



Preliminary and Limited Detailed Site Investigation

Alexandra Avenue, Hassall Street, Bailey Street & Hawkesbury Road, Westmead, NSW

Prepared for: Delta Group Pty Ltd

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Abbreviations

AAM	Airborne Asbestos Monitoring
ACM	Asbestos Containing Material
ADE	ADE Consulting Group Pty Ltd
AHD	Australian Height Datum
ASS	Acid Sulfate Soils
BGL	Below ground level
BTEX	Benzene, toluene, ethylbenzene, xylene
BR	Blind Replicate
CoC	Chain of Custody
CoPC	Contaminants of Potential Concern
CRC CARE	Contamination Assessment and Remediation of the Environment
CSM	Conceptual Site Model
DBYD	Dial Before You Dig
DEC	Department of Environment and Conservation
DO	Dissolved Oxygen
DP	Deposited Plan
DQO	Data Quality Objectives
DSI	Detailed Site Investigation
EC	Electrical Conductivity
EILs	Ecological Investigation Levels
EPA	NSW Environmental Protection Authority
ESLs	Ecological Screening Levels
GILs	Groundwater Investigation Levels
HDPE	High-Density Polyethylene
HILs	Health Investigation Levels
HSLs	Health Screening Levels
LEP	Local Environmental Plan
LNAPL	Light Non-Aqueous Phase Liquid
m BGL	Meters Below Ground Level
NATA	National Association of Testing Authorities
NEPC	National Environment Protection Council
NEPM	National Environmental Protection (Assessment of Site Contamination) Measure
NSW	New South Wales
OCP	Organophosphorus Pesticides
OEH	Office of Environment and Heritage
OPP	Organochlorine Pesticides
PACM	Potential Asbestos Containing Material
PAHs	Polycyclic Aromatic Hydrocarbons
PCB	Polychlorinated Biphenyls
PID	Photo-ionisation Detector
PSI	Preliminary Site Investigation
QA/QC	Quality Assurance/Quality Control
RAP	Remedial Action Plan
RPD	Relative Percent Difference
RL	Reduced Level
SAC	Site Assessment Criteria
SEPP	State Environmental Planning Policy
SH&EWMS	Safety Health and Environmental Works Method Statement
SMF	Synthetic Mineral Fibres
SLS	Sydney Laboratory Services
SWL	Standing Water Level
TRH	Total Recoverable Hydrocarbons
UCL	Upper Confidence Limit
VOC	Volatile Organic Compounds

Executive Summary

ADE was engaged by Delta Group Pty Ltd (Delta) to undertake a combined preliminary and limited detailed site investigation (PSI/DSI) at multiple residential properties located at 20-22, 24, 26, 27 and 29 Alexandra Avenue, 131, 133, 135, 139, and 141 Hawkesbury Road, 27-29, 31, 33, 35 and 37 Bailey Street and 3, 9-11, 15-19 and 21 Hassall Street within Westmead, New South Wales (NSW) ('site') (refer to *Appendix I – Figures*).

The purpose of the report is to assess the potential for contamination to occur through a comprehensive desktop study and completed a limited intrusive investigation to assess the level of contamination within the scope of the Delta's Critical State Significant Infrastructure (CSSI) Planning Approval Documentation. Delta's scope of work is limited to the demolition and early enabling works of soils down to a maximum depth of 1.8 m below ground level (m BGL) across the site. A full site characterisation assessment including a groundwater assessment has yet to be completed and further investigations maybe required to determine the long-term management and land-use suitability of the site.

The primary objective of the investigation was to assess the soil profile across the site only, extending to a maximum depth of 1.8 m bgl and to compare results against human health and environmental criteria assigned for commercial/industrial land use (HIL-D / HSL-D) as outlined within the National Environmental Protection Measure [NEPM], 2013 Amendment (NEPC, 2013). The secondary objective of the investigation was to assess any potential contamination risk associated with the site as outlined in the Schedule 20 – Requirements of Authority Approvals (A1) (*Appendix XIII – Other Supporting Documentation*).

To meet the objectives of the investigation, the following scope of work was adopted:

- Identify past and present potentially contaminating activities;
- Visually assess the current site conditions with regards to potential sources of contamination;
- Evaluate and discuss both historical and current site conditions;
- Design and implement a systematic sampling regime for the assessment of soil within the site;
- Assess and describe the source, type, extent and level of contamination present on site;
- Determine the potential risk posed to human health and ecological receptors (if present);
- Develop a CSM based on the findings of the PSI/DSI; and
- Provide a preliminary waste classification assessment, limited site contamination assessment and recommendations for further investigation or remediation (if required).

A multi-phase approach was adopted which involved a comprehensive desktop investigation and site walkover (Phase 1). The first phase of the investigation broadly involved the completion of a desktop study which reviewed relevant sources such as government databases, aerial photography, title searches etc, to identify potentially past and present contaminating activities within the site. The desktop component was then accompanied by a comprehensive site walkover to identify potential contamination sources and contaminants of potential concern (CoPCs). A conceptual site model (CSM) was then developed to identify potential contamination sources, CoPCs, migration pathways and potential receptors.

Utilising the CSM as a framework, a limited detailed site investigation or 'phase 2' of the investigation commenced. A limited intrusive soil sampling regime was designed to target areas across the site to assess the current contamination status in respect to Delta's scope of work. A total of 25 test pits were completed using a hand auger and 6-tonne excavator. A total of 52 primary soil samples were collected from the fill profile and natural soils at varying depths in between the soil surface and 1.8 m BGL.

Of the 52 primary soil samples collected, all analysed samples returned concentrations below that of the proposed land use for commercial/industrial (HIL/HSL-D) screening criteria as outlined within the NEPM (NEPC, 2013). A total of 52 soil samples and four fibre cement samples were collected during the course of the investigation to provide an indicative presence/absence asbestos assessment.

One fragment of fibre cement was identified within a soil sample collected from TP24 at 0.5 m bgl (WAC1.TP24.0.5) and was confirmed to contain bonded chrysotile asbestos. No asbestos was recorded within any of the 52 soil samples analysed. Chrysotile asbestos was recorded within all four fibre cements samples analysed (WAC1.TP2.FC1, WAC1.TP3.FC3, WAC1.TP21.FC4 and WAC1.TP23.FC5).

Additionally, Delta engaged Progressive Risk Australia (PRA) to do some further asbestos assessments on-site, supervise asbestos removal works and bulk earthwork activities (as required). Throughout the course of the assessments, it was established that asbestos containing material (ACM) was present sporadically across the surface of the site with a high concentration of ACM found on the surface in the central and northern central portions of the site.

For the purposes of providing a preliminary waste classification, the following preliminary waste classifications are considered to apply based on current analytical results and site observations:

- Due to extensive surficial asbestos contamination and identified asbestos contamination within TP24, the majority of the site from the soil surface to 0.1 m BGL and the in-situ soil materials surrounding TP24 from the soil surface to a maximum depth of 0.6 m BGL is considered to be preliminary classified as '*Special Waste – Asbestos (as General Solid Waste)*';
- Following the removal and validation of the asbestos impacted soils, the in-situ fill materials across the site from 0.1 m BGL to varying depths extending to 0.6 m BGL, are considered to be preliminary classified as '*General Solid Waste (non-putrescible)*';
- Following the removal and validation of the entire fill lithology, the underlying virgin soil materials from 0.6 m BGL are considered to be preliminary validated as '*Virgin Excavated Natural Material [VENM]*', as per the Protection of Environment Operations Act, 1997 (POEO Act, 1997).

Considering the constraints, assumptions and uncertainties associated with the investigation and the scope of works being undertaken by Delta, the following are considered to be limitations to the investigation:

- No asbestos quantification assessment has been completed within the scope of this investigation and therefore, any soil materials intended to be beneficially re-used within the site boundaries will need to be subject to a gravimetric asbestos assessment as per the NEPM (NEPC, 2013);
- The intrusive investigation undertaken within Phase 2 of the investigation is limited to the top 1.8 m lithological profile only and is not considered to comprise of a full site characterisation assessment;
- No groundwater assessment or underground storage tanks (USTs) management has been undertaken as part of this investigation and may require further assessment;
- No ecological risk assessment has been considered as the final design of the station is not finalised and was not included within Delta's scope of works for this project;
- The provided waste classification assessments are considered to be preliminary only and maybe subject to change depending on the conclusions of future investigations; and
- Certain areas within the site boundary were considered to be inaccessible due to the presence of pre-existing infrastructure .

Moving forward, ADE recommends that the following is undertaken to manage potential residual contamination within the site:

- A suitably licenced asbestos removalist should be engaged to remove all surface bound asbestos and complete a topsoil strip (0.0-0.1 m bgl) within the unsealed areas on-site.
- Following the removal of topsoil and subsequent ACM fragments, a licensed asbestos assessor or occupational hygienist should conduct an asbestos clearance inspection on the new site surface to validate that the soil surface is visually free of asbestos as per the NEPM (NEPC, 2013);

- Following the clearance inspection, asbestos confirmatory sampling should be conducted on the site surface to verify that no asbestos is present on the newly formed surface. This will also enable greater volumes of fill to be preliminary considered as '*General Solid Waste (Non-Putrescible)*'.
- ADE notes that the preliminary waste classification component of this investigation is for indicative purposes only and this report should not be used as a formal waste classification. ADE recommends that following demolition works, additional samples of the fill and natural profile may need to be collected.
- Should any UST infrastructure be uncovered during the excavation process, ADE recommends that the removal of the UPSS and associated spoil be undertaken in general accordance with AS4976-2008 – The removal and disposal of underground petroleum storage tanks.

Considering the vertical and lateral limitations of the investigation, ADE considers that there is 'low-risk' for residual contamination to occur within the assessed areas across the site. Additional environmental investigations and environmental management plans e.g., a remediation action plan (RAP) maybe required for the long-term identification and management of contamination and determination of the sites overall land-use suitability with regards to the prescribed land-use. Under the CSSI planning approval documentation, condition D72 maybe triggered depending on the findings and conclusions of future environmental investigations.

1 Introduction

1.1 Background and General Information

ADE was engaged by Delta Group Pty Ltd (Delta) to undertake a combined preliminary and limited detailed site investigation at multiple residential properties located at 20-22, 24, 26, 27 and 29 Alexandra Avenue, 131, 133, 135, 139, and 141 Hawkesbury Road, 27-29, 31, 33, 35 and 37 Bailey Street and 3, 9-11, 15-19 and 21 Hassall Street within Westmead, NSW.

ADE understands that Delta's scope of works for the project is restricted to the demolition and early enabling works of soils down to a maximum depth of 1.8 m BGL only. The purpose of this investigation was to provide a limited contamination assessment of the residual soils to a maximum depth of 1.8 m bgl and to compare results against relevant human health criteria (HIL-D / HSL-D) for screening purposes.

The investigation also sought to assess any contamination risk of the site as outlined in the A1 documents (refer to Schedule 20 – Requirements of Authority Approvals presented in *Appendix XIII – Other Supporting Documentation*). Consideration of landscaping areas with access to soil have not been assessed since the design of the station is not finalised and consideration of this has not been included within Delta's scope of works for this project.

As part of the assessment, ADE was requested to undertake a preliminary waste analysis and classification of the in-situ soils extending to a maximum depth of 1.8 metres below ground level (m bgl) (maximum depth of Delta's future demolition works). This was accomplished through the completion of a desktop study and preliminary site walkover, followed by a systematic soil investigation.

The first stage of the investigation was to conduct a PSI of the site through a comprehensive desktop study and site walkover which involved:

- The appraisal of the site's history and the current site condition and surrounding environment; and
- Completion of a visual inspection on-site to identify signs or indications of potential sources of contamination and the associated contaminants of potential concern (CoPCs).

The second stage of the investigation was to conduct a DSI via a systematic soil investigation to provide a limited assessment as to the current contamination status of the site in relation to the findings of the PSI. This report summarises the findings of the Stage I Preliminary and Stage II Limited Detailed Site Investigation works and discusses the outcomes of the investigation.

1.2 Objectives

The specific objectives of the investigation were to:

- Identify past and present potentially contaminating activities
- Visually assess the current site conditions with regards to potential sources of contamination
- Evaluate and discuss both historical and current site conditions
- Design and implement a systematic sampling regime for the assessment of soil within the site
- Assess and describe the source, type, extent and level of contamination present on site limited to the top 1.8 m of the soil profile
- Determine the potential risk posed to human health and ecological receptors (if present)
- Develop a CSM based on the findings of the PSI/DSI, and
- Provide a preliminary waste classification assessment, site contamination assessment and recommendations for further investigation or remediation (if required).

1.3 Scope of Work

The scope of work required to achieve the objectives of the investigation involved the following:

1.3.1 Phase One – Desktop Study (PSI)

- Preparation and completion of a site-specific safety, health & environment work method statement (SH&EWMS)
- Review of relevant NSW EPA and Government databases
- Review of past and current activities on the site
- Review of current activities on neighbouring sites and identification of any potential on-site/off-site sources of contamination
- Review of past aerial photographs of the site and its surroundings
- Review of local geology and hydrogeology (including groundwater bore search)
- Review of acid sulfate soil risk maps, and
- Design of an appropriate sampling plan.

1.3.2 Phase Two – Field Investigation and Sampling (DSI)

- Undertake underground service locating via an approved service locator
- Advancement of 25 test pits across the site (via the use of a hand auger and a client-provided excavator) to a maximum depth of 1.8 m BGL
- Logging of soils in accordance with Unified Soil Classification System (USCS) and observation of visual / olfactory indicators of contamination throughout the soil profile
- Field screening of soil samples using a calibrated photo-ionisation detector (PID) to assess the potential presence of ionisable volatile organic compounds (VOCs)
- Collection of representative soil samples based on visual observations, lithology, odours and staining
- Completion of standard quality assurance/quality control (QA/QC) protocols
- Analysis of soil samples for identified CoPCs at National Association of Testing Authorities (NATA) accredited laboratories under chain of custody conditions
- Interpretation of analytical results and field observations in accordance with relevant guidelines and codes of conduct (as outlined in **Section 1.4**), and
- Preparation of a combined PSI/DSI report outlining the investigation, interpretation of results, including conclusions and recommendations with reference to the proposed land use.

1.4 Legislative Requirements

The legislative framework for the report is based on guidelines that have been issued and/or endorsed by the NSW EPA under the following Acts/Regulations:

- Contaminated Land Management Act 1997 (NSW) (CLM Act)
- Environmentally Hazardous Chemicals Act 1985 (NSW)
- National Environment Protection (Assessment of Site Contamination) Measure [NEPM], 1999 (as amended 2013) (NEPC, 2013)
- Protection of the Environment Operations Act 1997 (NSW) (POEO Act)
- State Environmental Planning Policy No.55 – Remediation of Land (NSW Government)
- Waste Avoidance and Resource Recovery Act 2001
- Work Health and Safety Act 2011,
- Work Health and Safety Regulation 2017, and
- Victorian EPA Industrial Waste Resource Guidelines 2009 (IWRG702) (VIC EPA).

The relevant guidelines issued under the provisions of the aforementioned Acts / Regulations include:

- Friebel & Nadebaum. (2011). Health Screening Levels for Petroleum Hydrocarbons in Soil and Groundwater, Part 1: Technical Development Document, Technical Report No. 10,
- Friebel & Nadebaum. (2011). Health Screening levels for Petroleum Hydrocarbons in Soil and Groundwater, Part 2: Application Document, Technical Report No. 10,
- Guidelines for the NSW Site Auditor Scheme (3rd Edition), NSW 2017,
- NSW EPA. (1995). Sampling Design Guidelines (NSW EPA, 1995),
- NSW EPA. (2014). Waste Classification Guidelines – Part 1: Classifying Waste (2014) (NSW EPA, 2014),
- NSW EPA. (2015). Guidelines on the Duty to Report Contamination under the Contaminated Land Management Act 1997 (NSW EPA, 2015),
- NSW EPA. (2020). Guidelines for Consultants Reporting on Contaminated Land (NSW EPA, 2020),
- NSW Safework. (2019). Model Code of Practice: How to Safely Remove Asbestos (NSW Safework, 2019),
- NSW Safework. (2019). Code of Practice: How to Manage and Control Asbestos in the Workplace (NSW Safework, 2019), and
- Western Australian Department of Health (WA DOH). (2009). Guidelines for the Assessment, Remediation and Management of Asbestos Contaminated Sites in Western Australia (WA DOH, 2009).

Australian Standards applied to this investigation:

- Standards Australia. (1998). AS/NZS5667.1-1998 Water Quality-Sampling. Part 1: Guidance on the Design of Sampling Programs, Sampling Techniques and the Preservation of Handling Samples
- Standards Australia (1999). Australian Standard AS 4482.2 Guide to the sampling and investigation of potentially contaminated soil. Part 2: Volatile substances, (1999)
- Standards Australia. (2005). Australian Standard AS 4482.1 Guide to the sampling and investigation of potentially contaminated soil. Part 1: Non-volatile and semi-volatile compounds, (2005)

The following local government plan have also been taken into consideration for preparation of this PSI/DSI:

- Cumberland Local Environmental Plan 2021 (LEP, 2021).

2 Site Identification

2.1 Site Location

The site comprises of multiple residential properties located at Alexandra Avenue, Hawkesbury Road, Bailey Street and Hassall Street within Westmead, NSW and has an approximate area of 1.2 hectares (ha). The site is situated within the local government area of Cumberland Council and is currently zoned as R4 - High Density Residential under the Cumberland Local Environmental Plan (LEP) 2011 (refer to *Appendix I – Figures and Figure 1a* below for the location of the site).



Figure 1a. Approximate boundary of the site (outlined in red) and lot boundaries (outlined in orange), accessed from <https://admin.nearmap.com> on 17/12/2021.

2.2 Summary of Site Details

Table 1. Summary of Site Details and Information.

Site Details	
Site Address	<p>The site comprises of the following properties within Westmead NSW:</p> <ul style="list-style-type: none"> • 20-22, 24, 26, 27 and 29 Alexandra Avenue • 131, 133, 135, 139, and 141 Hawkesbury Road • 27-29, 31, 33, 35 and 37 Bailey Street • 3, 9-11, 15-19 and 21 Hassall Street
Title Identification	<p>Lot 1 DP1409, Lot 2 DP1409, Lot SP1871, Lot 7 DP4036, Lot 8 DP4936, Lot 9 DP4036, Lot 10 DP4036, Lot 11 DP4036, Lot 12 DP1409, Lot 13 DP1409, Lot 14 DP434199, Lot 16 DP434199, Lot 18A/4036, Lot 19/A/DP4036, Lot 20/A/DP4036, Lot 21/A/DP4036, Lot SP51391, Lot 26/A/DP4036, Lot 27/A/DP4036, Lot SP6 1570, Lot 1/DP949987, Lot 35/A/DP4036, Lot 36/A/DP4036, Lot 37/A/DP4036, Lot SP67282, Lot</p>

Site Details	
	42/A/DP4036, Lot 43/A/DP4036, Lot 44/A/DP4036, Lot 45 DP4036, Lot 46/A/DP4036, Lot 47/A/DP1409, Lot 48/A/DP1409, Lot 49/A/DP1409 and Lot 50/A/DP1409
Local Government Area (LGA)	Cumberland Council
Current Land Use Zoning	R4 - High Density Residential
Site Area	Approximately 1.2 ha
Current Site Owner / Occupier	Delta Group Pty Ltd
Former/Current Land Use	Predominantly residential (light industrial and service station was also present in the north-east portion of the site)
Local Environmental Plan	Cumberland Local Environmental Plan 2021
Approximate Elevation	Approximately 30-40 m Australian Height Datum (AHD)

3 Site History

The Site history has been compiled from information gathered from various sources including Delta, Lotsearch, Dial Before You Dig (DBYD), Safework NSW, NSW Government and Cumberland Council. Refer to *Appendix VIII – Lotsearch Report* for the Lotsearch report and compiled information.

3.1 Historical Photography

Historical aerial photographs were included in *Appendix VIII – Lotsearch Report*. An analysis of historical aerial photographs from the years 1930 to 2021 were examined and are summarised below in **Table 2**.

Table 2. Summary of Historical Aerial Photography for the Site.

Year	Type	Subject Site Description	Adjacent Site Description
1930	Black and White	Most of the site is occupied by residential structures.	The surrounding area is occupied by a mixture of low-density residential dwellings and vacant lots.
1943	Black and White	No significant changes.	Westmead Station has been constructed opposite the site. Several residential dwellings have been constructed in the surrounding area.
1951	Black and White	Lot 46, DP4036 has been developed into a residential dwelling.	Westmead Public School has been constructed to the west of the site.
1955	Black and White	Westmead Service Station has been constructed on Lot 35,36 and 37 DP4036. Lot SP67282 has been developed, including the construction of 2 residential dwellings.	No significant changes.
1961	Black and White	No significant changes.	No significant changes
1970	Black and White	No significant changes.	No significant changes.
1978	Black and White	No significant changes.	No significant changes.
1982	Colour	Lot 42-44, DP 4036 has been developed into a residential dwelling.	No significant changes.
1991	Colour	Residential dwelling on Lot 49-50, DP 1409 has been demolished.	Surrounding low-density dwellings have been replaced by apartment complexes.
2000	Colour	Individual residential properties on Lots SP61570 and SP51391 have been demolished and medium density apartment complexes have been constructed.	No significant changes.
2005	Colour	Individual residential properties on Lot SP67282 have been demolished and a medium density apartment complex has been constructed.	No significant changes
2021	Colour	No significant changes.	No significant changes

3.2 Heritage Items

A review of the Lotsearch Report (Lotsearch, 2021) identified over 40 heritage listings within a 1,000 m radius of the site under the Cumberland Local Environmental Plan (2011), refer to *Appendix VIII – Lotsearch Report*.

ADE notes that the following heritage items are located within a 100 m radius of the site:

Table 3. Heritage Items located on or proximal to the site:

Name	Address	Type	Plan No.	Distance	Direction
Westmead Public School, circa 1917	Hawkesbury road, Westmead	Holroyd Local Environmental Plan 2013	-	20 m	South West
University of Western Sydney	Hawkesbury road, Westmead	Parramatta Local Environmental Plan 2011	-	84 m	North West
Victorian residence (UWS grounds)	Hawkesbury road, Westmead	Parramatta Local Environmental Plan 2011	-	84 m	North West

3.3 Contaminated Land Record Search

A review of the OEH ‘Contaminated Land – Record of Notices’ listed by the NSW EPA under the *Contaminated Land Management Act 1997* (CLM) did not identify any notices within a 1 km radius of the site (refer to *Appendix VIII – Lotsearch Report*).

A review of the ‘List of NSW Contaminated Sites Notified to the EPA’ listed by the NSW EPA under the *Contaminated Land Management Act 1997* (CLM) identified two sites notified to the NSW EPA within a 1 km radius of the Site (refer to *Appendix VIII – Lotsearch Report*). Regulation under the Contaminated Land Management (CLM) Act is not required for the two sites.

3.4 Section 10.7 Certificate (Formerly Section 149)

The site is currently zoned as R4 High Density Residential under the Cumberland Local Environmental Plan 2021. Planning certificates under Section 10.7 of the Environmental Planning and Assessment Act 1979 (NSW) (refer to *Appendix VIII – Lotsearch Report*), provides the state and local environmental planning instruments which affect the site.

Details of information on the site as contained in Clause 59(2) as amended in the CLM Act are listed below:

- a) The land is not subject to a known contamination as per Section 10.7;
- b) The land is not subject to a management order within the meaning of the Act;
- c) The land is not subject to a voluntary management proposal within the meaning of the Act;
- d) The land is not subject to an ongoing maintenance order; and
- e) The land is not subject to a site audit statement within the meaning of the Act.

3.5 Dial Before you Dig

An online search for utilities located within the site was conducted and is summarised in **Table 4**. Asset owners were notified and provided information on their utilities (refer to *Appendix XI – Dial Before You Dig (DYBD)*).

Table 4. Summary of Utilities Located on or Adjacent to the Site.

Asset Owner	Utility Type	Utility Location
Endeavour	Electrical	There are Endeavour underground cables running under Lot 2 DP1409, 141 Hawkesbury Road.
Jemma	Gas	A 210 kPa medium pressure gas main is running along Alexandra Avenue, Bailey Street, Hawkesbury Road and Hassall Street and is approximately 1-2 m from the site.
NBN	Telecommunications	<p>Electricity asset was not identified within the Site.</p> <p>Communication assets were identified at / within the vicinity of the site as follows:</p> <p>A single cable runs parallel to the site in type 5 pits, west to east from the corner of Hawkesbury Road and Bailey Street to 27-29 Bailey Street.</p> <p>A single cable runs parallel to the site, from type 6 to type 5 pits, beginning at 21 Hassall Street and terminating at 9-11 Hassall Street.</p> <p>A single cable runs through type 1 pits through Lot 139 on Hawkesbury Road.</p> <p>2 cables run through type 3, 4 and 5 pits, parallel to the site along Alexandra Avenue.</p>
Sydney Water	Water	A sewer main runs through 9-11, 15-19 and 21 Hassall Street, 139, 141 and 143 Hawkesbury Road and 27-29, 31, 33, 35 and 37 Bailey Street.

3.6 SafeWork NSW Hazardous Goods Search

A notification to SafeWork NSW for a site search of former and/or current storage of Schedule 11 hazardous chemicals was undertaken and submitted on 14 November 2021.

The search returned documents indicating that an automotive fuel retailing site (service station), located at 3 Hassall Street (located at the north-eastern corner of the site) stored four petroleum underground storage tanks (USTs) and three liquefied natural gas above ground storage tanks (ASTs). Details regarding the USTs and ASTs stored at 3 Hassall Street are presented in **Table 5** below:

Table 5. Safework Dangerous Goods Search Results

Depot No.	Type of Storage Tank	Product Stored	Quantity
1	UST	Unleaded Petrol	10,000 L
2	UST	Unleaded Petrol	10,000 L
3	UST	Unleaded Petrol	10,000 L
4	UST	Unleaded Petrol	10,000 L
5	AST	Liquefied Propane Gas	190 KG
6	AST	Liquefied Propane Gas	190 KG
7	AST	Liquefied Propane Gas	190 KG

Site maps/layouts provided for the service station indicate that the four USTs are located in the northern portion of 3 Hassall Street, running adjacent to the driveway entrance on Alexandra Avenue. Two fuel dispensers are located adjacent to the USTs. The ASTs are shown to be located in the south-eastern portion of 3 Hassall Street, adjacent to the workshop area.

The search did not return any documents indicating that dangerous goods were stored within any other portions of the site (refer to *Appendix XI – Dangerous Good Search*).

3.7 Groundwater Bore Search

A search for existing groundwater bores was conducted and outlined within the Lotsearch Report (Lotsearch, 2021) which identified 29 groundwater bores within a 2,000 m radius of the site. No groundwater bores were identified within a 500 m radius of the site. No known details are provided in Lotsearch (2021) regarding the intended use or data pertaining to borehole 213004, as shown in **Table 6**.

