality Objectives

The limited contamination assessment has been devised broadly in accordance with the seven-step data quality objective (DQO) process which is provided in Appendix B, Schedule B2 of NEPC *National Environment Protection (Assessment of Site Contamination) Measure 1999 (as amended 2013) [NEPM]* (NEPC, 2013).

Step	Summary
1: State the problem	It is noted that the preliminary site investigation (contamination) with limited sampling (PSI-L) was undertaken concurrently with a geotechnical investigation. As such the investigation locations were primarily intended to target areas of the proposed development for geotechnical purposes with opportunistic sampling for contaminated land investigation purposes and some targeting of the potential areas of environmental concern (PAEC) identified in Section 6. As such, the objective of the limited intrusive investigation for contamination is to provide preliminary sub-surface information, to assist in determining the compatibility of the site for the proposed development and whether further investigation and/or management is required The report is being undertaken as the land is to be redeveloped. The requirements of the regulator, Queanbeyan-Palerang Regional Council, will also be considered by consulting their Development Control Plan (DCP), Local Environment Plan (LEP), Secretary's Environmental Assessment Requirements (SEARs) and any other requirements based on our recent experience with Council on similar sites. A preliminary conceptual site model (CSM) was prepared as part of PSI-L (Sections 8 & 13). This has been revised to reflect the findings of the limited intrusive investigation. The project team consisted of experienced environmental engineers and scientists working in the roles of Project Principal, Project Reviewer, Project Manager, Field staff.
2: Identify the decisions / goal of the study	The site history has identified possible contaminating previous uses which are identified in the CSM (Section 8). The CSM identifies the associated contaminants of potential concern (COPC) and the likely impacted media. The site assessment criteria (SAC) for each of the COPC are detailed in Section 9. The decision is to establish whether or not the results fall below the SAC. On this basis, an assessment of the site's suitability from a contamination perspective and whether (or not) further assessment and / or remediation will be derived.
3: Identify the information inputs	The DQO is to collect soil samples to measure the concentration of identified potential contaminants at the site using NATA accredited laboratories and methods, where possible. A photoionization detector (PID) will be used on-site to screen soils for VOC. PID readings will be used to inform sample selection for laboratory analysis.

Step	Summary
4: Define the study boundaries	The lateral boundaries of the investigation area are shown on Drawing 1, Appendix A. The vertical boundaries are to the extent of contamination impact as determined from the site history assessment and site observations. The assessment is limited to the timeframe over which the field investigation was undertaken. Constraints to the assessment are identified and discussed in the conclusions of the report, Section 13 and in Section 9 (borehole locations).
5: Develop the analytical approach (or decision rule)	The decision rule is to compare all analytical results with SAC (Section 9, based on NEPC (2013)). Where guideline values are absent, other sources of guideline values accepted by NEPC (2013) were adopted where possible. Where a sample result exceeds the adopted criterion, a further site-specific assessment was made as to the risk posed by the presence of that contaminant(s). Initial comparisons were with individual results then, where required, summary statistics (including mean, standard deviation and 95% upper confidence limit (UCL) of the arithmetic mean (95% UCL) to assess potential risks posed by the site contamination. Quality control results are to be assessed according to their relative percent difference (RPD) values. For field duplicates, triplicates and laboratory results, RPDs should generally be below 30%; for field blanks and rinsates, results should be at or less than the limits of reporting (NEPC, 2013). The field and laboratory quality assurance assessment is included in Appendix G.
6: Specify the performance or acceptance criteria	The site assessment criteria was developed through reference to NEPC (2013) and for the current and anticipated future land use scenario (high school). The acceptance limits for laboratory QA/QC parameters were based on the laboratory reported acceptance limits and those stated in NEPC (2013).
7: Optimise the design for obtaining data	As the purpose of the sampling program is to assess for potential contamination across the site, the sampling program is reliant on professional judgement to identify and sample the potentially affected areas. Further details regarding the proposed sampling plan are presented in Section 8.

F1.0 References

NEPC. (2013). *National Environment Protection (Assessment of Site Contamination) Measure 1999 (as amended 2013) [NEPM].* Australian Government Publishing Services Canberra: National Environment Protection Council.

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Appendix G

Field Work Methodology

Appendix G
Field Work Methodology
Majara Street, Bungendore

G1.0 Guidelines

The following key guidelines were consulted for the field work methodology:

- NEPC *National Environment Protection (Assessment of Site Contamination) Measure 1999 (as amended 2013) [NEPM]* (NEPC, 2013).

G2.0 Soil Sampling

Soil sampling was carried out in accordance with DP standard operating procedures. The general sampling and sample management procedures comprised:

- Collect soil samples directly from the excavator bucket and solid flight auger blades at the nominated sample depth;
- Transfer samples in laboratory-prepared glass jars with Teflon lined lids by hand, capping immediately and minimising headspace within the sample jar;
- Collect replicate samples in zip-lock bags for PID screening;
- Wear a new disposable nitrile glove for each sample point thereby minimising potential for cross-contamination;
- Collect 10% replicate samples for QC purposes;
- Label sample containers with individual and unique identification details, including project number, sample location and sample depth (where applicable);
- Place samples into a cooled, insulated and sealed container for transport to the laboratory; and
- Use chain of custody documentation.

G2.1 Field Testing

Field testing was carried out in accordance with DP standard operating procedures. The general sampling and sample management procedures comprised:

PID Field Test

- Calibrate the PID with isobutylene gas at 100 ppm and with fresh air prior to commencement of each successive day's field work;
- Allow the headspace in the PID zip-lock bag samples to equilibrate; and
- Screen using the PID.

G3.0 References

NEPC. (2013). *National Environment Protection (Assessment of Site Contamination) Measure 1999 (as amended 2013) [NEPM].* Australian Government Publishing Services Canberra: National Environment Protection Council.

NSW EPA. (2020). *Assessment and Management of Hazardous Ground Gases.* NSW Environment Protection Authority.

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Appendix H

Site Assessment Criteria

Appendix H
Site Assessment Criteria
Majara Street, Bungendore

H1.0 Introduction

H1.1 Guidelines

The following key guidelines were consulted for deriving the site assessment criteria (SAC):

- NEPC *National Environment Protection (Assessment of Site Contamination) Measure 1999 (as amended 2013) [NEPM]* (NEPC, 2013).
- CRC CARE *Health screening levels for petroleum hydrocarbons in soil and groundwater* (CRC CARE, 2011).

H1.2 General

The SAC applied in the current investigation are informed by the CSM which identified human and environmental receptors to potential contamination at the site. Analytical results are assessed (as a Tier 1 assessment) against the SAC comprising primarily the investigation and screening levels of Schedule B1 of NEPC (2013).

The following inputs are relevant to the selection and/or derivation of the SAC:

- Land use: residential (Primary School).
    - Corresponding to land use category 'A', residential with garden / accessible soil (home grown produce <10% fruit and vegetable intake, (no poultry)), also includes children's day care centres, preschools and primary schools; and
    - It should be noted that even though a high school and car parking are proposed for development as well, the most conservative land use criteria (primary school) has been adapted for the entire site.
- Soil type: sand (conservative).

H2.0 Soils

H2.1 Health Investigation and Screening Levels

The generic health investigation levels (HIL) and health screening levels (HSL) are considered to be appropriate for the assessment of human health risk via all relevant pathways of exposure associated with contamination at the site. The adopted soil HIL and HSL for the contaminants of concern are in Table 1 and Table 2.

Table 1: Health Investigation Levels (mg/kg)

Contaminant	HIL-A
Metals	
Arsenic	100
Cadmium	20
Chromium (VI)	100
Copper	6000
Lead	300
Mercury (inorganic)	40
Nickel	400
Zinc	7400
PAH	
B(a)P TEQ	3
Total PAH	300
Phenols	
Phenol	3000
OCP	
DDT+DDE+DDD	240
Aldrin and dieldrin	6
Chlordane	50
Endosulfan	270
Endrin	10
Heptachlor	6
HCB	10
Methoxychlor	300
OPP	
Chlorpyrifos	160
PCB	
PCB	1

Table 2: Health Screening Levels (mg/kg)

Contaminant	HSL-A&B	HSL-A&B	HSL-A&B	HSL-A&B
SAND	**0 m to <1 m**	**1 m to <2 m**	**2 m to <4 m**	**4 m+**

Contaminant	HSL-A&B	HSL-A&B	HSL-A&B	HSL-A&B
Benzene	0.5	0.5	0.5	0.5
Toluene	160	220	310	540
Ethylbenzene	55	NL	NL	NL
Xylenes	40	60	95	170
Naphthalene	3	NL	NL	NL
TRH F1	45	70	110	200
TRH F2	110	240	440	NL

Notes: TRH F1 is TRH C_6-C_{10} minus BTEX

TRH F2 is TRH >C_{10}-C_{16} minus naphthalene

The soil saturation concentration (Csat) is defined as the soil concentration at which the porewater phase cannot dissolve any more of an individual chemical. The soil vapour that is in equilibrium with the porewater will be at its maximum. If the derived soil HSL exceeds Csat, a soil vapour source concentration for a petroleum mixture could not exceed a level that would results in the maximum allowable vapour risk for the given scenario. For these scenarios, no HSL is presented for these chemicals and the HSL is shown as 'not limiting' or 'NL'

The HSL for direct contact derived from CRC CARE (2011) are in Table 3.

Table 3: Health Screening Levels for Direct Contact (mg/kg)

Contaminant	DC HSL-A	DC HSL-IMW
Benzene	100	1100
Toluene	14 000	120 000
Ethylbenzene	4500	85 000
Xylenes	12 000	130 000
Naphthalene	1400	29 000
TRH F1	4400	82 000
TRH F2	3300	62 000
TRH F3	4500	85 000
TRH F4	6300	12 000

Notes: TRH F1 is TRH C_6-C_{10} minus BTEX

TRH F2 is TRH >C_{10}-C_{16} minus naphthalene

IMW intrusive maintenance worker

H2.2 Asbestos in Soil

Based on the CSM and/or current site access limitations, a detailed asbestos assessment was not considered to be warranted at this stage. However, due to the history of widespread use of ACM products across Australia, ACM can be encountered unexpectedly and sporadically at a site. Therefore,

the presence or absence of asbestos at a limit of reporting of 0.1 g/kg (AS:4964) has been adopted for this investigation / assessment as an initial screen.

H2.3 Ecological Investigation Levels

Ecological investigation levels (EIL) and added contaminant limits (ACL), where appropriate, have been derived in NEPC (2013) for arsenic, copper, chromium (III), nickel, lead, zinc, DDT and naphthalene. The adopted EIL, derived using the interactive (excel) calculation spreadsheet on the NEPM toolbox website are shown in Table 5, with inputs into their derivation shown in Table 4.

Table 4: Inputs to the Derivation of the Ecological Investigation Levels

Variable	Input	Rationale
Age of contaminants	"Aged" (>2 years))	Site has been subject to urban development since 1884
pH	8.9	Laboratory Analysis
CEC	1.4 $cmol_c/kg$	Laboratory Analysis
Traffic volumes	High	Town established in the 1800's, urban environment including road pavements
State / Territory	NSW	Site is within NSW

Table 5: Ecological Investigation Levels (mg/kg)

Contaminant	EIL-A-B-C
Metals	
Arsenic	100
Copper	40
Nickel	7
Chromium III	410
Lead	1100
Zinc	160
PAH	
Naphthalene	170
OCP	
DDT	180

H2.4 Ecological Screening Levels

Ecological screening levels (ESL) are used to assess the risk of selected petroleum hydrocarbon compounds, BTEX and benzo(a)pyrene to terrestrial ecosystems. The adopted ESL are shown in Table 6.

Table 6: Ecological Screening Levels (mg/kg)

Contaminant	Soil Type	EIL-A-B-C
Benzene	Coarse	50
Toluene	Coarse	85
Ethylbenzene	Coarse	70
Xylenes	Coarse	105
TRH F1	Coarse/ Fine	180*
TRH F2	Coarse/ Fine	120*
TRH F3	Coarse	300
TRH F4	Coarse	2800
B(a)P	Coarse	0.7

Notes: ESL are of low reliability except where indicated by * which indicates that the ESL is of moderate reliability
TRH F1 is TRH C_6-C_{10} minus BTEX
TRH F2 is TRH >C_{10}-C_{16} including naphthalene

H2.5 Management Limits

In addition to appropriate consideration and application of the HSL and ESL, there are additional considerations which reflect the nature and properties of petroleum hydrocarbons, including:

- Formation of observable light non-aqueous phase liquids (LNAPL);
- Fire and explosion hazards; and
- Effects on buried infrastructure eg: penetration of, or damage to, in-ground services.

The adopted management limits are in Table 7.

Table 7: Management Limits (mg/kg)

Contaminant	Soil Type	ML-A-B-C
TRH F1	Coarse	700
TRH F2	Coarse	1000
TRH F3	Coarse	2500
TRH F4	Coarse	10 000

Notes: TRH F1 is TRH C_6-C_{10} including BTEX
TRH F2 is TRH >C_{10}-C_{16} including naphthalene

H2.6 Preliminary Waste Classification Criteria

It is understood that during construction, it is likely that there will be material that will be in surplus and potentially be required to be removed off-site.

For disposal of the material to a suitably licensed waste disposal facility in the NSW, classification of the soils should be undertaken with reference to the reference to the NSW EPA *Waste Classification Guidelines, Part 1: Classifying Waste* (NSW EPA, 2014). The waste classification criteria for general waste are shown in Table 8.

Table 8: Waste Classification of General Solid Waste

Analyte	Maximum values of specific contamination concentration (SCC) for classification without TCLP	Maximum values for leachable concentration (TCLP) and total concentration (SCC) when used together	
	General Solid Waste CT1 (mg/kg)	Leachable concentration (TCLP1) (mg/L)	Total concentration (SCC1) (mg/kg)
Arsenic	100	5.0	500
Cadmium	20	1.0	100
Chromium	100	0.5	1900
Lead	100	5	1500
Mercury	4	0.2	50
Nickel	40	2	1050
Benzene	10	0.5	18
Toluene	288	1.44	518
Ethylbenzene	600	14.4	1080
Xylene	1000	50	1800
TRH (C_6-C_9)	650	NA	650
TRH (C_{10}-C_{36})	10000	NA	10000
Benzo(a)pyrene	0.8	0.004	10
Total PAHs	200	NC	200
Phenol	288	14.4	518
Total PCBs	<50	NC	<50

Analyte	Maximum values of specific contamination concentration (SCC) for classification without TCLP	Maximum values for leachable concentration (TCLP) and total concentration (SCC) when used together	
	General Solid Waste CT1 (mg/kg)	Leachable concentration (TCLP1) (mg/L)	Total concentration (SCC1) (mg/kg)
Scheduled Chemicals	<50	NA	<50

H3.0 References

CRC CARE. (2011). *Health screening levels for petroleum hydrocarbons in soil and groundwater.* Parts 1 to 3, Technical Report No. 10: Cooperative Research Centre for Contamination Assessment and Remediation of the Environment.

NEPC. (2013). *National Environment Protection (Assessment of Site Contamination) Measure 1999 (as amended 2013) [NEPM].* Australian Government Publishing Services Canberra: National Environment Protection Council.

NSW EPA. (2014). Waste Classification Guidelines, Part 1: Classifying Waste. NSW Environment Protection Authority.

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Appendix I

Test Pit Logs

Sampling Methods

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Sampling

Sampling is carried out during drilling or test pitting to allow engineering examination (and laboratory testing where required) of the soil or rock.

Disturbed samples taken during drilling provide information on colour, type, inclusions and, depending upon the degree of disturbance, some information on strength and structure.

Undisturbed samples are taken by pushing a thin-walled sample tube into the soil and withdrawing it to obtain a sample of the soil in a relatively undisturbed state. Such samples yield information on structure and strength, and are necessary for laboratory determination of shear strength and compressibility. Undisturbed sampling is generally effective only in cohesive soils.

Test Pits

Test pits are usually excavated with a backhoe or an excavator, allowing close examination of the in-situ soil if it is safe to enter into the pit. The depth of excavation is limited to about 3 m for a backhoe and up to 6 m for a large excavator. A potential disadvantage of this investigation method is the larger area of disturbance to the site.

Large Diameter Augers

Boreholes can be drilled using a rotating plate or short spiral auger, generally 300 mm or larger in diameter commonly mounted on a standard piling rig. The cuttings are returned to the surface at intervals (generally not more than 0.5 m) and are disturbed but usually unchanged in moisture content. Identification of soil strata is generally much more reliable than with continuous spiral flight augers, and is usually supplemented by occasional undisturbed tube samples.

Continuous Spiral Flight Augers

The borehole is advanced using 90-115 mm diameter continuous spiral flight augers which are withdrawn at intervals to allow sampling or in-situ testing. This is a relatively economical means of drilling in clays and sands above the water table. Samples are returned to the surface, or may be collected after withdrawal of the auger flights, but they are disturbed and may be mixed with soils from the sides of the hole. Information from the drilling (as distinct from specific sampling by SPTs or undisturbed samples) is of relatively low reliability, due to the remoulding, possible mixing or softening of samples by groundwater.

Non-core Rotary Drilling

The borehole is advanced using a rotary bit, with water or drilling mud being pumped down the drill rods and returned up the annulus, carrying the drill cuttings. Only major changes in stratification can be determined from the cuttings, together with some information from the rate of penetration. Where drilling mud is used this can mask the cuttings and reliable identification is only possible from separate sampling such as SPTs.

Continuous Core Drilling

A continuous core sample can be obtained using a diamond tipped core barrel, usually with a 50 mm internal diameter. Provided full core recovery is achieved (which is not always possible in weak rocks and granular soils), this technique provides a very reliable method of investigation.

Standard Penetration Tests

Standard penetration tests (SPT) are used as a means of estimating the density or strength of soils and also of obtaining a relatively undisturbed sample. The test procedure is described in Australian Standard 1289, Methods of Testing Soils for Engineering Purposes - Test 6.3.1.

The test is carried out in a borehole by driving a 50 mm diameter split sample tube under the impact of a 63 kg hammer with a free fall of 760 mm. It is normal for the tube to be driven in three successive 150 mm increments and the 'N' value is taken as the number of blows for the last 300 mm. In dense sands, very hard clays or weak rock, the full 450 mm penetration may not be practicable and the test is discontinued.

The test results are reported in the following form.

- In the case where full penetration is obtained with successive blow counts for each 150 mm of, say, 4, 6 and 7 as:

  4,6,7
  N=13

- In the case where the test is discontinued before the full penetration depth, say after 15 blows for the first 150 mm and 30 blows for the next 40 mm as:

  15, 30/40 mm

The results of the SPT tests can be related empirically to the engineering properties of the soils.

Dynamic Cone Penetrometer Tests / Perth Sand Penetrometer Tests

Dynamic penetrometer tests (DCP or PSP) are carried out by driving a steel rod into the ground using a standard weight of hammer falling a specified distance. As the rod penetrates the soil the number of blows required to penetrate each successive 150 mm depth are recorded. Normally there is a depth limitation of 1.2 m, but this may be extended in certain conditions by the use of extension rods. Two types of penetrometer are commonly used.

- Perth sand penetrometer - a 16 mm diameter flat ended rod is driven using a 9 kg hammer dropping 600 mm (AS 1289, Test 6.3.3). This test was developed for testing the density of sands and is mainly used in granular soils and filling.
- Cone penetrometer - a 16 mm diameter rod with a 20 mm diameter cone end is driven using a 9 kg hammer dropping 510 mm (AS 1289, Test 6.3.2). This test was developed initially for pavement subgrade investigations, and correlations of the test results with California Bearing Ratio have been published by various road authorities.

Description and Classification Methods

The methods of description and classification of soils and rocks used in this report are generally based on Australian Standard AS1726:2017, Geotechnical Site Investigations. In general, the descriptions include strength or density, colour, structure, soil or rock type and inclusions.

Soil Types

Soil types are described according to the predominant particle size, qualified by the grading of other particles present:

Type	Particle size (mm)
Boulder	>200
Cobble	63 - 200
Gravel	2.36 - 63
Sand	0.075 - 2.36
Silt	0.002 - 0.075
Clay	<0.002

The sand and gravel sizes can be further subdivided as follows:

Type	Particle size (mm)
Coarse gravel	19 - 63
Medium gravel	6.7 - 19
Fine gravel	2.36 – 6.7
Coarse sand	0.6 - 2.36
Medium sand	0.21 - 0.6
Fine sand	0.075 - 0.21

Definitions of grading terms used are:

- Well graded - a good representation of all particle sizes
- Poorly graded - an excess or deficiency of particular sizes within the specified range
- Uniformly graded - an excess of a particular particle size
- Gap graded - a deficiency of a particular particle size with the range

The proportions of secondary constituents of soils are described as follows:

In fine grained soils (>35% fines)

Term	Proportion of sand or gravel	Example
And	Specify	Clay (60%) and Sand (40%)
Adjective	>30%	Sandy Clay
With	15 – 30%	Clay with sand
Trace	0 - 15%	Clay with trace sand

In coarse grained soils (>65% coarse)
- with clays or silts

Term	Proportion of fines	Example
And	Specify	Sand (70%) and Clay (30%)
Adjective	>12%	Clayey Sand
With	5 - 12%	Sand with clay
Trace	0 - 5%	Sand with trace clay

In coarse grained soils (>65% coarse)
- with coarser fraction

Term	Proportion of coarser fraction	Example
And	Specify	Sand (60%) and Gravel (40%)
Adjective	>30%	Gravelly Sand
With	15 - 30%	Sand with gravel
Trace	0 - 15%	Sand with trace gravel

The presence of cobbles and boulders shall be specifically noted by beginning the description with ‘Mix of Soil and Cobbles/Boulders’ with the word order indicating the dominant first and the proportion of cobbles and boulders described together.

Soil Descriptions

Cohesive Soils

Cohesive soils, such as clays, are classified on the basis of undrained shear strength. The strength may be measured by laboratory testing, or estimated by field tests or engineering examination. The strength terms are defined as follows:

Description	Abbreviation	Undrained shear strength (kPa)
Very soft	VS	<12
Soft	S	12 - 25
Firm	F	25 - 50
Stiff	St	50 - 100
Very stiff	VSt	100 - 200
Hard	H	>200
Friable	Fr	-

Cohesionless Soils

Cohesionless soils, such as clean sands, are classified on the basis of relative density, generally from the results of standard penetration tests (SPT), cone penetration tests (CPT) or dynamic penetrometers (PSP). The relative density terms are given below:

Relative Density	Abbreviation	Density Index (%)
Very loose	VL	<15
Loose	L	15-35
Medium dense	MD	35-65
Dense	D	65-85
Very dense	VD	>85

Soil Origin

It is often difficult to accurately determine the origin of a soil. Soils can generally be classified as:

- Residual soil - derived from in-situ weathering of the underlying rock;
- Extremely weathered material – formed from in-situ weathering of geological formations. Has soil strength but retains the structure or fabric of the parent rock;
- Alluvial soil – deposited by streams and rivers;
- Estuarine soil – deposited in coastal estuaries;
- Marine soil – deposited in a marine environment;
- Lacustrine soil – deposited in freshwater lakes;
- Aeolian soil – carried and deposited by wind;
- Colluvial soil – soil and rock debris transported down slopes by gravity;
- Topsoil – mantle of surface soil, often with high levels of organic material.
- Fill – any material which has been moved by man.

Moisture Condition – Coarse Grained Soils

For coarse grained soils the moisture condition should be described by appearance and feel using the following terms:

- Dry (D) — Non-cohesive and free-running.
- Moist (M) — Soil feels cool, darkened in colour.
  Soil tends to stick together.
  Sand forms weak ball but breaks easily.
- Wet (W) — Soil feels cool, darkened in colour.
  Soil tends to stick together, free water forms when handling.

Moisture Condition – Fine Grained Soils

For fine grained soils the assessment of moisture content is relative to their plastic limit or liquid limit, as follows:

- ‘Moist, dry of plastic limit’ or ‘w <PL’ (i.e. hard and friable or powdery).
- ‘Moist, near plastic limit’ or ‘w ≈ PL (i.e. soil can be moulded at moisture content approximately equal to the plastic limit).
- ‘Moist, wet of plastic limit’ or ‘w >PL’ (i.e. soils usually weakened and free water forms on the hands when handling).
- ‘Wet’ or ‘w ≈LL’ (i.e. near the liquid limit).
- ‘Wet’ or ‘w >LL’ (i.e. wet of the liquid limit).

Rock Strength

Rock strength is defined by the Unconfined Compressive Strength and it refers to the strength of the rock substance and not the strength of the overall rock mass, which may be considerably weaker due to defects.

The Point Load Strength Index $Is_{(50)}$ is commonly used to provide an estimate of the rock strength and site specific correlations should be developed to allow UCS values to be determined. The point load strength test procedure is described by Australian Standard AS4133.4.1-2007. The terms used to describe rock strength are as follows:

Strength Term	Abbreviation	Unconfined Compressive Strength MPa	Point Load Index * $Is_{(50)}$ MPa
Very low	VL	0.6 - 2	0.03 - 0.1
Low	L	2 - 6	0.1 - 0.3
Medium	M	6 - 20	0.3 - 1.0
High	H	20 - 60	1 - 3
Very high	VH	60 - 200	3 - 10
Extremely high	EH	>200	>10

* Assumes a ratio of 20:1 for UCS to $Is_{(50)}$. It should be noted that the UCS to $Is_{(50)}$ ratio varies significantly for different rock types and specific ratios should be determined for each site.

Degree of Weathering

The degree of weathering of rock is classified as follows:

Term	Abbreviation	Description
Residual Soil	RS	Material is weathered to such an extent that it has soil properties. Mass structure and material texture and fabric of original rock are no longer visible, but the soil has not been significantly transported.
Extremely weathered	XW	Material is weathered to such an extent that it has soil properties. Mass structure and material texture and fabric of original rock are still visible
Highly weathered	HW	The whole of the rock material is discoloured, usually by iron staining or bleaching to the extent that the colour of the original rock is not recognisable. Rock strength is significantly changed by weathering. Some primary minerals have weathered to clay minerals. Porosity may be increased by leaching, or may be decreased due to deposition of weathering products in pores.
Moderately weathered	MW	The whole of the rock material is discoloured , usually by iron staining or bleaching to the extent that the colour of the original rock is not recognisable, but shows little or no change of strength from fresh rock.
Slightly weathered	SW	Rock is partially discoloured with staining or bleaching along joints but shows little or no change of strength from fresh rock.
Fresh	FR	No signs of decomposition or staining.
Note: If HW and MW cannot be differentiated use DW (see below)		
Distinctly weathered	DW	Rock strength usually changed by weathering. The rock may be highly discoloured, usually by iron staining. Porosity may be increased by leaching or may be decreased due to deposition of weathered products in pores.

Rock Descriptions

Degree of Fracturing

The following classification applies to the spacing of natural fractures in diamond drill cores. It includes bedding plane partings, joints and other defects, but excludes drilling breaks.

Term	Description
Fragmented	Fragments of <20 mm
Highly Fractured	Core lengths of 20-40 mm with occasional fragments
Fractured	Core lengths of 30-100 mm with occasional shorter and longer sections
Slightly Fractured	Core lengths of 300 mm or longer with occasional sections of 100-300 mm
Unbroken	Core contains very few fractures

Rock Quality Designation

The quality of the cored rock can be measured using the Rock Quality Designation (RQD) index, defined as:

$$\text{RQD \%} = \frac{\text{cumulative length of 'sound' core sections} \geq \text{100 mm long}}{\text{total drilled length of section being assessed}}$$

where 'sound' rock is assessed to be rock of low strength or stronger. The RQD applies only to natural fractures. If the core is broken by drilling or handling (i.e. drilling breaks) then the broken pieces are fitted back together and are not included in the calculation of RQD.

Stratification Spacing

For sedimentary rocks the following terms may be used to describe the spacing of bedding partings:

Term	Separation of Stratification Planes
Thinly laminated	< 6 mm
Laminated	6 mm to 20 mm
Very thinly bedded	20 mm to 60 mm
Thinly bedded	60 mm to 0.2 m
Medium bedded	0.2 m to 0.6 m
Thickly bedded	0.6 m to 2 m
Very thickly bedded	> 2 m

Symbols & Abbreviations

Douglas Partners

Introduction

These notes summarise abbreviations commonly used on borehole logs and test pit reports.

Drilling or Excavation Methods

C	Core drilling
R	Rotary drilling
SFA	Spiral flight augers
NMLC	Diamond core - 52 mm dia
NQ	Diamond core - 47 mm dia
HQ	Diamond core - 63 mm dia
PQ	Diamond core - 81 mm dia

Water

▷	Water seep
▽	Water level

Sampling and Testing

A	Auger sample
B	Bulk sample
D	Disturbed sample
E	Environmental sample
U_{50}	Undisturbed tube sample (50mm)
W	Water sample
pp	Pocket penetrometer (kPa)
PID	Photo ionisation detector
PL	Point load strength Is(50) MPa
S	Standard Penetration Test
V	Shear vane (kPa)

Description of Defects in Rock

The abbreviated descriptions of the defects should be in the following order: Depth, Type, Orientation, Coating, Shape, Roughness and Other. Drilling and handling breaks are not usually included on the logs.