Table 6. Summary of Registered Groundwater Bores within a 2,000 m radius of the site

GW No.	Authorised Purpose	Intended Purpose	Final Depth(m)	Drilled Depth(m)	Salinity (mg/L)	SWL (m bgl)	Elev (AHD)	Distance (m)	Direction
213005	-	Unknown	-	-	-	-	16.22	966	North West
213004	-	Unknown	-	-	-	-	-	1235	East
GW108 378	Industrial, Test Bore	Industrial	282	282	-	-	-	730	North
GW114 536	Monitoring Bore	Monitoring Bore	6.5	6.5	-	-	-	997	South
GW114 535	Monitoring Bore	Monitoring Bore	7	7	-	4.8	-	1002	South
GW114 534	Monitoring Bore	Monitoring Bore	6.9	6.9	-	5.0	-	1006	South
GW108 611	Domestic	Domestic	60.5	60.5	5300	6.2	-	1294	East
GW114 747	Monitoring Bore	Monitoring Bore	14	10	-	7	-	1295	North
GW114 748	Monitoring Bore	Monitoring Bore	14	14.5	-	7	-	1371	North
GW110 305	Monitoring Bore	Monitoring Bore	10	10	-	4.8	-	1382	North
GW110 306	Monitoring Bore	Monitoring Bore	10	10	-	3.6	-	1394	North
GW110 303	Monitoring Bore	Monitoring Bore	10	10	-	4.3	-	1404	North
GW062 300	Industrial	Industrial	100	100	fresh	3.2	-	1422	North
GW113 435	Monitoring Bore	Monitoring Bore	4	4	-	-	-	1644	North East
GW113 434	Monitoring Bore	Monitoring Bore	5	5	-	-	-	1677	South West
GW113 432	Monitoring Bore	Monitoring Bore	7	7	-	-	-	1683	South West
GW113 436	Monitoring Bore	Monitoring Bore	4	4	-	-	-	1693	South West
GW113 431	Monitoring Bore	Monitoring Bore	14	14	-	-	-	1712	South West
GW113 429	Monitoring Bore	Monitoring Bore	7.7	7.7	-	-	-	1713	West
GW113 430	Monitoring Bore	Monitoring Bore	8	8	-	-	-	1718	South West
GW113 433	Monitoring Bore	Monitoring Bore	6	6	-	-	-	1726	South West

GW No.	Authorised Purpose	Intended Purpose	Final Depth(m)	Drilled Depth(m)	Salinity (mg/L)	SWL (m bgl)	Elev (AHD)	Distance (m)	Direction
GW101 120	Domestic	Domestic	60	60	Fresh	-	-	1751	South West
GW072 398	Test Bore	Test Bore	58	58	2400	-	-	1870	South West
GW108 247	Test Bore	Industrial	102	102	2000	10	-	1906	North East

3.8 Previous Investigation Reports

ADE has not been made aware of any previous investigation reports relating to the site.

3.9 Assessment of Historical Information Integrity

The veracity of the information obtained as part of the site history is considered to be moderate to high. The site history assessment is generally considered to be of moderate to high integrity.

4 Site Condition and Surrounding Environment

4.1 Site Inspection Details

An experienced environmental consultant representing ADE undertook a site inspection on 12 November 2021 to complete a visual assessment of the site and provide information on potential contamination issues, including the following:

- Surrounding land uses and potential contamination sources
- Presence of any hazardous or dangerous goods storage
- Presence of any USTs or ASTs and/or associated fuel transfer systems i.e., fuel lines
- Condition of current structures, vegetation and soil
- Visible and/or olfactory evidence of contamination
- Presence of any industrial/commercial activities
- Evidence of former spill incidents/accidents
- Current ground conditions, vegetation type and cover, topography, elevation, direction of surface run-off and evidence of potential drainage lines
- Evidence of soil loss/deposition/erosion, stockpiled materials, and potentially contaminating infrastructure i.e., electrical substations
- Proximity to sensitive environmental areas/features/habitats including water bodies/courses
- Evidence of naturally occurring contaminants, and
- Assessment of the current site condition with its history.

4.2 Topography

Based on a review of available desktop information and onsite observations, the site slopes gently from west to east, with an elevation range of 30-40 m AHD (refer to *Appendix VIII – Lotsearch Report*).

4.3 Surrounding Land Uses

Based on a desktop search of the site and visual observations made during the site inspection, the surrounding land uses which currently surround the site are as follows:

- **North:** Westmead Train Station immediately to the north, followed by commercial/industrial premises and medium to high-density residential properties located further north
- **East:** Low to medium-density residential properties immediately to the east, followed by Pemulwuy Reserve and medium to high-density residential properties and the Parramatta River located further east
- **West:** Residential and commercial/industrial sites immediately to the west followed by Westmead Public School
- **South:** Medium to high density residential premises

4.4 Surface Cover and Conditions

The site is covered by a combination of grass and concrete hardstand.

4.5 Local Geology

The regional and local geology is outlined within the Sydney 1:100,000 Geological Map. The underlying geology of the site comprises Wianamatta Group – Ashfield Shale, consisting of dark grey siltstone and Bringelly Shale (refer to *Appendix VIII – Lotsearch Report*).

The site is located within the Blacktown Soil Landscape as defined by the NSW Office of Environment and Heritage eSpade GIS tool. The specific depths of dominant soil materials are characterised by their location in relation to the local topography but generally consist of the following;

- bt1—Friable brownish-black loam. This is a friable brownish-black loam to clay loam with moderately pedal sub-angular blocky structure and rough-faced porous ped fabric. This material occurs as the topsoil (A1 horizon). Peds are well defined sub-angular blocky and range in size from 2–20 mm. Surface condition is friable. Colour is commonly brownish-black but can range from dark reddish-brown to dark yellowish-brown. The pH ranges from slightly acidic to neutral.
- Bt2—Hardsetting brown clay loam. This is a hard setting brown clay loam to silty clay loam with massive to weakly pedal structures and slowly porous earthy fabric. It commonly occurs as an A2 horizon. Peds when present are weakly developed, sub-angular blocky and are rough faced and porous. They range in size between 20–50 mm. Colour is commonly dark brown but can range from dark reddish-brown to dark brown. The pH ranges from moderately acidic to slightly acidic. Platy ironstone gravel-sized shale fragments are common. Charcoal fragments and roots are rarely present.
- Bt3—Strongly pedal, mottled brown light clay. This is a brown light to medium clay with strongly pedal polyhedral or subangular-blocky structure and smooth-faced dense ped fabric. This material usually occurs as subsoil (B horizon). Texture often increases with depth. Peds range in size from 5–20 mm. Colour is usually brown but may range from reddish-brown to brown. Red, yellow or grey mottles are commonly present and often become more numerous with depth. The pH ranges from strongly acid (pH 4.5) to slightly acid (pH 6.5). Fine to coarse gravel-sized shale fragments are common and widespread and often occur in stratified bands. Both roots and charcoal fragments are rare.
- Bt4—Light grey plastic mottled clay. This is a plastic light grey silty clay to heavy clay with moderately pedal polyhedral to sub-angular blocky structure and smooth-faced dense ped fabric. This material usually occurs as deep subsoil above shale bedrock (B3 or C horizons). Peds range in size from 2–20 mm. Colour is usually light grey or, less commonly, greyish yellow. Red, yellow or grey mottles are common. The pH ranges from strongly acidic (pH 4.0) to moderately acidic (pH 5.5). Strongly weathered ironstone concretions and rock fragments are common. Gravel-sized shale fragments and roots are occasionally present. Charcoal fragments are rare.

4.6 Hydrogeology and hydrology

As defined in the Lotsearch (2021) report, the hydrogeology of the site is defined by porous, extensive aquifers of low to moderate productivity.

Most of the site is not sealed, with exposed soils and landscaping areas within the residential premises on-site. In these areas, surface water is presumed to infiltrate into the sub-soil profile. Groundwater is expected to emulate the site topography and proceed relatively slowly (due to the low hydraulic gradient characteristic of the underlying clays) in an easterly direction towards Parramatta River.

Concrete hardstand surfacing was observed within the service station footprint at 3 Hassall Street and the car park at 29 Alexander Avenue / 141 Hawkesbury Road and 139 Hawkesbury Road. In these areas, surface water is presumed to either infiltrate into the sub-soil profile or be captured by onsite drainage retention systems scattered along the boundaries of these properties. Surface water run-off is expected to flow east overland towards Parramatta River.

4.7 Current Site Condition / Site Observations

A summary of observations made during the inspection undertaken by ADE are provided in **Table 7** and highlighted in *Appendix I – Figures* and *Appendix II – Photographs*.

Table 7. Key Site Observations.

Item	Key Observations
Site Use	The site has been predominantly used for residential use with some portions used for commercial use (such as the service station) at the north-eastern portion of the site.
Existing Buildings / Structures	<p>ADE conducted the site walkover inspection and intrusive soil assessment prior to demolition of built structures on-site. As such, residential premises located across the site were still present, which were observed to be in good condition. Asbestos containing materials (ACM) were evident within building materials used for several residential properties, including but not limited to; 21, 29, 31 Bailey Street and 19, 21 and 3 Hassall Street.</p> <p>Additionally, outdoor sheds located in the backyard of 141 Hawkesbury Road, 26 – 27 Alexander Avenue and 31, 33 and 25 Bailey Street were observed to contain ACM.</p> <p>The former Petrol Station located at 3 Hassall Street contained a workshop structure and an outdoor garage.</p> <p>Car parks covered by concrete hardstand were observed at 139 and 141 Hawkesbury Road.</p>
Sumps/Drains	Multiple surface water drains were noted to be scattered throughout the various properties on-site, predominantly within artificial drainage lines or along the boundary of the site.
Presence of stockpiled materials	No stockpiles were observed on-site.
Industrial Liquid Waste Disposal	No industrial liquid waste disposal facilities were observed on-site.
Domestic Waste Disposal	Domestic waste bins were observed at the site.
Existing Services	The site is predominantly serviced by power supply from on-wall power lines.
Vegetation Type, Cover and Condition	Low-bearing and invasive vegetation were noted to be densely distributed throughout the site. No signs of vegetative stress were noted during the course of the investigation.
Hazardous Building Materials	Suspected asbestos containing roof sheeting, wall cladding, and loose fibre cement sheeting were observed at multiple properties on-site during the inspection.
Fuel Storage Tanks (USTs/ASTs)	UST manhole covers and associated fuel infrastructure were observed at the service station footprint at the north-eastern portion of the site. However, no ASTs were observed at the time of ADE's inspections.
Dangerous Goods	The four USTs within 3 Hassall Street, as identified in the Dangerous Goods Search, were verified during the site inspection however the three ASTs could not be located. No other dangerous goods items were identified within the site. Refer to Section 3.6 and <i>Appendix XI – Dangerous Goods Search</i> .
Surrounding Areas	Surrounding areas are predominantly used for residential and commercial land use purposes.

5 Sampling Plan, Methodology and Investigation Pattern

5.1 Pre-work Procedure

Before mobilisation to site, a job-specific safety, health & environmental work method statement (SH&EWMS) was developed, presented in a pre-start meeting before the commencement of works and signed on to by ADE staff and contractors.

After completing the preliminaries, an experienced environmental consultant undertook a detailed site walkover to identify potential sources of contamination or areas of notable concern. Upon completion, the proposed test pit locations were marked out across the site based on accessibility and observations noted during the walkover. Before the commencement of intrusive activities, each proposed test pit location was ‘cleared’ for underground services by a qualified service locator via cable avoidance tool and ground-penetrating radar (GPR).

5.2 Sampling Design Plan Strategy and Rationale

The site investigation and soil sampling procedures were developed in consultation with the NSW EPA Sampling Design Guidelines (NSW EPA, 1995). A systematic regime was designed to collect representative samples from across the site based on site observations and limitations such as accessibility. A total of 25 sampling locations were completed across the site using a systematic sampling pattern. The sampling density adopted for this investigation is compliant with the NSW EPA (1995) sampling design guidelines. Further sampling (excluding sampling in response to unexpected finds) will be required in areas previously inaccessible during field works (e.g. areas presently covered by hardstand and areas presently occupied by built structures) and this sampling should be compliant with IWRG702 (2009) depending on the amount of waste requiring off-site disposal.

5.3 Soil Sampling Methodology

On 15, 23 and 24 November 2021, a total of 25 test pit locations were completed across the site using a hand auger and a 6-tonne excavator to a maximum depth of 1.8 m BGL. A hand auger was utilised for sampling of the soils within test pits TP4 and TP10 due to site-specific access restrictions.

Soil samples were collected at various depths, representative of the soil strata. Fill samples were generally collected at the soil surface and/or directly beneath the hardstand, followed by every metre thereafter or if a change in lithology was encountered until the proposed target depth was reached.

All soil samples were collected using dedicated nitrile gloves and placed in laboratory prepared, suitable analyte containers involving sterile glass jars lined with Teflon lids for chemical analysis and small zip lock bags for asbestos analysis. Each sample collected for chemical analysis was placed within a pre-chilled esky or cooler box with ice packs or equivalent to maintain samples at approximately 4°C. Asbestos samples were stored in a large resin bag for storage. The original chain of custody (CoC) form was enclosed with the samples and dispatched to NATA accredited analytical laboratories.

Following collection of each sample, a PID with a 10.6 eV lamp, pre-calibrated with isobutylene gas at 100 ppm was used to screen the headspace gases of the collected samples to assess for the presence of volatile organic compounds (VOCs). The PID headspace screening was conducted using a resealable zip-lock plastic bag, and the soil sample was agitated as the PID reading was taken inside the zip-lock plastic bag (the bag was appropriately sealed when inserting the PID).

A total of 52 primary soil samples were collected across the course of the investigation (excluding QA/QC samples). All samples were submitted to NATA accredited laboratories for analyses as per the recommended holding times on a standard (5-day) turnaround time (refer to **Table 12** for the adopted sampling and analytical program).

5.4 Equipment Decontamination

Dedicated disposable materials (such as nitrile gloves) were changed between each sampling point. All disposable sampling equipment/materials were collected and removed before leaving the site. All non-disposable sampling equipment were decontaminated by a three-stage decontamination process which included rinsing the piece of equipment with deionised water, followed by a rinse of a detergent (Liquinox) and a final rinse using deionised water.

5.5 Documentation

A field observation log was kept by sampling personnel during all phases of soil and groundwater sampling. Details recorded in the log included:

- Test pit number
- Soil profile notes
- Sampling method
- Sample identification
- Sample description, and
- Sample point measurements.

A comprehensive master sample register was maintained. As samples were received, they were given a unique sequential number from the sample register into which details from the labels were entered. Before packing and dispatch of samples for analysis, a CoC form was completed (refer to *Appendix VII – Analytical Reports and Chain of Custody Documentation*). This form recorded details of the individual samples being dispatched and the type of analysis required for each sample.

5.6 Laboratory Submission

The following outlines the NATA accredited laboratories used for analytical testing:

- Sydney Laboratory Services (SLS), Silverwater NSW – NATA Accreditation No. 14664
- Eurofins, Lane Cove West – NATA Accreditation No. 1261

Table 8 outlines the sampling and analytical program for analysis of soil and QAQC samples collected during the course of the investigation. Refer to *Appendix VII – Analytical Reports and Chain of Custody Documentation* for the analytical methods used by the respective laboratories.

Table 8. Sampling and Analytical Program

Sample I.D.	Depth (m BGL)	Matrix	Date	Sample Type	Analysis							
					Standard Suite ¹	Asbestos (Presence/Absence)	VOCs/SVOCs ²	Phenols ²	BTEX Only	TCLP – Heavy Metals (Pb) ³	Airborne asbestos monitoring	
WAC1.TP1_0.5	0.5	Soil	15/11/21	Primary	X	X						
WAC1.TP1_1.8	1.8	Soil	15/11/21	Primary	X	X						
WAC1.TP2_0.5	0.5	Soil	15/11/21	Primary	X	X						
WAC1.TP3_0.5	0.5	Soil	15/11/21	Primary	X	X						
WAC1.TP3_1.8	1.8	Soil	15/11/21	Primary	X	X						
WAC1.TP4_0.2	0.2	Soil	15/11/21	Primary	X	X					X	
WAC1.TP4_0.5	0.5	Soil	15/11/21	Primary	X	X						
WAC1.TP5_0.3	0.3	Soil	15/11/21	Primary	X	X						
WAC1.TP6_0.3	0.3	Soil	15/11/21	Primary	X	X	X	X				
WAC1.TP6_0.5	0.5	Soil	15/11/21	Primary	X	X	X	X				
WAC1.TP7_0.3	0.3	Soil	15/11/21	Primary	X	X					X	
WAC1.TP7_0.7	0.7	Soil	15/11/21	Primary	X	X					X	
WAC1.TP8_0.2	0.2	Soil	15/11/21	Primary	X	X						
WAC1.TP8_0.5	0.5	Soil	15/11/21	Primary	X	X					X	
WAC1.TP9_0.2	0.2	Soil	15/11/21	Primary	X	X					X	
WAC1.TP9_0.5	0.5	Soil	15/11/21	Primary	X	X						
WAC1.TP9_0.8	0.8	Soil	15/11/21	Primary	X	X						
WAC1.TP10_0.2	0.2	Soil	15/11/21	Primary	X	X	X	X			X	
WAC1.TP10_0.5	0.5	Soil	15/11/21	Primary	X	X	X	X				
WAC1.TP10_0.5	0.5	Soil	15/11/21	Primary	X	X						
WAC1.TP11_0.3	0.3	Soil	15/11/21	Primary	X	X						
WAC1.TP11_0.5	0.5	Soil	15/11/21	Primary	X	X						
WAC1.TP2.FC1	0.1	Fibre cement	15/11/21	Fibre cement		X						
A1	-	Air	15/11/21	Primary								X
A2	-	Air	15/11/21	Primary								X
A3	-	Air	15/11/21	Primary								X
Blank	-	Air	15/11/21	Primary								X
WAC1.TP12_0.3	0.3	Soil	23/11/21	Primary	X	X	X	X			X	
WAC1.TP12_0.5	0.5	Soil	23/11/21	Primary	X	X	X	X				
WAC1.TP13_0.3	0.3	Soil	23/11/21	Primary	X	X					X	
WAC1.TP13_1.0	1.0	Soil	23/11/21	Primary	X	X						
WAC1.TP14_0.3	0.3	Soil	23/11/21	Primary	X	X	X	X				
WAC1.TP14_0.7	0.7	Soil	23/11/21	Primary	X	X	X	X				
WAC1.TP15_0.3	0.3	Soil	23/11/21	Primary	X	X					X	
WAC1.TP15_0.7	0.7	Soil	23/11/21	Primary	X	X						
WAC1.TP16_0.2	0.2	Soil	23/11/21	Primary	X	X					X	
WAC1.TP16_0.5	0.5	Soil	23/11/21	Primary	X	X						
WAC1.TP17_0.3	0.3	Soil	23/11/21	Primary	X	X					X	
WAC1.TP17_0.6	0.6	Soil	23/11/21	Primary	X	X						
WAC1.TP18_0.2	0.2	Soil	23/11/21	Primary	X	X						
WAC1.TP18_0.8	0.8	Soil	23/11/21	Primary	X	X						
WAC1.TP19_0.2	0.2	Soil	23/11/21	Primary	X	X					X	
WAC1.TP19_0.4	0.4	Soil	23/11/21	Primary	X	X						
WAC1.TP2_0.9	0.9	Soil	24/11/21	Primary	X	X						
WAC1.TP20_0.3	0.3	Soil	24/11/21	Primary	X	X					X	
WAC1.TP20_0.5	0.5	Soil	24/11/21	Primary	X	X						

Sample I.D.	Depth (m BGL)	Matrix	Date	Sample Type	Analysis						
					Standard Suite ¹	Asbestos (Presence/Absence)	VOCs/SVOCs ²	Phenols ²	BTEX Only	TCLP – Heavy Metals (Pb) ³	Airborne asbestos monitoring
WAC1.TP21_0.3	0.3	Soil	24/11/21	Primary	X	X	X	X		X	
WAC1.TP21_0.5	0.5	Soil	24/11/21	Primary	X	X	X	X			
WAC1.TP22_0.3	0.3	Soil	24/11/21	Primary	X	X				X	
WAC1.TP22_0.5	0.5	Soil	24/11/21	Primary	X	X					
WAC1.TP23_0.3	0.3	Soil	24/11/21	Primary	X	X				X	
WAC1.TP23_0.6	0.6	Soil	24/11/21	Primary	X	X					
WAC1.TP24_0.5	0.5	Soil	24/11/21	Primary	X	X				X	
WAC1.TP24_1.0	1.0	Soil	24/11/21	Primary	X	X					
WAC1.TP25_0.3	0.3	Soil	24/11/21	Primary	X	X					
WAC1.TP25_0.7	0.7	Soil	24/11/21	Primary	X	X					
WAC1.TP5_0.7	0.7	Soil	24/11/21	Primary	X	X					
WAC1.BR1	-	Soil	15/11/21	Field Duplicate	X						
WAC1.SR1	-	Soil	15/11/21	Inter-lab Duplicate	X						
RINSATE1	-	Water	15/11/21	Rinsate	X						
TB1	-	Water	15/11/21	Trip Blank					X		
TS1	-	Water	15/11/21	Trip Spike						X	
TB2	-	Water	23/11/21	Trip Blank						X	
TS2	-	Water	23/11/21	Trip Spike						X	
BR2	-	Soil	23/11/21	Field Duplicate	X		X	X			
SR2	-	Soil	24/11/21	Inter-lab Duplicate	X		X	X			
BR3	-	Soil	24/11/21	Field Duplicate	X						
SR3	-	Soil	24/11/21	Inter-lab Duplicate	X						
TB3	-	Water	24/11/21	Trip Blank					X		
TS3	-	Water	24/11/21	Trip Spike						X	
WAC1.TP3_FC3_0.1	0.1	Fibre cement	24/11/21	Fibre cement		X					
WAC1.TP21_FC4_0.1	0.1	Fibre cement	24/11/21	Fibre cement		X					
WAC1.TP23_FC5_0.1	0.1	Fibre cement	24/11/21	Fibre cement		X					
WAC1.TP24_0.5	0.1	Fragment	24/11/21	Fragment		X					

Notes To Table 8

1 – Standard suite includes; heavy metals (M8), TRHs, BTEXN, PAHs, OCPs/OPPs and PCBs.

2 – Based on ADE's desktop review as specified in Section 3.6, ASTs and USTs are associated with the historical land use within the north-eastern portion of the site (former service station). As such, ADE has included limited analysis of Phenols, SVOCs and VOCs for this investigation (as required).

3 – TCLP analysis was undertaken on samples that exceeded CT1 criteria for the preliminary waste classification (in accordance with NSW EPA, 2014 guidelines).

6 Site Assessment Criteria

6.1 Soil Assessment Criteria

The soil assessment criteria specified in the following publications were employed for this PSI/DSI:

- Australian and New Zealand Guidelines for the Assessment and Management of Contaminated Sites, Environmental Soil Quality Guidelines Background Ranges (ANZECC, 1992)
- Assessment of Site Contamination, National Environment Protection (Assessment of Site Contamination) Measure [NEPM], 2013 (NEPC, 2013)
- D.A Berkman. (1989) Field Geologist's Manual (D.A. Berkman, 1989)
- Health Screening Levels for Petroleum Hydrocarbons in Soil and Groundwater. Part 1: Technical Development Document, CRC CARE Technical Report No. 10, CRC for Contamination Assessment and Remediation of the Environment, 2011 (CRC CARE, 2011), and
- New South Wales Environmental Protection Authority [NSW EPA]. (2014). Waste Classification Guidelines – Part 1: Classifying Waste (NSW EPA, 2014).

6.1.1 Health Investigation Levels (HILs)

The NEPM (2013) guidelines describe four broad land-use settings to assess potential human health risks for a broad range of metals and organic substances. These four HIL categories are used to assess human health risk via all relevant pathways of exposure for the following broad land use categories:

- HIL-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)
- HIL-B – Residential with minimal opportunities for soil access includes dwellings with fully and permanently paved yard space such as high-rise buildings and flats
- HIL-C – Public open space such as parks, playgrounds, playing fields (e.g., ovals), secondary schools and footpaths. It does not include undeveloped public open space (such as urban bushland and reserves), which should be subject to a Site-specific assessment where appropriate, and
- HIL-D – Commercial/industrial such as shops, offices, factories and industrial sites.

Based on the available information, which includes the current land use as commercial/industrial land, the HIL-D criterion has been adopted for screening purposes. A summary of the applicable HILs for soil is presented within **Table 11**.

6.1.2 Health Screening Levels (HSLs)

The Health Screening Levels (HSLs) for selected petroleum compounds and fractions applicable to this investigation refer to human health risks via vapour intrusion, inhalation and direct contact pathways. The HSLs depend on specific soil physicochemical properties, land use scenarios and the characteristics of the proposed building structures. The most conservative HSL for medium-density residential and commercial/industrial tier 1 screening criteria has been adopted for hydrocarbon vapour intrusion. The adopted HSLs from Table 1A (3) of Schedule B1 of the NEPM (2013) guideline are summarised in **Table 11**.

6.1.3 Ecological investigation levels and Ecological Screening Levels (EILs/ESLs)

As noted in Section 1, consideration of landscaping areas with access to soil have not been assessed since the design of the station is not finalised and consideration of this has not been included within Delta's scope of works for this project.. As such, ADE does not consider EIL/ESLs relevant for this investigation.

6.1.4 Management Limits

'Petroleum hydrocarbon management limits' ('management limits') are a set of assessment criteria outlined in NEPM 2013 applicable to petroleum hydrocarbon compounds which aim to avoid or minimise the potential effects of:

- Formation of observable light non-aqueous phase liquids (LNAPL)
- Fire and explosive hazards, and
- Effects on buried infrastructure, e.g., penetration of, or damage to, in-ground services by hydrocarbons.

The adopted Management Limits from Table 1B (7), Schedule B1 of NEPM (2013) are shown in **Table 11**.

6.1.5 Asbestos

For the purpose of this investigation, ADE has adopted a presence/absence screening for assessment of asbestos materials with analysis of soils per clause(s) 8.2.3 or 8.2.4 of the Australian Standard, Method for the qualitative identification of asbestos in bulk samples, Standards Australia (AS4964-2004).

6.1.6 Acid Sulfate Soils Assessment Criteria

A review of the *Parramatta/Prospect Acid Sulfate Soil Map* (Department of Land and Water Conservation, 1997) was undertaken to determine the potential for Acid Sulfate Soil (ASS) at the Site. The source site was identified as having no known occurrences of ASS. As such, initial screening of pH and pH following oxidation (pH/pHO_x) was not deemed to be necessary for this investigation. In addition, no further assessment of ASS was undertaken at the site.

6.1.7 Waste Classification Guidelines – Part 1: Classifying Waste (NSW EPA, 2014)

To provide a preliminary assessment with regards to potential off-site disposal options, ADE has compared the analytical data collected during the investigation against the NSW EPA Waste Classification Guidelines – Part 1: Classifying Waste (NSW EPA, 2014).

To classify the fill materials across the site, ADE adopted the contaminant threshold (CT), specific contaminant concentration (SCC) and toxicity leaching procedure (TCLP) criteria assigned to General Solid Waste (CT1/SCC1/TCLP1) and Restricted Solid Waste (CT2/SCC2/TCLP2). A summary of the adopted waste classification criteria is provided in **Table 9**.

Table 9. Site Assessment Criteria – Waste Classification of Soil Materials.