Defect Type

B	Bedding plane
Cs	Clay seam
Cv	Cleavage
Cz	Crushed zone
Ds	Decomposed seam
F	Fault
J	Joint
Lam	Lamination
Pt	Parting
Sz	Sheared Zone
V	Vein

Orientation

The inclination of defects is always measured from the perpendicular to the core axis.

h	horizontal
v	vertical
sh	sub-horizontal
sv	sub-vertical

Coating or Infilling Term

cln	clean
co	coating
he	healed
inf	infilled
stn	stained
ti	tight
vn	veneer

Coating Descriptor

ca	calcite
cbs	carbonaceous
cly	clay
fe	iron oxide
mn	manganese
slt	silty

Shape

cu	curved
ir	irregular
pl	planar
st	stepped
un	undulating

Roughness

po	polished
ro	rough
sl	slickensided
sm	smooth
vr	very rough

Other

fg	fragmented
bnd	band
qtz	quartz

Symbols & Abbreviations

Graphic Symbols for Soil and Rock

General

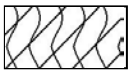

Asphalt


Road base

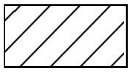

Concrete

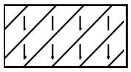

Filling

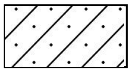
Soils


Topsoil

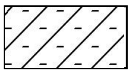

Peat


Clay

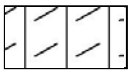

Silty clay

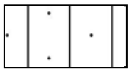

Sandy clay

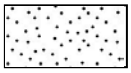

Gravelly clay

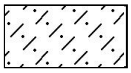

Shaly clay

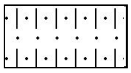

Silt


Clayey silt


Sandy silt

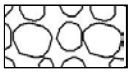

Sand

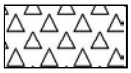

Clayey sand


Silty sand


Gravel


Sandy gravel


Cobbles, boulders

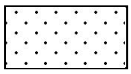

Talus

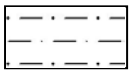
Sedimentary Rocks

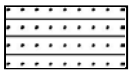

Boulder conglomerate

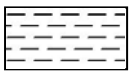

Conglomerate


Conglomeratic sandstone

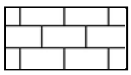

Sandstone


Siltstone

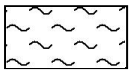

Laminite

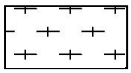

Mudstone, claystone, shale

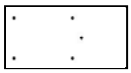

Coal


Limestone

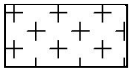
Metamorphic Rocks

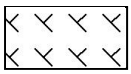

Slate, phyllite, schist

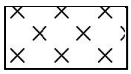

Gneiss

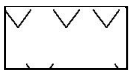

Quartzite

Igneous Rocks


Granite


Dolerite, basalt, andesite


Dacite, epidote


Tuff, breccia


Porphyry

BOREHOLE LOG

CLIENT: School Infrastructure NSW
PROJECT: Proposed High School
LOCATION: Majara Street, Bungendore

SURFACE LEVEL: 696.5 AHD
EASTING: 722530
NORTHING: 6096130
DIP/AZIMUTH: 90°/--

BORE No: BH01
PROJECT No: 202107.03
DATE: 25/3/2021
SHEET 1 OF 2

RL	Depth (m)	Description of Strata	Degree of Weathering	Graphic Log	Rock Strength	Water	Fracture Spacing (m)	Discontinuities	Type	Core Rec. %	RQD %	Test Results & Comments
			EW HW MW SW FS FR		Ex Low / Very Low / Low / Medium / High / Very High / Ex High		0.01 / 0.05 / 0.10 / 0.50 / 1.00	B - Bedding J - Joint S - Shear F - Fault				
696	0.2	TOPSOIL FILL/Silty CLAY (CL): low plasticity, dark brown, with rootlets, trace fine grained sand, moist to dry, w>PL, firm, TOPSOIL FILL							E			PID < 1
									D			
	0.4	FILL/Silty SAND (SM): fine grained, brown and pale brown, low plasticity silt, moist to wet, loose to medium dense, FILL							D			
	0.6	FILL/Silty CLAY (CI/CH): medium to high plasticity, brown and pale brown, trace gravel and rootlets, dry to moist, w<PL, hard, FILL							D			PID < 1
									E			
									S			6,10,26 N = 36
695	1 1.0	Silty CLAY (CI): medium plasticity, pale brown and grey, trace fine grained sand, dry to moist, w<PL, hard, extremely weathered siltstone							D			PID = 1
									E			
		SILTSTONE: fine grained, pale brown, dry to moist, low strength, highly weathered, highly fractured							S			18,24,30/50 refusal
	2	-from 2.0m, grey							D			PID < 1
									E			
694		-from 2.5m, grey and pale red							D			
								2.7m: J, 70°, pl, sm, cly vn	S			15/75 refusal
								2.77m: J, 10°, pl, he	C	100	36	PL(D) = 0.05
	3							2.95m: J, 40°, un, ro, cly vn				
								3m: drillers break				
								3.13m: J, 70°, pl, sm, cly vn				
								3.15m: J, 25°, ir, ro, cly vn				
693		-from 3.4m, medium strength, moderately weathered						3.2m: J, 25°, ir, ro, cly vn				
								3.25m: J, 80°, un, ro, cly vn				PL(D) = 0.78
								3.3m: End of run				
								3.46m: J, 40°, pl, ro				UCS = 4.9MPa
								3.65m: J, 40°, pl, ro				
								3.87m: J, 10°, pl, ro				
	4							3.88m: - 4.00m: drillers break	C	100	100	PL(D) = 0.77
								4.16m: J, 45°, un, ro				PL(A) = 0.45
								4.19m: J, 10°, ir, he				
								4.28m: J, 35°, un, ro				UCS = 7.3MPa
692		-from 4.5m, grey and brown						4.48m: J, 20°, pl, he				
								4.63m: J, 45°, pl, ro, cly vn				
		-from 4.7m, low to medium strength, highly weathered						4.75m: End of run				
		-from 4.9m, pale brown and grey						4.82m: J, 20°, ir, ro, cly vn	C	100	75	

RIG: EVH2100 **DRILLER:** S2S **LOGGED:** TBO/EAGL **CASING:** HQ to 2.6m

TYPE OF BORING: Continuous flight auger to 2.6m, coring to 6.15m

WATER OBSERVATIONS: No free groundwater observed

REMARKS: Location coordinates are in MGA94 Zone 55. Surface levels and coordinates are approximate only and must not be relied upon

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U_x	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	▼	Water level	V	Shear vane (kPa)

Douglas Partners
Geotechnics / Environment / Groundwater

BOREHOLE LOG

CLIENT: School Infrastructure NSW
PROJECT: Proposed High School
LOCATION: Majara Street, Bungendore

SURFACE LEVEL: 696.5 AHD
EASTING: 722530
NORTHING: 6096130
DIP/AZIMUTH: 90°/--

BORE No: BH01
PROJECT No: 202107.03
DATE: 25/3/2021
SHEET 2 OF 2

RL	Depth (m)	Description of Strata	Degree of Weathering (EW HW MW SW FS FR)	Graphic Log	Rock Strength (Ex Low, Very Low, Low, Medium, High, Very High, Ex High)	Water	Fracture Spacing (m) (0.01, 0.05, 0.10, 0.50, 1.00)	Discontinuities (B - Bedding J - Joint S - Shear F - Fault)	Sampling & In Situ Testing: Type	Core Rec. %	RQD %	Test Results & Comments
691		SILTSTONE: fine grained, pale brown, dry to moist, low strength, highly weathered, highly fractured *(continued)* -from 5.35m, pale red and pale brown						5.16m: J, 55°, pl, sm, cly vn 5.24m: J, 30°, ir, sm, cly vn 5.3m: - 5.35m: drillers break 5.35m: End of run 5.43m: J, 25°, ir, ro 5.5m: J, 30°, pl, he 5.56m: J, 10°, ir, ro 5.61m: J, 15°, ir, ro, cly vn 5.73m: J, 30°, ir, ro, cly vn 5.75m: J, 30°, pl, ro, cly vn 5.81m: J, 30°, ir, he 5.92m: J, 30°, st, sm 6m: J, 30°, un, sm 6.06m: J, 40°, pl, sm 6.08m: J, 40°, pl, sm 6.11m: J, 40°, pl, sm 6.15m: End of run	C	100	75	
	6								C	100	52	PL(A) = 0.12 PL(D) = 0.21 PL(D) = 0.40
	6.15	Bore discontinued at 6.15m -limit of investigation										
690	7											
689	8											
688	9											
687												

RIG: EVH2100 **DRILLER:** S2S **LOGGED:** TBO/EAGL **CASING:** HQ to 2.6m

TYPE OF BORING: Continuous flight auger to 2.6m, coring to 6.15m

WATER OBSERVATIONS: No free groundwater observed

REMARKS: Location coordinates are in MGA94 Zone 55. Surface levels and coordinates are approximate only and must not be relied upon

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U_x	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	▼	Water level	V	Shear vane (kPa)

Douglas Partners
Geotechnics / Environment / Groundwater

BOREHOLE LOG

CLIENT: School Infrastructure NSW
PROJECT: Proposed High School
LOCATION: Majara Street, Bungendore

SURFACE LEVEL: 697 AHD
EASTING: 722565
NORTHING: 6096143
DIP/AZIMUTH: 90°/--

BORE No: BH02
PROJECT No: 202107.03
DATE: 26/3/2021
SHEET 1 OF 2

RL	Depth (m)	Description of Strata	Degree of Weathering	Graphic Log	Rock Strength	Water	Fracture Spacing (m)	Discontinuities (B - Bedding, J - Joint, S - Shear, F - Fault)	Sampling & In Situ Testing: Type	Core Rec. %	RQD %	Test Results & Comments
697	0.2	TOPSOIL FILL/Sandy CLAY (CL): low plasticity, brown, fine grained sand, with rootlets, moist, w~PL, stiff, TOPSOIL FILL							E			PID = 2.7
		FILL/CLAY (CI): medium plasticity, pale brown-yellow, with fine to medium grained sand and low plasticity silt, moist, w~PL, stiff, FILL							D			
	0.5	Silty CLAY (CL/CI): low to medium plasticity, pale brown and orange, trace fine grained sand, dry to moist, w<PL, very stiff to hard, residual							D E			PID < 1
		-from 0.7m, extremely weathered siltstone							S			3,5,8 N = 13
696	1								D E			PID < 1
	1.2	SILTSTONE: fine grained, dry to moist, low strength, highly weathered, highly fractured							U_{50}			
									D S			30/130 refusal
		-from 1.8m, pale blue, pale red, medium strength, moderately weathered, fractured						1.86m: J, 80°, i, sm 2m: drillers break 2.01m: - 2.12m: J, generally 50°, pl, he, 40mm in spacing 2.17m: J, 30°, pl, sm 2.44m: J, 75°, pl, sm, cly vn 2.45m: J, 10°, pl, ro 2.7m: J, 75°, pl, ro 2.87m: J, 45°, ir, ro 3m: J, 30°, pl, ro 3.08m: J, 15°, un, ro, cly vn 3.2m: - 3.40m: J, generally 30°, pl, ro, 20-80mm in spacing 3.4m: End of run 3.45m: too fractured to distinguish 3.49m: J, 50°, ir, sm 3.575m: J, 50°, un, ro 3.6m: J, 5°, ir, ro, cly vn 3.77m: J, 50°, ir, sm 3.86m: J, 75°, pl, sm 3.91m: drillers break 4m: drillers break 4.28m: J, 45°, un, ro 4.51m: J, 15°, pl, ro 4.58m: J, 15°, st, sm 4.7m: - 4.95m: quartz band	C	100	65	PL(A) = 0.37 UCS = 1.9MPa PL(D) = 0.27 PL(A) = 0.33 PL(D) = 0.43 UCS = 6.1MPa PL(D) = 0.68 PL(A) = 0.21
695	2											
694	3	-from 3.05m, pale brown and pale blue										
		-from 3.55m, pale blue and red, low to medium strength, highly weathered										
		-from 3.7m, pale red and yellow										
		-from 3.9m, grey and pale orange										
693	4								C	100	59	
		-from 4.5m, blue and pale red										
		-from 4.7m to 4.95m, quartz band, low to medium strength, highly fractured										

RIG: EVH2100 **DRILLER:** S2S **LOGGED:** TBO/EAGL **CASING:** HQ to 1.8m

TYPE OF BORING: Continuous flight auger to 1.8m, coring to 6.00m

WATER OBSERVATIONS: Well installed after hole completion

REMARKS: Location coordinates are in MGA94 Zone 55. Surface levels and coordinates are approximate only and must not be relied upon

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U_x	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	▼	Water level	V	Shear vane (kPa)

Douglas Partners
Geotechnics / Environment / Groundwater

BOREHOLE LOG

CLIENT: School Infrastructure NSW
PROJECT: Proposed High School
LOCATION: Majara Street, Bungendore

SURFACE LEVEL: 697 AHD
EASTING: 722565
NORTHING: 6096143
DIP/AZIMUTH: 90°/--

BORE No: BH02
PROJECT No: 202107.03
DATE: 26/3/2021
SHEET 2 OF 2

RL	Depth (m)	Description of Strata	Degree of Weathering (EW HW MW SW FS FR)	Graphic Log	Rock Strength (Ex Low, Very Low, Low, Medium, High, Very High, Ex High)	Water	Fracture Spacing (m) (0.01, 0.05, 0.10, 0.50, 1.00)	Discontinuities (B - Bedding J - Joint S - Shear F - Fault)	Sampling & In Situ Testing: Type	Core Rec. %	RQD %	Test Results & Comments
692		from 4.95m, medium strength, moderately weathered, fractured SILTSTONE: fine grained, dry to moist, low strength, highly weathered, highly fractured *(continued)*						5m: End of run 5.19m: J, 20°, un, sm 5.375m: J, 30°, pl, sm 5.41m: J, 30°, un, ro 5.515m: J, 30°, ir, ro 5.66m: J, 30°, un, sm	C	100	91.5	PL(A) = 0.36 PL(D) = 0.29 PL(A) = 0.29 PL(D) = 0.46 UCS = 6.0MPa
691	6 6.0	Bore discontinued at 6.0m -limit of investigation						5.95m: J, 20°, pl, sm 6m: End of run				
690	7											
689	8											
688	9											

RIG: EVH2100 **DRILLER:** S2S **LOGGED:** TBO/EAGL **CASING:** HQ to 1.8m

TYPE OF BORING: Continuous flight auger to 1.8m, coring to 6.00m

WATER OBSERVATIONS: Well installed after hole completion

REMARKS: Location coordinates are in MGA94 Zone 55. Surface levels and coordinates are approximate only and must not be relied upon

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U_x	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	▼	Water level	V	Shear vane (kPa)

Douglas Partners
Geotechnics / Environment / Groundwater

BOREHOLE LOG

CLIENT: School Infrastructure NSW
PROJECT: Proposed High School
LOCATION: Majara Street, Bungendore

SURFACE LEVEL: 694.75 AHD
EASTING: 722468
NORTHING: 6096157
DIP/AZIMUTH: 90°/--

BORE No: BH01-T
PROJECT No: 202107.03
DATE: 25/3/2021
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water	Well Construction Details
694	0.3	TOPSOIL FILL/Silty CLAY (CL): low plasticity, dark brown, with rootlets, trace fine grained sand, moist to dry, w>PL, firm, TOPSOIL FILL		E	0.1		PID = 2.4		
	0.6	FILL/Silty CLAY (CL): low plasticity, brown and pale brown, trace fine gravel and fine to medium grained sand, moist to dry, w<PL, very stiff, FILL		D E	0.5		PID = 2		
		Silty CLAY (CL/CI): low to medium plasticity, yellow-pale brown, trace fine gravel, dry to moist, w<PL, hard, residual/extremely weathered siltstone		B S	0.8		6,10,22 N = 32		
	1	-from 0.9m, orange-pale brown		D E S	0.95 1.0 1.21		PID < 1 10,30/60 refusal		1
		-from 1.3m, orange-pale red							
693		-from 1.5m, hard, with rock fragments, extremely weathered siltstone							
	2			D E	2.0		PID < 1		2
		-from 2.4m, pale orange-grey		D S	2.5 2.63		30/130 refusal		
692	3 3.0	Bore discontinued at 3.0m -limit of investigation		D	3.0				3
691	4								4
690									

RIG: EVH2100 **DRILLER:** S2S **LOGGED:** TBO/EAGL **CASING:** N/A

TYPE OF BORING: Continuous flight auger to 3.0m

WATER OBSERVATIONS: No free groundwater observed

REMARKS: Location coordinates are in MGA94 Zone 55. Surface levels and coordinates are approximate only and must not be relied upon

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U_x	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	▼	Water level	V	Shear vane (kPa)

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Geotechnics / Environment / Groundwater

BOREHOLE LOG

CLIENT: School Infrastructure NSW
PROJECT: Proposed High School
LOCATION: Majara Street, Bungendore

SURFACE LEVEL: 695 AHD
EASTING: 722503
NORTHING: 6096153
DIP/AZIMUTH: 90°/--

BORE No: BH02-T
PROJECT No: 202107.03
DATE: 25/3/2021
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water	Well Construction Details
695		TOPSOIL FILL/Silty CLAY (CL): low plasticity, dark brown, with rootlets, trace fine grained sand, moist, w>PL, firm, TOPSOIL FILL		E	0.1		PID < 1		
	0.3	FILL/Silty SAND (SM): fine grained, brown and pale brown, low plasticity silt, moist to wet, loose to medium dense, FILL		D E	0.3		PID = 1.10		
	0.5	FILL/Silty CLAY (CL): low plasticity, brown and pale brown, trace fine gravel and fine to medium grained sand, dry to moist, w<PL, hard, FILL		D E S	0.5		PID < 1 6,30/130 refusal		
	0.7	Silty CLAY (CL/CI): low to medium plasticity, yellow-pale brown, trace fine gravel, dry to moist, w<PL, hard, residual/extremely weathered siltstone			0.78				
694	1			D E	1.0		PID = 1.4		1
		-from 1.3m, orange-pale red		U_{50}					
		-from 1.5m, with rock fragments, extremely weathered siltstone			1.4				
				D S	1.5		30/140 refusal		
					1.64				
693	2	-from 2.0m, pale red/orange-brown		D E	2.0		PID = 1.1		2
				S	2.5		30/85 refusal		
					2.59				
692	3	3.0 Bore discontinued at 3.0m -limit of investigation		D	3.0				3
691	4								4

RIG: EVH2100 **DRILLER:** S2S **LOGGED:** TBO/EAGL **CASING:** N/A

TYPE OF BORING: Continuous flight auger to 3.0m

WATER OBSERVATIONS: No free groundwater observed

REMARKS: Location coordinates are in MGA94 Zone 55. Surface levels and coordinates are approximate only and must not be relied upon

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U_x	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	▼	Water level	V	Shear vane (kPa)

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BOREHOLE LOG

CLIENT: School Infrastructure NSW
PROJECT: Proposed High School
LOCATION: Majara Street, Bungendore

SURFACE LEVEL: 697.5 AHD
EASTING: 722590
NORTHING: 6096147
DIP/AZIMUTH: 90°/--

BORE No: BH03
PROJECT No: 202107.03
DATE: 26/3/2021
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water	Well Construction Details
697	0.2	TOPSOIL FILL/Sandy CLAY (CL): low plasticity, brown, fine grained sand, with rootlets, moist, w>PL, stiff, TOPSOIL FILL		E	0.1		PID < 1		
	0.4	FILL/CLAY (CI): medium plasticity, pale brown-yellow, with fine to medium grained sand and low plasticity silt, dry to moist, w<PL, hard, FILL		D	0.3				
		Silty CLAY (CL/CI): low to medium plasticity, pale brown and orange, trace fine grained sand, dry to moist, w<PL, hard, residual		D E S	0.5		PID < 1 3,30 refusal		
					0.8				
696	1.0	SILTSTONE: fine grained, dry to moist, low strength, highly weathered, highly fractured		D E	1.0		PID < 1		1
		-from 1.5m, highly to moderately weathered, low to medium strength		D S	1.5 1.55		30/50 refusal		
	1.7	Bore discontinued at 1.7m -refusal							
695	2								2
	3								3
694	4								4
693									

RIG: EVH2100 **DRILLER:** S2S **LOGGED:** TBO/EAGL **CASING:** N/A

TYPE OF BORING: Continuous flight auger to 1.7m

WATER OBSERVATIONS: No free groundwater observed

REMARKS: Location coordinates are in MGA94 Zone 55. Surface levels and coordinates are approximate only and must not be relied upon

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U_x	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	▼	Water level	V	Shear vane (kPa)

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Geotechnics / Environment / Groundwater

BOREHOLE LOG

CLIENT: School Infrastructure NSW
PROJECT: Proposed High School
LOCATION: Majara Street, Bungendore

SURFACE LEVEL: 696.25 AHD
EASTING: 722514
NORTHING: 6096090
DIP/AZIMUTH: 90°/--

BORE No: BH04
PROJECT No: 202107.03
DATE: 29/3/2021
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water	Well Construction Details
696	0.2	TOPSOIL FILL/Silty CLAY (CL): low plasticity, dark brown, with rootlets, trace fine grained sand, moist, w>PL, firm, TOPSOIL FILL		E	0.1		PID < 1		
	0.4	FILL/CLAY (CI/CH): medium to high plasticity, dark brown and red, with low plasticity silt, moist, w~PL, stiff to very stiff, FILL		D E S	0.5 0.53		PID < 1 5,30 refusal		
	0.7	Silty CLAY (CI): medium plasticity, pale brown, dry to moist, w<PL, hard, possibly alluvium							
	1 1.0	Clayey SILT (ML): low plasticity, pale brown and grey, dry to moist, w<PL, hard, possibly alluvium		D E	1.0		PID < 1		1
695	1.3	Silty CLAY (CL/CI): low to medium plasticity, pale brown and grey, dry to moist, w<PL, hard, extremely weathered siltstone							
		SILTSTONE: fine grained, pale brown and grey, dry to moist, very low strength, highly weathered, highly fractured		D S	1.5 1.78		19,30/130 refusal		
	2			D E	2.0		PID < 1		2
694		-from 2.2m, pale red and grey							
		-from 2.5m, yellow and grey		S	2.5 2.85		15,30/50 refusal		
	3 3.0	Bore discontinued at 3.0m -limit of investigation							3
693									
	4								4
692									

RIG: EVH2100 **DRILLER:** S2S **LOGGED:** TBO **CASING:** N/A

TYPE OF BORING: Continuous flight auger to 3.0m

WATER OBSERVATIONS: No free groundwater observed

REMARKS: Location coordinates are in MGA94 Zone 55. Surface levels and coordinates are approximate only and must not be relied upon

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U_x	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	▼	Water level	V	Shear vane (kPa)

Douglas Partners
Geotechnics / Environment / Groundwater

BOREHOLE LOG

CLIENT: School Infrastructure NSW
PROJECT: Proposed High School
LOCATION: Majara Street, Bungendore

SURFACE LEVEL: 697 AHD
EASTING: 722555
NORTHING: 6096087
DIP/AZIMUTH: 90°/--

BORE No: BH05
PROJECT No: 202107.03
DATE: 26/3/2021
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water	Well Construction Details
697		TOPSOIL FILL/Sandy CLAY (CL): low plasticity, brown, fine grained sand, with rootlets, moist, w>PL, stiff,		E	0.1		PID < 1		
	0.2	TOPSOIL FILL							
		FILL/Silty SAND (SM): fine grained, brown and pale brown, low plasticity silt, moist to wet, loose to medium dense, FILL		D	0.3				
	0.4								
		FILL/Silty CLAY (CI): medium plasticity, brown, trace fine to coarse grained sand, moist to dry, w<PL, very stiff, FILL		D E	0.5		PID < 1		
	0.6								
		Silty CLAY (CL/CI): low to medium plasticity, pale brown and orange, trace fine grained sand, dry to moist, w<PL, very stiff, residual		S			3,7,11 N = 18		
696	1				0.95				
		-from 1.0m, extremely weathered siltstone		D E	1.0		PID < 1		1
	1.4								
		SILTSTONE: fine grained, pale brown, dry to moist, low strength, highly weathered, highly fractured		D	1.5				
		-from 1.7m, grey and pale brown		S			8,24,30/130 refusal		
695	2				1.93				
				D E	2.0		PID < 1		2
		-from 2.5m, pale brown and pale red			2.5				
				S			6,22,30/120 refusal		
694	3				2.92				
	3.0	Bore discontinued at 3.0m		D E	3.0		PID < 1		3
		-limit of investigation							
693	4								4

RIG: EVH2100 **DRILLER:** S2S **LOGGED:** TBO **CASING:** N/A

TYPE OF BORING: Continuous flight auger to 3.0m

WATER OBSERVATIONS: No free groundwater observed

REMARKS: Location coordinates are in MGA94 Zone 55. Surface levels and coordinates are approximate only and must not be relied upon

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U_x	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	▼	Water level	V	Shear vane (kPa)

Douglas Partners
Geotechnics / Environment / Groundwater

BOREHOLE LOG

CLIENT: School Infrastructure NSW
PROJECT: Proposed High School
LOCATION: Majara Street, Bungendore

SURFACE LEVEL: 697.5 AHD
EASTING: 722592
NORTHING: 6096079
DIP/AZIMUTH: 90°/--

BORE No: BH06
PROJECT No: 202107.03
DATE: 26/3/2021
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water	Well Construction Details
697	0.2	TOPSOIL FILL/Sandy CLAY (CL): low plasticity, brown, fine grained sand, with rootlets, moist, w>PL, stiff, TOPSOIL FILL		E	0.1		PID < 1		
	0.4	FILL/CLAY (CI): medium plasticity, pale brown-yellow, with fine to medium grained sand and low plasticity silt, dry to moist, w<PL, stiff, FILL		D	0.3				
	0.5	Silty CLAY (CL): low plasticity, pale brown, moist, w<PL, stiff to very stiff, residual		D E	0.5		PID < 1		
		Silty CLAY (CL/CI): low to medium plasticity, pale brown and orange, trace fine grained sand, dry to moist, w<PL, stiff, residual		B S	0.8		3,5,30 N = 35		
	1.0	-from 0.7m, pale brown and grey, extremely weathered siltstone		D E	0.95 1.0		PID < 1		
696		SILTSTONE: fine grained, dry to moist, low strength, highly weathered, highly fractured		U_{50}	1.4				
				D S	1.5 1.65		30/140 refusal		
695				D E S	2.5 2.7		PID < 1 15,30/50 refusal		
	3.0	Bore discontinued at 3.0m -limit of investigation		D E	3.0		PID < 1		
694									
693									

RIG: EVH2100 **DRILLER:** S2S **LOGGED:** TBO **CASING:** N/A

TYPE OF BORING: Continuous flight auger to 3.0m

WATER OBSERVATIONS: No free groundwater observed

REMARKS: Location coordinates are in MGA94 Zone 55. Surface levels and coordinates are approximate only and must not be relied upon

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U_x	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	▼	Water level	V	Shear vane (kPa)

Douglas Partners
Geotechnics / Environment / Groundwater

BOREHOLE LOG

CLIENT: School Infrastructure NSW
PROJECT: Proposed High School
LOCATION: Majara Street, Bungendore

SURFACE LEVEL: 696.5 AHD
EASTING: 722499
NORTHING: 6096034
DIP/AZIMUTH: 90°/--

BORE No: BH07
PROJECT No: 202107.03
DATE: 30/3/2021
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water	Well Construction Details
696	0.2	TOPSOIL FILL/Silty CLAY (CL): low plasticity, dark brown, with rootlets, trace fine grained sand, moist, w>PL, firm, TOPSOIL FILL		E	0.1		PID < 1		
	0.3	FILL/Silty CLAY (CL): low plasticity, dark brown, with fine grained sand and rootlets, moist to dry, w<PL, firm to stiff, FILL		D	0.5		PID < 1		
		Silty CLAY (CL/CI): low to medium plasticity, yellow/pale brown, with fine to coarse grained sand, dry to moist, w<PL, hard		E					
		-from 0.6m, yellow and pale red, extremely weathered siltstone		S			7,15,30/120 refusal		
					0.92				
	1			D	1.0		PID < 1		1
695		-from 1.5m, pale red and pale brown		E					
				D	1.5				
				S			24,30/60 refusal		
					1.86				
	2			D	2.0		PID < 1		2
694				E					
					2.5				
				S			18,30/75 refusal		
					2.88				
	3								3
	3.0	Bore discontinued at 3.0m -limit of investigation							
693									
	4								4
692									

RIG: EVH2100 **DRILLER:** S2S **LOGGED:** TBO **CASING:** N/A

TYPE OF BORING: Continuous flight auger to 3.0m

WATER OBSERVATIONS: No free groundwater observed

REMARKS: Location coordinates are in MGA94 Zone 55. Surface levels and coordinates are approximate only and must not be relied upon

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U_x	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	▼	Water level	V	Shear vane (kPa)

Douglas Partners
Geotechnics / Environment / Groundwater

BOREHOLE LOG

CLIENT: School Infrastructure NSW
PROJECT: Proposed High School
LOCATION: Majara Street, Bungendore

SURFACE LEVEL: 697 AHD
EASTING: 722515
NORTHING: 6096032
DIP/AZIMUTH: 90°/--

BORE No: BH08
PROJECT No: 202107.03
DATE: 29/3/2021
SHEET 1 OF 2

RL	Depth (m)	Description of Strata	Degree of Weathering	Graphic Log	Rock Strength	Water	Fracture Spacing (m)	Discontinuities (B - Bedding, J - Joint, S - Shear, F - Fault)	Sampling & In Situ Testing: Type	Core Rec. %	RQD %	Test Results & Comments
697	0.2	TOPSOIL FILL/Silty CLAY (CL): low plasticity, dark brown, with rootlets, trace fine grained sand, moist, w>PL, firm, TOPSOIL FILL							E			PID < 1
		FILL/Silty CLAY (CL): low plasticity, brown/grey, with rootlets, trace fine to coarse grained sand, moist to dry, w~PL, very stiff, FILL							D E			PID < 1
	0.7	Silty CLAY (CI/CH): medium to high plasticity, yellow and brown, with siltstone gravel, dry to moist, w<PL, very stiff to hard, extremely weathered siltstone							S			5,18,30/140 refusal
696	1								D E			PID < 1
	1.2	SILTSTONE: fine grained, pale brown and grey, dry to moist, low strength, highly weathered, fractured							U			
								1.5m: - 1.57m: too fractured	D E S			PID < 1 30 refusal
		-from 1.65m, yellow-pale red and grey						1.57m: J, 10°, ir, ro, cly co 2mm 1.625m: J, 10°, ir, sm, cly co 2mm 1.665m: J, 10°, pl, sm 1.75m: J, 40°, pl, he 1.795m: J, 20°, ir, sm 1.95m: J, 60°, pl, sm	C	100	63	PL(A) = 0.22 PL(D) = 0.43
695	2	-from 2.1m, pale red-yellow and grey						2.11m: J, 30°, ir, ro 2.12m: - 2.20m: too fractured to distinguish 2.2m: End of run 2.21m: - 2.28m: too fractured to distinguish 2.28m: J, 10°, pl, sm, cly vn 2.32m: J, 80°, pl, sm, cly vn 2.37m: - 3.10m: J, generally 15°-45°, or 80°, pl, or un, sm, every 0.05m	C	100	0	PL(D) = 0.14
694	3	-from 3.1m, yellow and pale red						3.18m: J, 330°, pl, cly co 2mm 3.25m: End of run 3.28m: J, 60°, un, he 3.29m: - 3.40m: too fractured to distinguish 3.4m: - 3.70m: J, generally 20°-30°, pl, sm 3.65m: J, 70°, pl, sm 3.7m: - 3.77m: too fractured to distinguish 3.85m: J, 30°, ir, ro 3.86m: - 4.10m: too fractured to distinguish	C	100	0	PL(A) = 0.23 PL(D) = 0.23
		-from 3.3m, red and yellow, highly fractured										
		-from 3.7m, pale yellow and grey										
693	4							4.1m: End of run 4.11m: - 4.25m: too fractured to distinguish 4.25m: CORE LOSS: 50mm 4.45m: J, 45°, pl, sm 4.47m: - 4.58m: too fractured to distinguish	C	92	40	PL(D) = 0.15
	4.3	-from 4.3m, fractured						4.71m: J, 10°, ir, ro 4.72m: - 4.80m: drillers break 4.8m: End of run	C	100	0	PL(A) = 0.05
		-from 4.9m, highly fractured										

RIG: EVH2100 **DRILLER:** S2S **LOGGED:** TBO **CASING:** HQ to 1.5m

TYPE OF BORING: Continuous flight auger to 1.5m, coring to 6.5m

WATER OBSERVATIONS: Well installed after hole completion

REMARKS: Location coordinates are in MGA94 Zone 55. Surface levels and coordinates are approximate only and must not be relied upon

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U_x	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	▼	Water level	V	Shear vane (kPa)

Douglas Partners
Geotechnics / Environment / Groundwater

BOREHOLE LOG

CLIENT: School Infrastructure NSW
PROJECT: Proposed High School
LOCATION: Majara Street, Bungendore

SURFACE LEVEL: 697 AHD
EASTING: 722515
NORTHING: 6096032
DIP/AZIMUTH: 90°/--

BORE No: BH08
PROJECT No: 202107.03
DATE: 29/3/2021
SHEET 2 OF 2

RL	Depth (m)	Description of Strata	Degree of Weathering (EW HW MW SW FS FR)	Graphic Log	Rock Strength (Ex Low, Very Low, Low, Medium, High, Very High, Ex High)	Water	Fracture Spacing (m) (0.01, 0.05, 0.10, 0.50, 1.00)	Discontinuities (B - Bedding J - Joint S - Shear F - Fault)	Sampling & In Situ Testing: Type	Core Rec. %	RQD %	Test Results & Comments
692		SILTSTONE: fine grained, pale brown and grey, dry to moist, low strength, highly weathered, fractured *(continued)* -from 5.3m, grey and pale brown -from 5.5m, fractured						4.81m: - 4.95m: too fractured to distinguish 5m: J, 5°, pl, ro 5.01m: - 5.15m: cly 5.15m: - 5.41m: J, generally 10°-30°, pl, ro, 30-70mm 5.41m: - 5.50m: drillers break 5.5m: End of run 5.51m: - 5.60m: too fractured to distinguish 5.69m: J, 10°, un, ro, fe stn, cly co 4mm 5.74m: J, 30°, un, ro 5.82m: J, 30°, ir, ro 5.83m: - 5.86m: too fractured to distinguish 5.96m: J, 20°, pl, ro, cly vn 5.97m: - 6.00m: drillers break	C	100	0	
691	6 6.0	Bore discontinued at 6.0m -limit of investigation							C	100	20	PL(D) = 0.09 PL(A) = 0.07 PL(D) = 0.14
690	7											
689	8											
688	9											

RIG: EVH2100 **DRILLER:** S2S **LOGGED:** TBO **CASING:** HQ to 1.5m

TYPE OF BORING: Continuous flight auger to 1.5m, coring to 6.5m

WATER OBSERVATIONS: Well installed after hole completion

REMARKS: Location coordinates are in MGA94 Zone 55. Surface levels and coordinates are approximate only and must not be relied upon

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U_x	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	▼	Water level	V	Shear vane (kPa)

Douglas Partners
Geotechnics / Environment / Groundwater

BOREHOLE LOG

CLIENT: School Infrastructure NSW
PROJECT: Proposed High School
LOCATION: Majara Street, Bungendore

SURFACE LEVEL: 696.25 AHD
EASTING: 722471
NORTHING: 6095980
DIP/AZIMUTH: 90°/--

BORE No: BH09
PROJECT No: 202107.03
DATE: 30/3/2021
SHEET 1 OF 2

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water	Well Construction Details
696	0.2	TOPSOIL FILL/Silty CLAY (CL): low plasticity, dark brown, with rootlets, trace fine grained sand, moist, w>PL, firm, TOPSOIL FILL		E	0.1		PID < 1		Close well with concrete capping at gatic over a 50mm Torque plug
	0.4	FILL/Silty CLAY (CL): low plasticity, dark brown/dark grey, with fine grained sand, fine to medium gravel, and rootlets, moist, w~PL, firm to stiff, FILL							From 0.0m to 0.5m, filling
	0.6	CLAY (CH): high plasticity, pale brown-yellow, with low plasticity silt, trace fine gravel,moist, w<PL, stiff		D E	0.5		PID < 1		
		Silty CLAY (CI): medium plasticity, pale yellow-brown, dry to moist, w<PL, very stiff, residual		S			2,3,14 N = 17		From 0.5m to 1.0m, bentoile plug
	1	-from 1.0m, very stiff		D E	0.95 1.0		PID < 1		1
695		-from 1.3m, yellow and red							
		-from 1.5m, extremely weathered siltstone		D	1.5				
				S			8,16,30 N = 46		
	2			D E	1.95 2.0		PID < 1		2
694				D	2.5				
				S			9,19,30 N = 49		
	3	3.0 SILTSTONE: fine grained, yellow-brown, dry, very low strength, highly weathered, highly fractured to fractured			2.95				3
693									From 1.0m to 6.0m, wash graded sand
									From 1.5m to 6.0m, 50mm diameter class 18 PVC pipe screen and sock
	4			D E	4.0		PID < 1		4
				S			7,30 refusal		
692					4.3				
				D	5.0		PID < 1		

RIG: EVH2100 **DRILLER:** S2S **LOGGED:** TBO **CASING:** N/A

TYPE OF BORING: Continuous flight auger to 6.0m

WATER OBSERVATIONS: Well installed after hole completion

REMARKS: Location coordinates are in MGA94 Zone 55. Surface levels and coordinates are approximate only and must not be relied upon

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U_x	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	▼	Water level	V	Shear vane (kPa)

Douglas Partners
Geotechnics / Environment / Groundwater

BOREHOLE LOG

CLIENT: School Infrastructure NSW
PROJECT: Proposed High School
LOCATION: Majara Street, Bungendore

SURFACE LEVEL: 696.25 AHD
EASTING: 722471
NORTHING: 6095980
DIP/AZIMUTH: 90°/--

BORE No: BH09
PROJECT No: 202107.03
DATE: 30/3/2021
SHEET 2 OF 2

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water	Well Construction Details
691		SILTSTONE: fine grained, yellow-brown, dry, very low strength, highly weathered, highly fractured to fractured *(continued)*		E					
				S	5.5		14,30 refusal		
					5.8				End cap at 6.0m
	6 6.0	Bore discontinued at 6.0m -limit of investigation		D E	6.0		PID < 1		6
690									
	7								7
689									
	8								8
688									
	9								9
687									

RIG: EVH2100 **DRILLER:** S2S **LOGGED:** TBO **CASING:** N/A

TYPE OF BORING: Continuous flight auger to 6.0m

WATER OBSERVATIONS: Well installed after hole completion

REMARKS: Location coordinates are in MGA94 Zone 55. Surface levels and coordinates are approximate only and must not be relied upon

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U_x	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	▼	Water level	V	Shear vane (kPa)

Douglas Partners
Geotechnics / Environment / Groundwater

BOREHOLE LOG

CLIENT: School Infrastructure NSW
PROJECT: Proposed High School
LOCATION: Majara Street, Bungendore

SURFACE LEVEL: 697.25 AHD
EASTING: 722506
NORTHING: 6095987
DIP/AZIMUTH: 90°/--

BORE No: BH10
PROJECT No: 202107.03
DATE: 30/3/2021
SHEET 1 OF 2

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water	Well Construction Details
697	0.2	TOPSOIL FILL/Silty CLAY (CL): low plasticity, dark brown, with rootlets, trace fine grained sand, moist, w>PL, firm, TOPSOIL FILL		E	0.1		PID < 1		
		FILL/Silty CLAY (CI): medium plasticity, pale brown, trace fine grained sand, moist to dry, w~PL, very stiff, FILL		D E	0.5		PID < 1		
	0.7	Silty CLAY (CL/CI): low to medium plasticity, pale brown, with fine to coarse grained sand, dry to moist, w<PL, very stiff		S			3,11,15 N = 26		
696	1			D E U_{50}	0.95 1.0		PID < 1		1
		-from 1.3m, trace fine gravel							
		-from 1.5m, hard, extremely weathered siltstone		D	1.5				
				S			8,16,30 N = 46		
695	2			D E	1.95 2.0		PID < 1		2
				D S	2.5 2.55		30/50 refusal		
694	3			D E	3.0		PID < 1		3
	3.5	SILTSTONE: fine grained, pale red and pale brown, dry to moist, very low to low strength, highly weathered, highly fractured							
693	4			D E	4.0		PID < 1		4
				S	4.5 4.65		30 refusal		
				D	5.0		PID < 1		

RIG: EVH2100 **DRILLER:** S2S **LOGGED:** EAGL **CASING:** N/A

TYPE OF BORING: Continuous flight auger to 6.0m

WATER OBSERVATIONS: No free groundwater observed

REMARKS: Location coordinates are in MGA94 Zone 55. Surface levels and coordinates are approximate only and must not be relied upon

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U_x	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	▼	Water level	V	Shear vane (kPa)

Douglas Partners
Geotechnics / Environment / Groundwater

BOREHOLE LOG

CLIENT: School Infrastructure NSW
PROJECT: Proposed High School
LOCATION: Majara Street, Bungendore

SURFACE LEVEL: 697.25 AHD
EASTING: 722506
NORTHING: 6095987
DIP/AZIMUTH: 90°/--

BORE No: BH10
PROJECT No: 202107.03
DATE: 30/3/2021
SHEET 2 OF 2

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water	Well Construction Details
692		SILTSTONE: fine grained, pale red and pale brown, dry to moist, very low to low strength, highly weathered, highly fractured *(continued)*		E					
		-from 5.0m, pale brown-yellow			5.5				
				S			15,30/75 refusal		
					5.73				
	6 6.0	Bore discontinued at 6.0m -limit of investigation							6
691									
	7								7
690									
	8								8
689									
	9								9
688									

RIG: EVH2100 **DRILLER:** S2S **LOGGED:** EAGL **CASING:** N/A

TYPE OF BORING: Continuous flight auger to 6.0m

WATER OBSERVATIONS: No free groundwater observed

REMARKS: Location coordinates are in MGA94 Zone 55. Surface levels and coordinates are approximate only and must not be relied upon

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U_x	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	▼	Water level	V	Shear vane (kPa)

Douglas Partners
Geotechnics / Environment / Groundwater

Appendix J

Chain of Custody
Laboratory Sample Receipt Advice
Laboratory Certificates

Douglas Partners
Geotechnics / Environment / Groundwater

CHAIN OF CUSTODY DESPATCH SHEET

Project No:	202107.01	**Suburb:**	Bungendore	**To:**	ALS 277-289 Woodpark Road Smithfield NSW Australia 2164
Project Name:	Bungendore Highschool	**Order Number**	155060		
Project Manager:	SDG	**Sampler:**	EAGL	**Attn:**	
Emails:	shannon.goodsell@douglaspartners.com.au	elliott.luck@douglaspartners.com.au		**Phone:**	
Date Required:	Standard			**Email:**	
Prior Storage:	Fridge	Do samples contain 'potential' HBM?	No	(If YES, then handle, transport and store in accordance with FPM HAZID)	

Sample ID	Lab ID	Date Sampled	Sample Type (S - soil, W - water)	Container Type (G - glass, P - plastic)	Analytes: Heavy Metals	OCP/OPP PCB	TRH and BTEX	PAH	Total Phenols	PCB	Asbestos	Hold		Notes/preservation
RR1	1	25/03/21	S	G	X	X	X	X	X	X	X			
RR2	2	25/03/21	S	G	X	X	X	X	X	X	X			
RR3	3	29/03/21	S	G	X	X	X	X	X	X	X			
RR4	4	30/03/21	S	G								X		
RR5	5	30/03/21	S	G								X		
PQL (S) mg/kg														**ANZECC PQLs req'd for all water analytes** ☐

Subcon / Forward Lab / Split WO
Lab / Analysis: Asbestos → Newcastle
Commenced By / Date:
Relinquished By / Date:
Courier / Courier:
Way Bill:
Advise by PO / Internal Sheet

Environmental Division
Sydney
Work Order Reference
ES2112460

Telephone - 61-2-8784 8555

PQL = practical quantitation limit. If none given, default to Laboratory Method Detection Limit

Metals to Analyse: 8HM unless specified here:

Lab Report/Reference No:

Total number of samples in container: | **Relinquished by:** EAGL | **Transported to laboratory by:**

Send Results to: Douglas Partners Pty Ltd | **Address** shannon.goodsell@douglaspartners.com.au | **Phone:** 02 6260 2788 **Fax:**

Signed: | **Received by:** | **Date & Time:**

ALS Environmental

SAMPLE RECEIPT NOTIFICATION (SRN)

Work Order : **ES2112460**

Client	: **DOUGLAS PARTNERS PTY LTD**	Laboratory	: Environmental Division Sydney
Contact	: SHANNON GOODSELL	Contact	: Sepan Mahamad
Address	: 96 HERMITAGE ROAD WEST RYDE NSW, AUSTRALIA 2114	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
E-mail	: shannon.goodsell@douglaspartners .com.au	E-mail	: Sepan.Mahamad@ALSGlobal.com
Telephone	: +61 02 9809 0666	Telephone	: +61 2 8784 8555
Facsimile	: +61 02 9809 4095	Facsimile	: +61-2-8784 8500
Project	: 202107.01 Bungendore Highschool	Page	: 1 of 2
Order number	: 155060	Quote number	: EM2017DOUPAR0002 (EN/222)
C-O-C number	: ----	QC Level	: NEPM 2013 B3 & ALS QC Standard
Site	: Bungendore		
Sampler	: EAGL		

Dates

Date Samples Received	: 07-Apr-2021 10:50	Issue Date	: 10-Apr-2021
Client Requested Due Date	: 19-Apr-2021	Scheduled Reporting Date	: **19-Apr-2021**

Delivery Details

Mode of Delivery	: Undefined	Security Seal	: Not Available
No. of coolers/boxes	: ----	Temperature	: 20.6
Receipt Detail	:	No. of samples received / analysed	: 5 / 3

General Comments

- This report contains the following information:
  - Sample Container(s)/Preservation Non-Compliances
  - Summary of Sample(s) and Requested Analysis
  - Proactive Holding Time Report
  - Requested Deliverables
- **Please refer to the Proactive Holding Time Report table below which summarises breaches of recommended holding times that have occurred prior to samples/instructions being received at the laboratory. The absence of this summary table indicates that all samples have been received within the recommended holding times for the analysis requested.**
- **Sample(s) requiring volatile organic compound analysis received in airtight containers (ZHE).**
- **Asbestos analysis has not been added as no seperate snap lock bags received.**
- Please direct any queries you have regarding this work order to the above ALS laboratory contact.
- Analytical work for this work order will be conducted at ALS Sydney.
- Sample Disposal - Aqueous (3 weeks), Solid (2 months ± 1 week) from receipt of samples.
- Please be aware that APHA/NEPM recommends water and soil samples be chilled to less than or equal to 6°C for chemical analysis, and less than or equal to 10°C but unfrozen for Microbiological analysis. Where samples are received above this temperature, it should be taken into consideration when interpreting results. Refer to ALS EnviroMail 85 for ALS recommendations of the best practice for chilling samples after sampling and for maintaining a cool temperature during transit.

Sample Container(s)/Preservation Non-Compliances

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

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

Summary of Sample(s) and Requested Analysis

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

Matrix: **SOIL**

Laboratory sample ID	Sampling date / time	Sample ID	(On Hold) SOIL No analysis requested	SOIL - EA055-103 Moisture Content	SOIL - EP035SF (solids) Total Phenol by Segmented Flow Analyser	SOIL - S-16 TRH/BTEXN/PAH/OC/OP/PCB/8Metals
ES2112460-001	25-Mar-2021 00:00	RR1		✓	✓	✓
ES2112460-002	25-Mar-2021 00:00	RR2		✓	✓	✓
ES2112460-003	29-Mar-2021 00:00	RR3		✓	✓	✓
ES2112460-004	30-Mar-2021 00:00	RR4	✓			
ES2112460-005	30-Mar-2021 00:00	RR5	✓			

Proactive Holding Time Report

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

Requested Deliverables

ACCOUNTS PAYABLE INVOICES

- A4 - AU Tax Invoice (INV)	Email	apinvoices@douglaspartners.com.au

ELLIOT LUCK

- *AU Certificate of Analysis - NATA (COA)	Email	elliot.luck@douglaspartners.com.au
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	elliot.luck@douglaspartners.com.au
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	elliot.luck@douglaspartners.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	elliot.luck@douglaspartners.com.au
- Chain of Custody (CoC) (COC)	Email	elliot.luck@douglaspartners.com.au
- EDI Format - ESDAT (ESDAT)	Email	elliot.luck@douglaspartners.com.au
- EDI Format - XTab (XTAB)	Email	elliot.luck@douglaspartners.com.au

SHANNON GOODSELL

- *AU Certificate of Analysis - NATA (COA)	Email	shannon.goodsell@douglaspartners.com.au
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	shannon.goodsell@douglaspartners.com.au
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	shannon.goodsell@douglaspartners.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	shannon.goodsell@douglaspartners.com.au
- Chain of Custody (CoC) (COC)	Email	shannon.goodsell@douglaspartners.com.au
- EDI Format - ESDAT (ESDAT)	Email	shannon.goodsell@douglaspartners.com.au
- EDI Format - XTab (XTAB)	Email	shannon.goodsell@douglaspartners.com.au

ALS Environmental

CERTIFICATE OF ANALYSIS

Work Order	: **ES2112460**	Page	: 1 of 7
Client	: **DOUGLAS PARTNERS PTY LTD**	Laboratory	: Environmental Division Sydney
Contact	: SHANNON GOODSELL	Contact	: Sepan Mahamad
Address	: 96 HERMITAGE ROAD WEST RYDE NSW, AUSTRALIA 2114	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
Telephone	: +61 02 9809 0666	Telephone	: +61 2 8784 8555
Project	: 202107.01 Bungendore Highschool	Date Samples Received	: 07-Apr-2021 10:50
Order number	: 155060	Date Analysis Commenced	: 12-Apr-2021
C-O-C number	: ----	Issue Date	: 20-Apr-2021 17:22
Sampler	: EAGL		
Site	: Bungendore		
Quote number	: EN/222		
No. of samples received	: 5		
No. of samples analysed	: 3		

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

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

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

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

Signatories

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

Signatories	*Position*	*Accreditation Category*
Ashesh Patel	Senior Chemist	Sydney Inorganics, Smithfield, NSW
Edwandy Fadjar	Organic Coordinator	Sydney Inorganics, Smithfield, NSW
Edwandy Fadjar	Organic Coordinator	Sydney Organics, Smithfield, NSW
Franco Lentini	LCMS Coordinator	Sydney Inorganics, Smithfield, NSW
Ivan Taylor	Analyst	Sydney Inorganics, Smithfield, NSW

General Comments

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

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

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

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contact for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting
ø = ALS is not NATA accredited for these tests.
~ = Indicates an estimated value.

- Benzo(a)pyrene Toxicity Equivalent Quotient (TEQ) per the NEPM (2013) is the sum total of the concentration of the eight carcinogenic PAHs multiplied by their Toxicity Equivalence Factor (TEF) relative to Benzo(a)pyrene. TEF values are provided in brackets as follows: Benz(a)anthracene (0.1), Chrysene (0.01), Benzo(b+j) & Benzo(k)fluoranthene (0.1), Benzo(a)pyrene (1.0), Indeno(1.2.3.cd)pyrene (0.1), Dibenz(a.h)anthracene (1.0), Benzo(g.h.i)perylene (0.01). Less than LOR results for 'TEQ Zero' are treated as zero, for 'TEQ 1/2LOR' are treated as half the reported LOR, and for 'TEQ LOR' are treated as being equal to the reported LOR. Note: TEQ 1/2LOR and TEQ LOR will calculate as 0.6mg/Kg and 1.2mg/Kg respectively for samples with non-detects for all of the eight TEQ PAHs.
- EP080: Where reported, Total Xylenes is the sum of the reported concentrations of m&p-Xylene and o-Xylene at or above the LOR.
- EP068: Where reported, Total Chlordane (sum) is the sum of the reported concentrations of cis-Chlordane and trans-Chlordane at or above the LOR.
- EP068: Where reported, Total OCP is the sum of the reported concentrations of all Organochlorine Pesticides at or above LOR.
- EP075(SIM): Where reported, Total Cresol is the sum of the reported concentrations of 2-Methylphenol and 3- & 4-Methylphenol at or above the LOR.

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	RR1	RR2	RR3	----	----
			Sampling date / time	25-Mar-2021 00:00	25-Mar-2021 00:00	29-Mar-2021 00:00	----	----
Compound	CAS Number	LOR	Unit	ES2112460-001	ES2112460-002	ES2112460-003	--------	--------
				Result	Result	Result	----	----
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	**17.1**	**14.2**	**7.4**	----	----
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	<5	**11**	<5	----	----
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	----	----
Chromium	7440-47-3	2	mg/kg	**14**	**41**	**21**	----	----
Copper	7440-50-8	5	mg/kg	<5	**16**	**19**	----	----
Lead	7439-92-1	5	mg/kg	**10**	**5**	<5	----	----
Nickel	7440-02-0	2	mg/kg	**2**	**18**	**9**	----	----
Zinc	7440-66-6	5	mg/kg	**7**	**21**	**22**	----	----
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	----	----
EP035SF: Total Phenol by Segmented Flow Analyser								
Phenols (Total)	----	1	mg/kg	<1	<1	<1	----	----
EP066: Polychlorinated Biphenyls (PCB)								
Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	<0.1	----	----
EP068A: Organochlorine Pesticides (OC)								
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
^ Total Chlordane (sum)	----	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
^ Endosulfan (sum)	115-29-7	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	RR1	RR2	RR3	----	----
			Sampling date / time	25-Mar-2021 00:00	25-Mar-2021 00:00	29-Mar-2021 00:00	----	----
Compound	CAS Number	LOR	Unit	ES2112460-001	ES2112460-002	ES2112460-003	--------	--------
				Result	Result	Result	----	----
EP068A: Organochlorine Pesticides (OC) - Continued								
Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	<0.2	----	----
Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	<0.2	----	----
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
EP068B: Organophosphorus Pesticides (OP)								
Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	<0.2	----	----
Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2	<0.2	----	----
Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	<0.2	----	----
Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	<0.5	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	RR1	RR2	RR3	----	----
			Sampling date / time	25-Mar-2021 00:00	25-Mar-2021 00:00	29-Mar-2021 00:00	----	----
Compound	CAS Number	LOR	Unit	ES2112460-001	ES2112460-002	ES2112460-003	--------	--------
				Result	Result	Result	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued								
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	**0.6**	**0.6**	**0.6**	----	----
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	**1.2**	**1.2**	**1.2**	----	----
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	10	mg/kg	<10	<10	<10	----	----
C10 - C14 Fraction	----	50	mg/kg	<50	<50	<50	----	----
C15 - C28 Fraction	----	100	mg/kg	<100	<100	<100	----	----
C29 - C36 Fraction	----	100	mg/kg	<100	<100	<100	----	----
^ C10 - C36 Fraction (sum)	----	50	mg/kg	<50	<50	<50	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	<10	----	----
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<10	<10	<10	----	----
>C10 - C16 Fraction	----	50	mg/kg	<50	<50	<50	----	----
>C16 - C34 Fraction	----	100	mg/kg	<100	<100	<100	----	----
>C34 - C40 Fraction	----	100	mg/kg	<100	<100	<100	----	----
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	<50	<50	----	----
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	<50	<50	<50	----	----
EP080: BTEXN								
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	<0.2	----	----
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	<0.5	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	RR1	RR2	RR3	----	----
			Sampling date / time	25-Mar-2021 00:00	25-Mar-2021 00:00	29-Mar-2021 00:00	----	----
Compound	CAS Number	LOR	Unit	ES2112460-001	ES2112460-002	ES2112460-003	--------	--------
				Result	Result	Result	----	----
EP080: BTEXN - Continued								
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
^ Sum of BTEX	----	0.2	mg/kg	<0.2	<0.2	<0.2	----	----
^ Total Xylenes	----	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Naphthalene	91-20-3	1	mg/kg	<1	<1	<1	----	----
EP066S: PCB Surrogate								
Decachlorobiphenyl	2051-24-3	0.1	%	**90.1**	**89.2**	**84.1**	----	----
EP068S: Organochlorine Pesticide Surrogate								
Dibromo-DDE	21655-73-2	0.05	%	**114**	**113**	**112**	----	----
EP068T: Organophosphorus Pesticide Surrogate								
DEF	78-48-8	0.05	%	**101**	**90.3**	**84.9**	----	----
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	0.5	%	**81.9**	**91.0**	**83.6**	----	----
2-Chlorophenol-D4	93951-73-6	0.5	%	**80.5**	**90.3**	**83.9**	----	----
2.4.6-Tribromophenol	118-79-6	0.5	%	**56.3**	**67.3**	**55.3**	----	----
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	0.5	%	**92.0**	**101**	**94.5**	----	----
Anthracene-d10	1719-06-8	0.5	%	**87.8**	**100**	**93.7**	----	----
4-Terphenyl-d14	1718-51-0	0.5	%	**91.1**	**102**	**94.9**	----	----
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.2	%	**82.1**	**79.0**	**77.9**	----	----
Toluene-D8	2037-26-5	0.2	%	**85.6**	**83.5**	**78.6**	----	----
4-Bromofluorobenzene	460-00-4	0.2	%	**88.8**	**88.6**	**81.7**	----	----

Surrogate Control Limits

Sub-Matrix: **SOIL**

Compound	CAS Number	Recovery Limits (%) Low	High
EP066S: PCB Surrogate			
Decachlorobiphenyl	2051-24-3	39	149
EP068S: Organochlorine Pesticide Surrogate			
Dibromo-DDE	21655-73-2	49	147
EP068T: Organophosphorus Pesticide Surrogate			
DEF	78-48-8	35	143
EP075(SIM)S: Phenolic Compound Surrogates			
Phenol-d6	13127-88-3	63	123
2-Chlorophenol-D4	93951-73-6	66	122
2.4.6-Tribromophenol	118-79-6	40	138
EP075(SIM)T: PAH Surrogates			
2-Fluorobiphenyl	321-60-8	70	122
Anthracene-d10	1719-06-8	66	128
4-Terphenyl-d14	1718-51-0	65	129
EP080S: TPH(V)/BTEX Surrogates			
1.2-Dichloroethane-D4	17060-07-0	73	133
Toluene-D8	2037-26-5	74	132
4-Bromofluorobenzene	460-00-4	72	130

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Geotechnics | Environment | Groundwater

CHAIN OF CUSTODY DESPATCH SHEET

Project No:	202107.01	**Suburb:**	Bungendore	**To:**	Envirolab Services
Project Name:	Bungendore Highschool	**Order Number**	155059		12 Ashley St, Chatswood NSW 2067
Project Manager	SDG	**Sampler:**	EAGL	**Attn:**	Jacinta Hurst
Emails:	shannon.goodsell@douglaspartners.com.au	elliott.luck@douglaspartners.com.au		**Phone:**	(02) 9910 6200
Date Required:	Standard			**Email:**	
Prior Storage:	Fridge	Do samples contain 'potential' HBM?	No	(If YES, then handle, transport and store in accordance with FPM HAZID)	

Sample ID	Lab ID	Date Sampled	Sample Type (S - soil, W - water)	Container Type (G - glass, P - plastic)	Analytes: Comb. 8a	Comb. 6a	CEC	pH	BTEX	Hold				Notes/preservation
BH01/0.1	1	25/03/21	S	G	X									
BH01/0.5	2	25/03/21	S	G						X				
BH01/1.0	3	25/03/21	S	G						X				
BH01/2.0	4	25/03/21	S	G		X								
BH02/0.1	5	26/03/21	S	G	X									
BH02/0.5	6	26/03/21	S	G						X				
BH02/1.0	7	26/03/21	S	G						X				
BH03/0.1	8	26/03/21	S	G	X									
BH03/0.5	9	26/03/21	S	G						X				
BH03/1.0	10	26/03/21	S	G						X				
BH04/0.1	11	29/03/21	S	G	X									
BH04/0.5	12	29/03/21	S	G						X				
BH04/1.0	13	29/03/21	S	G						X				
BH04/2.0	14	29/03/21	S	G						X				
BH05/0.1	15	26/03/21	S	G	X									
PQL (S) mg/kg														

PQL = practical quantitation limit. If none given, default to Laboratory Method Detection Limit

ANZECC PQLs req'd for all water analytes ☐

Metals to Analyse: 8HM unless specified here:

Lab Report/Reference No: 265912

Total number of samples in container: **Relinquished by:** EAGL **Transported to laboratory by:**

Send Results to: Douglas Partners Pty Ltd **Address** shannon.goodsell@douglaspartners.com.au **Phone:** 02 6260 2788 **Fax:**

Signed: **Received by:** **Date & Time:** 1030 7/4/21

Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

Job No: 265912
Date Received: 7/4
Time Received: 1030
Received By: SS
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

Douglas Partners
Geotechnics | Environment | Groundwater

CHAIN OF CUSTODY DESPATCH SHEET

Project No:	202107.01	**Suburb:**	Bungendore	**To:**	Envirolab Services
Project Name:	Bungendore Highschool	**Order Number**	155059		12 Ashley St, Chatswood NSW 2067
Project Manager	SDG	**Sampler:**	EAGL	**Attn:**	Jacinta Hurst
Emails:	shannon.goodsell@douglaspartners.com.au	elliott.luck@douglaspartners.com.au		**Phone:**	(02) 9910 6200
Date Required:	Standard			**Email:**	
Prior Storage:	Fridge	Do samples contain 'potential' HBM?	No	(If YES, then handle, transport and store in accordance with FPM HAZID)	

Sample ID	Lab ID	Sampling Date	Sample Type (S - soil, W - water)	Container Type (G - glass, P - plastic)	Analytes: Comb. 8a	Comb. 6a	CEC	pH	BTEX	Hold				Notes/preservation
BH05/0.5	16	26/03/21	S	G						X				
BH05/1.0	17	26/03/21	S	G						X				
BH05/2.0	18	26/03/21	S	G						X				
BH05/3.0	19	26/03/21	S	G		X								
BH06/0.1	20	26/03/21	S	G	X									
BH06/0.5	21	26/03/21	S	G						X				
BH06/1.0	22	26/03/21	S	G						X				
BH06/2.5	23	26/03/21	S	G						X				
BH06/3.0	24	26/03/21	S	G		X								
BH07/0.1	25	30/03/21	S	G	X									
BH07/0.5	26	30/03/21	S	G						X				
BH07/1.0	27	30/03/21	S	G						X				
BH07/2.0	28	30/03/21	S	G						X				
BH08/0.1	29	29/03/21	S	G						X				
BH08/0.5	30	29/03/21	S	G						X				
PQL (S) mg/kg														**ANZECC PQLs req'd for all water analytes** ☐

PQL = practical quantitation limit. If none given, default to Laboratory Method Detection Limit

Metals to Analyse: 8HM unless specified here:

Lab Report/Reference No: 265912

Total number of samples in container:

Relinquished by: EAGL

Transported to laboratory by:

Send Results to: Douglas Partners Pty Ltd

Address shannon.goodsell@douglaspartners.com.au

Phone: 02 6260 2788 **Fax:**

Signed:

Received by:

Date & Time: 1030 7/4/21

Douglas Partners
Geotechnics | Environment | Groundwater

CHAIN OF CUSTODY DESPATCH SHEET

Project No:	202107.01	**Suburb:**	Bungendore	**To:**	Envirolab Services
Project Name:	Bungendore Highschool	**Order Number**	155059		12 Ashley St, Chatswood NSW 2067
Project Manager	SDG	**Sampler:**	EAGL	**Attn:**	Jacinta Hurst
Emails:	shannon.goodsell@douglaspartners.com.au	elliott.luck@douglaspartners.com.au		**Phone:**	(02) 9910 6200
Date Required:	Standard			**Email:**	
Prior Storage:	Fridge	Do samples contain 'potential' HBM?	No	(If YES, then handle, transport and store in accordance with FPM HAZID)	