Analytes	Maximum Values of Total Concentration Assigned for General Solid Waste CT1/CT2 (mg/kg)	Maximum Values of Total Concentration Assigned for General Solid Waste TCLP1 (mg/L) / SCC1 (mg/kg)	Maximum Values of Total Concentration Assigned for General Solid Waste TCLP2 (mg/L) / SCC2 (mg/kg)
PAHs			
Total PAHs	200/800	NA/200	NA/800
Benzo(a)pyrene	0.8/3.2	0.04/10	0.16/23
OCPs			
Endosulfan ¹	60/240	3/108	12/432
OPPs			
Chlorpyrifos	4/16	0.2/7.5	0.8/30
TRH			
C ₆ –C ₉ Petroleum Hydrocarbons	650/2,600	NA/650	NA/2600
C ₁₀ –C ₃₆ Petroleum Hydrocarbons	10,000/40,000	NA/10,000	NA/40,000
PCB			
Total PCB	<50/<50	NA	NA
BTEX			
Benzene	10/40	0.5/18	2/72
Toluene	288/1,152	14.4/518	57.6/2073
Ethylbenzene	600/2,400	30/1,080	120/4320
Xylenes (Total)	1,000/4,000	50/1,800	200/7200
Metals			
Arsenic	100/400	5.0/500	20/2000
Cadmium	20/80	1.0/100	4/400
Chromium ²	100/400	5/1,900	20/7600
Copper	NA	NA	NA
Lead	100/400	5.0/1,500	20/6000
Mercury	4.0/16	0.2/50	0.8/200
Nickel	40/160	2.0/1,050	8/4200
Zinc	NA	NA	NA

Notes to Table 9

1 - Endosulfan (CAS Registry Number 115-29-7) means the total of Endosulfan I (CAS Registry Number 959-98-8), Endosulfan II (CAS Registry Number 891-86-1) and Endosulfan sulfate (CAS Registry Number 1031-07-8).

2- Chromium (Total).

*ND. Not detected/below Practical Quantitation Limit (PQL); NA – Not Applicable

6.1.8 Virgin Excavated Natural Material (VENM) as per POEO Act, 1997

To assess the underlying virgin soil materials, the virgin materials have been indicatively compared as Virgin Excavated Natural Material (VENM) as per the Protection of the Environment Operations Act 1997 (NSW) (POEO Act). The POEO Act 1997 defines VENM as:

'Natural material (such as clay, gravel, sand, soil or soil fines):

- Excavated or quarried from areas that are not contaminated with manufactured chemicals, or with process residues, as a result of industrial, commercial, mining or agricultural activities
- Does not contain any sulfidic ores or soils or any other waste, and
- Includes excavated natural material that meets such criteria for virgin excavated natural material as may be approved for the time being pursuant to an EPA Gazettal notice.'

To provide an indicative assessment into the underlying virgin soils suitability as VENM, the background ranges outlined in the Field Geologist's Manual, compiled by D.A Berkman (D.A. Berkman, 1989) and the Australian and New Zealand Guidelines for the Assessment and Management of Contaminated Sites (ANZECC, 1992) were adopted and are summarised in **Table 10**.

Table 10. Site Assessment Criteria – Chemical Characterisation of VENM material.

Analytes	Site Assessment Criteria	
	Berkman (1989) Background Ranges ¹	ANZECC (1992) Background Ranges ²
Arsenic	1-50	0.2-30
Cadmium	1	0.04-2
Chromium (III) ³	5-1000	0.5-110
Copper	2-100	1-190
Lead	2-200	<2-200
Mercury	0.03	0.001-0.1
Nickel	5-500	2-400
Zinc	10-300	2-180
TRH Fraction C ₆ -C ₁₀	ND	ND
TRH Fraction C ₁₀ -C ₁₆	ND	ND
TRH Fraction C ₁₆ -C ₃₄	ND	ND
TRH Fraction C ₃₄ -C ₄₀	ND	ND
DDT + DDD + DDE	ND	ND
Chlordane	ND	ND
Aldrin + Dieldrin	ND	ND
Endosulfan	ND	ND
Total PCBs	ND	ND
Benzene	ND	ND
Toluene	ND	ND
Ethylbenzene	ND	ND
Xylenes (Total)	ND	ND
Benzo(a)pyrene	ND	ND
PAH (Total)	ND	ND
Asbestos	ND	ND
Total Phenols	ND	ND

Notes to Table 10

ND – Not detected / below Practical Quantitation Limit (PQL)

NA – Not Applicable

1- Background ranges, taken from the Field Geologist's Manual, compiled by D A Berkman, Third Edition 1989. Publisher – The Australasian Institute of Mining & Metallurgy (Berkman, 1989).

2- Background ranges, taken from the Australian and New Zealand Guidelines for the Assessment and Management of Contaminated Sites, Environmental Soil Quality Guidelines Background Ranges (ANZECC, 1992).

3 - Concentrations reported as Chromium (total)

6.1.9 Aesthetics

NEPM 2013 requires that the aesthetic quality of accessible soils be considered even if analytical testing demonstrates that concentrations of COPCs are within the Site assessment criteria (SAC). It should be noted that there are no quantifiable guidelines in determining if soils are appropriately aesthetic. However, the NEPM 2013 does indicate that professional judgement concerning the quantity, type and distribution of foreign materials and odours concerning the specific land use should be employed.

The following scenarios (including but not limited to the following) would trigger further aesthetic assessment:

- Hydrocarbon sheen on surface water
- Anthropogenic soil staining, and
- Odorous soils, i.e., petroleum hydrocarbon odours or hydrogen sulfide in soil.

6.2 Statistical Treatment

Analytical results from the soil sampling program are statistically analysed to determine their applicability to the assessment and recommendation of remedial actions in the event of site assessment criteria (SAC) exceedances.

A contaminant concentration in soil will be deemed a non-exceedance if:

- The maximum concentration of all samples meets the specified acceptance criteria; or
- The 95% Upper Control Limit (UCL) is below the acceptance criteria with the following criteria:
 - The standard deviation of the results should be less than 50% of the relevant investigation or screening level; and
 - No individual exceedance should exceed 250% of the relevant investigation or screening level.

If the 95% UCL of the arithmetic mean of a contaminant concentration is above the acceptance criteria, then the soil will be classified as contaminated and will require further assessment, remediation, removal or management. If the 95% UCL of the arithmetic average concentrations is below the acceptance criteria, and no concentrations are at a hotspot level, slight elevations above the acceptance criteria may be considered to pose insignificant human health or environmental risk. The location will hence be considered a non-exceedance requiring no further assessment, remediation, removal or management. The statistical analysis for the assessment of ACM is not considered appropriate.

Table 11. Site Assessment Criteria for soil contamination, mg/kg.

Analyte	Health Investigation Levels (HILs) ¹	Health Screening Levels (HSLs) ³			Management Limits
	Commercial / Industrial (HIL-D) (mg/kg)	Vapour Intrusion – HSL-D (mg/kg)	Screening Levels Intrusive Maintenance Worker (Shallow Trench) for Vapour and Direct Contact, 0m to <2m ⁴ (mg/kg)	Direct Contact – HSL-D (mg/kg)	Commercial / Industrial (mg/kg)
Arsenic (total)	3,000	-	-	-	-
Cadmium	900	-	-	-	-
Chromium (Total)	3,600	-	-	-	-
Copper	240,000	-	-	-	-
Lead	1,500	-	-	-	-
Mercury (inorganic)	730	-	-	-	-
Nickel	6,000	-	-	-	-
Zinc	400,000	-	-	-	-
Polycyclic aromatic hydrocarbons (PAHs)	4,000	-	-	-	-
Benzo(a)pyrene	-	-	-	-	-
Carcinogenic PAHs (as BaP TEQ) ²	40	-	-	-	-
DDT+DDE+DDD	3,600	-	-	-	-
Aldrin and Dieldrin	45	-	-	-	-
Chlordane	530	-	-	-	-
Endosulfan	2,000	-	-	-	-
Endrin	100	-	-	-	-
Heptachlor	50	-	-	-	-
Methoxychlor	2,500	-	-	-	-
Chlorpyrifos	2,000	-	-	-	-
PCBs (Total)	7	-	-	-	-
Phenols (Total)	-	-	-	-	-
VOCs	-	-	-	-	-
Benzene	-	4	1,100	430	-
Toluene	-	-	120,000	99,000	-
Ethyl Benzene	-	-	85,000	27,000	-
Xylene	-	-	130,000	81,000	-
Naphthalene	-	-	29,000	11,000	-
TRH: C ₆ – C ₁₀ (F1) ⁵	-	310	82,000	26,000	800 ¹¹
TRH: C ₁₀ -C ₁₆ (F2)	-	-	62,000	20,000	1,000 ¹¹
TRH: C ₁₆ - C ₃₄ (F3)	-	-	85,000	27,000	5,000
TRH: C ₃₄ – C ₄₀ (F4)	-	-	120,000	38,000	10,000

Notes to 11

1- Human exposure settings based on land use have been established for HILs (see Taylor and Langley 1998).

2- Carcinogenic PAHs: HIL is based on the 8 carcinogenic PAHs and their Toxic Equivalency Factor (TEFs) (potency relative to B(a)P). The B(a)P TEQ (Toxic Equivalency Quantity) is calculated by multiplying the concentration of each carcinogenic PAH in the sample by its B(a)P TEF.

3- Health Screening Levels (HSL) for surface soils 0 m to <1 m where applicable.

4- Most conservative criteria adopted outlined for vapour risk and direct contact.

5- To obtain F1, subtract the sum of BTEX from the C₆-C₁₀ fraction.

6- Calculated as per the Assessment of Site Contamination, National Environment Protection (Assessment of Site Contamination) Measure (1999), 2013 Amendment.

7- Laboratory detection limit adopted for screening purpose.

8- Values for fine-grained soil texture adopted for conservative purposes.

9- Generic ESLs for TPH fractions, F1-F4, BTEX and benzo(a)pyrene.

10- Generic ESL values.

11- Separate management limits for BTEX and naphthalene are not available hence these should not be subtracted from the relevant fractions to obtain F1 and F2.

6.3 Groundwater Assessment Criteria

ADE's scope of works included a shallow intrusive assessment, since only soils up to 1.8 m bgl (maximum depth of Delta's proposed demolition works) were required for assessment. ADE notes that no groundwater was encountered up to 1.8 m bgl. Additionally, no nearby water receptors and drinking water boreholes were observed. As such, no groundwater assessment was undertaken as part of this investigation.

7 Results and Discussion

7.1 Field Observations

7.1.1 Site Soil and Sub-soil Geology

The typical soil stratigraphy encountered during the field investigation is detailed in **Table 12** (refer to *Appendix II – Photographs* and *Appendix VI – Borehole Logs*). The upper soil profile on-site is inconsistent with the regional soil landscape previously outlined, likely due to the historical use of uncontrolled fill.

Table 12. Encountered sub-surface lithology.

Layer	Material Description	Depth of the Layer (m BGL)
Fill	Silty CLAY/ CLAY / Sandy CLAY / Sandy SILT	Soil surface up to a maximum depth of 1.8 m BGL.
Natural	CLAY	Occurs sporadically throughout the site from a minimum depth of 0.3 m BGL to a maximum depth of 1.8 m BGL.

Notes to Table 12

1- Refer to *Appendix VI – Test Pit Logs* for detailed lithological descriptions.

7.1.2 PID Field Screening

Each soil sample was screened for the presence of VOCs using a PID. The PID readings reported concentrations ranging from 0.0 ppm to 0.8 ppm. As the maximum recorded concentration was below the actionable criteria (15-20ppm), no further analysis was required (refer to *Appendix IV – Analytical Results Tables*).

7.2 Summary of Soil Analytical Results

Based on the analytical results collected from soil samples analysed across the investigation area, all samples returned concentrations below that of the prescribed land-use criteria (HIL-D/HSL-D) (refer to *Appendix IV – Analytical Results Tables* for individual sample results). The following sub-sections provide a brief discussion for each key analyte group.

7.2.1 Heavy Metals

Of the 52 primary soil samples which were analysed, all samples demonstrated concentrations of heavy metals below the tier 1 screening levels for HIL-D/HSL-D as outlined within the NEPM (*NEPC, 2013*).

7.2.2 Organics (BTEXN, TPHs, PAHs, OCP/OPPs, PCBs, VOCs and Phenols)

All samples demonstrated concentrations of organic analytes below the laboratory PQL, with the exception of minor detections of PAHs within WAC1.TP2_0.5, WAC1.TP20_0.3 and WAC1.TP24_0.5 and minor detections of OCPs in WAC1.TP7_0.3, WAC1.TP7_0.7, WAC1.TP8_0.5 and WAC1.TP9_0.2. Despite these minor detections, the concentration of organics in all samples were noted to be below that of the adopted SAC.

7.2.3 Asbestos

A total of 52 65 g soil samples and four suspected fibre cement samples (WAC1.TP2.FC1, WAC1.TP3.FC3, WAC1.TP21.FC4 and WAC1.TP23.FC5) were collected throughout the course of the investigation and analysed as per AS4964-2004.

Soil sample WAC1.TP24_0.5 contained a minor ACM (chrysotile) fragment of fibre cement within the sample jar (refer to *Appendix IV – Analytical Results Tables* and *Appendix VII – Analytical Reports and Chain of Custody Documentation*).

Additionally, four other fragments of fibre cement were observed in WAC1.TP2.FC1, WAC1.TP3.FC3, WAC1.TP21.FC4 and WAC1.TP23.FC5, which were submitted for asbestos analysis. All four fibre cement fragment samples were reported to contain chrysotile asbestos (refer to *Appendix IV – Analytical Results Tables* and *Appendix VII – Analytical Reports and Chain of Custody Documentation*). No friable asbestos was detected within any of the other 52 soil samples analysed.

Should the client intend to beneficially re-use the fill materials, an additional asbestos quantification assessment will need to be undertaken to determine the suitability of the fill with regards to asbestos. Any additional asbestos quantification assessment must conform with the Western Australian Department of Health Guidelines for the Assessment, Remediation and Management of Asbestos Contaminated Sites in Western Australia (WA DOH, 2009) and the NEPM (NEPC,2013).

As part of ADE's scope of works, Delta requested airborne asbestos monitoring (AAM) be conducted during excavation works at TP2, TP5, TP7, TP8, TP9 and TP10 on 15 November 2021 due to the asbestos finds within these areas. Four AAM samples were analysed and were found to be below the laboratory detection limit for the method used (<0.01 fibres/mL).

Additionally, Delta engaged Property Risk Australia (PRA) to do some further asbestos assessments on-site. This entailed additional AAM and sampling of surface fibre cement fragments for the analysis of asbestos. Following PRA's assessment, it was established that ACM fragments had been present sporadically across the surface of the site with a high concentration of ACM found on the surface in the central and northern central portions of the site. Refer to *Appendix XIII – Other Supporting Documentation* for the findings of PRA's asbestos assessments.

7.3 Soil Chemical Characterisation - Preliminary Waste Classification

At the time of the inspection, the *in-situ* materials primarily consisted of:

Fill Materials – Special Waste

- FILL: Silty CLAY: low plasticity, dark brown, inclusion of rootlets, moist
- FILL: Sandy CLAY: low plasticity, dark brown, fine grained, moist, and
- FILL: Silty SAND: low plasticity, dark brown, inclusion of sub-angular gravels, fine-grained, dry to slightly moist.

Foreign materials including ACM, concrete, tiles, plastic and metal were observed within the fill materials inspected. No hydrocarbon staining or odours, paint chips or sulfidic ores were observed in any of the materials inspected.

Four fragments of fibre cement were sampled within the top 0.1 m bgl profile of TP2, TP3, TP21 and TP23 which were found to contain chrysotile asbestos. One fibre cement fragment was identified within soil sample TP24.0.5 during subsequent laboratory analysis, which was confirmed to contain chrysotile asbestos.

Fill Materials:

- FILL: Sandy CLAY: low plasticity, brown, fine-medium grained, moist, and
- FILL: Silty CLAY: low plasticity, dark brown, inclusion of rootlets, moist.

Foreign materials including concrete, tiles, plastic and metal were observed within the fill materials inspected. No hydrocarbon staining or odours, paint chips or sulfidic ores were observed in any of the materials inspected.

Natural Materials:

- CLAY: medium plasticity, red to brown, inclusion of rootlets, moist.

No foreign materials, ACM, indicators of potential acid sulphate soils (PASS), paint chips or hydrocarbon odours/staining were observed within the materials inspected.

7.3.1 Waste Classification - Fill Materials - Special Waste - Asbestos (as General Solid Waste)

Based on visual site observations, multiple potential asbestos containing materials (PACM) were noted within structures (such as residential buildings, outbuildings, fences and sheds) across the site. Additionally, asbestos was detected within four surface fibre cement samples collected by ADE and in multiple surface fragments by PRA (primarily within the central and northern central portions of the site). Therefore, it can be inferred that the exposed soil surface or the upper 100 mm of the fill profile across the site is contaminated with bonded asbestos. Based on the above, it is likely that upper 100 mm sub-surface fill profile across the majority of the site is considered to be classified as 'Special Waste – Bonded Asbestos (as General Solid Waste)' under the NSW EPA, 2014 guidelines (refer to **Section 8.5.3** for the chemical assessment).

Since a fibre cement fragment containing bonded chrysotile asbestos was detected in the soil sample at WAC1.TP24_0.5, test pit 24 ranging from surface to 1.0 m bgl (depth of nearest clean sample) is also considered as 'Special Waste - Bonded Asbestos (as General Solid Waste)'. Conservatively, each area in which bonded ACM was identified will be classified as Special Waste (Bonded Asbestos) up until the nearest clean sample at depth or the occurrence of the natural soil layer within that specific location. ADE notes that additional delineation sampling (laterally and vertically) for asbestos can also be undertaken by a qualified occupational hygienist/environmental consultant using a risk-based approach (refer to Section 10.2.4). Should further delineation sampling for asbestos be required, procedures and safety practices should be prepared and outlined in an Asbestos Management Plan.

7.3.2 Preliminary Waste Classification - Fill Materials - General Solid Waste - Non-Putrescible'.

A total of 33 representative samples were collected and analysed from the *in-situ* fill profile across the site. Based on the analytical data collected throughout the investigation, the following conclusions were reached (refer to *Appendix IV – Analytical Results Tables*):

- The concentrations of lead at WAC1.TP4_0.2, WAC1.TP7_0.3, WAC1.TP7_0.7, WAC1.TP8_0.5, WAC1.TP9_0.2, WAC1.TP10_0.2, WAC1.TP12_0.3, WAC1.TP13_0.3, WAC1.TP15_0.3, WAC1.TP16_0.2, WAC1.TP17_0.3, WAC1.TP19_0.2, WAC1.TP20_0.3, WAC1.TP21_0.3, WAC1.TP22_0.3, WAC1.TP23_0.3, WAC1.TP24_0.5 were reported to exceed the Lead (Pb) CT1 criteria (100mg/kg).

The exceedances of lead against the CT1 criteria can be attributed to the historical importation of uncontrolled fill into the site. Toxicity characteristic leaching procedure (TCLP) was undertaken on each of the samples which exceeded the CT1 criteria (refer to *Appendix IV – Analytical Results Tables* for individual sample results). In summary, all leachable concentrations were reported below the TCLP1 criteria assigned for lead.

Based on the above, ADE's soil sample results which indicated samples free from asbestos and knowledge of the fill depth on-site (refer to *Appendix VI - Test Pit Logs*), the following fill materials can be preliminarily classified as 'General Solid Waste - Non-Putrescible':

- TP1, TP2, TP3, TP4 (0.5 – 1.8 m bgl)
- TP5 (0.3 – 0.5 m bgl)
- TP6 (0.3 m bgl)
- TP7 (0.3 – 0.7 m bgl)

- TP8 (0.2 – 1.8 m bgl)
- TP9 (0.3 m bgl)
- TP10 (0.2 - 0.3 m bgl)
- TP11 (0.3 m bgl)
- TP12 (0.3 – 0.4 m bgl)
- TP13 (0.3 – 0.9 m bgl)
- TP14 (0.3 – 0.5 m bgl)
- TP15 (0.3 – 0.6 m bgl)
- TP16 (0.2 – 0.4 m bgl)
- TP17 (0.3 – 0.5 m bgl)
- TP18 (0.2 – 0.6 m bgl)
- TP19 (0.2 m bgl)
- TP20 (0.3 m bgl)
- TP21 (0.5 m bgl)
- TP22 (0.3 – 0.5 m bgl)
- TP23 (0.3 – 0.4 m bgl)
- TP24 (0.6 m bgl), and
- TP25 (0.3 – 0.5 m bgl).

7.3.3 Waste Classification - Virgin Soil Materials

At the time of the inspection, the *in-situ* virgin soil materials primarily consisted of:

- CLAY: moderate plasticity, red to brown, trace angular gravels, trace rootlets, stiff, moist;
- CLAY: moderate plasticity, light grey, with shale fragments, stiff, dry

A total of 19 representative natural samples were collected and analysed from the *in-situ* soil materials encountered throughout the site. Upon review of the encountered lithology, the inspected natural soil materials were consistent with the local geology and soil landscape for the area. In conclusion, all natural samples returned analyte concentrations below that of the adopted background ranges (D.A. Berkman, 1989; ANZECC, 1992) (refer to *Appendix IV – Analytical Results Tables*).

Based on the above, the encountered natural soil materials on-site can be preliminarily classified as '**Virgin Excavated Natural Material**' as per the POEO Act (1997).

Before bulk earthwork activities, ADE recommends that a suitably qualified environmental consultant is engaged to validate that the upper-lying fill materials have been removed to a satisfactory standard and that the virgin soil matrix is consistent with that outlined in this report.

ADE notes that the Preliminary Waste Classification component of this investigation is for indicative purposes only and should not be used as a formal Waste Classification Report. ADE understands that the sample density adopted for this investigation (as stipulated in Section 5) is compliant with the sampling density outlined in the NSW EPA (1995) guidelines. However, since a precise volume of proposed excavated material has not been provided to ADE, further waste classification sampling may need to be done in the future to comply with the Victorian EPA Industrial Waste resource sampling guidelines (2009).

7.4 Duty to Report Contamination

For the purposes of section 60(3)(b) of the CLM Act, notification of contamination in, or on, soil on the land is required where:

- The 95 % UCL on the average arithmetic concentration of a contaminant in or on soil is equal to or above the HIL and/or HSL for that contaminant for the current or approved use of the respective on-site land, as specified in Section 6, Schedule B1 of the NEPM (2013); or
- The concentration of a contaminant in an individual soil sample is equal to or more than 250% of the HIL and/or HSL for that contaminant for the current or approved use of the respective on-site land, as specified in Section 6, Schedule B1 of the NEPM (NEPC, 2013); and
- The contaminant has entered, or will foreseeably enter, neighbouring land, the atmosphere, groundwater or surface water which is above that of the assessment criteria outlined in the Section 6, Schedule B1 NEPM (NEPC, 2013) or other approved guidelines and will foreseeably remain equal to or above the recorded level.

ADE considers that Delta does not have a duty to report contamination to the NSW EPA regarding on-site contamination of soils due to concentrations of the analysed analytes being below that of the adopted SAC.

8 Data Quality Assessment

In order to carry out the assessment of the data acquired in the course of the investigation, the US EPA Guidelines including, but not limited to, the '*Guidance on Assessing Quality Systems*' (2003) and '*Guidance on Systematic Planning Using the Data Quality Objectives Process*' (2006) were used.

The guidelines provide a general strategy for assessing data quality criteria and performance specifications for decision making. The following is the output from most of the steps of the data quality assessment (DQA) Process provided in the guidelines. Quality control reports from the laboratories for sample analyses were reviewed. The review included an assessment of blank, duplicate, control, and spiked samples. The review of the QA/QC program was conducted in accordance with NSW EPA recommendations.

In order to carry out the data quality assessment for the lab analytical results acquired in the course of this investigation, the US EPA Guidelines were used. The Guidelines provide a general strategy for assessing data quality criteria and performance specifications as part of decision making. The following assessment methodology addresses most of the steps of the data quality assessment (DQA) process provided in the guidelines.

8.1 Data Review

Quality control reports from the laboratories subcontracted for sample analyses were reviewed. Laboratory blank samples, duplicate samples, control samples, spiked samples and method blanks were evaluated.

This review was conducted as per the items recommended by the NSW EPA for inclusion in the consultants' reports. Some additional recommendations from the US EPA methodology, as referred to by AS 4482.1, were also followed.

Following the QA/QC assessment, the validity of the results is determined based on the assessment criteria adopted with the results expressed as either valid or invalid data (acceptable or unacceptable). An overall summary of the QA/QC assessment can be found in *Appendix V – QA/QC Output*.

8.2 COC

Australian Standard AS 4482.1 defines the chain-of-custody documentation as the link in the transfer of samples between the time of collection and arrival at the laboratory.

The COC utilised by ADE included the items recommended by the Standard:

- The person transferred the samples;
- The person who received the samples;
- Date the samples were collected;
- Date the samples were received at the laboratory; and
- Contact name and details for the client.

Copies of the COCs completed during the course of this investigation are provided in *Appendix VII – Analytical Reports and Chain of Custody Documentation*.

8.3 Field Equipment Calibration

Field equipment requiring calibration included the use of a photo-ionisation detector (PID). The PID was calibrated by an external qualified technician before the sampling events and further calibrated onsite i.e., bump tested (as required) by a suitably qualified environmental consultant (refer to *Appendix X – Equipment Calibration Certificates* for the attached calibration certificate).

8.4 Record of Holding Times

The objective is to ascertain the validity of the analytical results based on meeting the holding time for the samples from the time of collection to the time of analysis. The technical holding time criteria for soil and groundwater samples are summarised in **Table 13**.

Table 13. Recommended Storage, Preservation and Maximum Holding Times.

Analyte	Container	Recommended Preservation	Maximum Recommended Holding Time	Reference
Metals (excluding Hg & Cr VI)	P (MF)	HNO ₃ , C	6 months	APHA Table 1060:I
Metals (Cr VI)	P (MF)	NaOH, C	28 days	USEPA 1669
Metals (Hg)	P (MF)	HNO ₃	28 days	APHA Table 1060:I
Leachable Metals	G	H ₂ SO ₄	28 days	AS 4439.3
VOCs	G	Nil, C	14 days	USEPA SW-846-8260B
Phenols	G	Nil, C	14 days	USEPA SW 846-8015A
PAHs	G	Nil, C	14 days	
PCBs	G	Nil, C	14 days	
TRHs	G	Nil, C	14 days	USEPA 8260D
OCPs/OPPs	G	Nil, C	14 days	USEPA3510/8270
<i>E.coli</i>	P	PET, C	24 hours	AS 4276:21-2005
Total Coliforms	P	PET, C	24 hours	AS 4276.5-2007

Notes to Table 13

*Recommended Preservation: ZH - Zero Headspace; C - Chilled; PET- Polyterephthalate

*Containers: G - Glass; P (MF) - Plastic (Metal Free); P - Plastic (Polyethylene)

All samples collected throughout the investigation were submitted within two days of the initial soil sampling. As such, the holding times of the soil samples submitted to their elected laboratories (SLS, Envirolab and Eurofins) meet the recommended criteria (refer to *Appendix VII – Analytical Reports and Chain of Custody Documentation*).

8.5 Laboratory Analytical Methodology and Accreditation

All chemical analysis was undertaken by NATA accredited laboratories using US EPA approved methodology. Refer to *Appendix VII – Analytical Reports and Chain of Custody Documentation* for the details of the adopted laboratory analytical methods and their respective accreditations. The laboratory methodologies and the respective accreditations of SLS and Eurofins were deemed suitable for the required analyses.

8.6 Detection Limits / Practical Quantification Limits

The smallest amount of a substance that can be detected by the laboratories used – ALS and Eurofins, above the background method noise in a procedure and within a stated confidence level is referred as detection limit.

Current practice identifies several detection limits including the following: (1) the instrument detection limit (IDL), (2) the lower-level detection limit (LLD), the method detection limit (MDL) and the practical quantitation limit (LOR).

The relationship among these levels is approximately IDL: LLD: MDL: LOR = 1: 2: 4: 10. Refer to SLS, ALS and Eurofins for the list of LORs provided by their respective laboratories. When dilution of a sample is involved in the sample preparation, the method detection limit is adjusted by the dilution factor.

8.7 Field QA/QC

A summary of the QA/QC samples collected during field works is provided in **Table 14**.

Table 14. Summary of Field QA/QC Samples.