Sample ID	Lab ID	Sampling Date	Sample Type (S - soil, W - water)	Container Type (G - glass, P - plastic)	Analytes: Comb. 8a	Comb. 6a	CEC	pH	BTEX	Hold				Notes/preservation
BH08/1.0	31	29/03/21	S	G	X									
BH08/1.5	32	29/03/21	S	G						X				
BH09/0.1	33	30/03/21	S	G	X					X				
BH09/0.5	34	30/03/21	S	G						X				
BH09/1.0	35	30/03/21	S	G						X				
BH09/2.0	36	30/03/21	S	G						X				
BH09/4.0	37	30/03/21	S	G						X				
BH09/5.0	38	30/03/21	S	G		X								
BH09/6.0	39	30/03/21	S	G						X				
BH10/0.1	40	30/03/21	S	G						X				
BH10/0.5	41	30/03/21	S	G	X									
BH10/1.0	42	30/03/21	S	G						X				
BH10/2.0	43	30/03/21	S	G						X				
BH10/3.0	44	30/03/21	S	G						X				
BH10/4.0	45	30/03/21	S	G						X				
PQL (S) mg/kg														**ANZECC PQLs req'd for all water analytes** ☐

PQL = practical quantitation limit. If none given, default to Laboratory Method Detection Limit

Metals to Analyse: 8HM unless specified here:

Lab Report/Reference No: 265912

Total number of samples in container: **Relinquished by:** EAGL **Transported to laboratory by:**

Send Results to: Douglas Partners Pty Ltd **Address** shannon.goodsell@douglaspartners.com.au **Phone:** 02 6260 2788 **Fax:**

Signed: **Received by:** **Date & Time:** 1030 7/4/21

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CHAIN OF CUSTODY DESPATCH SHEET

Project No:	202107.01	**Suburb:**	Bungendore	**To:**	Envirolab Services
Project Name:	Bungendore Highschool	**Order Number**	155059		12 Ashley St, Chatswood NSW 2067
Project Manager	SDG	**Sampler:**	EAGL	**Attn:**	Jacinta Hurst
Emails:	shannon.goodsell@douglaspartners.com.au	elliott.luck@douglaspartners.com.au		**Phone:**	(02) 9910 6200
Date Required:	Standard			**Email:**	
Prior Storage:	Fridge	Do samples contain 'potential' HBM?	No	(If YES, then handle, transport and store in accordance with FPM HAZID)	

Sample ID	Lab ID	Sampling Date	Sample Type (S - soil, W - water)	Container Type (G - glass, P - plastic)	Analytes: Comb. 8a	Comb. 6a	CEC	pH	BTEX	Hold				Notes/preservation
BH10/5.0	46	30/03/21	S	G		X								
BH11/0.1	47	29/03/21	S	G	X									
BH11/0.5	48	29/03/21	S	G						X				
BH11/1.0	49	29/03/21	S	G						X				
BH11/1.5	50	29/03/21	S	G		X								
BH11/2.0	51	29/03/21	S	G						X				
BH12/0.1	52	29/03/21	S	G	X									
BH12/0.5	53	29/03/21	S	G		X								
BH12/1.0	54	29/03/21	S	G						X				
BH12/2.0	55	29/03/21	S	G						X				
BH13/0.1	56	30/03/21	S	G	X									
BH13/0.5	57	30/03/21	S	G						X				
BH13/1.0	58	30/03/21	S	G		X								
BH13/2.0	59	30/03/21	S	G						X				
BH14/0.1	60	30/03/21	S	G	X									
PQL (S) mg/kg														**ANZECC PQLs req'd for all water analytes** ☐

PQL = practical quantitation limit. If none given, default to Laboratory Method Detection Limit

Metals to Analyse: 8HM unless specified here:

Lab Report/Reference No: ~~260~~ 265912

Total number of samples in container: **Relinquished by:** EAGL **Transported to laboratory by:**

Send Results to: Douglas Partners Pty Ltd **Address** shannon.goodsell@douglaspartners.com.au **Phone:** 02 6260 2788 **Fax:**

Signed: **Received by:** **Date & Time:** 1030 7/4/21

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CHAIN OF CUSTODY DESPATCH SHEET

Project No:	202107.01	**Suburb:**	Bungendore	**To:**	Envirolab Services
Project Name:	Bungendore Highschool	**Order Number**	155059		12 Ashley St, Chatswood NSW 2067
Project Manager	SDG	**Sampler:**	EAGL	**Attn:**	Jacinta Hurst
Emails:	shannon.goodsell@douglaspartners.com.au	elliott.luck@douglaspartners.com.au		**Phone:**	(02) 9910 6200
Date Required:	Standard			**Email:**	
Prior Storage:	Fridge	Do samples contain 'potential' HBM?	No	(If YES, then handle, transport and store in accordance with FPM HAZID)	

Sample ID	Lab ID	Sampling Date	Sample Type (S - soil, W - water)	Container Type (G - glass, P - plastic)	Analytes: Comb. 8a	Comb. 6a	CEC	pH	BTEX	Hold				Notes/preservation
BH14/0.5	61	30/03/21	S	G						X				
BH14/1.0	62	30/03/21	S	G						X				
BH14/2.0	63	30/03/21	S	G		X								
BH01-T/0.1	64	25/03/21	S	G	X									
BH01-T/0.5	65	25/03/21	S	G						X				
BH01-T/1.0	66	25/03/21	S	G						X				
BH01-T/2.0	67	25/03/21	S	G						X				
BH02-T/0.1	68	25/03/21	S	G						X				
BH02-T/0.3	69	25/03/21	S	G						X				
BH02-T/0.5	70	25/03/21	S	G	X									
BH02-T/1.0	71	25/03/21	S	G						X				
BH02-T/2.0	72	25/03/21	S	G		X								
BH01-O/0.1	73	30/03/21	S	G	X									
BH01-O/0.5	74	30/03/21	S	G						X				
BH01-O/1.0	75	30/03/21	S	G						X				
PQL (S) mg/kg														**ANZECC PQLs req'd for all water analytes** ☐

PQL = practical quantitation limit. If none given, default to Laboratory Method Detection Limit

Metals to Analyse: 8HM unless specified here:

Lab Report/Reference No: 265912

Total number of samples in container: | **Relinquished by:** EAGL | **Transported to laboratory by:**

Send Results to: Douglas Partners Pty Ltd | **Address** shannon.goodsell@douglaspartners.com.au | **Phone:** 02 6260 2788 **Fax:**

Signed: | **Received by:** | **Date & Time:** 7/4/21 1030

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CHAIN OF CUSTODY DESPATCH SHEET

Project No:	202107.01	**Suburb:**	Bungendore	**To:**	Envirolab Services
Project Name:	Bungendore Highschool	**Order Number**	155059		12 Ashley St, Chatswood NSW 2067
Project Manager	SDG	**Sampler:**	EAGL	**Attn:**	Jacinta Hurst
Emails:	shannon.goodsell@douglaspartners.com.au	elliott.luck@douglaspartners.com.au		**Phone:**	(02) 9910 6200
Date Required:	Standard			**Email:**	
Prior Storage:	Fridge	Do samples contain 'potential' HBM?	No	(If YES, then handle, transport and store in accordance with FPM HAZID)	

Sample ID	Lab ID	Sampling Date	Sample Type (S - soil, W - water)	Container Type (G - glass, P - plastic)	Analytes: Comb. 8a	Comb. 6a	CEC	pH	BTEX	Hold				Notes/preservation
BH01-O/2.0	76	30/03/21	S	G						X				
BH02-O/0.1	77	30/03/21	S	G	X									
BH02-O/0.5	78	30/03/21	S	G						X				
BH02-O/1.0	79	30/03/21	S	G						X				
BH02-O/2.0	80	30/03/21	S	G		X								
BH03-O/0.1	81	30/03/21	S	G	X									
BH03-O/0.5	82	30/03/21	S	G						X				
BH03-O/1.0	83	30/03/21	S	G						X				
BH03-O/1.5	84	30/03/21	S	G						X				
BH03-O/2.0	85	30/03/21	S	G						X				
BH04-O/0.1	86	30/03/21	S	G	X									
BH04-O/0.5	87	30/03/21	S	G						X				
BH04-O/1.0	88	30/03/21	S	G						X				
BH04-O/2.0	89	30/03/21	S	G						X				
BH05-O/0.1	90	29/03/21	S	G						X				
PQL (S) mg/kg														**ANZECC PQLs req'd for all water analytes** ☐

PQL = practical quantitation limit. If none given, default to Laboratory Method Detection Limit

Metals to Analyse: 8HM unless specified here:

Lab Report/Reference No: 265912 JDH

Total number of samples in container:	**Relinquished by:**	**Transported to laboratory by:**	
Send Results to: Douglas Partners Pty Ltd	**Address**	**Phone:**	**Fax:**
Signed:	**Received by:**	**Date & Time:** 7/4/21	1030

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CHAIN OF CUSTODY DESPATCH SHEET

Project No:	202107.01	**Suburb:**	Bungendore	**To:**	Envirolab Services
Project Name:	Bungendore Highschool	**Order Number**	155059		12 Ashley St, Chatswood NSW 2067
Project Manager	SDG	**Sampler:**	EAGL	**Attn:**	Jacinta Hurst
Emails:	shannon.goodsell@douglaspartners.com.au	elliott.luck@douglaspartners.com.au		**Phone:**	(02) 9910 6200
Date Required:	Standard			**Email:**	
Prior Storage:	Fridge	Do samples contain 'potential' HBM?	No	(If YES, then handle, transport and store in accordance with FPM HAZID)	

Sample ID	Lab ID	Sampling Date	Sample Type (S - soil, W - water)	Container Type (G - glass, P - plastic)	Analytes: Comb. 8a	Comb. 6a	CEC	pH	BTEX	Hold				Notes/preservation
BH05-O/0.5	91	29/03/21	S	G	X									
BH05-O/1.0	92	29/03/21	S	G						X				
BH05-O/2.0	93	29/03/21	S	G		X								
BH06-O/0.1	94	29/03/21	S	G						X				
BH06-O/0.5	95	29/03/21	S	G	X									
BH06-O/1.0	96	29/03/21	S	G						X				
BH06-O/2.0	97	29/03/21	S	G						X				
BH07-O/0.1	98	26/03/21	S	G	X									
BH07-O/0.5	99	26/03/21	S	G						X				
BH07-O/1.0	100	26/03/21	S	G						X				
BH07-O/2.5	101	26/03/21	S	G						X				
BH07-O/3.0	102	26/03/21	S	G						X				
BH08-O/0.1	103	25/03/21	S	G						X				
BH08-O/0.5	104	25/03/21	S	G	X									
BH08-O/1.0	105	25/03/21	S	G						X				
PQL (S) mg/kg														**ANZECC PQLs req'd for all water analytes** ☐

PQL = practical quantitation limit. If none given, default to Laboratory Method Detection Limit

Metals to Analyse: 8HM unless specified here:

Lab Report/Reference No: 265912

Total number of samples in container: **Relinquished by:** 0 **Transported to laboratory by:**

Send Results to: Douglas Partners Pty Ltd **Address** shannon.goodsell@douglaspartners.com.au **Phone:** 02 6260 2788 **Fax:**

Signed: **Received by:** **Date & Time:** 7/4/21 1030

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CHAIN OF CUSTODY DESPATCH SHEET

Project No:	202107.01	**Suburb:**	Bungendore	**To:**	Envirolab Services
Project Name:	Bungendore Highschool	**Order Number**	155059		12 Ashley St, Chatswood NSW 2067
Project Manager	SDG	**Sampler:**	EAGL	**Attn:**	Jacinta Hurst
Emails:	shannon.goodsell@douglaspartners.com.au	elliott.luck@douglaspartners.com.au		**Phone:**	(02) 9910 6200
Date Required:	Standard			**Email:**	
Prior Storage:	Fridge	Do samples contain 'potential' HBM?	No	(If YES, then handle, transport and store in accordance with FPM HAZID)	

Sample ID	Lab ID	Sampling Date	Sample Type (S - soil W - water)	Container Type (G - glass P - plastic)	Analytes: Comb. 8a	Comb. 6a	CEC	pH	BTEX	Hold	8 Metals	PAH		Notes/preservation
BH08-O/2.0	106	25/03/21	S	G						X				
BH09-O/0.1	107	26/03/21	S	G	X									
BH09-O/0.5	108	26/03/21	S	G						X				
BH09-O/1.0	109	26/03/21	S	G						X				
BH09-O/2.0	110	26/03/21	S	G						X				
BH10-O/0.1	111	29/03/21	S	G	X									
BH10-O/0.5	112	29/03/21	S	G						X				
BH10-O/1.0	113	29/03/21	S	G		X								
BH10-O/2.0	114	29/03/21	S	G						X				
R1	115	25/03/21	S	G							X	X		
R2	116	25/03/21	S	G							X	X		
R3	117	29/03/21	S	G							X	X		
R4	118	30/03/21	S	G						X				
R5	119	30/03/21	S	G						X				
TB1	120	30/03/21	S	G					X					
PQL (S) mg/kg													**ANZECC PQLs req'd for all water analytes** ☐	

PQL = practical quantitation limit. If none given, default to Laboratory Method Detection Limit

Metals to Analyse: 8HM unless specified here:

Lab Report/Reference No: 265912

Total number of samples in container: **Relinquished by:** 0 **Transported to laboratory by:**

Send Results to: Douglas Partners Pty Ltd **Address** shannon.goodsell@douglaspartners.com.au **Phone:** 02 6260 2788 **Fax:**

Signed: **Received by:** **Date & Time:** 7/4/21 1030

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CHAIN OF CUSTODY DESPATCH SHEET

Project No:	202107.01	**Suburb:**	Bungendore	**To:**	Envirolab Services
Project Name:	Bungendore Highschool	**Order Number**	155059		12 Ashley St, Chatswood NSW 2067
Project Manager	SDG	**Sampler:**	EAGL	**Attn:**	Jacinta Hurst
Emails:	shannon.goodsell@douglaspartners.com.au	elliott.luck@douglaspartners.com.au		**Phone:**	(02) 9910 6200
Date Required:	Standard			**Email:**	
Prior Storage:	Fridge	Do samples contain 'potential' HBM?	No	(If YES, then handle, transport and store in accordance with FPM HAZID)	

Sample ID	Lab ID	Sampling Date	Sample Type (S - soil, W - water)	Container Type (G - glass, P - plastic)	Analytes: Comb. 8a	Comb. 6a	CEC	pH	BTEX	Hold	8 Metals	PAH		Notes/preservation
TS1	121	30/03/21	S	G					X					
PQL (S) mg/kg														

ANZECC PQLs req'd for all water analytes ☐

PQL = practical quantitation limit. If none given, default to Laboratory Method Detection Limit

Metals to Analyse: 8HM unless specified here:

Lab Report/Reference No: 265912

Total number of samples in container: **Relinquished by:** 0 **Transported to laboratory by:**

Send Results to: Douglas Partners Pty Ltd **Address** shannon.goodsell@douglaspartners.com.au **Phone:** 02 6260 2788 **Fax:**

Signed: **Received by:** **Date & Time:** 7/4/21 1030

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

SAMPLE RECEIPT ADVICE

Client Details

Client	Douglas Partners Canberra
Attention	Shannon Goodsell

Sample Login Details

Your reference	202107.01, Bungendore Highschool
Envirolab Reference	265912
Date Sample Received	07/04/2021
Date Instructions Received	07/04/2021
Date Results Expected to be Reported	14/04/2021

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	121 Soil
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	12
Cooling Method	Ice Pack
Sampling Date Provided	YES

Comments

Nil

Please direct any queries to:

Aileen Hie	Jacinta Hurst
Phone: 02 9910 6200	**Phone: 02 9910 6200**
Fax: 02 9910 6201	**Fax: 02 9910 6201**
Email: ahie@envirolab.com.au	**Email: jhurst@envirolab.com.au**

Analysis Underway, details on the following page:

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

Sample ID	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	PAHs in Soil	Organochlorine Pesticides in soil	Organophosphorus Pesticides in Soil	PCBsin Soil	Misc Soil - Inorg	Acid Extractable metalsin soil	Asbestos ID - soils	On Hold
BH01/0.1	✓	✓	✓	✓	✓	✓	✓	✓	✓	
BH01/0.5										✓
BH01/1.0										✓
BH01/2.0	✓	✓	✓	✓	✓	✓		✓	✓	
BH02/0.1	✓	✓	✓	✓	✓	✓	✓	✓	✓	
BH02/0.5										✓
BH02/1.0										✓
BH03/0.1	✓	✓	✓	✓	✓	✓	✓	✓	✓	
BH03/0.5										✓
BH03/1.0										✓
BH04/0.1	✓	✓	✓	✓	✓	✓	✓	✓	✓	
BH04/0.5										✓
BH04/1.0										✓
BH04/2.0										✓
BH05/0.1	✓	✓	✓	✓	✓	✓	✓	✓	✓	
BH05/0.5										✓
BH05/1.0										✓
BH05/2.0										✓
BH05/3.0	✓	✓	✓	✓	✓	✓		✓	✓	
BH06/0.1	✓	✓	✓	✓	✓	✓	✓	✓	✓	
BH06/0.5										✓
BH06/1.0										✓
BH06/2.5										✓
BH06/3.0	✓	✓	✓	✓	✓	✓		✓	✓	
BH07/0.1	✓	✓	✓	✓	✓	✓	✓	✓	✓	
BH07/0.5										✓
BH07/1.0										✓
BH07/2.0										✓
BH08/0.1										✓
BH08/0.5										✓
BH08/1.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	
BH08/1.5										✓

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www.envirolab.com.au

Sample ID	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	PAHs in Soil	Organochlorine Pesticides in soil	Organophosphorus Pesticides in Soil	PCBsin Soil	Misc Soil - Inorg	Acid Extractable metalsin soil	Asbestos ID - soils	On Hold
BH09/0.1	✓	✓	✓	✓	✓	✓	✓	✓	✓	
BH09/0.5										✓
BH09/1.0										✓
BH09/2.0										✓
BH09/4.0										✓
BH09/5.0	✓	✓	✓	✓	✓	✓		✓	✓	
BH09/6.0										✓
BH10/0.1										✓
BH10/0.5	✓	✓	✓	✓	✓	✓	✓	✓	✓	
BH10/1.0										✓
BH10/2.0										✓
BH10/3.0										✓
BH10/4.0										✓
BH10/5.0	✓	✓	✓	✓	✓	✓		✓	✓	
BH11/0.1	✓	✓	✓	✓	✓	✓	✓	✓	✓	
BH11/0.5										✓
BH11/1.0										✓
BH11/1.5	✓	✓	✓	✓	✓	✓		✓	✓	
BH11/2.0										✓
BH12/0.1	✓	✓	✓	✓	✓	✓	✓	✓	✓	
BH12/0.5	✓	✓	✓	✓	✓	✓		✓	✓	
BH12/1.0										✓
BH12/2.0										✓
BH13/0.1	✓	✓	✓	✓	✓	✓	✓	✓	✓	
BH13/0.5										✓
BH13/1.0	✓	✓	✓	✓	✓	✓		✓	✓	
BH13/2.0										✓
BH14/0.1	✓	✓	✓	✓	✓	✓	✓	✓	✓	
BH14/0.5										✓
BH14/1.0										✓
BH14/2.0	✓	✓	✓	✓	✓	✓		✓	✓	
BH01-T/0.1	✓	✓	✓	✓	✓	✓	✓	✓	✓	

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ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
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Sample ID	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	PAHs in Soil	Organochlorine Pesticides in soil	Organophosphorus Pesticides in Soil	PCBsin Soil	Misc Soil - Inorg	Acid Extractable metalsin soil	Asbestos ID - soils	On Hold
BH01-T/0.5										✓
BH01-T/1.0										✓
BH01-T/2.0										✓
BH02-T/0.1										✓
BH02-T/0.3										✓
BH02-T/0.5	✓	✓	✓	✓	✓	✓	✓	✓	✓	
BH02-T/1.0										✓
BH02-T/2.0	✓	✓	✓	✓	✓	✓		✓	✓	
BH01-O/0.1	✓	✓	✓	✓	✓	✓	✓	✓	✓	
BH01-O/0.5										✓
BH01-O/1.0										✓
BH01-O/2.0										✓
BH02-O/0.1	✓	✓	✓	✓	✓	✓	✓	✓	✓	
BH02-O/0.5										✓
BH02-O/1.0										✓
BH02-O/2.0	✓	✓	✓	✓	✓	✓		✓	✓	
BH03-O/0.1	✓	✓	✓	✓	✓	✓	✓	✓	✓	
BH03-O/0.5										✓
BH03-O/1.0										✓
BH03-O/1.5										✓
BH03-O/2.0										✓
BH04-O/0.1	✓	✓	✓	✓	✓	✓	✓	✓	✓	
BH04-O/0.5										✓
BH04-O/1.0										✓
BH04-O/2.0										✓
BH05-O/0.1										✓
BH05-O/0.5	✓	✓	✓	✓	✓	✓	✓	✓	✓	
BH05-O/1.0										✓
BH05-O/2.0	✓	✓	✓	✓	✓	✓		✓	✓	
BH06-O/0.1										✓
BH06-O/0.5	✓	✓	✓	✓	✓	✓	✓	✓	✓	
BH06-O/1.0										✓

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Sample ID	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	PAHs in Soil	Organochlorine Pesticides in soil	Organophosphorus Pesticides in Soil	PCBsin Soil	Misc Soil - Inorg	Acid Extractable metalsin soil	Asbestos ID - soils	On Hold
BH06-O/2.0										✓
BH07-O/0.1	✓	✓	✓	✓	✓	✓	✓	✓	✓	
BH07-O/0.5										✓
BH07-O/1.0										✓
BH07-O/2.5										✓
BH07-O/3.0										✓
BH08-O/0.1										✓
BH08-O/0.5	✓	✓	✓	✓	✓	✓	✓	✓	✓	
BH08-O/1.0										✓
BH08-O/2.0										✓
BH09-O/0.1	✓	✓	✓	✓	✓	✓	✓	✓	✓	
BH09-O/0.5										✓
BH09-O/1.0										✓
BH09-O/2.0										✓
BH10-O/0.1	✓	✓	✓	✓	✓	✓	✓	✓	✓	
BH10-O/0.5										✓
BH10-O/1.0	✓	✓	✓	✓	✓	✓		✓	✓	
BH10-O/2.0										✓
R1			✓					✓		
R2			✓					✓		
R3			✓					✓		
R4										✓
R5										✓
TB1	✓									
TS1	✓									

The '✓' indicates the testing you have requested. **THIS IS NOT A REPORT OF THE RESULTS.**

Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.

Requests for longer term sample storage must be received in writing.

Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.

TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

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CERTIFICATE OF ANALYSIS 265912

Client Details

Client	Douglas Partners Canberra
Attention	Shannon Goodsell
Address	Unit 2, 73 Sheppard St,, HUME, ACT, 2620

Sample Details

Your Reference	**202107.01, Bungendore Highschool**
Number of Samples	121 Soil
Date samples received	07/04/2021
Date completed instructions received	07/04/2021

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

Report Details

Date results requested by	14/04/2021
Date of Issue	14/04/2021

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Asbestos Approved By
Analysed by Asbestos Approved Identifier: Ridwan Wijaya, Panika Wongchanda
Authorised by Asbestos Approved Signatory: Lucy Zhu

Results Approved By
Dragana Tomas, Senior Chemist
Giovanni Agosti, Group Technical Manager
Hannah Nguyen, Senior Chemist
Lucy Zhu, Asbestos Supervisor
Steven Luong, Organics Supervisor

Authorised By



Nancy Zhang, Laboratory Manager

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		265912-1	265912-4	265912-5	265912-8	265912-11
Your Reference	UNITS	BH01/0.1	BH01/2.0	BH02/0.1	BH03/0.1	BH04/0.1
Date Sampled		25/03/2021	25/03/2021	26/03/2021	26/03/2021	29/03/2021
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	08/04/2021	08/04/2021	08/04/2021	08/04/2021	08/04/2021
Date analysed	-	12/04/2021	12/04/2021	12/04/2021	12/04/2021	12/04/2021
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<3	<3	<3	<3	<3
Surrogate aaa-Trifluorotoluene	%	125	103	91	122	107

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		265912-15	265912-19	265912-20	265912-24	265912-25
Your Reference	UNITS	BH05/0.1	BH05/3.0	BH06/0.1	BH06/3.0	BH07/0.1
Date Sampled		26/03/2021	26/03/2021	26/03/2021	26/03/2021	30/03/2021
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	08/04/2021	08/04/2021	08/04/2021	08/04/2021	08/04/2021
Date analysed	-	12/04/2021	12/04/2021	12/04/2021	12/04/2021	12/04/2021
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<3	<3	<3	<3	<3
Surrogate aaa-Trifluorotoluene	%	72	98	100	109	126

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		265912-31	265912-33	265912-38	265912-41	265912-46
Your Reference	UNITS	BH08/1.0	BH09/0.1	BH09/5.0	BH10/0.5	BH10/5.0
Date Sampled		29/03/2021	30/03/2021	30/03/2021	30/03/2021	30/03/2021
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	08/04/2021	08/04/2021	08/04/2021	08/04/2021	08/04/2021
Date analysed	-	12/04/2021	12/04/2021	12/04/2021	12/04/2021	12/04/2021
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<3	<3	<3	<3	<3
Surrogate aaa-Trifluorotoluene	%	112	105	111	94	123

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		265912-47	265912-50	265912-52	265912-53	265912-56
Your Reference	UNITS	BH11/0.1	BH11/1.5	BH12/0.1	BH12/0.5	BH13/0.1
Date Sampled		29/03/2021	29/03/2021	29/03/2021	29/03/2021	30/03/2021
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	08/04/2021	08/04/2021	08/04/2021	08/04/2021	08/04/2021
Date analysed	-	12/04/2021	12/04/2021	12/04/2021	12/04/2021	12/04/2021
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<3	<3	<3	<3	<3
Surrogate aaa-Trifluorotoluene	%	117	119	113	112	107

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		265912-58	265912-60	265912-63	265912-64	265912-70
Your Reference	UNITS	BH13/1.0	BH14/0.1	BH14/2.0	BH01-T/0.1	BH02-T/0.5
Date Sampled		30/03/2021	30/03/2021	30/03/2021	25/03/2021	25/03/2021
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	08/04/2021	08/04/2021	08/04/2021	08/04/2021	08/04/2021
Date analysed	-	12/04/2021	12/04/2021	12/04/2021	12/04/2021	12/04/2021
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<3	<3	<3	<3	<3
Surrogate aaa-Trifluorotoluene	%	117	118	116	105	123

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		265912-72	265912-73	265912-77	265912-80	265912-81
Your Reference	UNITS	BH02-T/2.0	BH01-O/0.1	BH02-O/0.1	BH02-O/2.0	BH03-O/0.1
Date Sampled		25/03/2021	30/03/2021	30/03/2021	30/03/2021	30/03/2021
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	08/04/2021	08/04/2021	08/04/2021	08/04/2021	08/04/2021
Date analysed	-	12/04/2021	12/04/2021	12/04/2021	12/04/2021	12/04/2021
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<3	<3	<3	<3	<3
Surrogate aaa-Trifluorotoluene	%	119	123	108	127	114

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		265912-86	265912-91	265912-93	265912-95	265912-98
Your Reference	UNITS	BH04-O/0.1	BH05-O/0.5	BH05-O/2.0	BH06-O/0.5	BH07-O/0.1
Date Sampled		30/03/2021	29/03/2021	29/03/2021	29/03/2021	26/03/2021
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	08/04/2021	08/04/2021	08/04/2021	08/04/2021	08/04/2021
Date analysed	-	12/04/2021	12/04/2021	12/04/2021	12/04/2021	12/04/2021
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<3	<3	<3	<3	<3
Surrogate aaa-Trifluorotoluene	%	130	124	123	112	129

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		265912-104	265912-107	265912-111	265912-113	265912-120
Your Reference	UNITS	BH08-O/0.5	BH09-O/0.1	BH10-O/0.1	BH10-O/1.0	TB1
Date Sampled		25/03/2021	26/03/2021	29/03/2021	29/03/2021	30/03/2021
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	08/04/2021	08/04/2021	08/04/2021	08/04/2021	08/04/2021
Date analysed	-	12/04/2021	12/04/2021	12/04/2021	12/04/2021	12/04/2021
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	[NA]
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	[NA]
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	[NA]
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
naphthalene	mg/kg	<1	<1	<1	<1	[NA]
Total +ve Xylenes	mg/kg	<3	<3	<3	<3	[NA]
Surrogate aaa-Trifluorotoluene	%	105	128	107	124	128

vTRH(C6-C10)/BTEXN in Soil		
Our Reference		265912-121
Your Reference	UNITS	TS1
Date Sampled		30/03/2021
Type of sample		Soil
Date extracted	-	08/04/2021
Date analysed	-	12/04/2021
Benzene	mg/kg	105%
Toluene	mg/kg	99%
Ethylbenzene	mg/kg	85%
m+p-xylene	mg/kg	84%
o-Xylene	mg/kg	82%
Surrogate aaa-Trifluorotoluene	%	107

svTRH (C10-C40) in Soil						
Our Reference		265912-1	265912-4	265912-5	265912-8	265912-11
Your Reference	UNITS	BH01/0.1	BH01/2.0	BH02/0.1	BH03/0.1	BH04/0.1
Date Sampled		25/03/2021	25/03/2021	26/03/2021	26/03/2021	29/03/2021
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	08/04/2021	08/04/2021	08/04/2021	08/04/2021	08/04/2021
Date analysed	-	09/04/2021	09/04/2021	09/04/2021	09/04/2021	09/04/2021
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	77	76	79	77	77

svTRH (C10-C40) in Soil						
Our Reference		265912-15	265912-19	265912-20	265912-24	265912-25
Your Reference	UNITS	BH05/0.1	BH05/3.0	BH06/0.1	BH06/3.0	BH07/0.1
Date Sampled		26/03/2021	26/03/2021	26/03/2021	26/03/2021	30/03/2021
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	08/04/2021	08/04/2021	08/04/2021	08/04/2021	08/04/2021
Date analysed	-	09/04/2021	09/04/2021	09/04/2021	09/04/2021	09/04/2021
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	76	78	75	75	75

svTRH (C10-C40) in Soil						
Our Reference		265912-31	265912-33	265912-38	265912-41	265912-46
Your Reference	UNITS	BH08/1.0	BH09/0.1	BH09/5.0	BH10/0.5	BH10/5.0
Date Sampled		29/03/2021	30/03/2021	30/03/2021	30/03/2021	30/03/2021
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	08/04/2021	08/04/2021	08/04/2021	08/04/2021	08/04/2021
Date analysed	-	09/04/2021	09/04/2021	09/04/2021	09/04/2021	09/04/2021
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	76	78	76	76	76

svTRH (C10-C40) in Soil						
Our Reference		265912-47	265912-50	265912-52	265912-53	265912-56
Your Reference	UNITS	BH11/0.1	BH11/1.5	BH12/0.1	BH12/0.5	BH13/0.1
Date Sampled		29/03/2021	29/03/2021	29/03/2021	29/03/2021	30/03/2021
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	08/04/2021	08/04/2021	08/04/2021	08/04/2021	08/04/2021
Date analysed	-	09/04/2021	09/04/2021	09/04/2021	09/04/2021	09/04/2021
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	74	74	74	79	75

svTRH (C10-C40) in Soil						
Our Reference		265912-58	265912-60	265912-63	265912-64	265912-70
Your Reference	UNITS	BH13/1.0	BH14/0.1	BH14/2.0	BH01-T/0.1	BH02-T/0.5
Date Sampled		30/03/2021	30/03/2021	30/03/2021	25/03/2021	25/03/2021
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	08/04/2021	08/04/2021	08/04/2021	08/04/2021	08/04/2021
Date analysed	-	10/04/2021	10/04/2021	10/04/2021	10/04/2021	10/04/2021
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	77	80	76	79	78

svTRH (C10-C40) in Soil						
Our Reference		265912-72	265912-73	265912-77	265912-80	265912-81
Your Reference	UNITS	BH02-T/2.0	BH01-O/0.1	BH02-O/0.1	BH02-O/2.0	BH03-O/0.1
Date Sampled		25/03/2021	30/03/2021	30/03/2021	30/03/2021	30/03/2021
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	08/04/2021	08/04/2021	08/04/2021	08/04/2021	08/04/2021
Date analysed	-	10/04/2021	10/04/2021	10/04/2021	10/04/2021	10/04/2021
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	77	75	79	77	77

svTRH (C10-C40) in Soil						
Our Reference		265912-86	265912-91	265912-93	265912-95	265912-98
Your Reference	UNITS	BH04-O/0.1	BH05-O/0.5	BH05-O/2.0	BH06-O/0.5	BH07-O/0.1
Date Sampled		30/03/2021	29/03/2021	29/03/2021	29/03/2021	26/03/2021
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	08/04/2021	08/04/2021	08/04/2021	08/04/2021	08/04/2021
Date analysed	-	10/04/2021	10/04/2021	10/04/2021	10/04/2021	10/04/2021
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	75	77	77	78	80

svTRH (C10-C40) in Soil					
Our Reference		265912-104	265912-107	265912-111	265912-113
Your Reference	UNITS	BH08-O/0.5	BH09-O/0.1	BH10-O/0.1	BH10-O/1.0
Date Sampled		25/03/2021	26/03/2021	29/03/2021	29/03/2021
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	08/04/2021	08/04/2021	08/04/2021	08/04/2021
Date analysed	-	10/04/2021	10/04/2021	10/04/2021	10/04/2021
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50
Surrogate o-Terphenyl	%	79	75	81	77

PAHs in Soil						
Our Reference		265912-1	265912-4	265912-5	265912-8	265912-11
Your Reference	UNITS	BH01/0.1	BH01/2.0	BH02/0.1	BH03/0.1	BH04/0.1
Date Sampled		25/03/2021	25/03/2021	26/03/2021	26/03/2021	29/03/2021
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	09/04/2021	09/04/2021	09/04/2021	09/04/2021	09/04/2021
Date analysed	-	09/04/2021	09/04/2021	09/04/2021	09/04/2021	09/04/2021
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	100	91	98	114	99

PAHs in Soil						
Our Reference		265912-15	265912-19	265912-20	265912-24	265912-25
Your Reference	UNITS	BH05/0.1	BH05/3.0	BH06/0.1	BH06/3.0	BH07/0.1
Date Sampled		26/03/2021	26/03/2021	26/03/2021	26/03/2021	30/03/2021
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	09/04/2021	09/04/2021	09/04/2021	09/04/2021	09/04/2021
Date analysed	-	09/04/2021	09/04/2021	09/04/2021	09/04/2021	09/04/2021
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	103	111	102	101	99

PAHs in Soil						
Our Reference		265912-31	265912-33	265912-38	265912-41	265912-46
Your Reference	UNITS	BH08/1.0	BH09/0.1	BH09/5.0	BH10/0.5	BH10/5.0
Date Sampled		29/03/2021	30/03/2021	30/03/2021	30/03/2021	30/03/2021
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	09/04/2021	09/04/2021	09/04/2021	09/04/2021	09/04/2021
Date analysed	-	09/04/2021	09/04/2021	09/04/2021	09/04/2021	09/04/2021
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	99	102	112	97	104

PAHs in Soil						
Our Reference		265912-47	265912-50	265912-52	265912-53	265912-56
Your Reference	UNITS	BH11/0.1	BH11/1.5	BH12/0.1	BH12/0.5	BH13/0.1
Date Sampled		29/03/2021	29/03/2021	29/03/2021	29/03/2021	30/03/2021
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	09/04/2021	09/04/2021	09/04/2021	09/04/2021	09/04/2021
Date analysed	-	09/04/2021	09/04/2021	09/04/2021	09/04/2021	09/04/2021
Naphthalene	mg/kg	0.2	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.7	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.6	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.6	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.2	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.3	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	0.3	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	0.2	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	3.2	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	105	98	97	92	108

PAHs in Soil						
Our Reference		265912-58	265912-60	265912-63	265912-64	265912-70
Your Reference	UNITS	BH13/1.0	BH14/0.1	BH14/2.0	BH01-T/0.1	BH02-T/0.5
Date Sampled		30/03/2021	30/03/2021	30/03/2021	25/03/2021	25/03/2021
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	09/04/2021	09/04/2021	09/04/2021	09/04/2021	09/04/2021
Date analysed	-	09/04/2021	09/04/2021	09/04/2021	09/04/2021	09/04/2021
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	102	104	106	100	94

PAHs in Soil						
Our Reference		265912-72	265912-73	265912-77	265912-80	265912-81
Your Reference	UNITS	BH02-T/2.0	BH01-O/0.1	BH02-O/0.1	BH02-O/2.0	BH03-O/0.1
Date Sampled		25/03/2021	30/03/2021	30/03/2021	30/03/2021	30/03/2021
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	09/04/2021	09/04/2021	09/04/2021	09/04/2021	09/04/2021
Date analysed	-	09/04/2021	09/04/2021	09/04/2021	09/04/2021	09/04/2021
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	102	98	94	106	94

PAHs in Soil						
Our Reference		265912-86	265912-91	265912-93	265912-95	265912-98
Your Reference	UNITS	BH04-O/0.1	BH05-O/0.5	BH05-O/2.0	BH06-O/0.5	BH07-O/0.1
Date Sampled		30/03/2021	29/03/2021	29/03/2021	29/03/2021	26/03/2021
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	09/04/2021	09/04/2021	09/04/2021	09/04/2021	09/04/2021
Date analysed	-	12/04/2021	12/04/2021	12/04/2021	12/04/2021	12/04/2021
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	65	65	65	66	67

PAHs in Soil						
Our Reference		265912-104	265912-107	265912-111	265912-113	265912-115
Your Reference	UNITS	BH08-O/0.5	BH09-O/0.1	BH10-O/0.1	BH10-O/1.0	R1
Date Sampled		25/03/2021	26/03/2021	29/03/2021	29/03/2021	25/03/2021
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	09/04/2021	09/04/2021	09/04/2021	09/04/2021	09/04/2021
Date analysed	-	12/04/2021	12/04/2021	12/04/2021	12/04/2021	12/04/2021
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	68	68	67	70	65

PAHs in Soil			
Our Reference		265912-116	265912-117
Your Reference	UNITS	R2	R3
Date Sampled		25/03/2021	29/03/2021
Type of sample		Soil	Soil
Date extracted	-	09/04/2021	09/04/2021
Date analysed	-	12/04/2021	12/04/2021
Naphthalene	mg/kg	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	68	68

Organochlorine Pesticides in soil						
Our Reference		265912-1	265912-4	265912-5	265912-8	265912-11
Your Reference	UNITS	BH01/0.1	BH01/2.0	BH02/0.1	BH03/0.1	BH04/0.1
Date Sampled		25/03/2021	25/03/2021	26/03/2021	26/03/2021	29/03/2021
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	09/04/2021	09/04/2021	09/04/2021	09/04/2021	09/04/2021
Date analysed	-	09/04/2021	09/04/2021	09/04/2021	09/04/2021	09/04/2021
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	94	93	93	99	93

Organochlorine Pesticides in soil						
Our Reference		265912-15	265912-19	265912-20	265912-24	265912-25
Your Reference	UNITS	BH05/0.1	BH05/3.0	BH06/0.1	BH06/3.0	BH07/0.1
Date Sampled		26/03/2021	26/03/2021	26/03/2021	26/03/2021	30/03/2021
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	09/04/2021	09/04/2021	09/04/2021	09/04/2021	09/04/2021
Date analysed	-	09/04/2021	09/04/2021	09/04/2021	09/04/2021	09/04/2021
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	94	96	99	100	94

Organochlorine Pesticides in soil						
Our Reference		265912-31	265912-33	265912-38	265912-41	265912-46
Your Reference	UNITS	BH08/1.0	BH09/0.1	BH09/5.0	BH10/0.5	BH10/5.0
Date Sampled		29/03/2021	30/03/2021	30/03/2021	30/03/2021	30/03/2021
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	09/04/2021	09/04/2021	09/04/2021	09/04/2021	09/04/2021
Date analysed	-	09/04/2021	09/04/2021	09/04/2021	09/04/2021	09/04/2021
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	93	91	93	96	92

Organochlorine Pesticides in soil						
Our Reference		265912-47	265912-50	265912-52	265912-53	265912-56
Your Reference	UNITS	BH11/0.1	BH11/1.5	BH12/0.1	BH12/0.5	BH13/0.1
Date Sampled		29/03/2021	29/03/2021	29/03/2021	29/03/2021	30/03/2021
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	09/04/2021	09/04/2021	09/04/2021	09/04/2021	09/04/2021
Date analysed	-	09/04/2021	09/04/2021	09/04/2021	09/04/2021	09/04/2021
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	92	98	99	95	100

Organochlorine Pesticides in soil						
Our Reference		265912-58	265912-60	265912-63	265912-64	265912-70
Your Reference	UNITS	BH13/1.0	BH14/0.1	BH14/2.0	BH01-T/0.1	BH02-T/0.5
Date Sampled		30/03/2021	30/03/2021	30/03/2021	25/03/2021	25/03/2021
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	09/04/2021	09/04/2021	09/04/2021	09/04/2021	09/04/2021
Date analysed	-	09/04/2021	09/04/2021	09/04/2021	09/04/2021	09/04/2021
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	96	94	94	91	94

Organochlorine Pesticides in soil						
Our Reference		265912-72	265912-73	265912-77	265912-80	265912-81
Your Reference	UNITS	BH02-T/2.0	BH01-O/0.1	BH02-O/0.1	BH02-O/2.0	BH03-O/0.1
Date Sampled		25/03/2021	30/03/2021	30/03/2021	30/03/2021	30/03/2021
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	09/04/2021	09/04/2021	09/04/2021	09/04/2021	09/04/2021
Date analysed	-	09/04/2021	09/04/2021	09/04/2021	09/04/2021	09/04/2021
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	96	95	93	97	96

Organochlorine Pesticides in soil						
Our Reference		265912-86	265912-91	265912-93	265912-95	265912-98
Your Reference	UNITS	BH04-O/0.1	BH05-O/0.5	BH05-O/2.0	BH06-O/0.5	BH07-O/0.1
Date Sampled		30/03/2021	29/03/2021	29/03/2021	29/03/2021	26/03/2021
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	09/04/2021	09/04/2021	09/04/2021	09/04/2021	09/04/2021
Date analysed	-	12/04/2021	12/04/2021	12/04/2021	12/04/2021	12/04/2021
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	73	71	71	73	76

Organochlorine Pesticides in soil					
Our Reference		265912-104	265912-107	265912-111	265912-113
Your Reference	UNITS	BH08-O/0.5	BH09-O/0.1	BH10-O/0.1	BH10-O/1.0
Date Sampled		25/03/2021	26/03/2021	29/03/2021	29/03/2021
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	09/04/2021	09/04/2021	09/04/2021	09/04/2021
Date analysed	-	12/04/2021	12/04/2021	12/04/2021	12/04/2021
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	75	74	73	76

Organophosphorus Pesticides in Soil						
Our Reference		265912-1	265912-4	265912-5	265912-8	265912-11
Your Reference	UNITS	BH01/0.1	BH01/2.0	BH02/0.1	BH03/0.1	BH04/0.1
Date Sampled		25/03/2021	25/03/2021	26/03/2021	26/03/2021	29/03/2021
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	09/04/2021	09/04/2021	09/04/2021	09/04/2021	09/04/2021
Date analysed	-	09/04/2021	09/04/2021	09/04/2021	09/04/2021	09/04/2021
Dichlorvos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	94	93	93	99	93

Organophosphorus Pesticides in Soil						
Our Reference		265912-15	265912-19	265912-20	265912-24	265912-25
Your Reference	UNITS	BH05/0.1	BH05/3.0	BH06/0.1	BH06/3.0	BH07/0.1
Date Sampled		26/03/2021	26/03/2021	26/03/2021	26/03/2021	30/03/2021
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	09/04/2021	09/04/2021	09/04/2021	09/04/2021	09/04/2021
Date analysed	-	09/04/2021	09/04/2021	09/04/2021	09/04/2021	09/04/2021
Dichlorvos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	94	96	99	100	94

Organophosphorus Pesticides in Soil						
Our Reference		265912-31	265912-33	265912-38	265912-41	265912-46
Your Reference	UNITS	BH08/1.0	BH09/0.1	BH09/5.0	BH10/0.5	BH10/5.0
Date Sampled		29/03/2021	30/03/2021	30/03/2021	30/03/2021	30/03/2021
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	09/04/2021	09/04/2021	09/04/2021	09/04/2021	09/04/2021
Date analysed	-	09/04/2021	09/04/2021	09/04/2021	09/04/2021	09/04/2021
Dichlorvos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	93	91	93	96	92

Organophosphorus Pesticides in Soil						
Our Reference		265912-47	265912-50	265912-52	265912-53	265912-56
Your Reference	UNITS	BH11/0.1	BH11/1.5	BH12/0.1	BH12/0.5	BH13/0.1
Date Sampled		29/03/2021	29/03/2021	29/03/2021	29/03/2021	30/03/2021
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	09/04/2021	09/04/2021	09/04/2021	09/04/2021	09/04/2021
Date analysed	-	09/04/2021	09/04/2021	09/04/2021	09/04/2021	09/04/2021
Dichlorvos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	92	98	99	95	100

Organophosphorus Pesticides in Soil						
Our Reference		265912-58	265912-60	265912-63	265912-64	265912-70
Your Reference	UNITS	BH13/1.0	BH14/0.1	BH14/2.0	BH01-T/0.1	BH02-T/0.5
Date Sampled		30/03/2021	30/03/2021	30/03/2021	25/03/2021	25/03/2021
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	09/04/2021	09/04/2021	09/04/2021	09/04/2021	09/04/2021
Date analysed	-	09/04/2021	09/04/2021	09/04/2021	09/04/2021	09/04/2021
Dichlorvos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	96	94	94	91	94

Organophosphorus Pesticides in Soil						
Our Reference		265912-72	265912-73	265912-77	265912-80	265912-81
Your Reference	UNITS	BH02-T/2.0	BH01-O/0.1	BH02-O/0.1	BH02-O/2.0	BH03-O/0.1
Date Sampled		25/03/2021	30/03/2021	30/03/2021	30/03/2021	30/03/2021
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	09/04/2021	09/04/2021	09/04/2021	09/04/2021	09/04/2021
Date analysed	-	09/04/2021	09/04/2021	09/04/2021	09/04/2021	09/04/2021
Dichlorvos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	96	95	93	97	96

Organophosphorus Pesticides in Soil						
Our Reference		265912-86	265912-91	265912-93	265912-95	265912-98
Your Reference	UNITS	BH04-O/0.1	BH05-O/0.5	BH05-O/2.0	BH06-O/0.5	BH07-O/0.1
Date Sampled		30/03/2021	29/03/2021	29/03/2021	29/03/2021	26/03/2021
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	09/04/2021	09/04/2021	09/04/2021	09/04/2021	09/04/2021
Date analysed	-	12/04/2021	12/04/2021	12/04/2021	12/04/2021	12/04/2021
Dichlorvos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	73	71	71	73	76

Organophosphorus Pesticides in Soil					
Our Reference		265912-104	265912-107	265912-111	265912-113
Your Reference	UNITS	BH08-O/0.5	BH09-O/0.1	BH10-O/0.1	BH10-O/1.0
Date Sampled		25/03/2021	26/03/2021	29/03/2021	29/03/2021
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	09/04/2021	09/04/2021	09/04/2021	09/04/2021
Date analysed	-	12/04/2021	12/04/2021	12/04/2021	12/04/2021
Dichlorvos	mg/kg	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos	mg/kg	<0.1	<0.1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	75	74	73	76

PCBs in Soil						
Our Reference		265912-1	265912-4	265912-5	265912-8	265912-11
Your Reference	UNITS	BH01/0.1	BH01/2.0	BH02/0.1	BH03/0.1	BH04/0.1
Date Sampled		25/03/2021	25/03/2021	26/03/2021	26/03/2021	29/03/2021
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	09/04/2021	09/04/2021	09/04/2021	09/04/2021	09/04/2021
Date analysed	-	09/04/2021	09/04/2021	09/04/2021	09/04/2021	09/04/2021
Aroclor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	94	93	93	99	93

PCBs in Soil						
Our Reference		265912-15	265912-19	265912-20	265912-24	265912-25
Your Reference	UNITS	BH05/0.1	BH05/3.0	BH06/0.1	BH06/3.0	BH07/0.1
Date Sampled		26/03/2021	26/03/2021	26/03/2021	26/03/2021	30/03/2021
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	09/04/2021	09/04/2021	09/04/2021	09/04/2021	09/04/2021
Date analysed	-	09/04/2021	09/04/2021	09/04/2021	09/04/2021	09/04/2021
Aroclor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	94	96	99	100	94

PCBs in Soil						
Our Reference		265912-31	265912-33	265912-38	265912-41	265912-46
Your Reference	UNITS	BH08/1.0	BH09/0.1	BH09/5.0	BH10/0.5	BH10/5.0
Date Sampled		29/03/2021	30/03/2021	30/03/2021	30/03/2021	30/03/2021
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	09/04/2021	09/04/2021	09/04/2021	09/04/2021	09/04/2021
Date analysed	-	09/04/2021	09/04/2021	09/04/2021	09/04/2021	09/04/2021
Aroclor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	93	91	93	96	92

PCBs in Soil						
Our Reference		265912-47	265912-50	265912-52	265912-53	265912-56
Your Reference	UNITS	BH11/0.1	BH11/1.5	BH12/0.1	BH12/0.5	BH13/0.1
Date Sampled		29/03/2021	29/03/2021	29/03/2021	29/03/2021	30/03/2021
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	09/04/2021	09/04/2021	09/04/2021	09/04/2021	09/04/2021
Date analysed	-	09/04/2021	09/04/2021	09/04/2021	09/04/2021	09/04/2021
Aroclor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	92	98	99	95	100

PCBs in Soil						
Our Reference		265912-58	265912-60	265912-63	265912-64	265912-70
Your Reference	UNITS	BH13/1.0	BH14/0.1	BH14/2.0	BH01-T/0.1	BH02-T/0.5
Date Sampled		30/03/2021	30/03/2021	30/03/2021	25/03/2021	25/03/2021
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	09/04/2021	09/04/2021	09/04/2021	09/04/2021	09/04/2021
Date analysed	-	09/04/2021	09/04/2021	09/04/2021	09/04/2021	09/04/2021
Aroclor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	96	94	94	91	94

PCBs in Soil						
Our Reference		265912-72	265912-73	265912-77	265912-80	265912-81
Your Reference	UNITS	BH02-T/2.0	BH01-O/0.1	BH02-O/0.1	BH02-O/2.0	BH03-O/0.1
Date Sampled		25/03/2021	30/03/2021	30/03/2021	30/03/2021	30/03/2021
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	09/04/2021	09/04/2021	09/04/2021	09/04/2021	09/04/2021
Date analysed	-	09/04/2021	09/04/2021	09/04/2021	09/04/2021	09/04/2021
Aroclor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	96	95	93	97	96

PCBs in Soil						
Our Reference		265912-86	265912-91	265912-93	265912-95	265912-98
Your Reference	UNITS	BH04-O/0.1	BH05-O/0.5	BH05-O/2.0	BH06-O/0.5	BH07-O/0.1
Date Sampled		30/03/2021	29/03/2021	29/03/2021	29/03/2021	26/03/2021
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	09/04/2021	09/04/2021	09/04/2021	09/04/2021	09/04/2021
Date analysed	-	12/04/2021	12/04/2021	12/04/2021	12/04/2021	12/04/2021
Aroclor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	73	71	71	73	76

PCBs in Soil					
Our Reference		265912-104	265912-107	265912-111	265912-113
Your Reference	UNITS	BH08-O/0.5	BH09-O/0.1	BH10-O/0.1	BH10-O/1.0
Date Sampled		25/03/2021	26/03/2021	29/03/2021	29/03/2021
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	09/04/2021	09/04/2021	09/04/2021	09/04/2021
Date analysed	-	12/04/2021	12/04/2021	12/04/2021	12/04/2021
Aroclor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	75	74	73	76

Misc Soil - Inorg						
Our Reference		265912-1	265912-5	265912-8	265912-11	265912-15
Your Reference	UNITS	BH01/0.1	BH02/0.1	BH03/0.1	BH04/0.1	BH05/0.1
Date Sampled		25/03/2021	26/03/2021	26/03/2021	29/03/2021	26/03/2021
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	08/04/2021	08/04/2021	08/04/2021	08/04/2021	08/04/2021
Date analysed	-	08/04/2021	08/04/2021	08/04/2021	08/04/2021	08/04/2021
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5	<5	<5

Misc Soil - Inorg						
Our Reference		265912-20	265912-25	265912-31	265912-33	265912-41
Your Reference	UNITS	BH06/0.1	BH07/0.1	BH08/1.0	BH09/0.1	BH10/0.5
Date Sampled		26/03/2021	30/03/2021	29/03/2021	30/03/2021	30/03/2021
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	08/04/2021	08/04/2021	08/04/2021	08/04/2021	08/04/2021
Date analysed	-	08/04/2021	08/04/2021	08/04/2021	08/04/2021	08/04/2021
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5	<5	<5

Misc Soil - Inorg						
Our Reference		265912-47	265912-52	265912-56	265912-60	265912-64
Your Reference	UNITS	BH11/0.1	BH12/0.1	BH13/0.1	BH14/0.1	BH01-T/0.1
Date Sampled		29/03/2021	29/03/2021	30/03/2021	30/03/2021	25/03/2021
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	08/04/2021	08/04/2021	08/04/2021	08/04/2021	08/04/2021
Date analysed	-	08/04/2021	08/04/2021	08/04/2021	08/04/2021	08/04/2021
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5	<5	<5

Misc Soil - Inorg						
Our Reference		265912-70	265912-73	265912-77	265912-81	265912-86
Your Reference	UNITS	BH02-T/0.5	BH01-O/0.1	BH02-O/0.1	BH03-O/0.1	BH04-O/0.1
Date Sampled		25/03/2021	30/03/2021	30/03/2021	30/03/2021	30/03/2021
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	08/04/2021	08/04/2021	08/04/2021	08/04/2021	08/04/2021
Date analysed	-	08/04/2021	08/04/2021	08/04/2021	08/04/2021	08/04/2021
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5	<5	<5

Misc Soil - Inorg						
Our Reference		265912-91	265912-95	265912-98	265912-104	265912-107
Your Reference	UNITS	BH05-O/0.5	BH06-O/0.5	BH07-O/0.1	BH08-O/0.5	BH09-O/0.1
Date Sampled		29/03/2021	29/03/2021	26/03/2021	25/03/2021	26/03/2021
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	08/04/2021	08/04/2021	08/04/2021	08/04/2021	08/04/2021
Date analysed	-	08/04/2021	08/04/2021	08/04/2021	08/04/2021	08/04/2021
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5	<5	<5

Misc Soil - Inorg		
Our Reference		265912-111
Your Reference	UNITS	BH10-O/0.1
Date Sampled		29/03/2021
Type of sample		Soil
Date prepared	-	08/04/2021
Date analysed	-	08/04/2021
Total Phenolics (as Phenol)	mg/kg	<5

Acid Extractable metals in soil						
Our Reference		265912-1	265912-4	265912-5	265912-8	265912-11
Your Reference	UNITS	BH01/0.1	BH01/2.0	BH02/0.1	BH03/0.1	BH04/0.1
Date Sampled		25/03/2021	25/03/2021	26/03/2021	26/03/2021	29/03/2021
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	08/04/2021	08/04/2021	08/04/2021	08/04/2021	08/04/2021
Date analysed	-	10/04/2021	10/04/2021	10/04/2021	10/04/2021	10/04/2021
Arsenic	mg/kg	<4	4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	8	10	19	11	9
Copper	mg/kg	3	22	5	4	3
Lead	mg/kg	7	6	15	6	11
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	2	3	3	2	2
Zinc	mg/kg	8	10	7	13	18

Acid Extractable metals in soil						
Our Reference		265912-15	265912-19	265912-20	265912-24	265912-25
Your Reference	UNITS	BH05/0.1	BH05/3.0	BH06/0.1	BH06/3.0	BH07/0.1
Date Sampled		26/03/2021	26/03/2021	26/03/2021	26/03/2021	30/03/2021
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	08/04/2021	08/04/2021	08/04/2021	08/04/2021	08/04/2021
Date analysed	-	10/04/2021	10/04/2021	10/04/2021	10/04/2021	10/04/2021
Arsenic	mg/kg	<4	<4	4	5	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	12	19	7	13	10
Copper	mg/kg	4	11	6	8	3
Lead	mg/kg	8	3	9	4	9
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	3	10	2	9	2
Zinc	mg/kg	8	13	5	10	8

Acid Extractable metals in soil						
Our Reference		265912-31	265912-33	265912-38	265912-41	265912-46
Your Reference	UNITS	BH08/1.0	BH09/0.1	BH09/5.0	BH10/0.5	BH10/5.0
Date Sampled		29/03/2021	30/03/2021	30/03/2021	30/03/2021	30/03/2021
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	08/04/2021	08/04/2021	08/04/2021	08/04/2021	08/04/2021
Date analysed	-	10/04/2021	10/04/2021	10/04/2021	10/04/2021	10/04/2021
Arsenic	mg/kg	<4	<4	7	<4	9
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	18	8	12	15	25
Copper	mg/kg	15	40	7	8	4
Lead	mg/kg	4	98	3	4	6
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	7	4	2	8	9
Zinc	mg/kg	18	16	5	11	14

Acid Extractable metals in soil						
Our Reference		265912-47	265912-50	265912-52	265912-53	265912-56
Your Reference	UNITS	BH11/0.1	BH11/1.5	BH12/0.1	BH12/0.5	BH13/0.1
Date Sampled		29/03/2021	29/03/2021	29/03/2021	29/03/2021	30/03/2021
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	08/04/2021	08/04/2021	08/04/2021	08/04/2021	08/04/2021
Date analysed	-	10/04/2021	10/04/2021	10/04/2021	10/04/2021	10/04/2021
Arsenic	mg/kg	6	<4	9	<4	4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	8	10	10	11	13
Copper	mg/kg	9	9	6	4	10
Lead	mg/kg	34	2	14	6	37
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	3	2	3	2	2
Zinc	mg/kg	33	4	21	5	33

Acid Extractable metals in soil						
Our Reference		265912-58	265912-60	265912-63	265912-64	265912-70
Your Reference	UNITS	BH13/1.0	BH14/0.1	BH14/2.0	BH01-T/0.1	BH02-T/0.5
Date Sampled		30/03/2021	30/03/2021	30/03/2021	25/03/2021	25/03/2021
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	08/04/2021	08/04/2021	08/04/2021	08/04/2021	08/04/2021
Date analysed	-	10/04/2021	10/04/2021	10/04/2021	10/04/2021	10/04/2021
Arsenic	mg/kg	6	9	7	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	17	19	18	7	16
Copper	mg/kg	11	36	5	4	9
Lead	mg/kg	4	380	2	7	9
Mercury	mg/kg	<0.1	0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	7	7	4	2	5
Zinc	mg/kg	7	120	13	14	9

Acid Extractable metals in soil						
Our Reference		265912-72	265912-73	265912-77	265912-80	265912-81
Your Reference	UNITS	BH02-T/2.0	BH01-O/0.1	BH02-O/0.1	BH02-O/2.0	BH03-O/0.1
Date Sampled		25/03/2021	30/03/2021	30/03/2021	30/03/2021	30/03/2021
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	08/04/2021	08/04/2021	08/04/2021	08/04/2021	08/04/2021
Date analysed	-	10/04/2021	10/04/2021	10/04/2021	10/04/2021	10/04/2021
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	17	20	8	27	13
Copper	mg/kg	7	6	4	10	3
Lead	mg/kg	2	20	10	9	8
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	2	3	2	9	2
Zinc	mg/kg	4	32	10	10	12

Acid Extractable metals in soil						
Our Reference		265912-86	265912-91	265912-93	265912-95	265912-98
Your Reference	UNITS	BH04-O/0.1	BH05-O/0.5	BH05-O/2.0	BH06-O/0.5	BH07-O/0.1
Date Sampled		30/03/2021	29/03/2021	29/03/2021	29/03/2021	26/03/2021
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	08/04/2021	08/04/2021	08/04/2021	08/04/2021	08/04/2021
Date analysed	-	10/04/2021	10/04/2021	10/04/2021	10/04/2021	10/04/2021
Arsenic	mg/kg	<4	<4	5	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	12	16	15	16	13
Copper	mg/kg	4	8	4	5	5
Lead	mg/kg	7	13	8	8	11
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	2	4	7	4	3
Zinc	mg/kg	9	24	6	12	15

Acid Extractable metals in soil						
Our Reference		265912-104	265912-107	265912-111	265912-113	265912-115
Your Reference	UNITS	BH08-O/0.5	BH09-O/0.1	BH10-O/0.1	BH10-O/1.0	R1
Date Sampled		25/03/2021	26/03/2021	29/03/2021	29/03/2021	25/03/2021
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	08/04/2021	08/04/2021	08/04/2021	08/04/2021	08/04/2021
Date analysed	-	10/04/2021	10/04/2021	10/04/2021	10/04/2021	10/04/2021
Arsenic	mg/kg	6	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	22	11	13	9	7
Copper	mg/kg	8	5	4	2	2
Lead	mg/kg	4	16	6	<1	6
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	10	2	3	1	1
Zinc	mg/kg	11	36	7	4	6

Acid Extractable metals in soil				
Our Reference		265912-116	265912-117	265912-122
Your Reference	UNITS	R2	R3	BH13/0.1 - [TRIPLICATE]
Date Sampled		25/03/2021	29/03/2021	30/03/2021
Type of sample		Soil	Soil	Soil
Date prepared	-	08/04/2021	08/04/2021	08/04/2021
Date analysed	-	10/04/2021	10/04/2021	10/04/2021
Arsenic	mg/kg	7	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4
Chromium	mg/kg	21	12	11
Copper	mg/kg	7	11	7
Lead	mg/kg	4	3	22
Mercury	mg/kg	<0.1	<0.1	<0.1
Nickel	mg/kg	10	6	2
Zinc	mg/kg	9	14	22

Moisture						
Our Reference		265912-1	265912-4	265912-5	265912-8	265912-11
Your Reference	UNITS	BH01/0.1	BH01/2.0	BH02/0.1	BH03/0.1	BH04/0.1
Date Sampled		25/03/2021	25/03/2021	26/03/2021	26/03/2021	29/03/2021
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	08/04/2021	08/04/2021	08/04/2021	08/04/2021	08/04/2021
Date analysed	-	09/04/2021	09/04/2021	09/04/2021	09/04/2021	09/04/2021
Moisture	%	17	7.7	12	13	19

Moisture						
Our Reference		265912-15	265912-19	265912-20	265912-24	265912-25
Your Reference	UNITS	BH05/0.1	BH05/3.0	BH06/0.1	BH06/3.0	BH07/0.1
Date Sampled		26/03/2021	26/03/2021	26/03/2021	26/03/2021	30/03/2021
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	08/04/2021	08/04/2021	08/04/2021	08/04/2021	08/04/2021
Date analysed	-	09/04/2021	09/04/2021	09/04/2021	09/04/2021	09/04/2021
Moisture	%	15	11	6.1	6.4	16