Field QA/QC	Frequency	Sample Details	Field QA/QC Frequency Achieved?
Blind replicate samples	1 per 20 samples	<ul style="list-style-type: none"> • Three blind replicate samples were collected during the investigation: • WAC1.BR1 is an intra-laboratory replicate of the primary sample of WAC1.TP1_0.5 • WAC1.BR2 is an intra-laboratory replicate of the primary sample WAC1.TP12_0.3 • WAC1.BR3 is an intra-laboratory replicate of the primary sample WAC1.TP25_0.3 	
Split Replicate samples	1 per 20 samples	<ul style="list-style-type: none"> • Three split replicate samples were collected during the investigation: • WAC1.SR1 is an intra-laboratory replicate of the primary sample of WAC1.TP1_0.5 • WAC1.SR2 is an intra-laboratory replicate of the primary sample WAC1.TP12_0.3 • WAC1.SR3 is an intra-laboratory replicate of the primary sample WAC1.TP25_0.3 	Yes ¹
Rinsate Sample	1 per sampling event	<ul style="list-style-type: none"> • One rinsate was collected throughout the course of the investigation. 	
Trip Blank	1 per sampling event	<ul style="list-style-type: none"> • A total of three trip blanks samples were utilised across the course of the investigation. 	
Trip Spike	1 per sampling event	<ul style="list-style-type: none"> • A total of three trip spike (spiked BTEX) samples were utilised across the course of the investigation. 	

Notes to Table 14

1- Rinsate samples were collected at a reduced density based on the prescribed fieldwork methodology.

8.7.1 Blind and Split Replicate Samples

Australian Standard 4428.1 and the NEPM (2013) specifies the typical Relative Percentage Data (RPD) values for replicate samples to be below 30%. If both samples' values are less than the practical quantification limit (PQL), the RPD is not calculated. Valid values are sample concentrations that fall within the control limits of 0-30% described above. Invalid values are concentrations that are outside of the control limits.

- Three intra-laboratory blind replicate samples were collected to determine the variability of the sampling process. The replicate sample was collected simultaneously from the same source and under identical conditions as the primary samples.
- The blind replicate samples showed 236 valid values and 1 invalid value.
- Three inter-laboratory split replicate samples were collected to measure the variability between the laboratory analysis process.
- The variability assessment showed 190 valid values and 6 invalid values.

8.7.2 Rinsate Samples

- One rinsate water sample was analysed to check on the decontamination procedures undertaken on the site.
- The analysis of the rinsate sample showed 110 valid values and nil invalid values.

8.7.3 Trip Blank Samples

- Three trip blank samples were prepared for the field investigation. The samples were stored with the collected samples throughout the sampling event.
- The trip blank samples were then packaged for shipment with the other representative samples and submitted for analysis. Trip blanks are used to determine if samples were contaminated during storage and/or transportation back to the laboratory (a measure of sample handling variability resulting in positive bias in contaminant concentration).
- The trip blank samples analysed returned results below the detection limit, resulting in 15 valid values and nil invalid values.

8.7.4 Trip Spike Samples

- Three trip spike (spiked BTEX) samples were analysed in order to estimate the loss of volatile compounds during the storage, handling and transportation of the investigation samples.
- The trip spike samples analysed returned results within the adopted criteria being 60 to 140% of the original concentration, resulting in 15 valid values and nil invalid values.

8.8 Laboratory QA/QC

8.8.1 Laboratory Duplicates

- Duplicate sample determinations were provided by the laboratories to demonstrate acceptable method precision at the time of analysis.
- Duplicates are generally analysed at a frequency of 1 for every 10 samples. Australian Standard 4482.1 provides an acceptable range of the RPD values up to 50% for quality control samples, depending on the magnitude of results in comparison to the LOR.
- Analysis of laboratory duplicates showed 607 valid values and nil invalid values.

8.8.2 Laboratory Blanks

- The assessment of blank analysis results was conducted to determine the existence and magnitude of contamination resulting from laboratory activities.
- No contaminants were found within any of the blanks analysed by the laboratory resulting in 816 valid values and nil invalid values.

8.8.3 Laboratory Spikes and Surrogates

- Laboratory limits of approximately 70-130% for inorganics/metals and 60-140% for organics were used to validate matrix spikes and laboratory surrogate samples.
- Analysis of spikes and surrogates showed 525 valid values and 55 invalid values.

8.8.4 Laboratory Control Samples

- Laboratory limit of approximately 70-130% for inorganics/metals and 60-140% for organics were used to validate laboratory control samples.
- Analysis of the laboratory control samples showed 335 valid values and 50 invalid values.

8.9 QA / QC Data Evaluation

The qualitative and quantitative descriptors, DQIs were used in interpreting the degree of acceptability of the data acquired in the course of the investigation. The principle DQIs are precision, accuracy, representativeness, comparability, and completeness referred to by the acronym PARCC.

Precision and accuracy are quantitative measures, representativeness and comparability are qualitative, and completeness is a combination of both quantitative and qualitative measures. **Table 15** summarises the DQO reconciliation.

Table 15. Summary of DQO Reconciliation.

QA/QC Item	DQO Criteria	Valid Data	Invalid Data	Completeness	Conclusion
Laboratory duplicate samples	95%	607	0	100.00%	Acceptable
Laboratory blank samples	100%	816	0	100.00%	Acceptable
Laboratory spike/surrogate recoveries	95%	525	55	90.04%	Fail
Laboratory Control samples	95%	335	50	86.11%	Fail
Blind Replicate Samples	75%	316	1	99.57%	Acceptable
Split Replicate Samples	75%	190	6	96.89%	Acceptable
Rinsate Samples	<LOR	110	0	100.00%	Acceptable
Trip Blank Samples	95%	15	0	100.00%	Acceptable
Trip Spike (BTEX) Samples	75%	15	0	100.00%	Acceptable
Overall Completeness:	95%	2929	112	96.96%	Acceptable

Notes to Table 15

*LOR – Limits of Reporting

Following a review of the data, the recorded ‘invalid’ results can be attributed to the difficulties in obtaining a homogeneous sample from heterogeneous matrices. The ratio of the valid data to the total number of the analyses conducted in the QA/QC program yielded 96.96%, thereby meeting the DQO criteria of 95% completeness.

9 Conceptual Site Model

NEPM (NEPC, 2013) identifies a Conceptual Site Model (CSM) as a representation of information regarding contamination sources, exposure pathways and the potential receptors. The essential elements of a CSM include:

- Known (and potential) contamination sources and contaminants of concern
- Impacted media (e.g. soil, groundwater, surface water, soil vapour etc.)
- Human/ecological receptors and
- Potential/complete exposure pathways.

The CSM developed for the site was based on the initial site walkover and soil analytical results reported in this investigation. This provided an understanding of the CoPC and their likely pathways. For the purposes of this report, the following qualitative risk assessment has been applied:

- Low Risk – the activities and related CoPC are likely to pose no or a low potential human health/environmental impact. Any impact is likely localised to a specific area of the Site;
- Moderate Risk – the activities and related CoPC are likely to pose potential for moderate human health/environmental impact. Any impact is likely localised to a specific area of the Site; and
- High Risk – the activities and related CoPC could pose a significant environmental impact. There is potential for impacts of the immediate local area of the site or off-site migration impacting surrounding human and/or environmental receptors.

The findings of the combined PSI/ DSi have been used to assess the potential for exposure to site personnel and associated impacts on the proposed construction and long-term future land use exposure scenarios at the site, as shown below.

9.1 Sources of Contamination and Contaminants of Potential Concern

The investigation identified the following contaminants in soils materials across the site:

- *Bonded asbestos* - Four chrysotile asbestos containing fibre cement fragments were identified within the top 0.1 m profile within TP2, TP3, TP21, TP23. One fragment of fibre cement was found at TP24 at 0.5 m; and
- *UST and related fuel infrastructure* - Although an accurate assessment of the condition of the fuel infrastructure could not be done on-site, this still serves as a potential source of contamination.

9.2 Model

Primary sources of contamination may include the following:

- Historical use of 3 Hassell Street (north-eastern portion of the site) as a Petrol Station;
- Historical use of ACM for building materials;
- Historical importation of soil materials within the site;
- Historical/current surrounding land uses; and
- Poor construction and demolition practices of previous and current dwellings and structures on-site.

Receptors of the contamination include:

- Construction workers and intrusive site workers;
- Members of the public;
- Neighbouring residents, members of the public and businesses;
- Future owners/users of the site; and
- Nearby Ecological Communities.

Potential exposure pathways to the receptors include:

- Exposure of construction workers and personnel on-site to contaminated site soils is possible. The risk is assessed as 'low', due to the ability to manage the work site and implement appropriate controls;
- Exposure of the public to contaminated soils is unlikely. The site is inaccessible to the public, and as such the risk is assessed to be 'low', and
- Having fuel infrastructure at the site creates the risk of inhalation to harmful hydrocarbon vapours from the products contained within the storage tanks.

10 Conclusions and Recommendations

Based on the findings of the site investigations the following is concluded:

10.1 Phase 1 - Preliminary Site Investigation

- Historically the site has been mainly used for low-density residential land use
- The site is currently zoned as 'R4 High Density Residential under the Cumberland LEP (CLEP, 2021) and is currently surrounded by a mixture of residential and commercial/industrial properties
- The site is situated within the Blacktown soil landscape and characteristically features a 'porous aquifer of low to moderate productivity'
- Potential types and sources of contamination noted during the walkover including but not limited to the following:
 - Exposure to potential historical un-controlled fill practices
 - Historical use of asbestos within building materials at the site, and
 - Potentially contaminating historical land-use activities i.e., use of a portion of the site as a fuel station.

10.2 Phase 2 – Limited Detailed Site Investigation

10.2.1 Soil Assessment

Of the 52 primary samples collected from the soil materials (fill and natural) across the investigation area, all samples returned concentrations for heavy metals, PAHs, metals, BTEX, TRHs, OCPs, OPPs, PCBs, phenols and VOCs below the proposed land-use screening criteria (HIL-D/HSL-D commercial/industrial criteria).

10.2.2 Asbestos Assessment

A total of 52 soil samples and four fibre cement samples were collected during the course of the investigation to provide an indicative presence/absence asbestos assessment.

One fragment of fibre cement was identified within a soil sample collected from TP24 at 0.5 m bgl (WAC1.TP24.0.5) and was confirmed to contain bonded chrysotile asbestos. No asbestos was recorded within any of the 52 soil samples analysed. Chrysotile asbestos was recorded within all four fibre cements samples analysed (WAC1.TP3_FC3_0.1, WAC1.TP21_FC4_0.1, WAC1.TP23_FC5_0.1 and WAC1.TP24_0.5)

Additionally, Delta engaged PRA to do some further asbestos assessments on-site. This entailed additional AAM and sampling of surface fibre cement fragments for the analysis of asbestos. It was later established that ACM fragments had been present sporadically across the surface of the site with a high concentration of ACM found on the surface in the central and northern central portions of the site.

Should the client intend to beneficially re-use any fill material within the site boundaries, an additional asbestos quantification assessment will need to be completed to assess the suitability of the material for the prescribed land-use in relation to asbestos as per the NEPM (NEPC, 2013) and the WA DOH (2009).

10.2.3 Safework Dangerous Goods Search

As specified in Section 3.6, the Safework Dangerous Goods Search returned documents indicating that an automotive fuel retailing site (service station), located at 3 Hassall Street (north-eastern corner of the site) stored four petroleum USTs and three liquefied natural gas ASTs. ADE notes that whilst there was visual evidence of USTs being present on-site, no evidence of ASTs was observed which suggests that these ASTs may have been removed from site.

The location of WAC1.TP2 was up-gradient of the identified USTs and fuel lines whilst WAC1.TP4 was downgradient of this infrastructure. Additionally, WAC1.TP1 was completed cross-gradient (to the north) and in close proximity to the fuel infrastructure. All three of these samples within close proximity to the fuel infrastructure (WAC1.TP1, WAC1.TP2 and WAC1.TP4) returned results below the adopted HSL-D/HIL-D criteria. Due to the limited extent and depth of this intrusive assessment, it is possible that contamination may have not been encountered if USTs were installed much deeper than the maximum depth of intrusive works.

Should USTs be uncovered during the excavation process, ADE recommends that the removal of the USTs and associated spoil be undertaken in conformance with the steps outlined below (in general accordance with AS4976-2008 – The removal and disposal of underground petroleum storage tanks).

10.2.4 Preliminary Waste Classification

The following preliminary waste classification has been provided to appropriately manage/dispose the waste streams encountered within the site, as per the NSW EPA (2014) waste classification guidelines:

- Due to the widespread surface ACM fragments identified by PRA and ADE, it can be inferred that the exposed soil surface or the upper 100 mm of the fill profile across the majority of the site is classified as '*Special Waste – Bonded Asbestos (as General Solid Waste)*'.
- A chrysotile asbestos containing fibre cement fragment was detected in the soil sample collected at 'Test Pit 24', ranging from the soil surface to a maximum depth of 1.0 m bgl (depth of nearest clean sample) is also considered as '*Special Waste - Bonded Asbestos (as General Solid Waste)*'.
- Conservatively, each area where bonded ACM was identified will be classified as Special Waste (Bonded Asbestos) up until where the nearest clean (asbestos-free) sample at depth or to the depth of the natural soil profile.
- Non-asbestos impacted fill materials at each sample location are considered to be preliminarily classified as '*General Solid Waste (Non-Putrescible)*' at various depths within the fill across the site. These depths/thicknesses are dependent on where the clean ('asbestos-free samples') were identified at each of ADE's test pits (WAC1.TP1 to WAC1.TP25).
- Natural soil materials at various depths across the site were preliminarily classified as '*Virgin Excavated Natural Material*' (based on where the natural material was encountered at each specific test pit location).

10.2.5 Limitations, Assumptions and Uncertainties

The following are considered to be limitations, assumptions or uncertainties related to the investigation:

- This investigation has been undertaken in exclusively for Delta's scope of works which includes early enabling works and demolition activities down to a maximum depth of 1.8 m BGL;
- No asbestos quantification assessment has been completed within the scope of this investigation and therefore, any soil materials intended to be beneficially re-used within the site boundaries will need to be subject to a gravimetric asbestos assessment as per the NEPM (NEPC, 2013);
- No groundwater assessment or underground storage tanks (USTs) management has been undertaken as part of this investigation and may require further assessment;
- No ecological risk assessment has been considered as the final design of the station is not finalised and was not included within Delta's scope of works for this project;
- The provided waste classification assessments are considered to be preliminary only and maybe subject to change depending on the conclusions of future investigations; and

- Certain areas within the site boundary were considered to be inaccessible due to the presence of pre-existing infrastructure .

10.3 Recommendations

Based on the conclusions above, ADE recommends the following:

- That a suitably licenced asbestos removalist be engaged to remove all surface bound asbestos and complete a topsoil strip (0.0-0.1 m bgl) within the unsealed areas on-site.
- Following the removal of topsoil and subsequent ACM fragments, a licensed asbestos assessor or occupational hygienist should conduct an asbestos clearance inspection on the new site surface.
- Following the clearance inspection, asbestos confirmatory sampling should be conducted on the site surface to verify that no asbestos is present on the newly formed surface. This will also enable greater volumes of fill to be classified as *General Solid Waste (Non-Putrescible)*.
- ADE notes that the preliminary waste classification component of this investigation is for indicative purposes only and this report should not be used as a formal waste classification. However, ADE notes that the number of sampling points undertaken during this investigation (from the fill and natural layer) are compliant with the NSW EPA 1995 guidelines. ADE recommends that following demolition works, additional samples of the fill and natural profile be taken from areas previously inaccessibly in order to assess the entirety of the subject area.
- Should any UST infrastructure be uncovered during the excavation process, ADE recommends that the removal of the UPSS and associated spoil be undertaken in general accordance with AS4976-2008 – The removal and disposal of underground petroleum storage tanks.
- Further delineation of the asbestos waste be required in the future, additional delineation sampling (laterally and vertically) for asbestos can be undertaken by a qualified occupational hygienist/environmental consultant using a risk-based approach.
- Should further delineation sampling or management of asbestos be required, procedures and safety practices should be prepared and outlined in an Asbestos Management Plan.

10.4 Closure

Based on the data collected during this investigation, ADE considers that there is a ‘low-risk’ for residual contamination to occur within the assessed areas across the site. Additional environmental investigations and environmental management plans maybe required for the long-term identification and management of contamination and determination of the sites overall land-use suitability with regards to the prescribed land-use. Depending on the data obtained within future investigations, condition D72 under the CSSI planning approval documentation maybe triggered, warranting further investigation and management.

11 Limitations and Disclaimer

This report has been prepared for the exclusive use of the client and is limited to the scope of the work agreed in the terms and conditions of contract (including assumptions, limitations and qualifications, circumstances, and constraints). ADE has relied upon the accuracy of information and data provided to it by the client and others.

ADE has used a degree of care and skill ordinarily exercised in similar investigations by reputable members of the environmental industry in Australia. No other warranty, expressed or implied, is made or intended. No one section or part of a section, of this report should be taken as giving an overall idea of this report. Each section must be read in conjunction with the whole of this report, including its appendixes and attachments. The report is an integral document and must be read in its entirety.

To the fullest extent permitted by law, ADE does not accept or assume responsibility to any third party (other than the client) for the investigative work, the report or the opinions given.

The scope of work conducted, and report herein may not meet the specific needs (of which ADE is not aware) of third parties. ADE cannot be held liable for third party reliance on this document. Any third party who relies upon this report does so at its own risk.

The subsurface environment can present substantial uncertainty due to its complex heterogeneity. The conclusions presented in this report are based on limited investigation of conditions at specific sampling locations chosen to be as representative as possible under the given circumstances. However, it is possible that this investigation may not have encountered all areas of contamination at the site due to the limited sampling and testing program undertaken.

The material subject to classification pertains only to the site and subject area outlined within the report and must be consistent with the waste description reported. If there are any unexpected finds that are not consistent with this classification, ADE must be notified immediately.

ADE does not verify the accuracy or completeness of, or adopt as its own, the information or data supplied by others and excludes all liability with respect to such information and data. To the extent that conditions differ from assumptions set out in the report, and to the extent that information provided to ADE is inaccurate or incomplete or has changed since it was provided to ADE, the opinions expressed in this report may not be valid and should be reviewed.

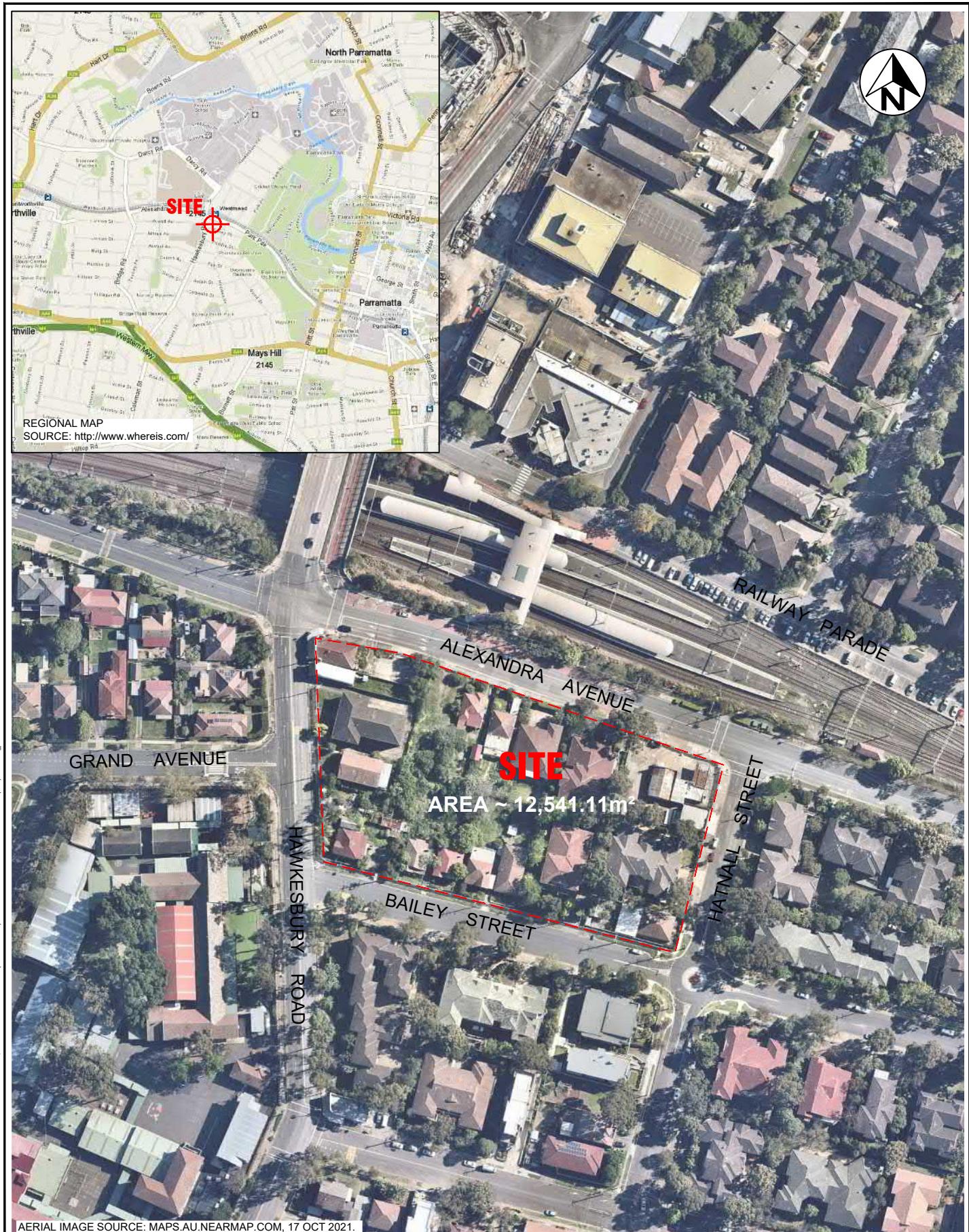
ADE's professional opinions are based upon its professional judgement, experience, training, and results from analytical data. In some cases, further testing and analysis may be required, thus producing different results and/or opinions. ADE has limited its investigation to the scope agreed upon with its client.

This Limitation and Disclaimer must accompany every copy of this report.

12 References

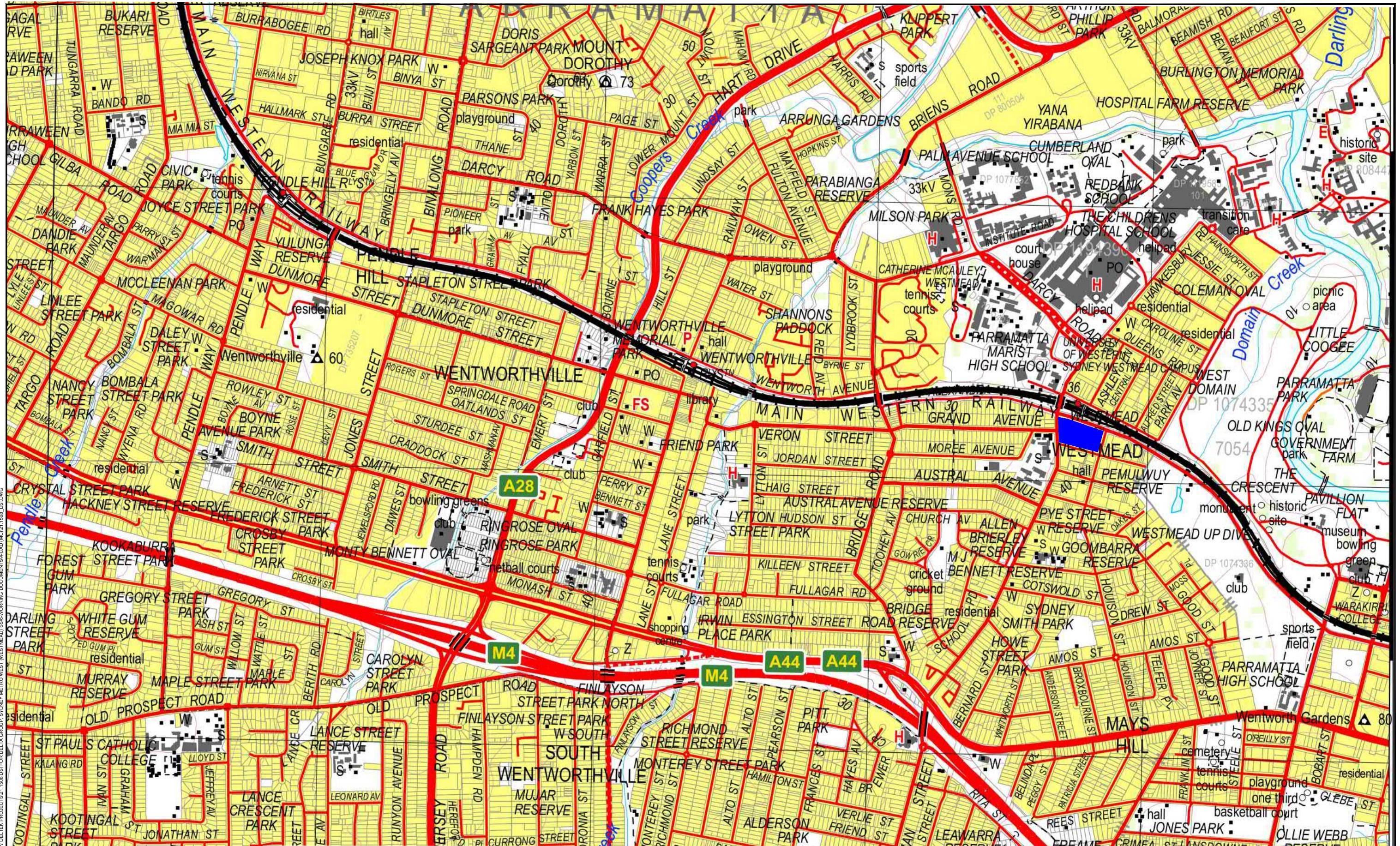
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Appendix I – Figures



PLOT DATE: 29/11/2021 19:31:49 DWG FILE: WU_NEW DELTEK PROJECTS\SY1.1508_DSI FOR DELTA GROUP, SYDNEY METRO WEST (WESTMEAD SS16\WORKING DOCUMENTS\4-CAD (NO)\21_1508_DSI.DWG

drawn	MC	client: DELTA GROUP	project: DETAILED SITE INVESTIGATION SYDNEY METRO WEST, WESTMEAD, NSW	title: SITE LOCATION PLAN
approved	TN			
date	29/11/2021			
scale	NTS	project no: 21.1508_DSI	figure no: FIGURE 1	rev: A
original size	A4			Sydney Office ADE Consulting Group Pty Ltd Unit 6 / 7 Millennium Court, Silverwater, NSW 2128 www.ADE.group info@ade.group 1300 976 922



NOTE:
ALL LOCATIONS ARE APPROXIMATE
DIMENSIONS IN METRES.