Moisture						
Our Reference		265912-31	265912-33	265912-38	265912-41	265912-46
Your Reference	UNITS	BH08/1.0	BH09/0.1	BH09/5.0	BH10/0.5	BH10/5.0
Date Sampled		29/03/2021	30/03/2021	30/03/2021	30/03/2021	30/03/2021
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	08/04/2021	08/04/2021	08/04/2021	08/04/2021	08/04/2021
Date analysed	-	09/04/2021	09/04/2021	09/04/2021	09/04/2021	09/04/2021
Moisture	%	16	16	9.3	1.5	28

Moisture						
Our Reference		265912-47	265912-50	265912-52	265912-53	265912-56
Your Reference	UNITS	BH11/0.1	BH11/1.5	BH12/0.1	BH12/0.5	BH13/0.1
Date Sampled		29/03/2021	29/03/2021	29/03/2021	29/03/2021	30/03/2021
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	08/04/2021	08/04/2021	08/04/2021	08/04/2021	08/04/2021
Date analysed	-	09/04/2021	09/04/2021	09/04/2021	09/04/2021	09/04/2021
Moisture	%	16	1.7	12	17	20

Moisture						
Our Reference		265912-58	265912-60	265912-63	265912-64	265912-70
Your Reference	UNITS	BH13/1.0	BH14/0.1	BH14/2.0	BH01-T/0.1	BH02-T/0.5
Date Sampled		30/03/2021	30/03/2021	30/03/2021	25/03/2021	25/03/2021
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	08/04/2021	08/04/2021	08/04/2021	08/04/2021	08/04/2021
Date analysed	-	09/04/2021	09/04/2021	09/04/2021	09/04/2021	09/04/2021
Moisture	%	18	13	12	16	13

Moisture						
Our Reference		265912-72	265912-73	265912-77	265912-80	265912-81
Your Reference	UNITS	BH02-T/2.0	BH01-O/0.1	BH02-O/0.1	BH02-O/2.0	BH03-O/0.1
Date Sampled		25/03/2021	30/03/2021	30/03/2021	30/03/2021	30/03/2021
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	08/04/2021	08/04/2021	08/04/2021	08/04/2021	08/04/2021
Date analysed	-	09/04/2021	09/04/2021	09/04/2021	09/04/2021	09/04/2021
Moisture	%	8.6	14	9.3	14	12

Moisture						
Our Reference		265912-86	265912-91	265912-93	265912-95	265912-98
Your Reference	UNITS	BH04-O/0.1	BH05-O/0.5	BH05-O/2.0	BH06-O/0.5	BH07-O/0.1
Date Sampled		30/03/2021	29/03/2021	29/03/2021	29/03/2021	26/03/2021
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	08/04/2021	08/04/2021	08/04/2021	08/04/2021	08/04/2021
Date analysed	-	09/04/2021	09/04/2021	09/04/2021	09/04/2021	09/04/2021
Moisture	%	17	16	10	13	13

Moisture						
Our Reference		265912-104	265912-107	265912-111	265912-113	265912-115
Your Reference	UNITS	BH08-O/0.5	BH09-O/0.1	BH10-O/0.1	BH10-O/1.0	R1
Date Sampled		25/03/2021	26/03/2021	29/03/2021	29/03/2021	25/03/2021
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	08/04/2021	08/04/2021	08/04/2021	08/04/2021	08/04/2021
Date analysed	-	09/04/2021	09/04/2021	09/04/2021	09/04/2021	09/04/2021
Moisture	%	13	14	11	6.1	17

Moisture			
Our Reference		265912-116	265912-117
Your Reference	UNITS	R2	R3
Date Sampled		25/03/2021	29/03/2021
Type of sample		Soil	Soil
Date prepared	-	08/04/2021	08/04/2021
Date analysed	-	09/04/2021	09/04/2021
Moisture	%	12	8.0

Asbestos ID - soils						
Our Reference		265912-1	265912-4	265912-5	265912-8	265912-11
Your Reference	UNITS	BH01/0.1	BH01/2.0	BH02/0.1	BH03/0.1	BH04/0.1
Date Sampled		25/03/2021	25/03/2021	26/03/2021	26/03/2021	29/03/2021
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	13/04/2021	13/04/2021	13/04/2021	13/04/2021	13/04/2021
Sample mass tested	g	Approx. 40g	Approx. 45g	Approx. 45g	Approx. 40g	Approx. 40g
Sample Description	-	Brown fine-grained soil & rocks	Beige fine-grained soil & rocks	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Asbestos comments	-	NO	NO	NO	NO	NO
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected

Asbestos ID - soils						
Our Reference		265912-15	265912-19	265912-20	265912-24	265912-25
Your Reference	UNITS	BH05/0.1	BH05/3.0	BH06/0.1	BH06/3.0	BH07/0.1
Date Sampled		26/03/2021	26/03/2021	26/03/2021	26/03/2021	30/03/2021
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	13/04/2021	13/04/2021	13/04/2021	13/04/2021	13/04/2021
Sample mass tested	g	Approx. 35g	Approx. 40g	Approx. 50g	Approx. 40g	Approx. 35g
Sample Description	-	Brown coarse-grained soil & rocks	Beige fine-grained soil & rocks	Brown coarse-grained soil & rocks	Beige fine-grained soil & rocks	Brown coarse-grained soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Asbestos comments	-	NO	NO	NO	NO	NO
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected

Asbestos ID - soils						
Our Reference		265912-31	265912-33	265912-38	265912-41	265912-46
Your Reference	UNITS	BH08/1.0	BH09/0.1	BH09/5.0	BH10/0.5	BH10/5.0
Date Sampled		29/03/2021	30/03/2021	30/03/2021	30/03/2021	30/03/2021
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	13/04/2021	13/04/2021	13/04/2021	13/04/2021	13/04/2021
Sample mass tested	g	Approx. 40g	Approx. 40g	Approx. 35g	Approx. 35g	Approx. 40g
Sample Description	-	Beige fine-grained soil & rocks	Brown coarse-grained soil & rocks	Beige fine-grained soil & rocks	Brown coarse-grained soil & rocks	Beige fine-grained soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Asbestos comments	-	NO	NO	NO	NO	NO
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected

Asbestos ID - soils						
Our Reference		265912-47	265912-50	265912-52	265912-53	265912-56
Your Reference	UNITS	BH11/0.1	BH11/1.5	BH12/0.1	BH12/0.5	BH13/0.1
Date Sampled		29/03/2021	29/03/2021	29/03/2021	29/03/2021	30/03/2021
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	13/04/2021	13/04/2021	13/04/2021	13/04/2021	13/04/2021
Sample mass tested	g	Approx. 40g	Approx. 40g	Approx. 35g	Approx. 35g	Approx. 40g
Sample Description	-	Brown coarse-grained soil & rocks	Beige fine-grained soil & rocks	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks	Grey coarse-grained soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Asbestos comments	-	NO	NO	NO	NO	NO
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected

Asbestos ID - soils						
Our Reference		265912-58	265912-60	265912-63	265912-64	265912-70
Your Reference	UNITS	BH13/1.0	BH14/0.1	BH14/2.0	BH01-T/0.1	BH02-T/0.5
Date Sampled		30/03/2021	30/03/2021	30/03/2021	25/03/2021	25/03/2021
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	13/04/2021	13/04/2021	13/04/2021	13/04/2021	13/04/2021
Sample mass tested	g	Approx. 35g	Approx. 40g	Approx. 35g	Approx. 30g	Approx. 35g
Sample Description	-	Beige fine-grained soil & rocks	Brown coarse-grained soil & rocks	Beige fine-grained soil & rocks	Brown fine-grained soil & rocks	Brown coarse-grained soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Asbestos comments	-	NO	NO	NO	NO	NO
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected

Asbestos ID - soils						
Our Reference		265912-72	265912-73	265912-77	265912-80	265912-81
Your Reference	UNITS	BH02-T/2.0	BH01-O/0.1	BH02-O/0.1	BH02-O/2.0	BH03-O/0.1
Date Sampled		25/03/2021	30/03/2021	30/03/2021	30/03/2021	30/03/2021
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	13/04/2021	13/04/2021	13/04/2021	13/04/2021	13/04/2021
Sample mass tested	g	Approx. 45g	Approx. 40g	Approx. 40g	Approx. 40g	Approx. 40g
Sample Description	-	Beige fine-grained soil & rocks	Brown coarse-grained soil & rocks	Brown fine-grained soil & rocks	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Asbestos comments	-	NO	NO	NO	NO	NO
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected

Asbestos ID - soils						
Our Reference		265912-86	265912-91	265912-93	265912-95	265912-98
Your Reference	UNITS	BH04-O/0.1	BH05-O/0.5	BH05-O/2.0	BH06-O/0.5	BH07-O/0.1
Date Sampled		30/03/2021	29/03/2021	29/03/2021	29/03/2021	26/03/2021
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	13/04/2021	13/04/2021	13/04/2021	13/04/2021	13/04/2021
Sample mass tested	g	Approx. 40g	Approx. 35g	Approx. 45g	Approx. 40g	Approx. 40g
Sample Description	-	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks	Beige coarse-grained soil & rocks	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Asbestos comments	-	NO	NO	NO	NO	NO
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected

Asbestos ID - soils					
Our Reference		265912-104	265912-107	265912-111	265912-113
Your Reference	UNITS	BH08-O/0.5	BH09-O/0.1	BH10-O/0.1	BH10-O/1.0
Date Sampled		25/03/2021	26/03/2021	29/03/2021	29/03/2021
Type of sample		Soil	Soil	Soil	Soil
Date analysed	-	13/04/2021	13/04/2021	13/04/2021	13/04/2021
Sample mass tested	g	Approx. 35g	Approx. 35g	Approx. 35g	Approx. 35g
Sample Description	-	Brown coarse-grained soil & rocks	Brown fine-grained soil & rocks	Brown coarse-grained soil & rocks	Beige fine-grained soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Asbestos comments	-	NO	NO	NO	NO
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected

Method ID	Methodology Summary
ASB-001	Asbestos ID - Qualitative identification of asbestos in bulk samples using Polarised Light Microscopy and Dispersion Staining Techniques including Synthetic Mineral Fibre and Organic Fibre as per Australian Standard 4964-2004.
Inorg-008	Moisture content determined by heating at 105+/-5 °C for a minimum of 12 hours.
Inorg-031	Total Phenolics by segmented flow analyser (in line distillation with colourimetric finish). Solids are extracted in a caustic media prior to analysis.
Metals-020	Determination of various metals by ICP-AES.
Metals-021	Determination of Mercury by Cold Vapour AAS.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis. Note, the Total +ve TRH PQL is reflective of the lowest individual PQL and is therefore "Total +ve TRH" is simply a sum of the positive individual TRH fractions (>C10-C40).
Org-021	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD.
Org-021	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD. Note, the Total +ve PCBs PQL is reflective of the lowest individual PQL and is therefore" Total +ve PCBs" is simply a sum of the positive individual PCBs.
Org-022	Determination of VOCs sampled onto coconut shell charcoal sorbent tubes, that can be desorbed using carbon disulphide, and analysed by GC-MS.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS.
Org-022/025	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-MS/GC-MSMS. Note, the Total +ve reported DDD+DDE+DDT PQL is reflective of the lowest individual PQL and is therefore simply a sum of the positive individually report DDD+DDE+DDT.

Method ID	Methodology Summary
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS and/or GC-MS/MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013. For soil results:- 1. 'EQ PQL'values are assuming all contributing PAHs reported as <PQL are actually at the PQL. This is the most conservative approach and can give false positive TEQs given that PAHs that contribute to the TEQ calculation may not be present. 2. 'EQ zero'values are assuming all contributing PAHs reported as <PQL are zero. This is the least conservative approach and is more susceptible to false negative TEQs when PAHs that contribute to the TEQ calculation are present but below PQL. 3. 'EQ half PQL'values are assuming all contributing PAHs reported as <PQL are half the stipulated PQL. Hence a mid-point between the most and least conservative approaches above. Note, the Total +ve PAHs PQL is reflective of the lowest individual PQL and is therefore "Total +ve PAHs" is simply a sum of the positive individual PAHs.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	265912-5
Date extracted	-			08/04/2021	1	08/04/2021	08/04/2021		08/04/2021	08/04/2021
Date analysed	-			12/04/2021	1	12/04/2021	12/04/2021		12/04/2021	12/04/2021
TRH C_6 - C_9	mg/kg	25	Org-023	<25	1	<25	<25	0	94	91
TRH C_6 - C_{10}	mg/kg	25	Org-023	<25	1	<25	<25	0	94	91
Benzene	mg/kg	0.2	Org-023	<0.2	1	<0.2	<0.2	0	86	80
Toluene	mg/kg	0.5	Org-023	<0.5	1	<0.5	<0.5	0	103	104
Ethylbenzene	mg/kg	1	Org-023	<1	1	<1	<1	0	89	87
m+p-xylene	mg/kg	2	Org-023	<2	1	<2	<2	0	96	93
o-Xylene	mg/kg	1	Org-023	<1	1	<1	<1	0	100	97
naphthalene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	128	1	125	103	19	100	113

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-2	265912-60
Date extracted	-			[NT]	31	08/04/2021	08/04/2021		08/04/2021	08/04/2021
Date analysed	-			[NT]	31	12/04/2021	12/04/2021		12/04/2021	12/04/2021
TRH C_6 - C_9	mg/kg	25	Org-023	[NT]	31	<25	<25	0	108	103
TRH C_6 - C_{10}	mg/kg	25	Org-023	[NT]	31	<25	<25	0	108	103
Benzene	mg/kg	0.2	Org-023	[NT]	31	<0.2	<0.2	0	97	91
Toluene	mg/kg	0.5	Org-023	[NT]	31	<0.5	<0.5	0	118	111
Ethylbenzene	mg/kg	1	Org-023	[NT]	31	<1	<1	0	104	100
m+p-xylene	mg/kg	2	Org-023	[NT]	31	<2	<2	0	111	106
o-Xylene	mg/kg	1	Org-023	[NT]	31	<1	<1	0	116	109
naphthalene	mg/kg	1	Org-023	[NT]	31	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	31	112	134	18	120	124

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	265912-98
Date extracted	-			[NT]	56	08/04/2021	08/04/2021		08/04/2021	08/04/2021
Date analysed	-			[NT]	56	12/04/2021	12/04/2021		12/04/2021	12/04/2021
TRH C_6 - C_9	mg/kg	25	Org-023	[NT]	56	<25	<25	0	111	81
TRH C_6 - C_{10}	mg/kg	25	Org-023	[NT]	56	<25	<25	0	111	81
Benzene	mg/kg	0.2	Org-023	[NT]	56	<0.2	<0.2	0	103	70
Toluene	mg/kg	0.5	Org-023	[NT]	56	<0.5	<0.5	0	118	92
Ethylbenzene	mg/kg	1	Org-023	[NT]	56	<1	<1	0	106	77
m+p-xylene	mg/kg	2	Org-023	[NT]	56	<2	<2	0	113	82
o-Xylene	mg/kg	1	Org-023	[NT]	56	<1	<1	0	116	84
naphthalene	mg/kg	1	Org-023	[NT]	56	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	56	107	127	17	126	94

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	95	08/04/2021	08/04/2021		[NT]	[NT]
Date analysed	-			[NT]	95	12/04/2021	12/04/2021		[NT]	[NT]
TRH C_6 - C_9	mg/kg	25	Org-023	[NT]	95	<25	<25	0	[NT]	[NT]
TRH C_6 - C_{10}	mg/kg	25	Org-023	[NT]	95	<25	<25	0	[NT]	[NT]
Benzene	mg/kg	0.2	Org-023	[NT]	95	<0.2	<0.2	0	[NT]	[NT]
Toluene	mg/kg	0.5	Org-023	[NT]	95	<0.5	<0.5	0	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-023	[NT]	95	<1	<1	0	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-023	[NT]	95	<2	<2	0	[NT]	[NT]
o-Xylene	mg/kg	1	Org-023	[NT]	95	<1	<1	0	[NT]	[NT]
naphthalene	mg/kg	1	Org-023	[NT]	95	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	95	112	124	10	[NT]	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	265912-5
Date extracted	-			08/04/2021	1	08/04/2021	08/04/2021		08/04/2021	08/04/2021
Date analysed	-			10/04/2021	1	09/04/2021	09/04/2021		10/04/2021	09/04/2021
TRH C_{10} - C_{14}	mg/kg	50	Org-020	<50	1	<50	<50	0	96	92
TRH C_{15} - C_{28}	mg/kg	100	Org-020	<100	1	<100	<100	0	75	75
TRH C_{29} - C_{36}	mg/kg	100	Org-020	<100	1	<100	<100	0	77	101
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	<50	1	<50	<50	0	96	92
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	<100	1	<100	<100	0	75	75
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	<100	1	<100	<100	0	77	101
Surrogate o-Terphenyl	%		Org-020	78	1	77	76	1	83	79

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-2	265912-60
Date extracted	-			[NT]	31	08/04/2021	08/04/2021		08/04/2021	08/04/2021
Date analysed	-			[NT]	31	09/04/2021	09/04/2021		09/04/2021	10/04/2021
TRH C_{10} - C_{14}	mg/kg	50	Org-020	[NT]	31	<50	<50	0	94	90
TRH C_{15} - C_{28}	mg/kg	100	Org-020	[NT]	31	<100	<100	0	68	68
TRH C_{29} - C_{36}	mg/kg	100	Org-020	[NT]	31	<100	<100	0	77	77
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	[NT]	31	<50	<50	0	94	90
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	[NT]	31	<100	<100	0	68	68
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	[NT]	31	<100	<100	0	77	77
Surrogate o-Terphenyl	%		Org-020	[NT]	31	76	77	1	82	80

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	265912-98
Date extracted	-			[NT]	56	08/04/2021	08/04/2021		08/04/2021	08/04/2021
Date analysed	-			[NT]	56	09/04/2021	10/04/2021		09/04/2021	10/04/2021
TRH C_{10} - C_{14}	mg/kg	50	Org-020	[NT]	56	<50	<50	0	96	88
TRH C_{15} - C_{28}	mg/kg	100	Org-020	[NT]	56	<100	<100	0	75	70
TRH C_{29} - C_{36}	mg/kg	100	Org-020	[NT]	56	<100	<100	0	77	113
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	[NT]	56	<50	<50	0	96	88
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	[NT]	56	<100	<100	0	75	70
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	[NT]	56	<100	<100	0	77	113
Surrogate o-Terphenyl	%		Org-020	[NT]	56	75	77	3	83	80

QUALITY CONTROL: svTRH (C10-C40) in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	73	08/04/2021	08/04/2021		[NT]	[NT]
Date analysed	-			[NT]	73	10/04/2021	10/04/2021		[NT]	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	[NT]	73	<50	<50	0	[NT]	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	[NT]	73	<100	<100	0	[NT]	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	[NT]	73	<100	<100	0	[NT]	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	[NT]	73	<50	<50	0	[NT]	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	[NT]	73	<100	<100	0	[NT]	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	[NT]	73	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-020	[NT]	73	75	77	3	[NT]	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	95	08/04/2021	08/04/2021		[NT]	[NT]
Date analysed	-			[NT]	95	10/04/2021	10/04/2021		[NT]	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	[NT]	95	<50	<50	0	[NT]	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	[NT]	95	<100	<100	0	[NT]	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	[NT]	95	<100	<100	0	[NT]	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	[NT]	95	<50	<50	0	[NT]	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	[NT]	95	<100	<100	0	[NT]	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	[NT]	95	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-020	[NT]	95	78	80	3	[NT]	[NT]

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	265912-5
Date extracted	-			09/04/2021	1	09/04/2021	09/04/2021		09/04/2021	09/04/2021
Date analysed	-			09/04/2021	1	09/04/2021	09/04/2021		09/04/2021	09/04/2021
Naphthalene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	88	84
Acenaphthylene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	79	74
Fluorene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	91	86
Phenanthrene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	123	98
Anthracene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	96	96
Pyrene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	103	106
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	80	76
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	<0.2	1	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	<0.05	1	<0.05	<0.05	0	71	71
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	118	1	100	103	3	106	106

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-2	265912-60
Date extracted	-			[NT]	31	09/04/2021	09/04/2021		09/04/2021	09/04/2021
Date analysed	-			[NT]	31	09/04/2021	09/04/2021		09/04/2021	09/04/2021
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	31	<0.1	<0.1	0	90	88
Acenaphthylene	mg/kg	0.1	Org-022/025	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	31	<0.1	<0.1	0	79	76
Fluorene	mg/kg	0.1	Org-022/025	[NT]	31	<0.1	<0.1	0	95	84
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	31	<0.1	<0.1	0	95	93
Anthracene	mg/kg	0.1	Org-022/025	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	31	<0.1	<0.1	0	91	91
Pyrene	mg/kg	0.1	Org-022/025	[NT]	31	<0.1	<0.1	0	95	97
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	31	<0.1	<0.1	0	82	90
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	[NT]	31	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	31	<0.05	<0.05	0	81	90
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	31	99	93	6	105	110

QUALITY CONTROL: PAHs in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	265912-98
Date extracted	-			[NT]	56	09/04/2021	09/04/2021		09/04/2021	09/04/2021
Date analysed	-			[NT]	56	09/04/2021	09/04/2021		12/04/2021	12/04/2021
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	56	<0.1	<0.1	0	75	92
Acenaphthylene	mg/kg	0.1	Org-022/025	[NT]	56	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	56	<0.1	<0.1	0	74	86
Fluorene	mg/kg	0.1	Org-022/025	[NT]	56	<0.1	<0.1	0	70	94
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	56	<0.1	<0.1	0	73	96
Anthracene	mg/kg	0.1	Org-022/025	[NT]	56	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	56	<0.1	<0.1	0	65	92
Pyrene	mg/kg	0.1	Org-022/025	[NT]	56	<0.1	<0.1	0	64	96
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	[NT]	56	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	56	<0.1	<0.1	0	68	84
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	[NT]	56	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	56	<0.05	<0.05	0	71	112
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	[NT]	56	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	[NT]	56	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	[NT]	56	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	56	108	103	5	87	79

QUALITY CONTROL: PAHs in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	95	09/04/2021	09/04/2021		[NT]	[NT]
Date analysed	-			[NT]	95	12/04/2021	12/04/2021		[NT]	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	95	<0.1	<0.1	0	[NT]	[NT]
Acenaphthylene	mg/kg	0.1	Org-022/025	[NT]	95	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	95	<0.1	<0.1	0	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-022/025	[NT]	95	<0.1	<0.1	0	[NT]	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	95	<0.1	<0.1	0	[NT]	[NT]
Anthracene	mg/kg	0.1	Org-022/025	[NT]	95	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	95	<0.1	<0.1	0	[NT]	[NT]
Pyrene	mg/kg	0.1	Org-022/025	[NT]	95	<0.1	<0.1	0	[NT]	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	[NT]	95	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	95	<0.1	<0.1	0	[NT]	[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	[NT]	95	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	95	<0.05	<0.05	0	[NT]	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	[NT]	95	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	[NT]	95	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	[NT]	95	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	95	66	70	6	[NT]	[NT]

QUALITY CONTROL: Organochlorine Pesticides in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	265912-5
Date extracted	-			09/04/2021	1	09/04/2021	09/04/2021		09/04/2021	09/04/2021
Date analysed	-			12/04/2021	1	09/04/2021	09/04/2021		09/04/2021	09/04/2021
alpha-BHC	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	94	89
HCB	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	89	83
gamma-BHC	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	99	107
delta-BHC	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	105	114
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	107	112
gamma-Chlordane	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	106	111
Dieldrin	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	99	103
Endrin	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	96	95
Endosulfan II	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	95	97
Endrin Aldehyde	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	101	95
Methoxychlor	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	75	1	94	93	1	105	99

QUALITY CONTROL: Organochlorine Pesticides in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-2	265912-60
Date extracted	-			[NT]	31	09/04/2021	09/04/2021		09/04/2021	09/04/2021
Date analysed	-			[NT]	31	09/04/2021	09/04/2021		09/04/2021	09/04/2021
alpha-BHC	mg/kg	0.1	Org-022/025	[NT]	31	<0.1	<0.1	0	94	90
HCB	mg/kg	0.1	Org-022/025	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	[NT]	31	<0.1	<0.1	0	96	77
gamma-BHC	mg/kg	0.1	Org-022/025	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	[NT]	31	<0.1	<0.1	0	107	97
delta-BHC	mg/kg	0.1	Org-022/025	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	[NT]	31	<0.1	<0.1	0	103	101
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	[NT]	31	<0.1	<0.1	0	99	99
gamma-Chlordane	mg/kg	0.1	Org-022/025	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	[NT]	31	<0.1	<0.1	0	106	101
Dieldrin	mg/kg	0.1	Org-022/025	[NT]	31	<0.1	<0.1	0	103	103
Endrin	mg/kg	0.1	Org-022/025	[NT]	31	<0.1	<0.1	0	96	86
Endosulfan II	mg/kg	0.1	Org-022/025	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	[NT]	31	<0.1	<0.1	0	90	92
Endrin Aldehyde	mg/kg	0.1	Org-022/025	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	[NT]	31	<0.1	<0.1	0	86	86
Methoxychlor	mg/kg	0.1	Org-022/025	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	31	93	95	2	106	100

QUALITY CONTROL: Organochlorine Pesticides in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	265912-98
Date extracted	-			[NT]	56	09/04/2021	09/04/2021		09/04/2021	09/04/2021
Date analysed	-			[NT]	56	09/04/2021	09/04/2021		12/04/2021	12/04/2021
alpha-BHC	mg/kg	0.1	Org-022/025	[NT]	56	<0.1	<0.1	0	70	66
HCB	mg/kg	0.1	Org-022/025	[NT]	56	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	[NT]	56	<0.1	<0.1	0	72	70
gamma-BHC	mg/kg	0.1	Org-022/025	[NT]	56	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	[NT]	56	<0.1	<0.1	0	70	70
delta-BHC	mg/kg	0.1	Org-022/025	[NT]	56	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	[NT]	56	<0.1	<0.1	0	70	72
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	[NT]	56	<0.1	<0.1	0	72	70
gamma-Chlordane	mg/kg	0.1	Org-022/025	[NT]	56	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	[NT]	56	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	[NT]	56	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	[NT]	56	<0.1	<0.1	0	72	72
Dieldrin	mg/kg	0.1	Org-022/025	[NT]	56	<0.1	<0.1	0	73	73
Endrin	mg/kg	0.1	Org-022/025	[NT]	56	<0.1	<0.1	0	75	73
Endosulfan II	mg/kg	0.1	Org-022/025	[NT]	56	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	[NT]	56	<0.1	<0.1	0	68	67
Endrin Aldehyde	mg/kg	0.1	Org-022/025	[NT]	56	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	[NT]	56	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	[NT]	56	<0.1	<0.1	0	67	82
Methoxychlor	mg/kg	0.1	Org-022/025	[NT]	56	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	56	100	92	8	84	85

QUALITY CONTROL: Organochlorine Pesticides in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	95	09/04/2021	09/04/2021		[NT]	[NT]
Date analysed	-			[NT]	95	12/04/2021	12/04/2021		[NT]	[NT]
alpha-BHC	mg/kg	0.1	Org-022/025	[NT]	95	<0.1	<0.1	0	[NT]	[NT]
HCB	mg/kg	0.1	Org-022/025	[NT]	95	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	[NT]	95	<0.1	<0.1	0	[NT]	[NT]
gamma-BHC	mg/kg	0.1	Org-022/025	[NT]	95	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	[NT]	95	<0.1	<0.1	0	[NT]	[NT]
delta-BHC	mg/kg	0.1	Org-022/025	[NT]	95	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	[NT]	95	<0.1	<0.1	0	[NT]	[NT]
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	[NT]	95	<0.1	<0.1	0	[NT]	[NT]
gamma-Chlordane	mg/kg	0.1	Org-022/025	[NT]	95	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	[NT]	95	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	[NT]	95	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	[NT]	95	<0.1	<0.1	0	[NT]	[NT]
Dieldrin	mg/kg	0.1	Org-022/025	[NT]	95	<0.1	<0.1	0	[NT]	[NT]
Endrin	mg/kg	0.1	Org-022/025	[NT]	95	<0.1	<0.1	0	[NT]	[NT]
Endosulfan II	mg/kg	0.1	Org-022/025	[NT]	95	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	[NT]	95	<0.1	<0.1	0	[NT]	[NT]
Endrin Aldehyde	mg/kg	0.1	Org-022/025	[NT]	95	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	[NT]	95	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	[NT]	95	<0.1	<0.1	0	[NT]	[NT]
Methoxychlor	mg/kg	0.1	Org-022/025	[NT]	95	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	95	73	75	3	[NT]	[NT]

QUALITY CONTROL: Organophosphorus Pesticides in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	265912-5
Date extracted	-			09/04/2021	1	09/04/2021	09/04/2021		09/04/2021	09/04/2021
Date analysed	-			09/04/2021	1	09/04/2021	09/04/2021		09/04/2021	09/04/2021
Dichlorvos	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	94	71
Dimethoate	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Diazinon	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Chlorpyriphos-methyl	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Ronnel	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	95	95
Fenitrothion	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	93	71
Malathion	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	100	92
Chlorpyriphos	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	91	95
Parathion	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	88	86
Bromophos-ethyl	mg/kg	0.1	Org-022	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Ethion	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	77	71
Azinphos-methyl (Guthion)	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	105	1	94	93	1	105	99

QUALITY CONTROL: Organophosphorus Pesticides in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-2	265912-60
Date extracted	-			[NT]	31	09/04/2021	09/04/2021		09/04/2021	09/04/2021
Date analysed	-			[NT]	31	09/04/2021	09/04/2021		09/04/2021	09/04/2021
Dichlorvos	mg/kg	0.1	Org-022/025	[NT]	31	<0.1	<0.1	0	67	82
Dimethoate	mg/kg	0.1	Org-022/025	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
Diazinon	mg/kg	0.1	Org-022/025	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
Chlorpyriphos-methyl	mg/kg	0.1	Org-022/025	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
Ronnel	mg/kg	0.1	Org-022/025	[NT]	31	<0.1	<0.1	0	91	95
Fenitrothion	mg/kg	0.1	Org-022/025	[NT]	31	<0.1	<0.1	0	71	81
Malathion	mg/kg	0.1	Org-022/025	[NT]	31	<0.1	<0.1	0	76	78
Chlorpyriphos	mg/kg	0.1	Org-022/025	[NT]	31	<0.1	<0.1	0	89	85
Parathion	mg/kg	0.1	Org-022/025	[NT]	31	<0.1	<0.1	0	76	80
Bromophos-ethyl	mg/kg	0.1	Org-022	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
Ethion	mg/kg	0.1	Org-022/025	[NT]	31	<0.1	<0.1	0	71	75
Azinphos-methyl (Guthion)	mg/kg	0.1	Org-022/025	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	31	93	95	2	106	100

QUALITY CONTROL: Organophosphorus Pesticides in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	265912-98
Date extracted	-			[NT]	56	09/04/2021	09/04/2021		09/04/2021	09/04/2021
Date analysed	-			[NT]	56	09/04/2021	09/04/2021		12/04/2021	12/04/2021
Dichlorvos	mg/kg	0.1	Org-022/025	[NT]	56	<0.1	<0.1	0	65	86
Dimethoate	mg/kg	0.1	Org-022/025	[NT]	56	<0.1	<0.1	0	[NT]	[NT]
Diazinon	mg/kg	0.1	Org-022/025	[NT]	56	<0.1	<0.1	0	[NT]	[NT]
Chlorpyriphos-methyl	mg/kg	0.1	Org-022/025	[NT]	56	<0.1	<0.1	0	[NT]	[NT]
Ronnel	mg/kg	0.1	Org-022/025	[NT]	56	<0.1	<0.1	0	70	90
Fenitrothion	mg/kg	0.1	Org-022/025	[NT]	56	<0.1	<0.1	0	69	90
Malathion	mg/kg	0.1	Org-022/025	[NT]	56	<0.1	<0.1	0	76	88
Chlorpyriphos	mg/kg	0.1	Org-022/025	[NT]	56	<0.1	<0.1	0	80	100
Parathion	mg/kg	0.1	Org-022/025	[NT]	56	<0.1	<0.1	0	65	82
Bromophos-ethyl	mg/kg	0.1	Org-022	[NT]	56	<0.1	<0.1	0	[NT]	[NT]
Ethion	mg/kg	0.1	Org-022/025	[NT]	56	<0.1	<0.1	0	67	80
Azinphos-methyl (Guthion)	mg/kg	0.1	Org-022/025	[NT]	56	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	56	100	92	8	84	95

QUALITY CONTROL: Organophosphorus Pesticides in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	95	09/04/2021	09/04/2021		[NT]	[NT]
Date analysed	-			[NT]	95	12/04/2021	12/04/2021		[NT]	[NT]
Dichlorvos	mg/kg	0.1	Org-022/025	[NT]	95	<0.1	<0.1	0	[NT]	[NT]
Dimethoate	mg/kg	0.1	Org-022/025	[NT]	95	<0.1	<0.1	0	[NT]	[NT]
Diazinon	mg/kg	0.1	Org-022/025	[NT]	95	<0.1	<0.1	0	[NT]	[NT]
Chlorpyriphos-methyl	mg/kg	0.1	Org-022/025	[NT]	95	<0.1	<0.1	0	[NT]	[NT]
Ronnel	mg/kg	0.1	Org-022/025	[NT]	95	<0.1	<0.1	0	[NT]	[NT]
Fenitrothion	mg/kg	0.1	Org-022/025	[NT]	95	<0.1	<0.1	0	[NT]	[NT]
Malathion	mg/kg	0.1	Org-022/025	[NT]	95	<0.1	<0.1	0	[NT]	[NT]
Chlorpyriphos	mg/kg	0.1	Org-022/025	[NT]	95	<0.1	<0.1	0	[NT]	[NT]
Parathion	mg/kg	0.1	Org-022/025	[NT]	95	<0.1	<0.1	0	[NT]	[NT]
Bromophos-ethyl	mg/kg	0.1	Org-022	[NT]	95	<0.1	<0.1	0	[NT]	[NT]
Ethion	mg/kg	0.1	Org-022/025	[NT]	95	<0.1	<0.1	0	[NT]	[NT]
Azinphos-methyl (Guthion)	mg/kg	0.1	Org-022/025	[NT]	95	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	95	73	75	3	[NT]	[NT]

QUALITY CONTROL: PCBs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	265912-5
Date extracted	-			09/04/2021	1	09/04/2021	09/04/2021		09/04/2021	09/04/2021
Date analysed	-			12/04/2021	1	09/04/2021	09/04/2021		09/04/2021	09/04/2021
Aroclor 1016	mg/kg	0.1	Org-021	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021	<0.1	1	<0.1	<0.1	0	70	79
Aroclor 1260	mg/kg	0.1	Org-021	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-021	75	1	94	93	1	105	99

QUALITY CONTROL: PCBs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-2	265912-60
Date extracted	-			[NT]	31	09/04/2021	09/04/2021		09/04/2021	09/04/2021
Date analysed	-			[NT]	31	09/04/2021	09/04/2021		09/04/2021	09/04/2021
Aroclor 1016	mg/kg	0.1	Org-021	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021	[NT]	31	<0.1	<0.1	0	80	86
Aroclor 1260	mg/kg	0.1	Org-021	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-021	[NT]	31	93	95	2	106	100

QUALITY CONTROL: PCBs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	265912-98
Date extracted	-			[NT]	56	09/04/2021	09/04/2021		09/04/2021	09/04/2021
Date analysed	-			[NT]	56	09/04/2021	09/04/2021		12/04/2021	12/04/2021
Aroclor 1016	mg/kg	0.1	Org-021	[NT]	56	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021	[NT]	56	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021	[NT]	56	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021	[NT]	56	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021	[NT]	56	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021	[NT]	56	<0.1	<0.1	0	86	78
Aroclor 1260	mg/kg	0.1	Org-021	[NT]	56	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-021	[NT]	56	100	92	8	84	85

QUALITY CONTROL: PCBs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	95	09/04/2021	09/04/2021		[NT]	[NT]
Date analysed	-			[NT]	95	12/04/2021	12/04/2021		[NT]	[NT]
Aroclor 1016	mg/kg	0.1	Org-021	[NT]	95	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021	[NT]	95	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021	[NT]	95	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021	[NT]	95	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021	[NT]	95	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021	[NT]	95	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1260	mg/kg	0.1	Org-021	[NT]	95	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-021	[NT]	95	73	75	3	[NT]	[NT]

QUALITY CONTROL: Misc Soil - Inorg						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	265912-5
Date prepared	-			08/04/2021	1	08/04/2021	08/04/2021		08/04/2021	08/04/2021
Date analysed	-			08/04/2021	1	08/04/2021	08/04/2021		08/04/2021	08/04/2021
Total Phenolics (as Phenol)	mg/kg	5	Inorg-031	<5	1	<5	<5	0	98	96

QUALITY CONTROL: Misc Soil - Inorg						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-2	265912-60
Date prepared	-			[NT]	31	08/04/2021	08/04/2021		08/04/2021	08/04/2021
Date analysed	-			[NT]	31	08/04/2021	08/04/2021		08/04/2021	08/04/2021
Total Phenolics (as Phenol)	mg/kg	5	Inorg-031	[NT]	31	<5	<5	0	101	97

QUALITY CONTROL: Misc Soil - Inorg						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	56	08/04/2021	08/04/2021		[NT]	[NT]
Date analysed	-			[NT]	56	08/04/2021	08/04/2021		[NT]	[NT]
Total Phenolics (as Phenol)	mg/kg	5	Inorg-031	[NT]	56	<5	<5	0	[NT]	[NT]

QUALITY CONTROL: Acid Extractable metals in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	265912-5
Date prepared	-			08/04/2021	1	08/04/2021	08/04/2021		08/04/2021	08/04/2021
Date analysed	-			10/04/2021	1	10/04/2021	10/04/2021		10/04/2021	10/04/2021
Arsenic	mg/kg	4	Metals-020	<4	1	<4	<4	0	72	77
Cadmium	mg/kg	0.4	Metals-020	<0.4	1	<0.4	<0.4	0	72	77
Chromium	mg/kg	1	Metals-020	<1	1	8	9	12	71	82
Copper	mg/kg	1	Metals-020	<1	1	3	3	0	87	81
Lead	mg/kg	1	Metals-020	<1	1	7	8	13	86	73
Mercury	mg/kg	0.1	Metals-021	<0.1	1	<0.1	<0.1	0	94	115
Nickel	mg/kg	1	Metals-020	<1	1	2	2	0	71	77
Zinc	mg/kg	1	Metals-020	<1	1	8	9	12	76	76

QUALITY CONTROL: Acid Extractable metals in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-2	265912-60
Date prepared	-			[NT]	31	08/04/2021	08/04/2021		08/04/2021	08/04/2021
Date analysed	-			[NT]	31	10/04/2021	10/04/2021		10/04/2021	10/04/2021
Arsenic	mg/kg	4	Metals-020	[NT]	31	<4	<4	0	92	87
Cadmium	mg/kg	0.4	Metals-020	[NT]	31	<0.4	<0.4	0	92	82
Chromium	mg/kg	1	Metals-020	[NT]	31	18	17	6	90	85
Copper	mg/kg	1	Metals-020	[NT]	31	15	14	7	88	89
Lead	mg/kg	1	Metals-020	[NT]	31	4	4	0	86	#
Mercury	mg/kg	0.1	Metals-021	[NT]	31	<0.1	<0.1	0	90	99
Nickel	mg/kg	1	Metals-020	[NT]	31	7	7	0	89	83
Zinc	mg/kg	1	Metals-020	[NT]	31	18	18	0	92	115

QUALITY CONTROL: Acid Extractable metals in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	265912-98
Date prepared	-			[NT]	56	08/04/2021	08/04/2021		08/04/2021	08/04/2021
Date analysed	-			[NT]	56	10/04/2021	10/04/2021		10/04/2021	10/04/2021
Arsenic	mg/kg	4	Metals-020	[NT]	56	4	<4	0	73	94
Cadmium	mg/kg	0.4	Metals-020	[NT]	56	<0.4	<0.4	0	74	88
Chromium	mg/kg	1	Metals-020	[NT]	56	13	10	26	72	92
Copper	mg/kg	1	Metals-020	[NT]	56	10	7	35	75	100
Lead	mg/kg	1	Metals-020	[NT]	56	37	21	55	74	87
Mercury	mg/kg	0.1	Metals-021	[NT]	56	<0.1	<0.1	0	101	119
Nickel	mg/kg	1	Metals-020	[NT]	56	2	2	0	72	91
Zinc	mg/kg	1	Metals-020	[NT]	56	33	21	44	74	89

QUALITY CONTROL: Acid Extractable metals in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	95	08/04/2021	08/04/2021		[NT]	[NT]
Date analysed	-			[NT]	95	10/04/2021	10/04/2021		[NT]	[NT]
Arsenic	mg/kg	4	Metals-020	[NT]	95	<4	<4	0	[NT]	[NT]
Cadmium	mg/kg	0.4	Metals-020	[NT]	95	<0.4	<0.4	0	[NT]	[NT]
Chromium	mg/kg	1	Metals-020	[NT]	95	16	12	29	[NT]	[NT]
Copper	mg/kg	1	Metals-020	[NT]	95	5	5	0	[NT]	[NT]
Lead	mg/kg	1	Metals-020	[NT]	95	8	7	13	[NT]	[NT]
Mercury	mg/kg	0.1	Metals-021	[NT]	95	<0.1	<0.1	0	[NT]	[NT]
Nickel	mg/kg	1	Metals-020	[NT]	95	4	3	29	[NT]	[NT]
Zinc	mg/kg	1	Metals-020	[NT]	95	12	10	18	[NT]	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from “2018 TLVs and BEIs”, as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Report Comments

Asbestos: A portion of the supplied samples were sub-sampled for asbestos analysis according to Envirolab procedures.
We cannot guarantee that these sub-samples are indicative of the entire sample.
Envirolab recommends supplying 40-50g of sample in its own container.
Note: Samples requested for asbestos testing were sub-sampled from jars provided by the client.

Acid Extractable Metals in Soil:
- The laboratory RPD acceptance criteria has been exceeded for 265912-56 for Pb and Zn. Therefore a triplicate result has been issued as laboratory sample number 265912-122.
- # Percent recovery is not possible to report due to the high concentration of the element/s in the sample/s. However an acceptable recovery was obtained for the LCS.

Ming To

From: Shannon Goodsell <Shannon.Goodsell@douglaspartners.com.au>
Sent: Tuesday, 4 May 2021 1:46 PM
To: Ming To
Subject: Re: Results for Registration 265912-A 202107.01, Bungendore Highschool

CAUTION: This email originated from outside of the organisation. Do not act on instructions, click links or open attachments unless you recognise the sender and know the content is authentic and safe.

Hi Ming,

Of course, we would need lead to be analysed in BH14/0.1 (60)

Ref: 265912-B.
TAT: Standard.
Due: 11/05/2021
MT

Thank you,

Sent from my iPhone

> On 4 May 2021, at 13:44, Ming To <MTo@envirolab.com.au> wrote:
>
> Hi Shannon,
>
> Can you please advise what you would like us to analyse on the TCLP for BH14/0.1?
>
> **Kind Regards,**
>
> **Ming To | Customer Service | Envirolab Services**
>
> **Great Science. Great Service.**
>
> 12 Ashley Street Chatswood NSW 2067
> T 612 9910 6200
> E MTo@envirolab.com.au | W www.envirolab.com.au
>
> **Follow us on:** LinkedIn | Facebook | Twitter
>
> **Samples will be analysed per our T&C's.**
>
> **From:** Ken Nguyen <KNguyen@envirolab.com.au>
> **Sent:** Tuesday, 4 May 2021 1:34 PM
> **To:** Shannon Goodsell <Shannon.Goodsell@douglaspartners.com.au>
> **Cc:** Ming To <MTo@envirolab.com.au>
> **Subject:** RE: Results for Registration 265912-A 202107.01, Bungendore Highschool
>
> Hi Shannon,
>
> No problem at all, I'll get the team to log this in for you and if there's any issues we'll let you know.
>
> Kind Regards,
> Ken

Ming To

From: Ken Nguyen
Sent: Tuesday, 4 May 2021 1:34 PM
To: Shannon Goodsell
Cc: Ming To
Subject: RE: Results for Registration 265912-A 202107.01, Bungendore Highschool

Hi Shannon,

No problem at all, I'll get the team to log this in for you and if there's any issues we'll let you know.

Kind Regards,
Ken

Kind Regards,

Ken Nguyen | Senior Customer Service | Envirolab Services

Great Science. Great Service.

12 Ashley Street Chatswood NSW 2067
T 612 9910 6200
E KNguyen@envirolab.com.au | W www.envirolab.com.au

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Samples will be analysed per our T&C's.

From: Shannon Goodsell <Shannon.Goodsell@douglaspartners.com.au>
Sent: Tuesday, 4 May 2021 10:24 AM
To: Ken Nguyen <KNguyen@envirolab.com.au>
Subject: RE: Results for Registration 265912-A 202107.01, Bungendore Highschool

CAUTION: This email originated from outside of the organisation. Do not act on instructions, click links or open attachments unless you recognise the sender and know the content is authentic and safe.

Hi Ken,

It has been a while since these results were sent to us. I have been flat out and am only now writing the report. Would it still be possible to test for TCLP on sample BH14/0.1?

(69)

Thank you

Shannon Goodsell | Environmental Scientist
Douglas Partners Pty Ltd | ABN 75 053 980 117 | www.douglaspartners.com.au
Unit 2 73 Sheppard Street Hume ACT 2620 | PO Box 1487 Fyshwick ACT 2609
P: 02 6260 2788 | M: 0407 636 645 | E: Shannon.Goodsell@douglaspartners.com.au

CLIENT CHOIC
2020 WINNER

To find information on our COVID-19 measures, please visit douglaspartners.com.au/news/covid-19

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ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

CERTIFICATE OF ANALYSIS 265912-B

Client Details

Client	Douglas Partners Canberra
Attention	Shannon Goodsell
Address	Unit 2, 73 Sheppard St,, HUME, ACT, 2620

Sample Details

Your Reference	**202107.01, Bungendore Highschool**
Number of Samples	additional analyess on 1 soil
Date samples received	07/04/2021
Date completed instructions received	04/05/2021

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Report Details

Date results requested by	11/05/2021
Date of Issue	11/05/2021

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Results Approved By
Ken Nguyen, Senior Customer Service

Authorised By

Nancy Zhang, Laboratory Manager

Metals in TCLP USEPA1311		
Our Reference		265912-B-60
Your Reference	UNITS	BH14/0.1
Date Sampled		30/03/2021
Type of sample		Soil
Date extracted	-	11/05/2021
Date analysed	-	11/05/2021
pH of soil for fluid# determ.	pH units	7.1
pH of soil TCLP (after HCl)	pH units	1.7
Extraction fluid used	-	1
pH of final Leachate	pH units	4.9
Lead in TCLP	mg/L	0.1

Method ID	Methodology Summary
EXTRACT.7	Toxicity Characteristic Leaching Procedure (TCLP) using Zero Headspace Extraction (zHE) using AS4439 and USEPA 1311.
Inorg-001	pH - Measured using pH meter and electrode in accordance with APHA latest edition, 4500-H+. Please note that the results for water analyses are indicative only, as analysis outside of the APHA storage times.
Inorg-004	Toxicity Characteristic Leaching Procedure (TCLP) using in house method INORG-004. Please note that the mass used may be scaled down from the default based on sample mass available.
Metals-020 ICP-AES	Determination of various metals by ICP-AES.

QUALITY CONTROL: Metals in TCLP USEPA1311						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			11/05/2021	[NT]	[NT]	[NT]	[NT]	11/05/2021	[NT]
Date analysed	-			11/05/2021	[NT]	[NT]	[NT]	[NT]	11/05/2021	[NT]
Lead in TCLP	mg/L	0.03	Metals-020 ICP-AES	<0.03	[NT]	[NT]	[NT]	[NT]	100	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from “2018 TLVs and BEIs”, as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Ming To

From: Simon Song
Sent: Thursday, 8 April 2021 3:07 PM
To: Shannon Goodsell; Ming To
Subject: RE: Sample Receipt for 265912 202107.01, Bungendore Highschool

Ref: 265912-A
TAT: Standard.
Due: 15/04/2021
MT

No problem,

Ming, A job pls

Kind Regards,

Simon Song | Senior Customer Service | Envirolab Services

Great Science. Great Service.

12 Ashley Street Chatswood NSW 2067
T 612 9910 6200
E SSong@envirolab.com.au | W www.envirolab.com.au

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Samples will be analysed per our T&C's.

From: Shannon Goodsell <Shannon.Goodsell@douglaspartners.com.au>
Sent: Thursday, 8 April 2021 2:26 PM
To: Simon Song <SSong@envirolab.com.au>
Subject: RE: Sample Receipt for 265912 202107.01, Bungendore Highschool

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Hi Simon,

Could we please analyse the following:

- 4 BH01/2.0m
- 14 BH04/2.0m
- 17 BH05/1.0m
- 32 BH08/1.5m
- 112 BH10-O/0.5m
- 84 BH03-O/1.5

For aggressivity & salinity and the ones that are highlighted, analyse for pH and CEC on top of the aggressivity and salinity testing?

Thank you ☺

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

CERTIFICATE OF ANALYSIS 265912-A

Client Details

Client	Douglas Partners Canberra
Attention	Shannon Goodsell
Address	Unit 2, 73 Sheppard St,, HUME, ACT, 2620

Sample Details

Your Reference	**202107.01, Bungendore Highschool**
Number of Samples	121 Soil
Date samples received	07/04/2021
Date completed instructions received	08/04/2021

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

Report Details

Date results requested by	15/04/2021
Date of Issue	15/04/2021

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Asbestos Approved By
Analysed by Asbestos Approved Identifier:
Results Approved By
Giovanni Agosti, Group Technical Manager
Priya Samarawickrama, Senior Chemist

Authorised By

Nancy Zhang, Laboratory Manager

Misc Inorg - Soil						
Our Reference		265912-A-4	265912-A-14	265912-A-17	265912-A-32	265912-A-84
Your Reference	UNITS	BH01/2.0	BH04/2.0	BH05/1.0	BH08/1.5	BH03-O/1.5
Date Sampled		25/03/2021	29/03/2021	26/03/2021	29/03/2021	30/03/2021
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	12/04/2021	12/04/2021	12/04/2021	12/04/2021	13/04/2021
Date analysed	-	12/04/2021	12/04/2021	12/04/2021	12/04/2021	12/04/2021
pH 1:5 soil:water	pH Units	9.0	8.4	9.2	7.8	9.2
Electrical Conductivity 1:5 soil:water	µS/cm	260	640	480	410	320
Chloride, Cl 1:5 soil:water	mg/kg	310	840	410	510	24
Sulphate, SO4 1:5 soil:water	mg/kg	47	72	110	65	41
Resistivity in soil*	ohm m	38	16	21	24	32
Estimated Salinity*	mg/kg	890	2,200	1,600	1,400	1,100

Misc Inorg - Soil		
Our Reference		265912-A-112
Your Reference	UNITS	BH10-O/0.5
Date Sampled		29/03/2021
Type of sample		Soil
Date prepared	-	12/04/2021
Date analysed	-	12/04/2021
pH 1:5 soil:water	pH Units	9.5
Electrical Conductivity 1:5 soil:water	µS/cm	340
Chloride, Cl 1:5 soil:water	mg/kg	150
Sulphate, SO4 1:5 soil:water	mg/kg	110
Resistivity in soil*	ohm m	30
Estimated Salinity*	mg/kg	1,100

CEC			
Our Reference		265912-A-4	265912-A-32
Your Reference	UNITS	BH01/2.0	BH08/1.5
Date Sampled		25/03/2021	29/03/2021
Type of sample		Soil	Soil
Date prepared	-	14/04/2021	14/04/2021
Date analysed	-	14/04/2021	14/04/2021
Exchangeable Ca	meq/100g	0.2	0.4
Exchangeable K	meq/100g	<0.1	<0.1
Exchangeable Mg	meq/100g	0.77	0.95
Exchangeable Na	meq/100g	0.23	0.13
Cation Exchange Capacity	meq/100g	1.3	1.5

Method ID	Methodology Summary
Inorg-001	pH - Measured using pH meter and electrode in accordance with APHA latest edition, 4500-H+. Please note that the results for water analyses are indicative only, as analysis outside of the APHA storage times.
Inorg-002	Conductivity and Salinity - measured using a conductivity cell at 25°C in accordance with APHA latest edition 2510 and Rayment & Lyons.
Inorg-002	Conductivity and Salinity - measured using a conductivity cell at 25oC in accordance with APHA 22nd ED 2510 and Rayment & Lyons. Resistivity is calculated from Conductivity (non NATA). Resistivity (calculated) may not correlate with results otherwise obtained using Resistivity-Current method, depending on the nature of the soil being analysed.
Inorg-034	Soil samples are extracted and measured using a conductivity cell and dedicated meter.
Inorg-081	Anions - a range of Anions are determined by Ion Chromatography, in accordance with APHA latest edition, 4110-B. Waters samples are filtered on receipt prior to analysis. Alternatively determined by colourimetry/turbidity using Discrete Analyser.
Metals-020	Determination of exchangeable cations and cation exchange capacity in soils using 1M Ammonium Chloride exchange and ICP-AES analytical finish.

QUALITY CONTROL: Misc Inorg - Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date prepared	-			12/04/2021	[NT]	[NT]	[NT]	[NT]	12/04/2021	[NT]
Date analysed	-			12/04/2021	[NT]	[NT]	[NT]	[NT]	12/04/2021	[NT]
pH 1:5 soil:water	pH Units		Inorg-001	[NT]	[NT]	[NT]	[NT]	[NT]	103	[NT]
Electrical Conductivity 1:5 soil:water	µS/cm	1	Inorg-002	<1	[NT]	[NT]	[NT]	[NT]	104	[NT]
Chloride, Cl 1:5 soil:water	mg/kg	10	Inorg-081	<10	[NT]	[NT]	[NT]	[NT]	112	[NT]
Sulphate, SO4 1:5 soil:water	mg/kg	10	Inorg-081	<10	[NT]	[NT]	[NT]	[NT]	119	[NT]
Resistivity in soil*	ohm m	1	Inorg-002	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Estimated Salinity*	mg/kg	5	Inorg-034	<5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]

QUALITY CONTROL: CEC						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date prepared	-			14/04/2021	[NT]	[NT]	[NT]	[NT]	14/04/2021	[NT]
Date analysed	-			14/04/2021	[NT]	[NT]	[NT]	[NT]	14/04/2021	[NT]
Exchangeable Ca	meq/100g	0.1	Metals-020	<0.1	[NT]	[NT]	[NT]	[NT]	103	[NT]
Exchangeable K	meq/100g	0.1	Metals-020	<0.1	[NT]	[NT]	[NT]	[NT]	116	[NT]
Exchangeable Mg	meq/100g	0.1	Metals-020	<0.1	[NT]	[NT]	[NT]	[NT]	106	[NT]
Exchangeable Na	meq/100g	0.1	Metals-020	<0.1	[NT]	[NT]	[NT]	[NT]	121	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from “2018 TLVs and BEIs”, as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Report Comments

Samples received in good order: Holding time exceedance for pH/EC

Appendix K

Laboratory Summary Tables (K1 – K3 and QA1 – QA4)

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Table K1: Summary of Laboratory Results – Metals, TRH, BTEX, PAH

			Metals								TRH						BTEX				PAH			
			Arsenic	Cadmium	Total Chromium	Copper	Lead	Mercury (inorganic)	Nickel	Zinc	TRH C6 - C10	TRH >C10-C16	F1 ((C6-C10)-BTEX)	F2 (>C10-C16 less Naphthalene)	F3 (>C16-C34)	F4 (>C34-C40)	Benzene	Toluene	Ethylbenzene	Total Xylenes	Naphthalene [b]	Benzo(a)pyrene (BaP)	Benzo(a)pyrene TEQ	Total PAHs
		PQL	4	0.4	1	1	1	0.1	1	1	25	50	25	50	100	100	0.2	0.5	1	1	1	0.05	0.5	0.05
Sample ID	Depth	Sample Date	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
BH01/0.1	0.1	25/03/2021	<4	<0.4	8	3	7	<0.1	2	8	<25	<50	<25	<50	<100	<100	<0.2	<0.5	<1	<1	<1	<0.05	<0.5	<0.05
			100 100	20 -	100 410	6000 40	300 1100	40 -	400 7	7400 160	- -	- 120	45 180	110 -	- 300	- 2800	0.5 50	160 85	55 70	40 105	3 170	- 0.7	3 -	300 -
R1	0.1	25/03/2021	<4	<0.4	7	2	6	<0.1	1	6	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.1	<0.05	<0.5	<0.05
			100 100	20 -	100 410	6000 40	300 1100	40 -	400 7	7400 160	- -	- 120	45 180	110 -	- 300	- 2800	0.5 50	160 85	55 70	40 105	3 170	- 0.7	3 -	300 -
BH01/2.0	2	25/03/2021	4	<0.4	10	22	6	<0.1	3	10	<25	<50	<25	<50	<100	<100	<0.2	<0.5	<1	<1	<1	<0.05	<0.5	<0.05
			100 100	20 -	100 410	6000 40	300 1100	40 -	400 7	7400 160	- -	- 120	45 180	110 -	- 300	- 2800	0.5 50	160 85	55 70	40 105	3 170	- 0.7	3 -	300 -
BH02/0.1	0.1	26/03/2021	<4	<0.4	19	5	15	<0.1	3	7	<25	<50	<25	<50	<100	<100	<0.2	<0.5	<1	<1	<1	<0.05	<0.5	<0.05
			100 100	20 -	100 410	6000 40	300 1100	40 -	400 7	7400 160	- -	- 120	45 180	110 -	- 300	- 2800	0.5 50	160 85	55 70	40 105	3 170	- 0.7	3 -	300 -
BH03/0.1	0.1	26/03/2021	<4	<0.4	11	4	6	<0.1	2	13	<25	<50	<25	<50	<100	<100	<0.2	<0.5	<1	<1	<1	<0.05	<0.5	<0.05
			100 100	20 -	100 410	6000 40	300 1100	40 -	400 7	7400 160	- -	- 120	45 180	110 -	- 300	- 2800	0.5 50	160 85	55 70	40 105	3 170	- 0.7	3 -	300 -
BH04/0.1	0.1	29/03/2021	<4	<0.4	9	3	11	<0.1	2	18	<25	<50	<25	<50	<100	<100	<0.2	<0.5	<1	<1	<1	<0.05	<0.5	<0.05
			100 100	20 -	100 410	6000 40	300 1100	40 -	400 7	7400 160	- -	- 120	45 180	110 -	- 300	- 2800	0.5 50	160 85	55 70	40 105	3 170	- 0.7	3 -	300 -
BH05/0.1	0.1	26/03/2021	<4	<0.4	12	4	8	<0.1	3	8	<25	<50	<25	<50	<100	<100	<0.2	<0.5	<1	<1	<1	<0.05	<0.5	<0.05
			100 100	20 -	100 410	6000 40	300 1100	40 -	400 7	7400 160	- -	- 120	45 180	110 -	- 300	- 2800	0.5 50	160 85	55 70	40 105	3 170	- 0.7	3 -	300 -
BH05/3.0	3	26/03/2021	<4	<0.4	19	11	3	<0.1	10	13	<25	<50	<25	<50	<100	<100	<0.2	<0.5	<1	<1	<1	<0.05	<0.5	<0.05
			100 100	20 -	100 410	6000 40	300 1100	40 -	400 7	7400 160	- -	- 120	45 180	110 -	- 300	- 2800	0.5 50	160 85	55 70	40 105	3 170	- 0.7	3 -	300 -
BH06/0.1	0.1	26/03/2021	4	<0.4	7	6	9	<0.1	2	5	<25	<50	<25	<50	<100	<100	<0.2	<0.5	<1	<1	<1	<0.05	<0.5	<0.05
			100 100	20 -	100 410	6000 40	300 1100	40 -	400 7	7400 160	- -	- 120	45 180	110 -	- 300	- 2800	0.5 50	160 85	55 70	40 105	3 170	- 0.7	3 -	300 -
BH06/3.0	3	26/03/2021	5	<0.4	13	8	4	<0.1	9	10	<25	<50	<25	<50	<100	<100	<0.2	<0.5	<1	<1	<1	<0.05	<0.5	<0.05
			100 100	20 -	100 410	6000 40	300 1100	40 -	400 7	7400 160	- -	- 120	45 180	110 -	- 300	- 2800	0.5 50	160 85	55 70	40 105	3 170	- 0.7	3 -	300 -
BH07/0.1	0.1	30/03/2021	<4	<0.4	10	3	9	<0.1	2	8	<25	<50	<25	<50	<100	<100	<0.2	<0.5	<1	<1	<1	<0.05	<0.5	<0.05
			100 100	20 -	100 410	6000 40	300 1100	40 -	400 7	7400 160	- -	- 120	45 180	110 -	- 300	- 2800	0.5 50	160 85	55 70	40 105	3 170	- 0.7	3 -	300 -
BH08/1.0	1	29/03/2021	<4	<0.4	18	15	4	<0.1	7	18	<25	<50	<25	<50	<100	<100	<0.2	<0.5	<1	<1	<1	<0.05	<0.5	<0.05
			100 100	20 -	100 410	6000 40	300 1100	40 -	400 7	7400 160	- -	- 120	45 180	110 -	- 300	- 2800	0.5 50	160 85	55 70	40 105	3 170	- 0.7	3 -	300 -
R3	1	29/03/2021	<4	<0.4	12	11	3	<0.1	6	14	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.1	<0.05	<0.5	<0.05
			100 100	20 -	100 410	6000 40	300 1100	40 -	400 7	7400 160	- -	- 120	45 180	110 -	- 300	- 2800	0.5 50	160 85	55 70	40 105	3 170	- 0.7	3 -	300 -
BH09/0.1	0.1	30/03/2021	<4	<0.4	8	40	98	<0.1	4	16	<25	<50	<25	<50	<100	<100	<0.2	<0.5	<1	<1	<1	<0.05	<0.5	<0.05
			100 100	20 -	100 410	6000 40	300 1100	40 -	400 7	7400 160	- -	- 120	45 180	110 -	- 300	- 2800	0.5 50	160 85	55 70	40 105	3 170	- 0.7	3 -	300 -
BH09/5.0	5	30/03/2021	7	<0.4	12	7	3	<0.1	2	5	<25	<50	<25	<50	<100	<100	<0.2	<0.5	<1	<1	<1	<0.05	<0.5	<0.05
			100 100	20 -	100 410	6000 40	300 1100	40 -	400 7	7400 160	- -	- 120	45 180	110 -	- 300	- 2800	0.5 50	160 85	55 70	40 105	3 170	- 0.7	3 -	300 -
BH10/0.5	0.5	30/03/2021	<4	<0.4	15	8	4	<0.1	8	11	<25	<50	<25	<50	<100	<100	<0.2	<0.5	<1	<1	<1	<0.05	<0.5	<0.05
			100 100	20 -	100 410	6000 40	300 1100	40 -	400 7	7400 160	- -	- 120	45 180	110 -	- 300	- 2800	0.5 50	160 85	55 70	40 105	3 170	- 0.7	3 -	300 -
BH10/5.0	5	30/03/2021	9	<0.4	25	4	6	<0.1	9	14	<25	<50	<25	<50	<100	<100	<0.2	<0.5	<1	<1	<1	<0.05	<0.5	<0.05
			100 100	20 -	100 410	6000 40	300 1100	40 -	400 7	7400 160	- -	- 120	45 180	110 -	- 300	- 2800	0.5 50	160 85	55 70	40 105	3 170	- 0.7	3 -	300 -