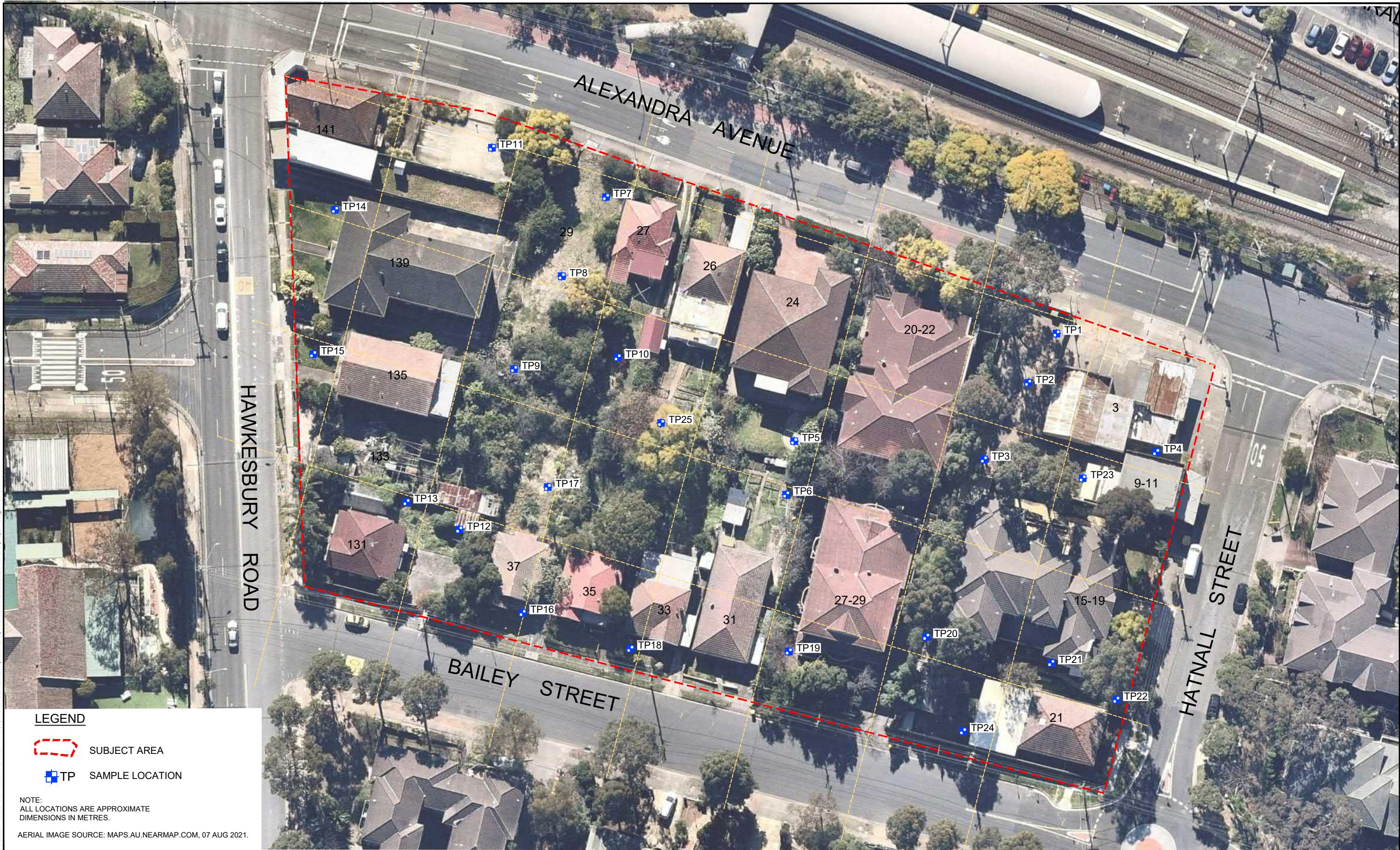
AERIAL IMAGE SOURCE: [HTTPS://MAPS.SIX.NSW.GOV.AU/ETOPO](https://maps.six.nsw.gov.au/ETOPO)

drawn	MC	client:	DELTA GROUP		
approved	TN	project:	DETAILED SITE INVESTIGATION SYDNEY METRO WEST, WESTMEAD, NSW		
date	29/11/2021				
scale	NTS	title:	TOPOGRAPHIC MAP PROSPECT 1:25000, 9030-2N		
original size	A3	project no:	21.1508_DSI	figure no:	FIGURE 2



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revision	no.	description	drawn	approved	date		drawn	MC	client:		
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	A	FIRST ITNUF	MC	TN	29/11/21		approved	TN	project: DETAILED SITE INVESTIGATION SYDNEY METRO WEST, WESTMEAD, NSW		
							date	29/11/2021			
							scale	AS SHOWN	title: SAMPLING LOCATION PLAN		
							original size	A3			
							project no:	21.1508_DSI	figure no:	FIGURE 3	rev: A


 0 6 12 18 24 30
 SCALE 1:600 @A3 METRES

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revision	no.	description	drawn	approved	date		drawn	MC	client:			
									DELTA GROUP			
	A	FIRST ITNUC	MC	TN	29/11/21		approved	TN	project: DETAILED SITE INVESTIGATION SYDNEY METRO WEST, WESTMEAD, NSW			
							date	29/11/2021				
							scale	AS SHOWN	title: ASBESTOS IDENTIFIED AREAS			
							original size	A3	project no:	21.1508_DSI	figure no:	FIGURE 4
									rev:	A		


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Appendix II – Photographs



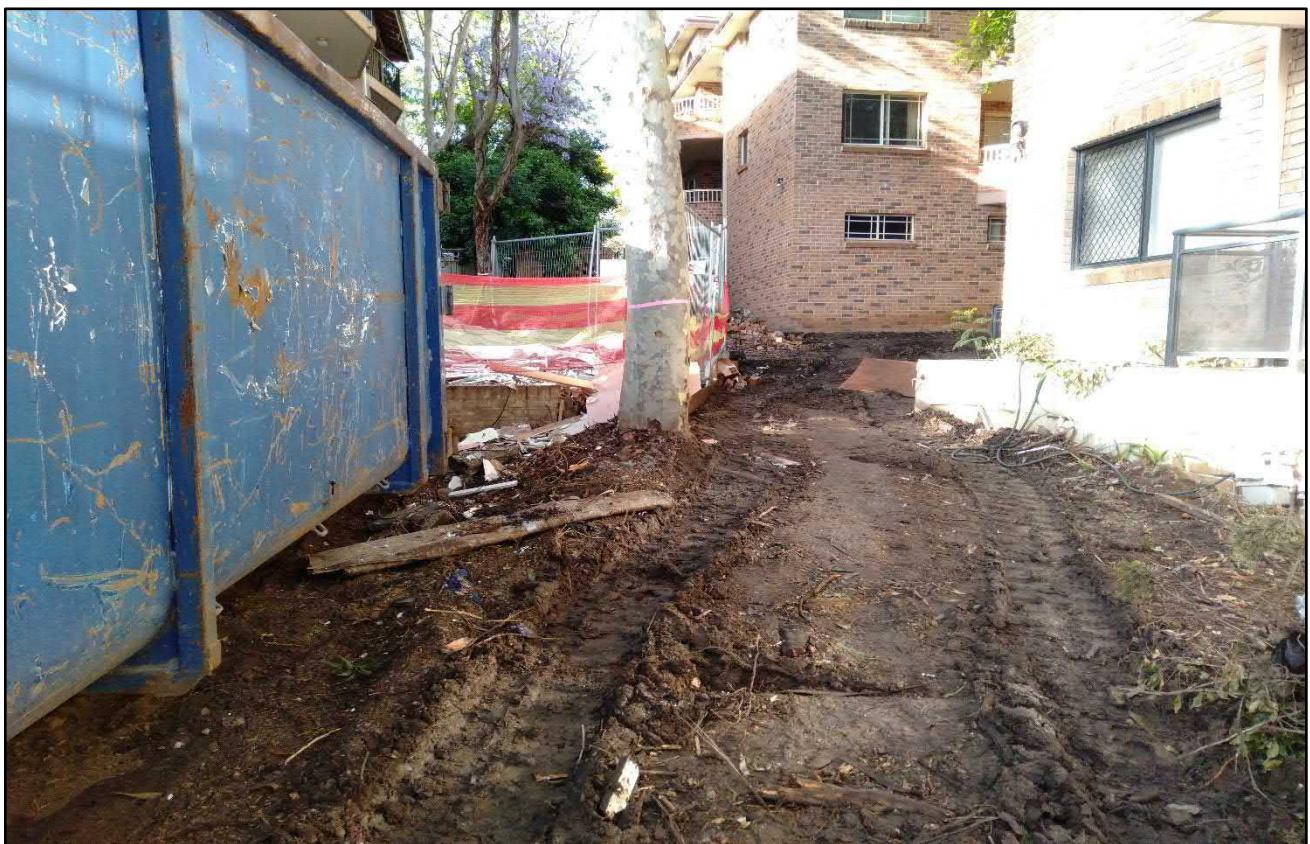
Photograph 1: Internal site access restrictions, including asbestos building materials and overgrown vegetation. Date: 12.11.21.



Photograph 2: internal site access restrictions, including brick wall separating properties. Date: 12.11.21.



Photograph 3: Exclusion zones for hazmat works, observed at test pit 9. Date: 24.11.21.



Photograph 4: internal site access restrictions due to protected native vegetation, observed at test pit 3. Date 24.11.21.



Photograph 5: service locating prior to intrusive works, observed at test pit 4. Date: 12.11.21



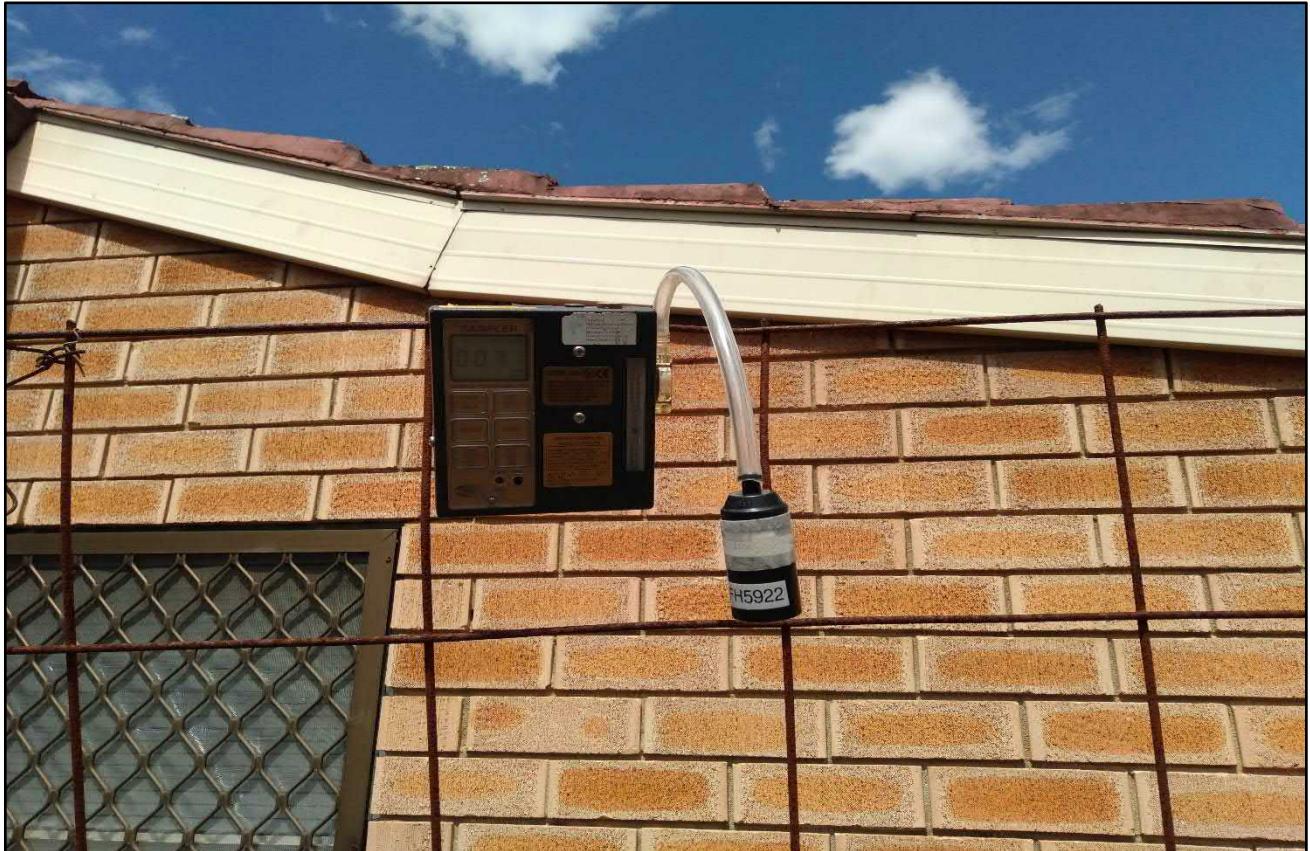
Photograph 6: Representative asbestos fragment, observed at TP2. Date 12.11.21.



Photograph 7: Representative asbestos fragment, observed at test pit 3. Date: 15.11.21.



Photograph 8: Representative asbestos sheeting, observed at TP10, within the registered asbestos area. Date: 15.11.21.



Photograph 9: Air monitoring set-up for excavation works in registered asbestos area. Date: 15.11.21



Photograph 10: Representative fill and natural materials, observed at test pit 20. Date: 24.11.21.



Photograph 11: Representative fill and natural materials, observed at test pit 5. Date: 24.11.21.



Photograph 12: representative fill and natural materials at test pit 12. Date 23.11.21.



Photograph 13: Representative fill and natural materials at test pit 9. Date: 15.11.21.



Photograph 14: Close-up of view of natural materials on-site, observed at test pit 15. Date: 23.11.21.



Photograph 15: Close-up of view of typical fill materials observed throughout site, observed at test pit 2.

Date: 24.11.21



Photograph 16: Unexpected buried concrete slab, encountered at TP19. Date: 23.11.21.

Appendix III – Data Quality Objectives

Data Quality Objectives

The investigation was designed using the data quality objectives (DQO) as defined by the US EPA and the NSW EPA in the “Guidelines for the NSW DEC Site Auditor Scheme” (3rd Edition), (NSW EPA, 2017) and Australian Standard AS 4482.1 2005 (AS, 2005).

The DQO process consists of a seven-step planning approach to facilitate the development of qualitative and quantitative statements that specify the quality of the data required to support decision making within the scope of the investigation. This process utilises systematic planning and statistical hypothesis testing to differentiate between two or more clearly defined alternatives.

Step 1 – State the Problem

A review of available historical information and previous environmental investigations have inferred that the site has a medium to high potential for contamination resulting from past and present land uses. Potential sources of contamination were identified to include; the presence and storage of potentially hazardous materials and chemicals, unknown stockpiled materials, and potentially contaminating historical land uses.

A targeted environmental investigation was therefore undertaken to assess soil and groundwater conditions within the site. The following data collected was then used to evaluate and characterise the soil and groundwater conditions across the site to inform the need for remediation and further management (if required).

Step 2 – Identify the Decision

The purpose of the investigation is to focus on current and future human health and environmental risks associated with potential contamination. The decisions that need to be made on the contamination status of the site include:

- The extent of contamination (if present) in soil or groundwater at or adjacent to the site that would preclude the current land use of the site;
- The extent of contamination (if present) in soil or groundwater at the site that has the potential to:
 - Impact upon a possible future land use of the site;
 - Create a human or environmental risk within the site; and
 - Migrate to surrounding receptors.
- If contamination above the adopted criteria is identified, then a further assessment would be undertaken to assess feasible remediation/management options.

The contamination would be considered not to pose a risk if analytical results for the media sampled and analysed are less than the adopted SAC presented in **Section 6** or are determined by a site-specific risk assessment not to represent an unacceptable risk to human health and/or the environment. Where an unacceptable risk is indicated, remediation and/or management options will need to be considered to address the risk and meet the site objectives.

Identify Inputs to the Decision

The CoPCs selected were determined through on-site observations following the completion a comprehensive desktop study. To address the decision questions outlined in Step 2 of the DQOs (**Section 0**), the following inputs to the decision have been identified:

- A review of previous environmental investigations undertaken at the site;
- A review of the historical and current use of the site;
- Investigation of the existing soil and groundwater conditions at the site; and

- Comparison with the site assessment criteria as outlined in **Section 6**.

Step 4 – Define the Boundaries of the Study

This step provides a detailed description of the spatial and temporal boundaries of the study area. These characteristics define the population of interest and any practical considerations for the study area (refer to **Table 16**).

Table 16. Summary of the Study Boundaries.

Spatial Boundaries	The works performed for this report were restricted to the physical site boundaries, as shown in <i>Appendix I – Figures</i> . The vertical boundaries of the proposed investigations are limited to a maximum depth of investigation, being an approximate 1.8 m BGL.
Temporal Boundaries	The investigation works were undertaken on the during mid November 2021.
Investigation Limit	The limit of the investigation has been undertaken to provide information as to the level and type of contamination within the site.
Constraints	Time, cost, redesign, remediation and inaccessible areas across the site were considered constraints to the investigation.
Receptors of Concern	The potential receptors of concern are outlined in Section 9.2 .

Step 5 – Develop a Decision Rule

The purpose of this step is to define the parameters of interest, specify the action level and combine the outputs of the previous DQO steps into an “if...then...” decision rule that defines the conditions that would cause the decision-maker to choose alternative actions. The types of data quality required during the fieldwork, the laboratory components of the investigation and the acceptable limits for this data as provided in **Section 8.8**. A summary of the decision rules is included in **Table 17**.

Table 17. Summary of the Decision Rules.

Decision Rules	<p>Based on the data quality types and limits the following decision rules applied:</p> <ul style="list-style-type: none"> • If CoPCs are detected in the Rinsate blanks, then the field decontamination process may not have been adequate and cross-contamination may potentially have occurred. Before assuming that this was the case, the environmental scientist will check the rinsate blank result with the testing laboratory and compare the result with a check blank sample that used the same water source. Detections in Rinsate blanks may reflect background concentrations in laboratory-supplied water or analytical error. Suppose it is concluded that decontamination procedures were inadequate. In that case, the project environmental scientist will assess the implications of the cross-contamination and subsequent influence on the ability to resolve the decision question. • If the relative percent difference (RPD) values for blind replicates or split samples are outside the acceptable limits, then there may have been errors in a laboratory analysis process. When assessing duplicate pairs with elevated RPD values, the project Environmental Scientist will check the laboratory results and examine the nature of the sample being evaluated since heterogeneous samples can often provide high RPD values. If it is believed that irreversible errors had occurred during the laboratory process, then an additional investigation may be deemed to be required to resolve the decision question; • Should greater than 5% of the laboratory QA / QC data fail to meet the acceptable limits outlined in this report, the laboratory may be requested to re-analyse samples or justify the analytical results; • For the analysis of investigation samples, if the absolute value of the measured concentration of a parameter or compound is above the nominated SAC; and were deemed suitable for 95% UCL analysis, then the subject material can be considered suitable to remain onsite; and • 95% UCL data will only be considered where the standard deviation of the data set is less than 50% of the SAC, and the maximum concentration is less than 250% of the SAC. Samples exceeding these criteria will be excluded from the dataset and treated as a hotspot.
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Step 6 – Specify Acceptable Limits on Decision Errors

This step is to establish the specific limits on decision errors, which were used to determine the targets for limiting uncertainty in the data. Data generated during the environmental investigation needs to be appropriate to allow decisions to be made with confidence. The specific limits for this investigation were based on appropriate guidance from the NSW EPA, NEPC (2013), AS 2005 and appropriate indicators of DQIs used to assess QA / QC for field sampling and handling.

To assess the suitability of the analytical data obtained prior to making decisions, the data was assessed against pre-determined Data Quality Indicators (DQIs) to assess precision, accuracy, representativeness, comparability and completeness (PARCC parameters), as outlined in AS 2005. The acceptable limit on decision error was 95% compliance with the DQIs. The pre-determined DQIs specified for the investigation works are discussed below in relation to the PARCC parameters as summarised in **Table 18**.

Table 18. Summary of Acceptable Limits on Decision Errors.

Precision	<ul style="list-style-type: none"> ● Sampling and analysis of field blind duplicates and split replicates to be undertaken at a minimum rate of 1 per every 10 samples. ● Laboratory duplicate analysis to be undertaken by the testing laboratory at a minimum rate of 1 per 20 samples. ● Field and laboratory RPD values to be less than 30% for analytical results greater than (>) 30 times the laboratory LOR, less than (<) 50 % for analytical results between 10 and 30 times the laboratory LOR and a control limit of \pm the LOR if either the sample or duplicate value is less than 10 times the laboratory LOR.
Accuracy	<ul style="list-style-type: none"> ● Laboratory surrogate spike recoveries were to be within 70 – 130% for all organic analyses (if applicable). ● Laboratory control sample (LCS) recoveries to be assessed at a rate of one (1) sample per laboratory batch. LCS recoveries were to be within 70 – 130% (if applicable). ● Matrix spike (MS) recoveries are to be assessed at a rate of one sample per laboratory batch. LCS recoveries were to be within 70 – 130% (if applicable).
Representativeness	<ul style="list-style-type: none"> ● Appropriate sampling methods undertaken for all samples. ● All samples were extracted and analysed within holding times. ● One laboratory blank was collected per laboratory batch. All laboratory blank analytical results were below the laboratory LOR. ● One trip spike is to be submitted with each sampling batch. Trip spike recoveries are to be within 70 – 130% (if applicable). ● One trip blank is to be submitted with each sampling batch. Trip spike recoveries are to be within 70 – 130% (if applicable). ● One rinsate sample is to be submitted with each sampling batch or where rinsate is required during field QA/QC procedures. All target analytes within the rinsate sample are to be below the prescribed laboratory LOR.
Comparability	<ul style="list-style-type: none"> ● Sampling was completed in accordance with the recommended methods outlined within Section 5, Systematic planning for the collection of environmental data, in Schedule B2 of NEPM (2013), AS 2005 and ADE Standard Operating Procedures (SOPs). ● Standard analytical methodologies were used by laboratories that were NATA accredited for the requested analyses. ● Laboratory LORs were appropriate and consistent for the objectives of the validation assessment.
Completeness	<ul style="list-style-type: none"> ● Field documentation complete and appropriate for all samples to meet the objectives of the validation assessment. ● Sample description and COC documentation complete and appropriate for all samples to meet the objectives of the validation assessment. ● The sampling frequency and findings of the QA/QC sample review valid for >95% of samples.

Step 7 – Optimise the Design for Obtaining Data

The organisation of the data collection and analysis design for optimising the generation of data to satisfy the DQOs and the objective of the investigation has been achieved via the following procedures outlined in **Table 19**.

Table 19. Summary of Procedures to be Undertaken to Optimize the Design for Obtaining Data.

Pre-approved Work Plan	The sampling plan for the investigation at the site has been developed to assess the concentrations of contaminants present in soils at the site through the implementation of the components outlined within NEPM (2013), AS 4482.1 (2005) and AS/NZS 5667.1 (1998).
Compliance with EPA Guidelines	<ul style="list-style-type: none"> ● Use of appropriate techniques for the sampling, storage and transportation of samples. ● Implementation of NATA certified laboratory using analytical procedures as outlined in NEPM (2013). ● Use of a secondary laboratory for split samples which is NATA certified for the required analyses.

Appendix IV – Results Tables



NA	2-Methyl-4,6-dinitrophenol	BTEX							TRH										
		Benzene	Toluene	Ethylbenzene	Xylene (m & p)	Xylene (o)	Xylene Total	Total BTEX	C6-C10 Fraction (F1)	C6-C10 (F1 minus BTEX)	>C10-C16 Fraction (F2)	>C16-C34 Fraction (F3)	>C34-C40 Fraction (F4)	>C10-C40 Fraction (Sum)	2,3,4,5-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
EQL		0.5	0.5	0.5	1	0.5	1	1	35	35	50	100	100	50	0.1	0.1	0.1	0.05	
ANZECC (1992) Background Ranges (VENM)		0	0	0		0					0	0	0						
Berkman (1989) Background Ranges (VENM)		0	0	0		0					0	0	0						
CRC Care HSL-D Commercial / Industrial		430	99,000	27,000			81,000		26,000		20,000	27,000	38,000						
NSW 2014 General Solid Waste CT1 (No Leaching)		10	288	600			1,000										8,000	40	
NSW 2014 General Solid Waste SCC1 (with leached)		18	518	1,080			1,800										14,400	72	
NSW 2014 General Solid Waste TCLP1 (leached)																			
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand		3					230		260										
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil																			

Field ID	Date																					
WAC1.TP1_0.5	17/11/2021			<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50						
WAC1.TP1_1.8	17/11/2021			<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50						
WAC1.TP2_0.5	17/11/2021			<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50						
WAC1.TP2_0.9	24/11/2021			<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50						
WAC1.TP3_0.5	17/11/2021			<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50						
WAC1.TP3_1.8	17/11/2021			<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50						
WAC1.TP4_0.2	17/11/2021			<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50						
WAC1.TP4_0.5	17/11/2021			<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50						
WAC1.TP5_0.3	17/11/2021			<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50						
WAC1.TP5_0.7	24/11/2021			<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50						
WAC1.TP6_0.3	17/11/2021			<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<35	<35	<50	<100	<100	<50	<0.10	<0.10	<0.10	<0.050	<0.050
WAC1.TP6_0.5	17/11/2021			<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<35	<35	<50	<100	<100	<50	<0.10	<0.10	<0.10	<0.050	<0.050
WAC1.TP7_0.3	17/11/2021			<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50						
WAC1.TP7_0.7	17/11/2021			<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50						
WAC1.TP8_0.2	17/11/2021			<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50						
WAC1.TP8_0.5	17/11/2021			<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50						
WAC1.TP9_0.2	17/11/2021			<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50						
WAC1.TP9_0.5	17/11/2021			<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50						
WAC1.TP9_0.8	17/11/2021			<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50						
WAC1.TP10_0.2	17/11/2021			<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<35	<35	<50	<100	<100	<50	<0.10	<0.10	<0.10	<0.050	<0.050
WAC1.TP10_0.5	17/11/2021			<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<35	<35	<50	<100	<100	<50	<0.10	<0.10	<0.10	<0.050	<0.050
WAC1.TP10_0.8	17/11/2021			<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50						
WAC1.TP11_0.3	17/11/2021			<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50						
WAC1.TP11_0.5	17/11/2021			<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50						
WAC1.TP12_0.3	24/11/2021			<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<35	<35	<50	<100	<100	<50	<0.10	<0.10	<0.10	<0.050	<0.050
WAC1.TP12_0.5	24/11/2021		</																			



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NA	BTEX							TRH											
	2-Methyl-4,6-dinitrophenol	Benzene	Toluene	Ethylbenzene	Xylene (m & p)	Xylene (o)	Xylene Total	Total BTEX	C6-C10 Fraction (F1)	C6-C10 (F1 minus BTEX)	>C10-C16 Fraction (F2)	>C16-C34 Fraction (F3)	>C34-C40 Fraction (F4)	>C10-C40 Fraction (Sum)	2,3,4,5-Tetrachlorophenol	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol
mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
EQL		0.5	0.5	0.5	1	0.5	1	1	35	35	50	100	100	50	0.1	0.1	0.1	0.05	0.05
WAC1.TP25 0.7	24/11/2021	<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					

Statistics



	Phenols																			
	2,4-Dichlorophenol mg/kg	2,4-Dimethylphenol mg/kg	2,4-Dinitrophenol mg/kg	2,6-Dichlorophenol mg/kg	2-Chlorophenol mg/kg	2-Methylphenol mg/kg	2-Nitrophenol mg/kg	4,6-Dinitro-o-cyclohexyl phenol mg/kg	4-chloro-3-methylphenol mg/kg	4-Nitrophenol mg/kg	Cresol Total mg/kg	Pentachlorophenol mg/kg	Phenol mg/kg	Phenols mg/kg	Other chlorinated hydrocarbons EPA Vic mg/kg	Total Chlorinated Hydrocarbons mg/kg	1,1,2,2-tetrachloroethane mg/kg	1,1,1-trichloroethane mg/kg	1,1,2,2-tetrachloroethane mg/kg	
EQL	0.05	0.2	4	0.05	0.1	0.2	0.2	5	0.2	4	0.4	0.2	0.2	0.05	0.5	0.5	0.5	0.5	0.5	
ANZECC (1992) Background Ranges (VENM)																				
Berkman (1989) Background Ranges (VENM)																				
CRC Care HSL-D Commercial / Industrial																				
NSW 2014 General Solid Waste CT1 (No Leaching)							4,000										200	600	26	
NSW 2014 General Solid Waste SCC1 (with leached)							7,200										360	1,080	46.8	
NSW 2014 General Solid Waste TCLP1 (leached)																				
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand																				
NEPM 2013 Table 1A(1) HILS Comm/Ind D Soil											25,000	660	240,000							