Lab result

HIL/HSL value EIL/ESL value

HIL/HSL exceedance EIL/ESL exceedance HIL/HSL and EIL/ESL exceedance ML exceedance ML and HIL/HSL or EIL/ESL exceedance

Indicates that asbestos has been detected by the lab, refer to the lab report **Blue** = DC exceedance HSL 0-<1 Exceedance

Bold = Lab detections - = Not tested or No HIL/HSL/EIL/ESL (as applicable) or Not applicable NL = Non limiting AD = Asbestos detected NAD = No Asbestos detected

HIL = Health investigation level HSL = Health screening level (excluding DC) EIL = Ecological investigation level ESL = Ecological screening level ML = Management Limit DC = Direct Contact HSL

Notes:

a QA/QC replicate of sample listed directly below the primary sample

b Reported naphthalene laboratory result obtained from BTEXN suite

c Criteria applies to DDT only

Site Assessment Criteria (SAC):

Refer to the SAC section of report for information of SAC sources and rationale. Summary information as follows:

SAC based on generic land use thresholds for Residential A with garden/accessible soil

HIL A	Residential / Low - High Density (NEPC, 2013)
HSL A/B	Residential / Low - High Density (vapour intrusion) (NEPC, 2013)
DC HSL A	Direct contact HSL A Residential (Low density) (direct contact) (CRC CARE, 2011)
EIL/ESL UR/POS	Urban Residential and Public Open Space (NEPC, 2013)
ML R/P/POS	Residential, Parkland and Public Open Space (NEPC, 2013)

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Table K2: Summary of Laboratory Results – Phenol, OCP, OPP, PCB, Asbestos

			Phenol	OCP											OPP	PCB	Asbestos		
			Phenol	DDD	DDT+DDE+DDD [c]	DDE	DDT	Aldrin & Dieldrin	Total Chlordane	Endrin	Total Endosulfan	Heptachlor	Hexachlorobenzene	Methoxychlor	Chlorpyrifos	Total PCB	Asbestos ID in soil >0.1g/kg	Trace Analysis	Asbestos (50 g)
		PQL	5	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1			
Sample ID	Depth	Sample Date	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	-	-	-
BH01/0.1	0 m	25/03/2021	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	NAD	NAD	NAD
			100 -	- -	240 180	- -	- 180	6 -	50 -	10 -	270 -	6 -	10 -	300 -	160 -	1 -			
R1	0 m	25/03/2021	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	-	-	-
			100 -	- -	240 180	- -	- 180	6 -	50 -	10 -	270 -	6 -	10 -	300 -	160 -	1 -			
BH01/2.0	0 m	25/03/2021	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	NAD	NAD	NAD
			100 -	- -	240 180	- -	- 180	6 -	50 -	10 -	270 -	6 -	10 -	300 -	160 -	1 -			
BH02/0.1	0 m	26/03/2021	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	NAD	NAD	NAD
			100 -	- -	240 180	- -	- 180	6 -	50 -	10 -	270 -	6 -	10 -	300 -	160 -	1 -			
BH03/0.1	0 m	26/03/2021	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	NAD	NAD	NAD
			100 -	- -	240 180	- -	- 180	6 -	50 -	10 -	270 -	6 -	10 -	300 -	160 -	1 -			
BH04/0.1	0 m	29/03/2021	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	NAD	NAD	NAD
			100 -	- -	240 180	- -	- 180	6 -	50 -	10 -	270 -	6 -	10 -	300 -	160 -	1 -			
BH05/0.1	0 m	26/03/2021	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	NAD	NAD	NAD
			100 -	- -	240 180	- -	- 180	6 -	50 -	10 -	270 -	6 -	10 -	300 -	160 -	1 -			
BH05/3.0	0 m	26/03/2021	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	NAD	NAD	NAD
			100 -	- -	240 180	- -	- 180	6 -	50 -	10 -	270 -	6 -	10 -	300 -	160 -	1 -			
BH06/0.1	0 m	26/03/2021	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	NAD	NAD	NAD
			100 -	- -	240 180	- -	- 180	6 -	50 -	10 -	270 -	6 -	10 -	300 -	160 -	1 -			
BH06/3.0	0 m	26/03/2021	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	NAD	NAD	NAD
			100 -	- -	240 180	- -	- 180	6 -	50 -	10 -	270 -	6 -	10 -	300 -	160 -	1 -			
BH07/0.1	0 m	30/03/2021	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	NAD	NAD	NAD
			100 -	- -	240 180	- -	- 180	6 -	50 -	10 -	270 -	6 -	10 -	300 -	160 -	1 -			
BH08/1.0	0 m	29/03/2021	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	NAD	NAD	NAD
			100 -	- -	240 180	- -	- 180	6 -	50 -	10 -	270 -	6 -	10 -	300 -	160 -	1 -			
R3	0 m	29/03/2021	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	-	-	-
			100 -	- -	240 180	- -	- 180	6 -	50 -	10 -	270 -	6 -	10 -	300 -	160 -	1 -			
BH09/0.1	0 m	30/03/2021	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	NAD	NAD	NAD
			100 -	- -	240 180	- -	- 180	6 -	50 -	10 -	270 -	6 -	10 -	300 -	160 -	1 -			
BH09/5.0	0 m	30/03/2021	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	NAD	NAD	NAD
			100 -	- -	240 180	- -	- 180	6 -	50 -	10 -	270 -	6 -	10 -	300 -	160 -	1 -			
BH10/0.5	0 m	30/03/2021	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	NAD	NAD	NAD
			100 -	- -	240 180	- -	- 180	6 -	50 -	10 -	270 -	6 -	10 -	300 -	160 -	1 -			
BH10/5.0	0 m	30/03/2021	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	NAD	NAD	NAD
			100 -	- -	240 180	- -	- 180	6 -	50 -	10 -	270 -	6 -	10 -	300 -	160 -	1 -			

Lab result

HIL/HSL value EIL/ESL value

HIL/HSL exceedance EIL/ESL exceedance HIL/HSL and EIL/ESL exceedance ML exceedance ML and HIL/HSL or EIL/ESL exceedance

Indicates that asbestos has been detected by the lab, refer to the lab report **Blue** = DC exceedance HSL 0-<1 Exceedance

Bold = Lab detections - = Not tested or No HIL/HSL/EIL/ESL (as applicable) or Not applicable NL = Non limiting AD = Asbestos detected NAD = No Asbestos detected

HIL = Health investigation level HSL = Health screening level (excluding DC) EIL = Ecological investigation level ESL = Ecological screening level ML = Management Limit DC = Direct Contact HSL

Notes:

a QA/QC replicate of sample listed directly below the primary sample

b Reported naphthalene laboratory result obtained from BTEXN suite

c Criteria applies to DDT only

Site Assessment Criteria (SAC):

Refer to the SAC section of report for information of SAC sources and rationale. Summary information as follows:

SAC based on generic land use thresholds for Residential A with garden/accessible soil

HIL A	Residential / Low - High Density (NEPC, 2013)
HSL A/B	Residential / Low - High Density (vapour intrusion) (NEPC, 2013)
DC HSL A	Direct contact HSL A Residential (Low density) (direct contact) (CRC CARE, 2011)
EIL/ESL UR/POS	Urban Residential and Public Open Space (NEPC, 2013)
ML R/P/POS	Residential, Parkland and Public Open Space (NEPC, 2013)

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Table K3 : Summary of Laboratory Results – Metals, TRH, BTEX, PAH, Phenol, OCP, OPP, PCB, Asbestos

			Metals								TRH		BTEX						PAH															Phenol	OCP		OPP	PCB	Asbestos		
			Arsenic	Cadmium	Total Chromium	Copper	Lead	Mercury (inorganic)	Nickel	Zinc	TRH C6 - C9	C10-C36 (sum of total hydrocarbons	Benzene	Toluene	Ethylbenzene	m+p-Xylene	o-Xylene	Xylenes (total)	Benzo(a)pyrene (BaP)	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(b+j+k)fluoranthene	Benzo(g,h,i)perylene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Total PAHs	Phenol	Total Endosulfan	Total Analysed OCP	Total Analysed OPP	Total PCB	Asbestos ID in soil >0.1g/kg	Trace Analysis	Total Asbestos
Sample ID	Depth	PQL	4	0.4	1	1	1	0.1	1	1	25	50	0.2	0.5	1	2	1	3	0.05	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	1	0.1	0.1	0.05	5	0.1	0.1	0.1	0.1	-	-	-
		Sample Date	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	-	-	-
BH01/0.1	0 m	25/03/2021	<4	<0.4	8	3	7	<0.1	2	8	<25	<50	<0.2	<0.5	<1	<2	<1	<3	<0.05	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.05	<5	<0.1	<0.1	<0.1	<0.1	NAD	NAD	NAD
R1	0 m	25/03/2021	<4	<0.4	7	2	6	<0.1	1	6	NT	NT	NT	NT	NT	NT	NT	NT	<0.05	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	NT	NT	NT	NT	NT	-	-	-
BH01/2.0	0 m	25/03/2021	4	<0.4	10	22	6	<0.1	3	10	<25	<50	<0.2	<0.5	<1	<2	<1	<3	<0.05	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.05	-	<0.1	<0.1	<0.1	<0.1	NAD	NAD	NAD
BH02/0.1	0 m	26/03/2021	<4	<0.4	19	5	15	<0.1	3	7	<25	<50	<0.2	<0.5	<1	<2	<1	<3	<0.05	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.05	<5	<0.1	<0.1	<0.1	<0.1	NAD	NAD	NAD
BH03/0.1	0 m	26/03/2021	<4	<0.4	11	4	6	<0.1	2	13	<25	<50	<0.2	<0.5	<1	<2	<1	<3	<0.05	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.05	<5	<0.1	<0.1	<0.1	<0.1	NAD	NAD	NAD
BH04/0.1	0 m	29/03/2021	<4	<0.4	9	3	11	<0.1	2	18	<25	<50	<0.2	<0.5	<1	<2	<1	<3	<0.05	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.05	<5	<0.1	<0.1	<0.1	<0.1	NAD	NAD	NAD
BH05/0.1	0 m	26/03/2021	<4	<0.4	12	4	8	<0.1	3	8	<25	<50	<0.2	<0.5	<1	<2	<1	<3	<0.05	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.05	<5	<0.1	<0.1	<0.1	<0.1	NAD	NAD	NAD
BH05/3.0	0 m	26/03/2021	<4	<0.4	19	11	3	<0.1	10	13	<25	<50	<0.2	<0.5	<1	<2	<1	<3	<0.05	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.05	-	<0.1	<0.1	<0.1	<0.1	NAD	NAD	NAD
BH06/0.1	0 m	26/03/2021	4	<0.4	7	6	9	<0.1	2	5	<25	<50	<0.2	<0.5	<1	<2	<1	<3	<0.05	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.05	<5	<0.1	<0.1	<0.1	<0.1	NAD	NAD	NAD
BH06/3.0	0 m	26/03/2021	5	<0.4	13	8	4	<0.1	9	10	<25	<50	<0.2	<0.5	<1	<2	<1	<3	<0.05	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.05	-	<0.1	<0.1	<0.1	<0.1	NAD	NAD	NAD
BH07/0.1	0 m	30/03/2021	<4	<0.4	10	3	9	<0.1	2	8	<25	<50	<0.2	<0.5	<1	<2	<1	<3	<0.05	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.05	<5	<0.1	<0.1	<0.1	<0.1	NAD	NAD	NAD
BH08/1.0	0 m	29/03/2021	<4	<0.4	18	15	4	<0.1	7	18	<25	<50	<0.2	<0.5	<1	<2	<1	<3	<0.05	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.05	<5	<0.1	<0.1	<0.1	<0.1	NAD	NAD	NAD
R3	0 m	29/03/2021	<4	<0.4	12	11	3	<0.1	6	14	NT	NT	NT	NT	NT	NT	NT	NT	<0.05	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	NT	NT	NT	NT	NT	-	-	-
BH09/0.1	0 m	30/03/2021	<4	<0.4	8	40	98	<0.1	4	16	<25	<50	<0.2	<0.5	<1	<2	<1	<3	<0.05	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.05	<5	<0.1	<0.1	<0.1	<0.1	NAD	NAD	NAD
BH09/5.0	0 m	30/03/2021	7	<0.4	12	7	3	<0.1	2	5	<25	<50	<0.2	<0.5	<1	<2	<1	<3	<0.05	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.05	-	<0.1	<0.1	<0.1	<0.1	NAD	NAD	NAD
BH10/0.5	0 m	30/03/2021	<4	<0.4	15	8	4	<0.1	8	11	<25	<50	<0.2	<0.5	<1	<2	<1	<3	<0.05	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.05	<5	<0.1	<0.1	<0.1	<0.1	NAD	NAD	NAD
BH10/5.0	0 m	30/03/2021	9	<0.4	25	4	6	<0.1	9	14	<25	<50	<0.2	<0.5	<1	<2	<1	<3	<0.05	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.05	-	<0.1	<0.1	<0.1	<0.1	NAD	NAD	NAD
Waste Classification Criteria [f]																																									
CT1			100	20	100	NC	100	4	40	NC	650	10000	10	288	600	NC	NC	1000	0.8	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	200	288	60	<50	4	<50	NC	NC	NC
SCC1			500	100	1900	NC	1500	50	1050	NC	650	10000	18	518	1080	NC	NC	1800	10	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	200	518	108	<50	7.5	<50	NC	NC	NC
TCLP1			N/A	N/A	N/A	NC	N/A	N/A	N/A	NC	N/A	N/A	N/A	N/A	N/A	NC	NC	N/A	N/A	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	N/A	N/A	N/A	N/A	N/A	N/A	NC	NC	NC
CT2			400	80	400	NC	400	16	160	NC	2600	40000	40	1152	2400	NC	NC	4000	3.2	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	800	1152	240	<50	16	<50	NC	NC	NC
SCC2			2000	400	7600	NC	6000	200	4200	NC	2600	40000	72	2073	4320	NC	NC	7200	23	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	800	2073	432	<50	30	<50	NC	NC	NC
TCLP2			N/A	N/A	N/A	NC	N/A	N/A	N/A	NC	N/A	N/A	N/A	N/A	N/A	NC	NC	N/A	N/A	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	N/A	N/A	N/A	N/A	N/A	N/A	NC	NC	NC

CT1 exceedance | TCLP1 and/or SCC1 exceedance | CT2 exceedance | TCLP2 and/or SCC2 exceedance | Asbestos detection

NT = Not tested NL = Non limiting NC = No criteria N/A = Not applicable NAD = No asbestos detected

Notes:

a QA/QC replicate of sample listed directly below the primary sample

b Total chromium used as initial screen for chromium(VI).

c Total recoverable hydrocarbons (TRH) used as an initial screen for total petroleum hydrocarbons (TPH)

d Criteria for scheduled chemicals used as an initial screen

e Criteria for Chlorpyrifos used as initial screen

f All criteria are in the same units as the reported results

PQL Practical quantitation limit

CT1 NSW EPA, 2014, Waste Classification Guidelines Part 1; Classifying Waste, Maximum values of specific contaminant concentration (SCC) for classification without TCLP: General solid waste

SCC1 NSW EPA, 2014, Waste Classification Guidelines Part 1; Classifying Waste, Maximum values for leachable concentration (TCLP) and specific contaminant concentration (SCC) when used together: General solid waste

TCLP1 NSW EPA, 2014, Waste Classification Guidelines Part 1; Classifying Waste, Maximum values for leachable concentration (TCLP) and specific contaminant concentration (SCC) when used together: General solid waste

CT2 NSW EPA, 2014, Waste Classification Guidelines Part 1; Classifying Waste, Maximum values of specific contaminant concentration (SCC) for classification without TCLP: Restricted solid waste

SCC2 NSW EPA, 2014, Waste Classification Guidelines Part 1; Classifying Waste, Maximum values for leachable concentration (TCLP) and specific contaminant concentration (SCC) when used together: Restricted solid waste

TCLP2 NSW EPA, 2014, Waste Classification Guidelines Part 1; Classifying Waste, Maximum values for leachable concentration (TCLP) and specific contaminant concentration (SCC) when used together: Restricted solid waste

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Table QA1: Trip Spike Results – Soils (% Recovery)

Sample ID	Benzene	Toluene	Ethylbenzene	o-Xylene	m+p-Xylene
TS1	105	99	85	82	84

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Table QA2: Trip Blank Results - Soils (mg/kg)

Sample ID	Benzene	Toluene	Ethylbenzene	o-Xylene	m+p-Xylene
TB1	<0.2	<0.5	<1	<1	<2

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Table QA3: Relative Percentage Difference Results – Intra-laboratory Replicates

			Metals								TRH						BTEX				PAH				Phenol	OCP												OPP	PCB
			Arsenic	Cadmium	Total Chromium	Copper	Lead	Mercury (Inorganic)	Nickel	Zinc	TRH C6 - C10	TRH >C10-C16	F1 ((C6-C10)-BTEX)	F2 (>C10-C16 less Naphthalene)	F3 (>C16-C34)	F4 (>C34-C40)	Benzene	Toluene	Ethylbenzene	Total Xylenes	Naphthalene [b]	Benzo(a)pyrene (BaP)	Benzo(a)pyrene TEQ	Total PAHs	Phenol	DDD	DDT+DDE+DDD [c]	DDE	DDT	Aldrin & Dieldrin	Total Chlordane	Endrin	Total Endosulfan	Heptachlor	Hexachlorobenzene	Methoxychlor	Chlorpyrifos	Total PCB
Sample ID	Depth	Sample Date	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
R1	0 m	25/03/2021	<4	<0.4	7	2	6	<0.1	1	6	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.1	<0.05	<0.5	<0.05	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
BH01/0.1	0 m	25/03/2021	<4	<0.4	8	3	7	<0.1	2	8	<25	<50	<25	<50	<100	<100	<0.2	<0.5	<1	<1	<0.1	<0.05	<0.5	<0.05	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
		Difference	0	0	1	1	1	0	1	2	-	-	-	-	-	-	-	-	-	-	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		RPD	0%	0%	13%	**40%**	15%	0%	**67%**	29%	-	-	-	-	-	-	-	-	-	-	0%	0%	0%	0%	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R3	0 m	29/03/2021	<4	<0.4	12	11	3	<0.1	6	14	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.1	<0.05	<0.5	<0.05	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
BH08/1.0	0 m	29/03/2021	<4	<0.4	18	15	4	<0.1	7	18	<25	<50	<25	<50	<100	<100	<0.2	<0.5	<1	<1	<0.1	<0.05	<0.5	<0.05	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
		Difference	0	0	6	4	1	0	1	4	-	-	-	-	-	-	-	-	-	-	0.9	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		RPD	0%	0%	**40%**	**31%**	29%	0%	15%	25%	-	-	-	-	-	-	-	-	-	-	0%	0%	0%	0%	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Table QA4: Relative Percentage Difference Results – Intra-laboratory Replicates

			Metals								TRH						BTEX				PAH				Phenol	OCP												OPP	PCB
			Arsenic	Cadmium	Total Chromium	Copper	Lead	Mercury (Inorganic)	Nickel	Zinc	TRH C6 - C10	TRH >C10-C16	F1 ((C6-C10)-BTEX)	F2 (>C10-C16 less Naphthalene)	F3 (>C16-C34)	F4 (>C34-C40)	Benzene	Toluene	Ethylbenzene	Total Xylenes	Naphthalene [b]	Benzo(a)pyrene (BaP)	Benzo(a)pyrene TEQ	Total PAHs	Phenol	DDD	DDT+DDE+DDD [c]	DDE	DDT	Aldrin & Dieldrin	Total Chlordane	Endrin	Total Endosulfan	Heptachlor	Hexachlorobenzene	Methoxychlor	Chlorpyrifos	Total PCB
Sample ID	Depth	Sample Date	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
RR1	0 m	25/03/2021	<5	<1	14	<5	10	<0.1	2	7	<10	<50	<10	<50	<100	<100	<0.2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.05	<0.5	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.1
BH01/0.1	0 m	25/03/2021	<4	<0.4	8	3	7	<0.1	2	8	<25	<50	<25	<50	<100	<100	<0.2	<0.5	<1	<1	<1	<0.05	<0.5	<0.05	NT	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
		Difference	0	0	6	0	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		RPD	0%	0%	**55%**	0%	**35%**	0%	0%	13%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
RR3	0 m	29/03/2021	11	<1	41	16	5	<0.1	18	21	<10	<50	<10	<50	<100	<100	<0.2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.05	<0.5	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.1
BH08/1.0	0 m	29/03/2021	<4	<0.4	18	15	4	<0.1	7	18	<25	<50	<25	<50	<100	<100	<0.2	<0.5	<1	<1	<1	<0.05	<0.5	<0.05	NT	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
		Difference	0	0	23	1	1	0	11	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		RPD	0%	0%	**78%**	6%	22%	0%	**88%**	15%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Appendix L

UCL Results

	A	B	C	D	E	F	G	H	I	J	K	L
1	UCL Statistics for Uncensored Full Data Sets											
2												
3	User Selected Options											
4	Date/Time of Computation	ProUCL 5.129/07/2021 9:10:28 AM										
5	From File	WorkSheet.xls										
6	Full Precision	OFF										
7	Confidence Coefficient	95%										
8	Number of Bootstrap Operations	2000										
9												
10												
11	Nickel											
12												
13	General Statistics											
14	Total Number of Observations					13			Number of Distinct Observations			5
15									Number of Missing Observations			0
16	Minimum					2			Mean			3.615
17	Maximum					8			Median			3
18	SD					2.219			Std. Error of Mean			0.615
19	Coefficient of Variation					0.614			Skewness			1.225
20												
21	Normal GOF Test											
22	Shapiro Wilk Test Statistic					0.735			Shapiro Wilk GOF Test			
23	5% Shapiro Wilk Critical Value					0.866			Data Not Normal at 5% Significance Level			
24	Lilliefors Test Statistic					0.302			Lilliefors GOF Test			
25	5% Lilliefors Critical Value					0.234			Data Not Normal at 5% Significance Level			
26	Data Not Normal at 5% Significance Level											
27												
28	Assuming Normal Distribution											
29	95% Normal UCL								95% UCLs (Adjusted for Skewness)			
30	95% Student's-t UCL					4.712			95% Adjusted-CLT UCL (Chen-1995)			4.851
31									95% Modified-t UCL (Johnson-1978)			4.747
32												
33	Gamma GOF Test											
34	A-D Test Statistic					1.326			Anderson-Darling Gamma GOF Test			
35	5% A-D Critical Value					0.738			Data Not Gamma Distributed at 5% Significance Level			
36	K-S Test Statistic					0.26			Kolmogorov-Smirnov Gamma GOF Test			
37	5% K-S Critical Value					0.238			Data Not Gamma Distributed at 5% Significance Level			
38	Data Not Gamma Distributed at 5% Significance Level											
39												
40	Gamma Statistics											
41	k hat (MLE)					3.588			k star (bias corrected MLE)			2.811
42	Theta hat (MLE)					1.008			Theta star (bias corrected MLE)			1.286
43	nu hat (MLE)					93.28			nu star (bias corrected)			73.09
44	MLE Mean (bias corrected)					3.615			MLE Sd (bias corrected)			2.156
45									Approximate Chi Square Value (0.05)			54.4
46	Adjusted Level of Significance					0.0301			Adjusted Chi Square Value			52.11
47												
48	Assuming Gamma Distribution											
49	95% Approximate Gamma UCL (use when n>=50))					4.857			95% Adjusted Gamma UCL (use when n<50)			5.071
50												
51	Lognormal GOF Test											
52	Shapiro Wilk Test Statistic					0.787			Shapiro Wilk Lognormal GOF Test			
53	5% Shapiro Wilk Critical Value					0.866			Data Not Lognormal at 5% Significance Level			

54					Lilliefors Test Statistic	0.259	Lilliefors Lognormal GOF Test					
55					5% Lilliefors Critical Value	0.234	Data Not Lognormal at 5% Significance Level					
56	Data Not Lognormal at 5% Significance Level											
57												
58	Lognormal Statistics											
59					Minimum of Logged Data	0.693				Mean of logged Data	1.139	
60					Maximum of Logged Data	2.079				SD of logged Data	0.536	
61												
62	Assuming Lognormal Distribution											
63					95% H-UCL	5.034				90% Chebyshev (MVUE) UCL	5.199	
64					95% Chebyshev (MVUE) UCL	5.94				97.5% Chebyshev (MVUE) UCL	6.968	
65					99% Chebyshev (MVUE) UCL	8.988						
66												
67	Nonparametric Distribution Free UCL Statistics											
68	Data do not follow a Discernible Distribution (0.05)											
69												
70	Nonparametric Distribution Free UCLs											
71					95% CLT UCL	4.628				95% Jackknife UCL	4.712	
72					95% Standard Bootstrap UCL	4.602				95% Bootstrap-t UCL	5.102	
73					95% Hall's Bootstrap UCL	4.476				95% Percentile Bootstrap UCL	4.615	
74					95% BCA Bootstrap UCL	4.769						
75					90% Chebyshev(Mean, Sd) UCL	5.462				95% Chebyshev(Mean, Sd) UCL	6.298	
76					97.5% Chebyshev(Mean, Sd) UCL	7.458				99% Chebyshev(Mean, Sd) UCL	9.738	
77												
78	Suggested UCL to Use											
79					95% Chebyshev (Mean, Sd) UCL	6.298						
80												
81	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
82	Recommendations are based upon data size, data distribution, and skewness.											
83	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
84	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
85												

Appendix M

Quality Assurance and Quality Control

Appendix M
Quality Assurance and Quality Control
Majara Street and Gibraltar Street, Bungendore

M1.0 Field and Laboratory Data Quality Assurance and Quality Control

The field and laboratory data quality assurance and quality control (QA/QC) procedures and results are summarised in the following Table 1. Reference should be made to the field work methodology and the laboratory results / certificates of analysis for further details. The relative percentage difference (RPD) results, along with the other filed QC samples are included in the summary results tables in Appendix H.

Table 1: Field and Laboratory Quality Control

Item	Evaluation / Acceptance Criteria	Compliance
Analytical laboratories used	NATA accreditation	C
Holding times	Various based on type of analysis	C
Intra-laboratory replicates	5% of primary samples; <30% RPD	PC
Inter-laboratory replicates	5% of primary samples; <30% RPD	PC
Trip Spikes	1 per sampling event; 60-140% recovery	C
Trip Blanks	1 per sampling event; <PQL	C
Laboratory / Reagent Blanks	1 per batch; <PQL	C
Matrix Spikes	1 per lab batch; 70-130% recovery (inorganics); 60-140% recovery (organics)	C
Surrogate Spikes	All organics analysis; 70-130% recovery (inorganics); 60-140% recovery (organics)	C
Control Samples	1 per lab batch; 70-130% recovery (inorganics); 60-140% recovery (organics)	C
Standard Operating Procedures (SOP)	Adopting SOP for all aspects of the sampling field work	C
Analytical laboratories used	NATA accreditation	C

Notes:
C = compliance; PC = partial compliance; NC = non-compliance

The RPD results were all within the acceptable range, with the exception of those indicated in the summary results tables. The exceedances are not, however, considered to be of concern given that:

- The replicate pairs being collected from fill soils which were heterogeneous in nature;
- Soil replicates, rather than homogenised soil duplicates, were used to minimise the risk of possible volatile loss, hence greater variability can be expected;
- The majority of RPDs within a replicate pair being within the acceptable limits; and
- All other QA/QC parameters met the DQIs.

In summary, the QC data is determined to be of sufficient quality to be considered acceptable for the assessment.

M2.0 Data Quality Indicators

The reliability of field procedures and analytical results was assessed against the following data quality indicators (DQIs) as outlined in NEPC *National Environment Protection (Assessment of Site Contamination) Measure 1999 (as amended 2013) [NEPM]* (NEPC, 2013):

- Completeness: a measure of the amount of usable data from a data collection activity;
- Comparability: the confidence (qualitative) that data may be considered to be equivalent for each sampling and analytical event;
- Representativeness: the confidence (qualitative) of data representativeness of media present on-site;
- Precision: a measure of variability or reproducibility of data; and
- Accuracy: a measure of closeness of the data to the 'true' value.

Table 2: Data Quality Indicators

Data Quality Indicator	Method(s) of Achievement
Completeness	Systematic and selected target locations sampled.
	Preparation of borehole logs, sample location plan and chain of custody records.
	Laboratory sample receipt information received confirming receipt of samples intact and appropriateness of the chain of custody.
	Samples analysed for contaminants of potential concern (COPC) identified in the Conceptual Site Model (CSM).
	Completion of chain of custody (COC) documentation.
	NATA accredited laboratory results certificates provided by the laboratory.
	Satisfactory frequency and results for field and laboratory quality control (QC) samples as discussed in Section 1.
Comparability	Using appropriate techniques for sample recovery, storage and transportation, which were the same for the duration of the project.
	Experienced sampler(s) used.
	Use of NATA registered laboratories, with test methods the same or similar between laboratories.
	Satisfactory results for field and laboratory QC samples.
Representativeness	Target media sampled.
	Sample numbers recovered and analysed are considered to be representative of the target media and complying with DQOs.
	Samples were extracted and analysed within holding times.
	Samples were analysed in accordance with the COC.
Precision	Field staff followed standard operating procedures.
	Acceptable RPD between original samples and replicates.
	Satisfactory results for all other field and laboratory QC samples.
Accuracy	Field staff followed standard operating procedures.
	Satisfactory results for all field and laboratory QC samples.

Based on the above, it is considered that the DQIs have been generally complied with.

M3.0 Conclusion

Based on the results of the field QA and field and laboratory QC, and evaluation against the DQIs it is concluded that the field and laboratory test data obtained are reliable and useable for this assessment.

M4.0 References

NEPC. (2013). *National Environment Protection (Assessment of Site Contamination) Measure 1999 (as amended 2013) [NEPM].* Australian Government Publishing Services Canberra: National Environment Protection Council.

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