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Statistics





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	1,1,2-trichloroethane	1,1-dichloroethene	1,2-dichloroethane	Bromochloromethane	Carbon tetrachloride	Chloroform	cis-1,2-dichloroethene	Dichlormethane	Hexachlorobutadiene	Trichloroethene	Tetrachloroethene	trans-1,2-dichloroethene	Vinyl chloride	1,2,4-trichlorobenzene	1,2-dichlorobenzene	1,4-dichlorobenzene	Chlorobenzene	Hexachlorobenzene	Dinoseb
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.1	5
WAC1.TP25_0.7	24/11/2021																	<0.10	

Statistics



Inorganics	MAH			Metals																	
	Moisture Content	Monocyclic aromatic hydrocarbons EPA Vic	Styrene	Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Lead TCLP	Mercury	Nickel	Zinc	4,4-DDF	a-BHC	Aldrin	b-BHC	Chlordane (cis)	Chlordane (trans)	d-BHC		
EQL			1	0.5	5	0.3	5	5	10		0.2	10	5	0.1	0.1	0.1	0.1	0.1	0.1		
ANZECC (1992) Background Ranges (VENM)					30	2	190	190	200		0.1	400	180								
Berkman (1989) Background Ranges (VENM)					50	1	100	100	200		0.03	500	300								
CRC Care HSL-D Commercial / Industrial																					
NSW 2014 General Solid Waste CT1 (No Leaching)			60		100	20	100		100		4	40									
NSW 2014 General Solid Waste SCC1 (with leached)			108		500	100	1,900		1,500		50	1,050									
NSW 2014 General Solid Waste TCLP1 (leached)											5										
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand																					
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil					3,000	900		240,000	1,500		730	6,000	400,000								

Field ID	Date	16.8			11.9	<0.30	16.1	25.4	46.8		<0.20	<10.0	55.5	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
WAC1.TP1_0.5	17/11/2021				15.6	<0.30	14.3	36.3	22.9		<0.20	<10.0	41.6	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
WAC1.TP1_1.8	17/11/2021	20.0			6.8	<0.30	23.2	28.3	78.7		<0.20	29.9	78.5	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
WAC1.TP2_0.5	17/11/2021	17.7			7.4	<0.30	11.5	17.1	28.4		<0.20	<10.0	13.3	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
WAC1.TP2_0.9	24/11/2021	15.1			5.7	<0.30	17.8	22.5	42.2		<0.20	11.1	159.8	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
WAC1.TP3_0.5	17/11/2021	15.4			<5.0	<0.30	<5.0	16.7	14.0		<0.20	<10.0	<5.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
WAC1.TP3_1.8	17/11/2021	15.8			5.2	<0.30	14.4	45.3	695.6	<0.5	<0.20	10.7	139.4	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
WAC1.TP4_0.2	17/11/2021	20.8			7.4	<0.30	11.9	17.8	19.3		<0.20	<10.0	17.4	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
WAC1.TP4_0.5	17/11/2021	26.6			6.3	<0.30	13.5	17.5	25.4		<0.20	<10.0	92.7	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
WAC1.TP5_0.3	17/11/2021	17.7			13.5	<0.30	14.5	16.8	21.5		<0.20	<10.0	27.4	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
WAC1.TP5_0.7	24/11/2021	18.6			20.9	<1.0	<0.50	14.7	<0.30	11.3	22.3	14.9		<0.20	<10.0	<0.10	<0.10	<0.10	<0.10
WAC1.TP6_0.3	17/11/2021	9.0	<1.0	<0.50	12.2	<0.30	<5.0	18.1	13.4		<0.20	<10.0	18.9	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
WAC1.TP7_0.3	17/11/2021	13.6			7.6	<0.30	10.4	18.2	259.5	<0.5	<0.20	<10.0	298.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
WAC1.TP7_0.7	17/11/2021	20.3			5.1	<0.30	10.7	21.7	390.7	<0.5	<0.20	<10.0	290.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
WAC1.TP8_0.2	17/11/2021	21.0			7.5	<0.30	<5.0	10.9	<10.0		<0.20	<10.0	<5.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
WAC1.TP8_0.5	17/11/2021	22.1			<5.0	<0.30	6.2	56.9	387.5	<0.5	<0.20	<10.0	1,467.3	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
WAC1.TP9_0.2	17/11/2021	16.9			<5.0	<0.30	9.3	33.9	312.6	<0.5	<0.20	<10.0	364.6	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
WAC1.TP9_0.5	17/11/2021	23.7			10.7	<0.30	10.9	15.9	14.3		<0.20	<10.0	26.9	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
WAC1.TP9_0.8	17/11/2021	16.5			<5.0	<0.30	<5.0	6.8	<10.0		<0.20	<10.0	7.4	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
WAC1.TP10_0.2	17/11/2021	19.5	<1.0	<0.50	8.4	<0.30	18.9	67.7	383.9	<0.5	<0.27	<10.0	351.2	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
WAC1.TP10_0.5	17/11/2021	6.3	<1.0	<0.50	<5.0	<0.30	<5.0	16.5	<10.0		<0.20	<10.0	34.2	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
WAC1.TP10_0.8	17/11/2021	10.9			<5.0	<0.30	<5.0	10.4	12.3		<0.20	<10.0	17.3	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
WAC1.TP11_0.3	17/11/2021	26.1			5.8	<0.30	8.0	19.6	30.9		<0.20	<10.0	77.4	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
WAC1.TP11_0.5	17/11/2021	19.5			<5.0	<0.30	<5.0	8.8	<10.0		<0.20	<10.0	<5.0	<0.10	<0.10	<0.10</td			



Inorganics	MAH			Metals										Organic Compounds					
	Moisture Content	Monocyclic aromatic hydrocarbons EPA Vic	Styrene	Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Lead TCLP	Mercury	Nickel	Zinc	4,4-DDT	a-BHC	Aldrin	b-BHC	Chlordane (cis)	Chlordane (trans)	d-BHC
		%	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				1	0.5	5	0.3	5	5	10		0.2	10	5	0.1	0.1	0.1	0.1	0.1
WAC1.TP25_0.7	24/11/2021	19.3			10.7	<0.30	10.3	15.6	27.5		<0.20	<10.0	17.3	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10

Statistics

Number of Results	55	11	11	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55
Number of Detects	55	0	0	40	0	48	55	51	0	5	5	52	0	0	0	0	0	0
Minimum Concentration	6.3	<1	<0.5	<5	<0.3	<5	6.8	<10	<5	0.2	<10	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Minimum Detect	6.3	ND	ND	5.1	ND	5.1	6.8	12.3	<5	0.2	10.7	7.4	ND	ND	ND	ND	ND	ND
Maximum Concentration	26.6	<1	<0.5	19.9	<0.3	27.5	376.6	695.6	<5	1.22	29.9	1,467.3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Maximum Detect	26.6	ND	ND	19.9	ND	27.5	376.6	695.6	<5	1.22	29.9	1,467.3	ND	ND	ND	ND	ND	ND
Average Concentration *	19	0.5	0.25	8.2	0.15	13	34	143	<5	0.15	6	163	0.05	0.05	0.05	0.05	0.05	0.05
Median Concentration *	19	0.5	0.25	7.5	0.15	13.8	20.8	33.7	<5	0.1	5	48.4	0.05	0.05	0.05	0.05	0.05	0.05
Standard Deviation *	3.9	0	0	4.9	0	5.6	51	184	-	0.21	3.8	269	0	0	0	0	0	0
95% UCL (Student's-t) *	19.5	0.5	0.25	9.317	0.15	13.95	45.3	184.5	-	0.203	6.803	224.1	0.05	0.05	0.05	0.05	0.05	0.05
% of Detects	100	0	0	73	0	87	100	93	93	9	9	95	0	0	0	0	0	0
% of Non-Detects	0	100	100	27	100	13	0	7	7	91	91	5	100	100	100	100	100	100



	Organochlorine Pesticides												Organophosphorous Pesticides						
	DDD	DDT	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	Endrin ketone	g-BHC (Lindane)	Heptachlor	Heptachlor epoxide	Methoxychlor	Chloryrifos	Chloryrifos-methyl	Diazinon	Ethoprop	Methyl parathion	Ronnel
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.1	0.1	0.1	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
ANZECC (1992) Background Ranges (VENM)																			
Berkman (1989) Background Ranges (VENM)																			
CRC Care HSL-D Commercial / Industrial																			
NSW 2014 General Solid Waste CT1 (No Leaching)																	4		
NSW 2014 General Solid Waste SCC1 (with leached)																7.5			
NSW 2014 General Solid Waste TCLP1 (leached)																			
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand																			
NEPM 2013 Table 1A(1) HILS Comm/Ind D Soil							100					50		2,500	2,000				



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SOLUTIONS THROUGH INNOVATION

Statistics

	PAH																Arochlor 1016	Arochlor 1221
	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benz(a) pyrene	Benz(b)fluoranthene	Benz(g,h,i)perylene	Benz(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	PAHs (Sum of positives)	
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5
ANZECC (1992) Background Ranges (VENM)					0													
Berkman (1989) Background Ranges (VENM)					0													
CRC Care HSL-D Commercial / Industrial														11,000				
NSW 2014 General Solid Waste CT1 (No Leaching)					0.8													
NSW 2014 General Solid Waste SCC1 (with leached)					10													
NSW 2014 General Solid Waste TCLP1 (leached)																		
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand																		
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil																		

Field ID	Date	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	
WAC1.TP1_0.5	17/11/2021	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	
WAC1.TP1_1.8	17/11/2021	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	
WAC1.TP2_0.5	17/11/2021	<0.30	<0.30	<0.30	1.09	0.35	0.55	<0.30	<0.30	0.30	<0.30	1.51	<0.30	<0.30	<0.30	<0.30	1.94	5.74	<0.50	<0.50
WAC1.TP2_0.9	24/11/2021	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	
WAC1.TP3_0.5	17/11/2021	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	
WAC1.TP3_1.8	17/11/2021	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	
WAC1.TP4_0.2	17/11/2021	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	
WAC1.TP4_0.5	17/11/2021	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	
WAC1.TP5_0.3	17/11/2021	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	
WAC1.TP5_0.7	24/11/2021	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	
WAC1.TP6_0.3	17/11/2021	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	
WAC1.TP6_0.5	17/11/2021	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	
WAC1.TP7_0.3	17/11/2021	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	
WAC1.TP7_0.7	17/11/2021	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	
WAC1.TP8_0.2	17/11/2021	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	
WAC1.TP8_0.5	17/11/2021	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	
WAC1.TP9_0.2	17/11/2021	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	
WAC1.TP9_0.5	17/11/2021	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	
WAC1.TP9_0.8	17/11/2021	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	
WAC1.TP10_0.2	17/11/2021	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	
WAC1.TP10_0.5	17/11/2021	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	
WAC1.TP10_0.8	17/11/2021	<0.30	<0.30	<0.30	<0.30	<0.3														



	PAH																		
	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benz(a) pyrene	Benz(b)fluoranthene	Benz(g,h,i)perylene	Benz(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	PAHs (Sum of positives)	Arochlor 1016	Arochlor 1221
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5	
WAC1.TP25_0.7	24/11/2021	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	

Statistics

Number of Results	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55
Number of Detects	0	0	0	1	1	1	0	0	1	0	3	0	0	0	1	3	3	0	0
Minimum Concentration	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.5	<0.5
Minimum Detect	ND	ND	ND	1.09	0.35	0.55	ND	ND	0.3	ND	0.6	ND	ND	ND	0.4	0.54	1.14	ND	ND
Maximum Concentration	<0.3	<0.3	<0.3	1.09	0.35	0.55	<0.3	<0.3	0.3	<0.3	1.51	<0.3	<0.3	<0.3	0.4	1.94	5.74	<0.5	<0.5
Maximum Detect	ND	ND	ND	1.09	0.35	0.55	ND	ND	0.3	ND	1.51	ND	ND	ND	0.4	1.94	5.74	ND	ND
Average Concentration *	0.15	0.15	0.15	0.17	0.15	0.16	0.15	0.15	0.15	0.15	0.19	0.15	0.15	0.15	0.15	0.2	0.3	0.25	0.25
Median Concentration *	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.25	0.25
Standard Deviation *	0	0	0	0.13	0.027	0.054	0	0	0.02	0	0.21	0	0	0	0.034	0.25	0.79	0	0
95% UCL (Student's-t) *	0.15	0.15	0.15	0.196	0.16	0.169	0.15	0.15	0.157	0.15	0.24	0.15	0.15	0.15	0.162	0.256	0.477	0.25	0.25
% of Detects	0	0	0	2	2	2	0	0	2	0	5	0	0	0	2	5	5	0	0
% of Non-Detects	100	100	100	98	98	98	100	100	98	100	95	100	100	100	98	95	95	100	100

	PCBs					Pesticides DEF	TPH				
	Arochlor 1232 mg/kg	Arochlor 1242 mg/kg	Arochlor 1248 mg/kg	Arochlor 1254 mg/kg	Arochlor 1260 mg/kg		C6-C9 Fraction mg/kg	C10-C14 Fraction mg/kg	C15-C28 Fraction mg/kg	C29-C36 Fraction mg/kg	C10-C36 Fraction (Sum) mg/kg
EQL	0.5	0.5	0.5	0.5	0.5	0.1	25	50	100	100	50
ANZECC (1992) Background Ranges (VENM)							0				
Berkman (1989) Background Ranges (VENM)							0				
CRC Care HSL-D Commercial / Industrial											
NSW 2014 General Solid Waste CT1 (No Leaching)							650				10,000
NSW 2014 General Solid Waste SCC1 (with leached)							650				10,000
NSW 2014 General Solid Waste TCLP1 (leached)											
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand											
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil											

Field ID	Date	<0.50	<0.50	<0.50	<0.50	<0.50	<0.10	<25	<50	<100	<100	<50
WAC1.TP1_0.5	17/11/2021	<0.50	<0.50	<0.50	<0.50	<0.50	<0.10	<25	<50	<100	<100	<50
WAC1.TP1_1.8	17/11/2021	<0.50	<0.50	<0.50	<0.50	<0.50	<0.10	<25	<50	<100	<100	<50
WAC1.TP2_0.5	17/11/2021	<0.50	<0.50	<0.50	<0.50	<0.50	<0.10	<25	<50	<100	<100	<50
WAC1.TP2_0.9	24/11/2021	<0.50	<0.50	<0.50	<0.50	<0.50	<0.10	<25	<50	<100	<100	<50
WAC1.TP3_0.5	17/11/2021	<0.50	<0.50	<0.50	<0.50	<0.50	<0.10	<25	<50	<100	<100	<50
WAC1.TP3_1.8	17/11/2021	<0.50	<0.50	<0.50	<0.50	<0.50	<0.10	<25	<50	<100	<100	<50
WAC1.TP4_0.2	17/11/2021	<0.50	<0.50	<0.50	<0.50	<0.50	<0.10	<25	<50	<100	<100	<50
WAC1.TP4_0.5	17/11/2021	<0.50	<0.50	<0.50	<0.50	<0.50	<0.10	<25	<50	<100	<100	<50
WAC1.TP5_0.3	17/11/2021	<0.50	<0.50	<0.50	<0.50	<0.50	<0.10	<25	<50	<100	<100	<50
WAC1.TP5_0.7	24/11/2021	<0.50	<0.50	<0.50	<0.50	<0.50	<0.10	<25	<50	<100	<100	<50
WAC1.TP6_0.3	17/11/2021	<0.50	<0.50	<0.50	<0.50	<0.50	<0.10	<35	<50	<100	<100	<50
WAC1.TP6_0.5	17/11/2021	<0.50	<0.50	<0.50	<0.50	<0.50	<0.10	<35	<50	<100	<100	<50
WAC1.TP7_0.3	17/11/2021	<0.50	<0.50	<0.50	<0.50	<0.50	<0.10	<25	<50	<100	<100	<50
WAC1.TP7_0.7	17/11/2021	<0.50	<0.50	<0.50	<0.50	<0.50	<0.10	<25	<50	<100	<100	<50
WAC1.TP8_0.2	17/11/2021	<0.50	<0.50	<0.50	<0.50	<0.50	<0.10	<25	<50	<100	<100	<50
WAC1.TP8_0.5	17/11/2021	<0.50	<0.50	<0.50	<0.50	<0.50	<0.10	<25	<50	<100	<100	<50
WAC1.TP9_0.2	17/11/2021	<0.50	<0.50	<0.50	<0.50	<0.50	<0.10	<25	<50	<100	<100	<50
WAC1.TP9_0.5	17/11/2021	<0.50	<0.50	<0.50	<0.50	<0.50	<0.10	<25	<50	<100	<100	<50
WAC1.TP9_0.8	17/11/2021	<0.50	<0.50	<0.50	<0.50	<0.50	<0.10	<25	<50	<100	<100	<50
WAC1.TP10_0.2	17/11/2021	<0.50	<0.50	<0.50	<0.50	<0.50	<0.10	<35	<50	<100	<100	<50
WAC1.TP10_0.5	17/11/2021	<0.50	<0.50	<0.50	<0.50	<0.50	<0.10	<35	<50	<100	<100	<50
WAC1.TP10_0.8	17/11/2021	<0.50	<0.50	<0.50	<0.50	<0.50	<0.10	<25	<50	<100	<100	<50
WAC1.TP11_0.3	17/11/2021	<0.50	<0.50	<0.50	<0.50	<0.50	<0.10	<25	<50	<100	<100	<50
WAC1.TP11_0.5	17/11/2021	<0.50	<0.50	<0.50	<0.50	<0.50	<0.10	<25	<50	<100	<100	<50
WAC1.TP12_0.3	24/11/2021	<0.50	<0.50	<0.50	<0.50	<0.50	<0.10	<35	<50	<100	<100	<50
WAC1.TP12_0.5	24/11/2021	<0.50	<0.50	<0.50	<0.50	<0.50	<0.10	<35	<50	<100	<100	<50
WAC1.TP13_0.3	24/11/2021	<0.50	<0.50	<0.50	<0.50	<0.50	<0.10	<25	<50	<100	<100	<50
WAC1.TP13_1.0	24/11/2021	<0.50	<0.50	<0.50	<0.50	<0.50	<0.10	<25	<50	<100	<100	<50
WAC1.TP14_0.3	24/11/2021	<0.50	<0.50	<0.50	<0.50	<0.50	<0.10	<35	<50	<100	<100	<50
WAC1.TP14_0.7	24/11/2021	<0.50	<0.50	<0.50	<0.50	<0.50	<0.10	<35	<50	<100	<100	<50
WAC1.TP15_0.3	24/11/2021	<0.50	<0.50	<0.50	<0.50	<0.50	<0.10	<25	<50	<100	<100	<50
WAC1.TP15_0.7	24/11/2021	<0.50	<0.50	<0.50	<0.50	<0.50	<0.10	<25	<50	<100	<100	<50
WAC1.TP16_0.2	24/11/2021	<0.50	<0.50	<0.50	<0.50	<0.50	<0.10	<25	<50	<100	<100	<50
WAC1.TP16_0.5	24/11/2021	<0.50	<0.50	<0.50	<0.50	<0.50	<0.10	<25	<50	<100	<100	<50
WAC1.TP17_0.3	24/11/2021	<0.50	<0.50	<0.50	<0.50	<0.50	<0.10	<25	<50	<100	<100	<50
WAC1.TP17_0.6	24/11/2021	<0.50	<0.50	<0.50	<0.50	<0.50	<0.10	<25	<50	<100	<100	<50
WAC1.TP18_0.2	24/11/2021	<0.50	<0.50	<0.50	<0.50	<0.50	<0.10	<25	<50	<100	<100	<50
WAC1.TP18_0.8	24/11/2021	<0.50	<0.50	<0.50	<0.50	<0.50	<0.10	<25	<50	<100	<100	<50
WAC1.TP19_0.2	24/11/2021	<0.50	<0.50	<0.50	<0.50							



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SOLUTIONS THROUGH INNOVATION

Statistics

Appendix V – QA/QC Output

Count of Samples

Description	Air	Water	Soil	Gas
First Sample Date		15/11/2021	15/11/2021	
Last Sample Date		25/11/2021	24/11/2021	
Sampling Period (days)	0	11	10	0
Number of Samples Submitted	0	4	60	0
Number of Non QA Samples Submitted	0	0	54	0
Number of Field Blanks	0	0	0	0
Number of Trip Blanks	0	3	0	0
Number of Rinsates	0	1	0	0
Number of Field Duplicates	0	0	3	0
Number of Interlab Duplicates	0	0	3	0
Number of Trip Spikes	0	3	0	0
Number of Lab Duplicates	0	3	34	0
Number of Lab Triplicates	0	0	0	0
Number of LCSs	0	6	34	0
Number of LCS Duplicates	0	0	0	0
Number of SRMs	0	0	0	0
Number of CRMs	0	0	0	0
Number of Method Blanks	0	6	33	0
Number of Storage Blanks	0	0	0	0
Number of Matrix Spikes	0	4	23	0
Number of Matrix Spike Duplicates	0	0	0	0

Count of Results

Matrix Type	Sample Type	Reg	Leached	Spike Compounds	Surrogate
Soil	Normal	4740	0	0	258
Soil	MB	700	0	0	0
Soil	LAB_D	578	0	0	0
Soil	Interlab_D	400	0	0	20
Soil	Field_D	292	0	0	17
Soil	LCS	280	0	0	30
Water	MB	116	0	0	0
Water	Rinsate	111	0	0	6
Soil	MS	105	0	63	21
Water	LCS	73	0	0	2
Water	LAB_D	23	0	0	0
Water	Trip_B	15	0	0	3
Water	Trip_S	15	0	0	3
Water	MS	0	0	31	0

Field or Interlab Duplicates

NA	2-Methyl-4,6-dinitrophenol	BTEX								TRH								3&4-Methylphenol (m&p-cresol)
		Naphthalene (VOC)	Benzene	Toluene	Ethylbenzene	Xylene (m & p)	Xylene (o)	Xylene Total	Total BTEX	C6-C10 Fraction (F1)	C6-C10 (F1 minus BTEX)	>C10-C16 Fraction (F2)	>C10-C16 Fraction (F2 minus Naphthalene)	>C16-C34 Fraction (F3)	>C34-C40 Fraction (F4)	>C10-C40 Fraction (Sum)		
mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
EQL		0.5	0.1	0.1	0.1	0.2	0.1	0.3	1	20	20	50	50	100	100	50	0.4	

Lab Report Number	Field ID	Matrix Type	Date			<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50		<100	<100	<50		
21.1508 (511-533)	WAC1.TP1_0.5	Soil	17/11/2021			<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50		<100	<100	<50		
21.1508 (511-533)	WAC1.BR1	Soil	17/11/2021			<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50		<100	<100	<50		
RPD						0	0	0	0	0	0	0	0	0	0	0	0	0	0		
21.1508 (511-533)	WAC1.TP1_0.5	Soil	17/11/2021			<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50		<100	<100	<50		
841991	WAC1.SR1	Soil	15/11/2021			<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3		<20	<20	<50	<50	<100	<100	<100	
RPD						0	0	0	0	0	0	0	0	0	0	0	0	0	0		
21.1508 (735-766)	WAC1.TP12_0.3	Soil	24/11/2021		<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<35	<35	<50		<100	<100	<50		
21.1508 (735-766)	BR2	Soil	24/11/2021		<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<35	<35	<50		<100	<100	<50		
RPD					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
21.1508 (735-766)	WAC1.TP12_0.3	Soil	24/11/2021		<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<35	<35	<50		<100	<100	<50		
844049	SR2	Soil	23/11/2021		<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3		<20	<20	<50	<50	<100	<100	<100	<0.4	
RPD					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
21.1508 (735-766)	WAC1.TP25_0.3	Soil	24/11/2021			<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50		<100	<100	<50		
21.1508 (735-766)	BR3	Soil	24/11/2021			<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50		<100	<100	<50		
RPD					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
21.1508 (735-766)	WAC1.TP25_0.3	Soil	24/11/2021		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50		<100	<100	<50			
844049	SR3	Soil	23/11/2021		<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3		<20	<20	<50	<50	<100	<100	<100		
RPD					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

*RPDs have only been considered where a concentration is greater than 1 times the EQL.

**Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for each EQL multiplier range are: 81 (1 - 10 x EQL); 50 (10 - 30 x EQL); 30 (> 30 x EQL))

***Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any methods in the row header relate to those used in the primary laboratory

Field or Interlab Duplicates

Phenols																	
	2,3,4,5-Tetrachlorophenol	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,6-Dichlorophenol	2-Chlorophenol	2-Nitrophenol	4,6-Dinitro-2-methylphenol	4,6-Dinitro-o-cyclohexyl phenol	4-chloro-3-methylphenol	4-Nitrophenol	Cresol Total		
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
EQL	0.1	0.1	0.1	0.05	0.05	0.05	0.2	4	0.05	0.1	0.2	0.2	5	5	0.2	4	0.4

Lab Report Number	Field ID	Matrix Type	Date																	
21.1508 (511-533)	WAC1.TP1_0.5	Soil	17/11/2021																	
21.1508 (511-533)	WAC1.BR1	Soil	17/11/2021																	
RPD																				
21.1508 (511-533)	WAC1.TP1_0.5	Soil	17/11/2021																	
841991	WAC1.SR1	Soil	15/11/2021																	
RPD																				
21.1508 (735-766)	WAC1.TP12_0.3	Soil	24/11/2021	<0.10	<0.10	<0.10	<0.050	<0.050	<0.050	<0.20	<4.0	<0.050	<0.10	<0.20	<0.20	<5.0	<0.20	<4.0	<0.40	
21.1508 (735-766)	BR2	Soil	24/11/2021	<0.10	<0.10	<0.10	<0.050	<0.050	<0.050	<0.20	<4.0	<0.050	<0.10	<0.20	<0.20	<5.0	<0.20	<4.0	<0.40	
RPD																				
21.1508 (735-766)	WAC1.TP12_0.3	Soil	24/11/2021	<0.10	<0.10	<0.10	<0.050	<0.050	<0.050	<0.20	<4.0	<0.050	<0.10	<0.20	<0.20	<5.0	<0.20	<4.0	<0.40	
844049	SR2	Soil	23/11/2021				<1	<1	<0.5	<0.5	<5	<0.5	<0.5	<0.2	<1	<5	<20	<1	<5	<0.5
RPD																				
21.1508 (735-766)	WAC1.TP25_0.3	Soil	24/11/2021																	
21.1508 (735-766)	BR3	Soil	24/11/2021																	
RPD																				
21.1508 (735-766)	WAC1.TP25_0.3	Soil	24/11/2021																	
844049	SR3	Soil	23/11/2021																	
RPD																				

*RPDs have only been considered where a concentration is greater than 1 times the EQL.

**Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for each EQL multiplier range :

***Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any me

Field or Interlab Duplicates

	Pentachlorophenol	Tetrachlorophenols	Phenol	Phenols	Phenols (Total Halogenated)	Phenols (Total Non Halogenated)	Chlorinated hydrocarbons EPA Vic	Other chlorinated hydrocarbons EPA Vic	Total Chlorinated Hydrocarbons	1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1,2-trichloroethane	1,1-dichloroethane	1,1,2,3-trichloropropane	1,2-dichloroethane
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.2	10	0.2	0.05	1	20	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5

Lab Report Number	Field ID	Matrix Type	Date	Pentachlorophenol	Tetrachlorophenols	Phenol	Phenols	Phenols (Total Halogenated)	Phenols (Total Non Halogenated)	Chlorinated hydrocarbons EPA Vic	Other chlorinated hydrocarbons EPA Vic	Total Chlorinated Hydrocarbons	1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1,2-trichloroethane	1,1-dichloroethane	1,1,2,3-trichloropropane	1,2-dichloroethane
				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	
21.1508 (511-533)	WAC1.TP1_0.5	Soil	17/11/2021																
21.1508 (511-533)	WAC1.BR1	Soil	17/11/2021																
RPD																			
21.1508 (511-533)	WAC1.TP1_0.5	Soil	17/11/2021																
841991	WAC1.SR1	Soil	15/11/2021																
RPD																			
21.1508 (735-766)	WAC1.TP12_0.3	Soil	24/11/2021	<0.20		<0.20	<0.050			<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		
21.1508 (735-766)	BR2	Soil	24/11/2021	<0.20		<0.20	<0.050			<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		
RPD				0		0	0			0	0	0	0	0	0	0	0		
21.1508 (735-766)	WAC1.TP12_0.3	Soil	24/11/2021	<0.20		<0.20	<0.050			<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		
844049	SR2	Soil	23/11/2021	<1	<10	<0.5	<1	<20		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
RPD				0		0				0	0	0	0	0	0	0	0		
21.1508 (735-766)	WAC1.TP25_0.3	Soil	24/11/2021																
21.1508 (735-766)	BR3	Soil	24/11/2021																
RPD																			
21.1508 (735-766)	WAC1.TP25_0.3	Soil	24/11/2021																
844049	SR3	Soil	23/11/2021																
RPD																			

*RPDs have only been considered where a concentration is greater than 1 times the EQL.

**Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for each EQL multiplier range : 1, 2, 3, 4, 5, 10, 20, 50, 100, 200, 500, 1000)

***Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any method

Field or Interlab Duplicates

Chlorinated Hydrocarbons																		
	1,2-dichloropropane	1,3-dichloropropane	Bromoform	Bromochloromethane	Bromodichloromethane	Bromoform	Carbon tetrachloride	Chlorobromomethane	Chloroethane	Chloroform	Chloromethane	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Dibromomethane	Dichloromethane	Hexachlorobutadiene	Trichloroethylene	Tetrachloroethylene
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
EQL	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
Lab Report Number																		
21.1508 (511-533)	WAC1.TP1_0.5	Soil	17/11/2021															
21.1508 (511-533)	WAC1.BR1	Soil	17/11/2021															
RPD																		
21.1508 (511-533)	WAC1.TP1_0.5	Soil	17/11/2021															
841991	WAC1.SR1	Soil	15/11/2021															
RPD																		
21.1508 (735-766)	WAC1.TP12_0.3	Soil	24/11/2021		<0.50			<0.50			<0.50		<0.50		<0.50	<0.50	<0.50	
21.1508 (735-766)	BR2	Soil	24/11/2021		<0.50			<0.50			<0.50		<0.50		<0.50	<0.50	<0.50	
RPD																		
21.1508 (735-766)	WAC1.TP12_0.3	Soil	24/11/2021		0			0			0		0		0	0	0	
844049	SR2	Soil	23/11/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
RPD																		
21.1508 (735-766)	WAC1.TP25_0.3	Soil	24/11/2021															
21.1508 (735-766)	BR3	Soil	24/11/2021															
RPD																		
21.1508 (735-766)	WAC1.TP25_0.3	Soil	24/11/2021															
844049	SR3	Soil	23/11/2021															

*RPDs have only been considered where a concentration is greater than 1 times the EQL.

**Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for each EQL multiplier range : 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100).

***Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any method

Field or Interlab Duplicates

Halogenated Benzenes										Halogenated Hydrocarbons					Herbicides	
trans-1,2-dichloroethene	trans-1,3-dichloropropene	Vinyl chloride	1,2,4-trichlorobenzene	1,2-dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	4-chlorotoluene	Bromobenzene	Chlorobenzene	Hexachlorobenzene	1,2-dibromoethane	Bromomethane	Dichlorodifluoromethane	Iodomethane	Trichlorofluoromethane	Dinoseb
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
0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.05	0.5	0.5	0.5	0.5	0.5	5

Lab Report Number	Field ID	Matrix Type	Date																
21.1508 (511-533)	WAC1.TP1_0.5	Soil	17/11/2021												<0.10				
21.1508 (511-533)	WAC1.BR1	Soil	17/11/2021												<0.10				
RPD															0				
21.1508 (511-533)	WAC1.TP1_0.5	Soil	17/11/2021												<0.10				
841991	WAC1.SR1	Soil	15/11/2021												<0.5				
RPD															0				
21.1508 (735-766)	WAC1.TP12_0.3	Soil	24/11/2021	<0.50		<0.50	<0.50	<0.50	<0.50					<0.50	<0.10				<5.0
21.1508 (735-766)	BR2	Soil	24/11/2021	<0.50		<0.50	<0.50	<0.50	<0.50					<0.50	<0.10				<5.0
RPD				0		0	0	0	0					0	0				0
21.1508 (735-766)	WAC1.TP12_0.3	Soil	24/11/2021	<0.50		<0.50	<0.50	<0.50	<0.50					<0.50	<0.10				<5.0
844049	SR2	Soil	23/11/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<20
RPD				0		0	0	0	0					0	0				0
21.1508 (735-766)	WAC1.TP25_0.3	Soil	24/11/2021												<0.10				
21.1508 (735-766)	BR3	Soil	24/11/2021												<0.10				
RPD															0				
21.1508 (735-766)	WAC1.TP25_0.3	Soil	24/11/2021												<0.10				
844049	SR3	Soil	23/11/2021												<0.05				
RPD															0				

*RPDs have only been considered where a concentration is greater than 1 times the EQL.

****Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for each EQL multiplier range are indicated in the table below)**

*****Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any melt**

Field or Interlab Duplicates

EQ	Inorganics		MAH						Metals						Organochlorine pesticides EPA Vic		
	Moisture Content %	Moisture Content (dried @ 103°C) %	Monocyclic aromatic hydrocarbons EPA Vic mg/kg	Total MAH mg/kg	1,2,4- trimethylbenzene mg/kg	1,3,5- trimethylbenzene mg/kg	Isopropylbenzene mg/kg	Styrene mg/kg	Arsenic mg/kg	Cadmium mg/kg	Chromium (III+VI) mg/kg	Copper mg/kg	Lead mg/kg	Mercury mg/kg	Nickel mg/kg	Zinc mg/kg	
	EQL	1	1	0.5	0.5	0.5	0.5	2	0.3	5	5	5	0.1	5	5	0.1	

Lab Report Number	Field ID	Matrix Type	Date	Moisture Content	Monocyclic aromatic hydrocarbons EPA Vic	Total MAH	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	Isopropylbenzene	Styrene	Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc	
21.1508 (511-533)	WAC1.TP1_0.5	Soil	17/11/2021	16.8							11.9	<0.30	16.1	25.4	46.8	<0.20	<10.0	55.5	
21.1508 (511-533)	WAC1.BR1	Soil	17/11/2021	16.2							8.8	<0.30	14.0	21.6	81.7	<0.20	<10.0	27.1	
RPD				4							30	0	14	16	54	0	0	69	
21.1508 (511-533)	WAC1.TP1_0.5	Soil	17/11/2021	16.8							11.9	<0.30	16.1	25.4	46.8	<0.20	<10.0	55.5	
841991	WAC1.SR1	Soil	15/11/2021		14						<2	<0.4	<5	7.0	15	<0.1	<5	15	
RPD											142	0	105	114	103	0	0	115	
21.1508 (735-766)	WAC1.TP12_0.3	Soil	24/11/2021	19.4		<1.0					<0.50	9.4	<0.30	27.5	93.1	538.5	0.98	14.8	982.9
21.1508 (735-766)	BR2	Soil	24/11/2021	20.9		<1.0					<0.50	<5.0	<0.30	17.1	69.8	590.6	1.22	<10.0	886.9
RPD				7	0						61	0	47	29	9	22	39	10	
21.1508 (735-766)	WAC1.TP12_0.3	Soil	24/11/2021	19.4		<1.0					<0.50	9.4	<0.30	27.5	93.1	538.5	0.98	14.8	982.9
844049	SR2	Soil	23/11/2021		20	<0.5	<0.5	<0.5	<0.5	<0.5	10	2.1	21	75	630	1.1	11	880	
RPD											6	150	27	22	16	12	29	11	
21.1508 (735-766)	WAC1.TP25_0.3	Soil	24/11/2021	20.7							9.0	<0.30	15.0	19.5	85.4	<0.20	<10.0	53.3	
21.1508 (735-766)	BR3	Soil	24/11/2021	17.9							9.6	<0.30	17.2	19.0	83.7	<0.20	<10.0	48.4	
RPD				15							6	0	14	3	2	0	0	10	
21.1508 (735-766)	WAC1.TP25_0.3	Soil	24/11/2021	20.7							9.0	<0.30	15.0	19.5	85.4	<0.20	<10.0	53.3	
844049	SR3	Soil	23/11/2021		17						9.5	<0.4	16	23	81	<0.1	8.0	70	
RPD											5	0	6	16	5	0	0	27	

*RPDs have only been considered where a concentration is greater than 1 times the EQL.

**Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for each EQL multiplier range : 1, 2, 5, 10, 20, 50, 100, 200, 500, 1000)

***Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any method

Field or Interlab Duplicates

	Organochlorine Pesticides															
	Other organochlorine pesticides EPA Vic	4,4-DDE	a-BHC	Aldrin	Aldrin + Dieldrin	b-BHC	Chlordane	Chlordane (cis)	Chlordane (trans)	d-BHC	DDD	DDT	DDT+DDE+DDD	Dieldrin	Endosulfan I	Endosulfan II
mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.1	0.05	0.05	0.05	0.05	0.05	0.1	0.1	0.1	0.05	0.05	0.05	0.05	0.05	0.05	0.05

Lab Report Number	Field ID	Matrix Type	Date		<0.10	<0.10	<0.10		<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.20	<0.10
21.1508 (511-533)	WAC1.TP1_0.5	Soil	17/11/2021		<0.10	<0.10	<0.10		<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.20	<0.10
21.1508 (511-533)	WAC1.BR1	Soil	17/11/2021		<0.10	<0.10	<0.10		<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.20	<0.10
RPD					0	0	0		0	0	0	0	0	0	0	0	0	0
21.1508 (511-533)	WAC1.TP1_0.5	Soil	17/11/2021		<0.10	<0.10	<0.10		<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.20	<0.10
841991	WAC1.SR1	Soil	15/11/2021	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1					<0.5	<0.5	<0.5	<0.5
RPD					0	0	0		0						0	0	0	0
21.1508 (735-766)	WAC1.TP12_0.3	Soil	24/11/2021		<0.10	<0.10	<0.10		<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.20	<0.10
21.1508 (735-766)	BR2	Soil	24/11/2021		<0.10	<0.10	<0.10		<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.20	<0.10
RPD					0	0	0		0						0	0	0	0
21.1508 (735-766)	WAC1.TP12_0.3	Soil	24/11/2021		<0.10	<0.10	<0.10		<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.20	<0.10
844049	SR2	Soil	23/11/2021	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1					<0.05	<0.05	<0.05	<0.05
RPD					0	0	0		0						0	0	0	0
21.1508 (735-766)	WAC1.TP25_0.3	Soil	24/11/2021		<0.10	<0.10	<0.10		<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.20	<0.10
21.1508 (735-766)	BR3	Soil	24/11/2021		<0.10	<0.10	<0.10		<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.20	<0.10
RPD					0	0	0		0						0	0	0	0
21.1508 (735-766)	WAC1.TP25_0.3	Soil	24/11/2021		<0.10	<0.10	<0.10		<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.20	<0.10
844049	SR3	Soil	23/11/2021	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1					<0.05	<0.05	<0.05	<0.05
RPD					0	0	0		0						0	0	0	0

*RPDs have only been considered where a concentration is greater than 1 times the EQL.

**Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for each EQL multiplier range :

***Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any me

Field or Interlab Duplicates

	Endrin	Endrin aldehyde	Endrin ketone	g-BHC (Lindane)	Heptachlor	Heptachlor epoxide	Methoxychlor	Toxaphene	Trikuthion	Azinophos methyl	Bolstar (Sulprofos)	Chlordanephos	Chlorpyrifos	Chlorpyrifos-methyl	Coumaphos	Demeton-O	Demeton-S
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.5	0.2	0.2	0.2	0.2	0.1	0.1	2	0.2	0.2

Lab Report Number	Field ID	Matrix Type	Date	Endrin	Endrin aldehyde	Endrin ketone	g-BHC (Lindane)	Heptachlor	Heptachlor epoxide	Methoxychlor	Toxaphene	Trikuthion	Azinophos methyl	Bolstar (Sulprofos)	Chlordanephos	Chlorpyrifos	Chlorpyrifos-methyl	Coumaphos	Demeton-O	Demeton-S
				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	
21.1508 (511-533)	WAC1.TP1_0.5	Soil	17/11/2021	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10					<0.10	<0.10				
21.1508 (511-533)	WAC1.BR1	Soil	17/11/2021	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10					<0.10	<0.10				
RPD				0	0	0	0	0	0	0					0	0				
21.1508 (511-533)	WAC1.TP1_0.5	Soil	17/11/2021	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10					<0.10	<0.10				
841991	WAC1.SR1	Soil	15/11/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5
RPD				0	0	0	0	0	0	0					0	0				
21.1508 (735-766)	WAC1.TP12_0.3	Soil	24/11/2021	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10					<0.10	<0.10				
21.1508 (735-766)	BR2	Soil	24/11/2021	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10					<0.10	<0.10				
RPD				0	0	0	0	0	0	0					0	0				
21.1508 (735-766)	WAC1.TP12_0.3	Soil	24/11/2021	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10					<0.10	<0.10				
844049	SR2	Soil	23/11/2021	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	
RPD				0	0	0	0	0	0	0					0	0				
21.1508 (735-766)	WAC1.TP25_0.3	Soil	24/11/2021	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10					<0.10	<0.10				
21.1508 (735-766)	BR3	Soil	24/11/2021	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10					<0.10	<0.10				
RPD				0	0	0	0	0	0	0					0	0				
21.1508 (735-766)	WAC1.TP25_0.3	Soil	24/11/2021	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10					<0.10	<0.10				
844049	SR3	Soil	23/11/2021	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	
RPD				0	0	0	0	0	0	0					0	0				

*RPDs have only been considered where a concentration is greater than 1 times the EQL.

**Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for each EQL multiplier range :

***Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any me

Field or Interlab Duplicates

	Organophosphorous Pesticides																
	Diazinon	Dichlorvos	Dimethoate	Disulfoton	Ethion	Ethoprop	Fenitrothion	Fensulfothion	Fenthion	EPN	Malathion	Merphos	Methyl parathion	Mevinphos (Phosdrin)	Monocrotophos	Naled (Dibrom)	Omethoate
mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
EQL	0.1	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	2	0.2	2

Lab Report Number	Field ID	Matrix Type	Date	Diazinon	Dichlorvos	Dimethoate	Disulfoton	Ethion	Ethoprop	Fenitrothion	Fensulfothion	Fenthion	EPN	Malathion	Merphos	Methyl parathion	Mevinphos (Phosdrin)	Monocrotophos	Naled (Dibrom)	Omethoate
21.1508 (511-533)	WAC1.TP1_0.5	Soil	17/11/2021	<0.10					<0.10						<0.10					
21.1508 (511-533)	WAC1.BR1	Soil	17/11/2021	<0.10					<0.10						<0.10					
RPD				0					0						0					
21.1508 (511-533)	WAC1.TP1_0.5	Soil	17/11/2021	<0.10					<0.10						<0.10					
841991	WAC1.SR1	Soil	15/11/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	
RPD				0					0						0					
21.1508 (735-766)	WAC1.TP12_0.3	Soil	24/11/2021	<0.10					<0.10						<0.10					
21.1508 (735-766)	BR2	Soil	24/11/2021	<0.10					<0.10						<0.10					
RPD				0					0						0					
21.1508 (735-766)	WAC1.TP12_0.3	Soil	24/11/2021	<0.10					<0.10						<0.10					
844049	SR2	Soil	23/11/2021	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	
RPD				0					0						0					
21.1508 (735-766)	WAC1.TP25_0.3	Soil	24/11/2021	<0.10					<0.10						<0.10					
21.1508 (735-766)	BR3	Soil	24/11/2021	<0.10					<0.10						<0.10					
RPD				0					0						0					
21.1508 (735-766)	WAC1.TP25_0.3	Soil	24/11/2021	<0.10					<0.10						<0.10					
844049	SR3	Soil	23/11/2021	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	
RPD				0					0						0					

*RPDs have only been considered where a concentration is greater than 1 times the EQL.

**Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for each EQL multiplier range :

***Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any me

Field or Interlab Duplicates

	Phorate	Pyrazophos	Ronnel	Terbufos	Trichloronate	Tetrachlorvinphos	PAH											
							mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benz(a) pyrene	Benz(b)fluoranthene
EQL	0.2	0.2	0.1	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.3	0.3	0.3	0.3	0.3

Lab Report Number	Field ID	Matrix Type	Date	<0.10	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	
21.1508 (511-533)	WAC1.TP1_0.5	Soil	17/11/2021	<0.10	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	
21.1508 (511-533)	WAC1.BR1	Soil	17/11/2021	<0.10	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	
RPD				0	0	0	0	0	0	0	0	0	0	0	0	0	0	
21.1508 (511-533)	WAC1.TP1_0.5	Soil	17/11/2021	<0.10	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
841991	WAC1.SR1	Soil	15/11/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD				0	0	0	0	0	0	0	0	0	0	0	0	0	0	
21.1508 (735-766)	WAC1.TP12_0.3	Soil	24/11/2021	<0.10	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
21.1508 (735-766)	BR2	Soil	24/11/2021	<0.10	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
RPD				0	0	0	0	0	0	0	0	0	0	0	0	0	0	
21.1508 (735-766)	WAC1.TP12_0.3	Soil	24/11/2021	<0.10	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
844049	SR2	Soil	23/11/2021	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
RPD				0	0	0	0	0	0	0	0	0	0	0	0	0	0	
21.1508 (735-766)	WAC1.TP25_0.3	Soil	24/11/2021	<0.10	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
21.1508 (735-766)	BR3	Soil	24/11/2021	<0.10	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
RPD				0	0	0	0	0	0	0	0	0	0	0	0	0	0	
21.1508 (735-766)	WAC1.TP25_0.3	Soil	24/11/2021	<0.10	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
844049	SR3	Soil	23/11/2021	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
RPD				0	0	0	0	0	0	0	0	0	0	0	0	0	0	

*RPDs have only been considered where a concentration is greater than 1 times the EQL.

**Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for each EQL multiplier range : 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100).

***Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any method

Field or Interlab Duplicates

	Fluoranthene mg/kg	Fluorene mg/kg	Indeno[1,2,3-c,d]pyrene mg/kg	Naphthalene mg/kg	Phenanthrene mg/kg	Pyrene mg/kg	PAHs (sum of total) mg/kg	PAHs (sum of positives) mg/kg	PCBs						PCBs (sum of total) mg/kg	DEF mg/kg
									Arochlor 1016 mg/kg	Arochlor 1221 mg/kg	Arochlor 1232 mg/kg	Arochlor 1242 mg/kg	Arochlor 1248 mg/kg	Arochlor 1254 mg/kg	Arochlor 1260 mg/kg	
EQL	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Lab Report Number	Field ID	Matrix Type	Date	Fluoranthene	Fluorene	Indeno[1,2,3-c,d]pyrene	Naphthalene	Phenanthrene	Pyrene	PAHs (sum of total)	PAHs (sum of positives)	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	PCBs (sum of total)	DEF
21.1508 (511-533)	WAC1.TP1_0.5	Soil	17/11/2021	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.10	
21.1508 (511-533)	WAC1.BR1	Soil	17/11/2021	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.10	
RPD				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
21.1508 (511-533)	WAC1.TP1_0.5	Soil	17/11/2021	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.10	
841991	WAC1.SR1	Soil	15/11/2021	0.6	<0.5	<0.5	<0.5	<0.5	0.6	2.3		<1	<1	<1	<1	<1	<1	<1	<1	
RPD				67	0	0	0	0	67		0	0	0	0	0	0	0	0	0	
21.1508 (735-766)	WAC1.TP12_0.3	Soil	24/11/2021	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.10	
21.1508 (735-766)	BR2	Soil	24/11/2021	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.10	
RPD				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
21.1508 (735-766)	WAC1.TP12_0.3	Soil	24/11/2021	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.10	
844049	SR2	Soil	23/11/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5									
RPD				0	0	0	0	0	0	0	0									
21.1508 (735-766)	WAC1.TP25_0.3	Soil	24/11/2021	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.10	
21.1508 (735-766)	BR3	Soil	24/11/2021	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.10	
RPD				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
21.1508 (735-766)	WAC1.TP25_0.3	Soil	24/11/2021	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.10	
844049	SR3	Soil	23/11/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5									
RPD				0	0	0	0	0	0	0	0									

*RPDs have only been considered where a concentration is greater than 1 times the EQL.

**Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for each EQL multiplier range : 1, 2, 3, 4, 5, 10, 20, 50, 100, 200, 500, 1000)

***Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any method

Field or Interlab Duplicates

	Pesticides		Solvents					TPH				
	Parathion	Pirimiphos-methyl	Methyl Ethyl Ketone	4-Methyl-2-pentanone	Acetone	Allyl chloride	Carbon disulfide	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum)
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.2	0.2	0.5	0.5	0.5	0.5	0.5	20	20	50	50	50

Lab Report Number	Field ID	Matrix Type	Date									
21.1508 (511-533)	WAC1.TP1_0.5	Soil	17/11/2021					<25	<50	<100	<100	<50
21.1508 (511-533)	WAC1.BR1	Soil	17/11/2021					<25	<50	<100	<100	<50
RPD								0	0	0	0	0
21.1508 (511-533)	WAC1.TP1_0.5	Soil	17/11/2021					<25	<50	<100	<100	<50
841991	WAC1.SR1	Soil	15/11/2021	<0.5	<0.5			<20	<20	<50	<50	<50
RPD								0	0	0	0	0
21.1508 (735-766)	WAC1.TP12_0.3	Soil	24/11/2021					<35	<50	<100	<100	<50
21.1508 (735-766)	BR2	Soil	24/11/2021					<35	<50	<100	<100	<50
RPD								0	0	0	0	0
21.1508 (735-766)	WAC1.TP12_0.3	Soil	24/11/2021					<35	<50	<100	<100	<50
844049	SR2	Soil	23/11/2021	<0.2	<0.2	<0.5	<0.5	<0.5	<20	<20	<50	<50
RPD								0	0	0	0	0
21.1508 (735-766)	WAC1.TP25_0.3	Soil	24/11/2021					<25	<50	<100	<100	<50
21.1508 (735-766)	BR3	Soil	24/11/2021					<25	<50	<100	<100	<50
RPD								0	0	0	0	0
21.1508 (735-766)	WAC1.TP25_0.3	Soil	24/11/2021					<25	<50	<100	<100	<50
844049	SR3	Soil	23/11/2021	<0.2	<0.2			<20	<20	<50	<50	<50
RPD								0	0	0	0	0

*RPDs have only been considered where a concentration is greater than 1 times the EQL.

**Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for each EQL multiplier range :

***Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any me

Field Blanks

	BTEX							TRH							Halogenated Benzenes					
	Naphthalene (VOC)		Benzene	Toluene	Ethylbenzene	Xylene (m & p)	Xylene (o)	Xylene Total	C6-C10 Fraction (F1)	C6-C10 (F1 minus BTEX)	>C10-C16 Fraction (F2)	>C10-C16 (minus Naphthalene)	>C16-C34 Fraction (F3)	>C34-C40 Fraction (F4)	>C10-C40 Fraction (Sum)	Hexachlorobenzene	Arsenic (filtered)	Cadmium (filtered)	Chromium (III+VI) (filtered)	
	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L	
EQL	0.01	1	1	1	2	1	3	20	20	50	50	100	100	100	0.2	0.001	0.0002	0.001		

Lab Report Number	Matrix Type	Date																			
21.1508 (536-537)	Water	17/11/2021		<1	<1	<1	<2	<1													
21.1508 (798-801)	Water	25/11/2021		<1	<1	<1	<2	<1													
21.1508 (798-801)	Water	25/11/2021		<1	<1	<1	<2	<1													
841991	Water	15/11/2021		<0.01	<1	<1	<1	<2	<1	<3	<20	<20	<50	<50	<100	<100	<100	<0.2	<0.001	<0.0002	<0.001

Field Blanks

	Metals					Organochlorine Pesticides													
	Copper (filtered)	Lead (filtered)	Mercury (filtered)	Nickel (filtered)	Zinc (filtered)	Organochlorine pesticides EP/AVic	Other organochlorine pesticides EP/AVic	4,4-DDE	a-BHC	Aldrin	Aldrin + Dieldrin	b-BHC	Chlordane	d-BHC	DDD	DDT	DDT+DDE+DDD	Dieldrin	Endosulfan I
	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL	0.001	0.001	0.0001	0.001	0.005	2	2	0.2	0.2	0.2	0.2	2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

Lab Report Number	Matrix Type	Date																	
21.1508 (536-537)	Water	17/11/2021																	
21.1508 (798-801)	Water	25/11/2021																	
21.1508 (798-801)	Water	25/11/2021																	
841991	Water	15/11/2021	<0.001	<0.001	<0.0001	<0.001	<0.005	<2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2

Field Blanks

	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	Endrin ketone	γ -BHC (Lindane)	Heptachlor	Heptachlor epoxide	Methoxychlor	Toxaphene	Tokuthion	Azinophos methyl	Bolstar (Sulprofos)	Chlordanephos	Chlorpyrifos	Chlorpyrifos-methyl	Coumaphos	Demeton-O	Demeton-S
	$\mu\text{g/L}$	$\mu\text{g/L}$	$\mu\text{g/L}$	$\mu\text{g/L}$	$\mu\text{g/L}$	$\mu\text{g/L}$	$\mu\text{g/L}$	$\mu\text{g/L}$	$\mu\text{g/L}$	mg/L	mg/L	$\mu\text{g/L}$	$\mu\text{g/L}$	$\mu\text{g/L}$	mg/L	$\mu\text{g/L}$	$\mu\text{g/L}$		
EQL	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.005	0.002	2	2	20	2	0.002	20	2	2

Lab Report Number	Matrix Type	Date																	
21.1508 (536-537)	Water	17/11/2021																	
21.1508 (798-801)	Water	25/11/2021																	
21.1508 (798-801)	Water	25/11/2021																	
841991	Water	15/11/2021	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.005	<0.002	<2	<2	<20	<2	<0.002	<20	<2	<2

Field Blanks

Organophosphorous Pesticides																		
Diazinon	Dichlorvos	Dimethoate	Disulfoton	Ethion	Ethoprop	Fenitrothion	Fensulfothion	Fenthion	EPN	Malathion	Merphos	Methyl parathion	Mevinphos (Phosdrin)	Monocrotophos	Naled (Dibrom)	Omethoate	Phorate	Pyrazophos
µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL	2	2	2	2	2	2	2	2	2	2	0.002	2	2	2	20	2	2	

Lab Report Number	Matrix Type	Date																
21.1508 (536-537)	Water	17/11/2021																
21.1508 (798-801)	Water	25/11/2021																
21.1508 (798-801)	Water	25/11/2021																
841991	Water	15/11/2021	<2	<2	<2	<2	<2	<2	<2	<2	<0.002	<2	<2	<2	<20	<2	<2	

Field Blanks

Field Blanks

	Pyrene		PAHs (Sum of total)		PCBs								Pesticides		TPH					
	µg/L	µg/L	µg/L	µg/L	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	PCBs (Sum of total)	Parathion	Pirimiphos-methyl	µg/L	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum)
	µg/L	µg/L	µg/L	µg/L	5	5	5	5	5	5	5	5	2	0.02	20	50	100	100	100	100
EQL	1	1	5	5																

Lab Report Number	Matrix Type	Date																		
21.1508 (536-537)	Water	17/11/2021																		
21.1508 (798-801)	Water	25/11/2021																		
21.1508 (798-801)	Water	25/11/2021																		
841991	Water	15/11/2021	<1	<1	<5	<5	<5	<5	<5	<5	<5	<5	<2	<0.02	<20	<50	<100	<100	<100	

Laboratory Blanks

Lab Report Number	Analysis Batch	Chem Group	Chem Name	Prefix	Result	Unit	Method Name
21.1508 (511-533)		NA	2-Methyl-4,6-dinitrophenol	<	2.0	mg/kg	ESA-P-ORG17
21.1508 (511-533)		BTEX	Benzene	<	0.50	mg/kg	ESA-P-ORG7 & ORG8
21.1508 (511-533)		BTEX	Benzene	<	0.50	mg/kg	ESA-P-ORG7 & ORG8
21.1508 (511-533)		BTEX	Toluene	<	0.50	mg/kg	ESA-P-ORG7 & ORG8
21.1508 (511-533)		BTEX	Toluene	<	0.50	mg/kg	ESA-P-ORG7 & ORG8
21.1508 (511-533)		BTEX	Ethylbenzene	<	0.50	mg/kg	ESA-P-ORG7 & ORG8
21.1508 (511-533)		BTEX	Ethylbenzene	<	1.0	mg/kg	ESA-P-ORG7 & ORG8
21.1508 (511-533)		BTEX	Xylene (m & p)	<	1.0	mg/kg	ESA-P-ORG7 & ORG8
21.1508 (511-533)		BTEX	Xylene (m & p)	<	2.0	mg/kg	ESA-P-ORG7 & ORG8
21.1508 (511-533)		BTEX	Xylene (o)	<	0.50	mg/kg	ESA-P-ORG7 & ORG8
21.1508 (511-533)		BTEX	Xylene (o)	<	1.0	mg/kg	ESA-P-ORG7 & ORG8
21.1508 (511-533)		TRH	C6-C10 Fraction (F1)	<	35	mg/kg	ESA-P-ORG7 & ORG8
21.1508 (511-533)		TRH	C6-C10 Fraction (F1)	<	35	mg/kg	ESA-P-ORG7 & ORG8
21.1508 (511-533)		TRH	>C10-C16 Fraction (F2)	<	50	mg/kg	ESA-P-ORG(3,5,6,8)
21.1508 (511-533)		TRH	>C10-C16 Fraction (F2)	<	50	mg/kg	ESA-P-ORG(3,5,6,8)
21.1508 (511-533)		TRH	>C16-C34 Fraction (F3)	<	100	mg/kg	ESA-P-ORG(3,5,6,8)
21.1508 (511-533)		TRH	>C16-C34 Fraction (F3)	<	100	mg/kg	ESA-P-ORG(3,5,6,8)
21.1508 (511-533)		TRH	>C34-C40 Fraction (F4)	<	100	mg/kg	ESA-P-ORG(3,5,6,8)
21.1508 (511-533)		TRH	>C34-C40 Fraction (F4)	<	100	mg/kg	ESA-P-ORG(3,5,6,8)
21.1508 (511-533)		Phenols	2,3,4,5-Tetrachlorophenol	<	0.10	mg/kg	ESA-P-ORG17
21.1508 (511-533)		Phenols	2,3,4,6-Tetrachlorophenol	<	0.10	mg/kg	ESA-P-ORG17
21.1508 (511-533)		Phenols	2,3,5,6-Tetrachlorophenol	<	0.10	mg/kg	ESA-P-ORG17
21.1508 (511-533)		Phenols	2,4,5-Trichlorophenol	<	0.050	mg/kg	ESA-P-ORG17
21.1508 (511-533)		Phenols	2,4,6-Trichlorophenol	<	0.050	mg/kg	ESA-P-ORG17
21.1508 (511-533)		Phenols	2,4-Dichlorophenol	<	0.050	mg/kg	ESA-P-ORG17
21.1508 (511-533)		Phenols	2,4-Dimethylphenol	<	0.20	mg/kg	ESA-P-ORG17
21.1508 (511-533)		Phenols	2,4-Dinitrophenol	<	4.0	mg/kg	ESA-P-ORG17
21.1508 (511-533)		Phenols	2,6-Dichlorophenol	<	0.050	mg/kg	ESA-P-ORG17
21.1508 (511-533)		Phenols	2-Chlorophenol	<	0.10	mg/kg	ESA-P-ORG17
21.1508 (511-533)		Phenols	2-Methylphenol	<	0.20	mg/kg	ESA-P-ORG17
21.1508 (511-533)		Phenols	2-Nitrophenol	<	0.20	mg/kg	ESA-P-ORG17
21.1508 (511-533)		Phenols	4,6-Dinitro-o-cyclohexyl phenol	<	5.0	mg/kg	ESA-P-ORG17
21.1508 (511-533)		Phenols	4-chloro-3-methylphenol	<	0.20	mg/kg	ESA-P-ORG17
21.1508 (511-533)		Phenols	4-Nitrophenol	<	4.0	mg/kg	ESA-P-ORG17
21.1508 (511-533)		Phenols	4-Terphenyl-d14	<	0.10	mg/kg	ESA-P-ORG(12 - 15)
21.1508 (511-533)		Phenols	4-Terphenyl-d14	<	0.10	mg/kg	ESA-P-ORG(12 - 15)
21.1508 (511-533)		Phenols	Cresol Total	<	0.40	mg/kg	ESA-P-ORG17
21.1508 (511-533)		Phenols	Pentachlorophenol	<	0.20	mg/kg	ESA-P-ORG17
21.1508 (511-533)		Phenols	Phenol	<	0.20	mg/kg	ESA-P-ORG17
21.1508 (511-533)		Chlorinated Hydrocarbons	1,1,1,2-tetrachloroethane	<	0.50	mg/kg	ESA-P-ORG7 & ORG8
21.1508 (511-533)		Chlorinated Hydrocarbons	1,1,1-trichloroethane	<	0.50	mg/kg	ESA-P-ORG7 & ORG8
21.1508 (511-533)		Chlorinated Hydrocarbons	1,1,2,2-tetrachloroethane	<	0.50	mg/kg	ESA-P-ORG7 & ORG8
21.1508 (511-533)		Chlorinated Hydrocarbons	1,1,2-trichloroethane	<	0.50	mg/kg	ESA-P-ORG7 & ORG8
21.1508 (511-533)		Chlorinated Hydrocarbons	1,1-dichloroethene	<	0.50	mg/kg	ESA-P-ORG7 & ORG8
21.1508 (511-533)		Chlorinated Hydrocarbons	1,2-Dichloroethene	<	0.50	mg/kg	ESA-P-ORG7 & ORG8
21.1508 (511-533)		Chlorinated Hydrocarbons	Bromochloromethane	<	0.50	mg/kg	ESA-P-ORG7 & ORG8
21.1508 (511-533)		Chlorinated Hydrocarbons	Carbon tetrachloride	<	0.50	mg/kg	ESA-P-ORG7 & ORG8
21.1508 (511-533)		Chlorinated Hydrocarbons	Chloroform	<	0.50	mg/kg	ESA-P-ORG7 & ORG8
21.1508 (511-533)		Chlorinated Hydrocarbons	cis-1,2-dichloroethene	<	0.50	mg/kg	ESA-P-ORG7 & ORG8
21.1508 (511-533)		Chlorinated Hydrocarbons	Dichloromethane	<	0.50	mg/kg	ESA-P-ORG7 & ORG8
21.1508 (511-533)		Chlorinated Hydrocarbons	Trichloroethene	<	0.50	mg/kg	ESA-P-ORG7 & ORG8
21.1508 (511-533)		Chlorinated Hydrocarbons	Tetrachloroethene	<	0.50	mg/kg	ESA-P-ORG7 & ORG8
21.1508 (511-533)		Chlorinated Hydrocarbons	trans-1,2-dichloroethene	<	0.50	mg/kg	ESA-P-ORG7 & ORG8
21.1508 (511-533)		Chlorinated Hydrocarbons	Vinyl chloride	<	0.50	mg/kg	ESA-P-ORG7 & ORG8
21.1508 (511-533)		Halogenated Benzenes	1,2,4-trichlorobenzene	<	0.50	mg/kg	ESA-P-ORG7 & ORG8
21.1508 (511-533)		Halogenated Benzenes	1,2-dichlorobenzene	<	0.50	mg/kg	ESA-P-ORG7 & ORG8
21.1508 (511-533)		Halogenated Benzenes	1,4-dichlorobenzene	<	0.50	mg/kg	ESA-P-ORG7 & ORG8
21.1508 (511-533)		Halogenated Benzenes	Chlorobenzene	<	0.50	mg/kg	ESA-P-ORG7 & ORG8
21.1508 (511-533)		Halogenated Benzenes	Hexachlorobenzene	<	0.50	mg/kg	ESA-P-ORG7 & ORG8
21.1508 (511-533)		Halogenated Benzenes	Hexachlorobenzene	<	0.10	mg/kg	ESA-P-ORG(12 - 15)
21.1508 (511-533)		Halogenated Benzenes	Hexachlorobenzene	<	0.10	mg/kg	ESA-P-ORG(12 - 15)
21.1508 (511-533)		Herbicides	Dinoseb	<	5.0	mg/kg	ESA-P-ORG17
21.1508 (511-533)		MAH	Styrene	<	0.50	mg/kg	ESA-P-ORG7 & ORG8
21.1508 (511-533)		Metals	Arsenic	<	5.0	mg/kg	ESA-MP-01,ICP-01
21.1508 (511-533)		Metals	Arsenic	<	5.0	mg/kg	ESA-MP-01,ICP-01
21.1508 (511-533)		Metals	Cadmium	<	0.30	mg/kg	ESA-MP-01,ICP-01
21.1508 (511-533)		Metals	Cadmium	<	0.30	mg/kg	ESA-MP-01,ICP-01
21.1508 (511-533)		Metals	Chromium (III+VI)	<	5.0	mg/kg	ESA-MP-01,ICP-01
21.1508 (511-533)		Metals	Chromium (III+VI)	<	5.0	mg/kg	ESA-MP-01,ICP-01
21.1508 (511-533)		Metals	Copper	<	5.0	mg/kg	ESA-MP-01,ICP-01
21.1508 (511-533)		Metals	Copper	<	5.0	mg/kg	ESA-MP-01,ICP-01
21.1508 (511-533)		Metals	Lead	<	10.0	mg/kg	ESA-MP-01,ICP-01
21.1508 (511-533)		Metals	Lead	<	10.0	mg/kg	ESA-MP-01,ICP-01
21.1508 (511-533)		Metals	Mercury	<	0.20	mg/kg	ESA-MP-01,ICP-01
21.1508 (511-533)		Metals	Mercury	<	0.20	mg/kg	ESA-MP-01,ICP-01
21.1508 (511-533)		Metals	Nickel	<	10.0	mg/kg	ESA-MP-01,ICP-01
21.1508 (511-533)		Metals	Nickel	<	10.0	mg/kg	ESA-MP-01,ICP-01
21.1508 (511-533)		Metals	Zinc	<	5.0	mg/kg	ESA-MP-01,ICP-01
21.1508 (511-533)		Metals	Zinc	<	5.0	mg/kg	ESA-MP-01,ICP-01
21.1508 (511-533)		Organochlorine Pesticides	4,4-DDE	<	0.10	mg/kg	ESA-P-ORG(12 - 15)
21.1508 (511-533)		Organochlorine Pesticides	4,4-DDE	<	0.10	mg/kg	ESA-P-ORG(12 - 15)
21.1508 (511-533)		Organochlorine Pesticides	Aldrin	<	0.10	mg/kg	ESA-P-ORG(12 - 15)
21.1508 (511-533)		Organochlorine Pesticides	Aldrin	<	0.10	mg/kg	ESA-P-ORG(12 - 15)
21.1508 (511-533)		Organochlorine Pesticides	b-BHC	<	0.10	mg/kg	ESA-P-ORG(12 - 15)
21.1508 (511-533)		Organochlorine Pesticides	b-BHC	<	0.10	mg/kg	ESA-P-ORG(12 - 15)
21.1508 (511-533)		Organochlorine Pesticides	Chlordane (cis)	<	0.10	mg/kg	ESA-P-ORG(12 - 15)
21.1508 (511-533)		Organochlorine Pesticides	Chlordane (cis)	<	0.10	mg/kg	ESA-P-ORG(12 - 15)
21.1508 (511-533)		Organochlorine Pesticides	Chlordane (trans)				

Laboratory Blanks

Laboratory Blanks

Lab Report Number	Analysis Batch	Chem Group	Chem Name	Prefix	Result	Unit	Method Name
21.1508 (735-766)		TRH	C6-C10 Fraction (F1)	<	35	mg/kg	ESA-P-ORG7 & ORG8
21.1508 (735-766)		TRH	C6-C10 Fraction (F1)	<	35	mg/kg	ESA-P-ORG7 & ORG8
21.1508 (735-766)		TRH	>C10-C16 Fraction (F2)	<	50	mg/kg	ESA-P-ORG(3,5,6,8)
21.1508 (735-766)		TRH	>C10-C16 Fraction (F2)	<	50	mg/kg	ESA-P-ORG(3,5,6,8)
21.1508 (735-766)		TRH	>C16-C34 Fraction (F3)	<	100	mg/kg	ESA-P-ORG(3,5,6,8)
21.1508 (735-766)		TRH	>C16-C34 Fraction (F3)	<	100	mg/kg	ESA-P-ORG(3,5,6,8)
21.1508 (735-766)		TRH	>C16-C34 Fraction (F3)	<	100	mg/kg	ESA-P-ORG(3,5,6,8)
21.1508 (735-766)		TRH	>C34-C40 Fraction (F4)	<	100	mg/kg	ESA-P-ORG(3,5,6,8)
21.1508 (735-766)		TRH	>C34-C40 Fraction (F4)	<	100	mg/kg	ESA-P-ORG(3,5,6,8)
21.1508 (735-766)		Phenols	2,3,4,5-Tetrachlorophenol	<	0.10	mg/kg	ESA-P-ORG17
21.1508 (735-766)		Phenols	2,3,4,6-Tetrachlorophenol	<	0.10	mg/kg	ESA-P-ORG17
21.1508 (735-766)		Phenols	2,3,5,6-Tetrachlorophenol	<	0.10	mg/kg	ESA-P-ORG17
21.1508 (735-766)		Phenols	2,4,5-Trichlorophenol	<	0.050	mg/kg	ESA-P-ORG17
21.1508 (735-766)		Phenols	2,4,6-Trichlorophenol	<	0.050	mg/kg	ESA-P-ORG17
21.1508 (735-766)		Phenols	2,4-Dichlorophenol	<	0.050	mg/kg	ESA-P-ORG17
21.1508 (735-766)		Phenols	2,4-Dimethylphenol	<	0.20	mg/kg	ESA-P-ORG17
21.1508 (735-766)		Phenols	2,4-Dinitrophenol	<	4.0	mg/kg	ESA-P-ORG17
21.1508 (735-766)		Phenols	2,6-Dichlorophenol	<	0.050	mg/kg	ESA-P-ORG17
21.1508 (735-766)		Phenols	2-Chlorophenol	<	0.10	mg/kg	ESA-P-ORG17
21.1508 (735-766)		Phenols	2-Methylphenol	<	0.20	mg/kg	ESA-P-ORG17
21.1508 (735-766)		Phenols	2-Nitrophenol	<	0.20	mg/kg	ESA-P-ORG17
21.1508 (735-766)		Phenols	4,6-Dinitro-o-cyclohexyl phenol	<	5.0	mg/kg	ESA-P-ORG17
21.1508 (735-766)		Phenols	4-chloro-3-methylphenol	<	0.20	mg/kg	ESA-P-ORG17
21.1508 (735-766)		Phenols	4-Nitrophenol	<	4.0	mg/kg	ESA-P-ORG17
21.1508 (735-766)		Phenols	4-Terphenyl-d14	<	0.10	mg/kg	ESA-P-ORG(12 - 15)
21.1508 (735-766)		Phenols	4-Terphenyl-d14	<	0.10	mg/kg	ESA-P-ORG(12 - 15)
21.1508 (735-766)		Phenols	4-Terphenyl-d14	<	0.10	mg/kg	ESA-P-ORG(12 - 15)
21.1508 (735-766)		Phenols	Cresol Total	<	0.40	mg/kg	ESA-P-ORG17
21.1508 (735-766)		Phenols	Pentachlorophenol	<	0.20	mg/kg	ESA-P-ORG17
21.1508 (735-766)		Phenols	Phenol	<	0.20	mg/kg	ESA-P-ORG17
21.1508 (735-766)		Chlorinated Hydrocarbons	1,1,1,2-tetrachloroethane	<	0.50	mg/kg	ESA-P-ORG7 & ORG8
21.1508 (735-766)		Chlorinated Hydrocarbons	1,1,1-trichloroethane	<	0.50	mg/kg	ESA-P-ORG7 & ORG8
21.1508 (735-766)		Chlorinated Hydrocarbons	1,1,2,2-tetrachloroethane	<	0.50	mg/kg	ESA-P-ORG7 & ORG8
21.1508 (735-766)		Chlorinated Hydrocarbons	1,1,2-trichloroethane	<	0.50	mg/kg	ESA-P-ORG7 & ORG8
21.1508 (735-766)		Chlorinated Hydrocarbons	1,1-dichloroethene	<	0.50	mg/kg	ESA-P-ORG7 & ORG8
21.1508 (735-766)		Chlorinated Hydrocarbons	1,2-Dichloroethene	<	0.50	mg/kg	ESA-P-ORG7 & ORG8
21.1508 (735-766)		Chlorinated Hydrocarbons	Bromochloromethane	<	0.50	mg/kg	ESA-P-ORG7 & ORG8
21.1508 (735-766)		Chlorinated Hydrocarbons	Carbon tetrachloride	<	0.50	mg/kg	ESA-P-ORG7 & ORG8
21.1508 (735-766)		Chlorinated Hydrocarbons	Chloroform	<	0.50	mg/kg	ESA-P-ORG7 & ORG8
21.1508 (735-766)		Chlorinated Hydrocarbons	cis-1,2-dichloroethene	<	0.50	mg/kg	ESA-P-ORG7 & ORG8
21.1508 (735-766)		Chlorinated Hydrocarbons	Dichloromethane	<	0.50	mg/kg	ESA-P-ORG7 & ORG8
21.1508 (735-766)		Chlorinated Hydrocarbons	Trichloroethene	<	0.50	mg/kg	ESA-P-ORG7 & ORG8
21.1508 (735-766)		Chlorinated Hydrocarbons	Tetrachloroethene	<	0.50	mg/kg	ESA-P-ORG7 & ORG8
21.1508 (735-766)		Chlorinated Hydrocarbons	trans-1,2-dichloroethene	<	0.50	mg/kg	ESA-P-ORG7 & ORG8
21.1508 (735-766)		Chlorinated Hydrocarbons	Vinyl chloride	<	0.50	mg/kg	ESA-P-ORG7 & ORG8
21.1508 (735-766)		Halogenated Benzenes	1,2,4-trichlorobenzene	<	0.50	mg/kg	ESA-P-ORG7 & ORG8
21.1508 (735-766)		Halogenated Benzenes	1,2-dichlorobenzene	<	0.50	mg/kg	ESA-P-ORG7 & ORG8
21.1508 (735-766)		Halogenated Benzenes	1,4-dichlorobenzene	<	0.50	mg/kg	ESA-P-ORG7 & ORG8
21.1508 (735-766)		Halogenated Benzenes	Chlorobenzene	<	0.50	mg/kg	ESA-P-ORG7 & ORG8
21.1508 (735-766)		Halogenated Benzenes	Hexachlorobenzene	<	0.10	mg/kg	ESA-P-ORG(12 - 15)
21.1508 (735-766)		Halogenated Benzenes	Hexachlorobenzene	<	0.50	mg/kg	ESA-P-ORG7 & ORG8
21.1508 (735-766)		Halogenated Benzenes	Hexachlorobenzene	<	0.10	mg/kg	ESA-P-ORG(12 - 15)
21.1508 (735-766)		Halogenated Benzenes	Hexachlorobenzene	<	0.10	mg/kg	ESA-P-ORG(12 - 15)
21.1508 (735-766)		Herbicides	Dinoseb	<	5.0	mg/kg	ESA-P-ORG17
21.1508 (735-766)		MAH	Styrene	<	0.50	mg/kg	ESA-P-ORG7 & ORG8
21.1508 (735-766)		Metals	Arsenic	<	5.0	mg/kg	ESA-MP-01,ICP-01
21.1508 (735-766)		Metals	Arsenic	<	5.0	mg/kg	ESA-MP-01,ICP-01
21.1508 (735-766)		Metals	Cadmium	<	0.30	mg/kg	ESA-MP-01,ICP-01
21.1508 (735-766)		Metals	Cadmium	<	0.30	mg/kg	ESA-MP-01,ICP-01
21.1508 (735-766)		Metals	Chromium (III+VI)	<	5.0	mg/kg	ESA-MP-01,ICP-01
21.1508 (735-766)		Metals	Chromium (III+VI)	<	5.0	mg/kg	ESA-MP-01,ICP-01
21.1508 (735-766)		Metals	Copper	<	5.0	mg/kg	ESA-MP-01,ICP-01
21.1508 (735-766)		Metals	Copper	<	5.0	mg/kg	ESA-MP-01,ICP-01
21.1508 (735-766)		Metals	Lead	<	10.0	mg/kg	ESA-MP-01,ICP-01
21.1508 (735-766)		Metals	Lead	<	10.0	mg/kg	ESA-MP-01,ICP-01
21.1508 (735-766)		Metals	Mercury	<	0.20	mg/kg	ESA-MP-01,ICP-01
21.1508 (735-766)		Metals	Mercury	<	0.20	mg/kg	ESA-MP-01,ICP-01
21.1508 (735-766)		Metals	Nickel	<	10.0	mg/kg	ESA-MP-01,ICP-01
21.1508 (735-766)		Metals	Nickel	<	10.0	mg/kg	ESA-MP-01,ICP-01
21.1508 (735-766)		Metals	Zinc	<	5.0	mg/kg	ESA-MP-01,ICP-01
21.1508 (735-766)		Metals	Zinc	<	5.0	mg/kg	ESA-MP-01,ICP-01
21.1508 (735-766)		Organochlorine Pesticides	4,4-DDE	<	0.10	mg/kg	ESA-P-ORG(12 - 15)
21.1508 (735-766)		Organochlorine Pesticides	4,4-DDE	<	0.10	mg/kg	ESA-P-ORG(12 - 15)
21.1508 (735-766)		Organochlorine Pesticides	4,4-DDE	<	0.10	mg/kg	ESA-P-ORG(12 - 15)
21.1508 (735-766)		Organochlorine Pesticides	Aldrin	<	0.10	mg/kg	ESA-P-ORG(12 - 15)
21.1508 (735-766)		Organochlorine Pesticides	Aldrin	<	0.10	mg/kg	ESA-P-ORG(12 - 15)
21.1508 (735-766)		Organochlorine Pesticides	Aldrin	<	0.10	mg/kg	ESA-P-ORG(12 - 15)
21.1508 (735-766)		Organochlorine Pesticides	b-BHC	<	0.10	mg/kg	ESA-P-ORG(12 - 15)
21.1508 (735-766)		Organochlorine Pesticides	b-BHC	<	0.10	mg/kg	ESA-P-ORG(12 - 15)
21.1508 (735-766)		Organochlorine Pesticides	b-BHC	<	0.10	mg/kg	ESA-P-ORG(12 - 15)
21.1508 (735-766)		Organochlorine Pesticides	Chlordane (cis)	<	0.10	mg/kg	ESA-P-ORG(12 - 15)
21.1508 (735-766)		Organochlorine Pesticides	Chlordane (cis)	<	0.10	mg/kg	ESA-P-ORG(12 - 15)
21.1508 (735-766)		Organochlorine Pesticides	Chlordane (cis)	<	0.10	mg/kg	ESA-P-ORG(12 - 15)
21.1508 (735-766)		Organochlorine Pesticides	Chlordane (trans)	<	0.10	mg/kg	ESA-P-ORG(12 - 15)
21.1508 (735-766)		Organochlorine Pesticides	Chlordane (trans)	<	0.10	mg/kg	ESA-P-ORG(12 - 15)
21.1508 (735-766)		Organochlorine Pesticides	Chlordane (trans)	<	0.10	mg/kg	ESA-P-ORG(12 - 15)
21.1508 (735-766)		Organochlorine Pesticides	d-BHC	<	0.10		

Laboratory Blanks

Laboratory Blanks

Lab Report Number	Analysis Batch	Chem Group	Chem Name	Prefix	Result	Unit	Method Name
21.1508 (735-766)		PCBs	Arochlor 1248	<	0.50	mg/kg	ESA-P-ORG(12 - 15)
21.1508 (735-766)		PCBs	Arochlor 1248	<	0.50	mg/kg	ESA-P-ORG(12 - 15)
21.1508 (735-766)		PCBs	Arochlor 1254	<	0.50	mg/kg	ESA-P-ORG(12 - 15)
21.1508 (735-766)		PCBs	Arochlor 1254	<	0.50	mg/kg	ESA-P-ORG(12 - 15)
21.1508 (735-766)		PCBs	Arochlor 1260	<	0.50	mg/kg	ESA-P-ORG(12 - 15)
21.1508 (735-766)		PCBs	Arochlor 1260	<	0.50	mg/kg	ESA-P-ORG(12 - 15)
21.1508 (735-766)		Pesticides	DEF	<	0.10	mg/kg	ESA-P-ORG(12 - 15)
21.1508 (735-766)		Pesticides	DEF	<	0.10	mg/kg	ESA-P-ORG(12 - 15)
21.1508 (735-766)		Pesticides	DEF	<	0.10	mg/kg	ESA-P-ORG(12 - 15)
21.1508 (735-766)		TPH	C6-C9 Fraction	<	35	mg/kg	ESA-P-ORG7 & ORG8
21.1508 (735-766)		TPH	C6-C9 Fraction	<	25	mg/kg	ESA-P-ORG7 & ORG8
21.1508 (735-766)		TPH	C6-C9 Fraction	<	25	mg/kg	ESA-P-ORG7 & ORG8
21.1508 (735-766)		TPH	C10-C14 Fraction	<	50	mg/kg	ESA-P-ORG(3,5,6,8)
21.1508 (735-766)		TPH	C10-C14 Fraction	<	50	mg/kg	ESA-P-ORG(3,5,6,8)
21.1508 (735-766)		TPH	C15-C28 Fraction	<	100	mg/kg	ESA-P-ORG(3,5,6,8)
21.1508 (735-766)		TPH	C15-C28 Fraction	<	100	mg/kg	ESA-P-ORG(3,5,6,8)
21.1508 (735-766)		TPH	C15-C28 Fraction	<	100	mg/kg	ESA-P-ORG(3,5,6,8)
21.1508 (735-766)		TPH	C29-C36 Fraction	<	100	mg/kg	ESA-P-ORG(3,5,6,8)
21.1508 (735-766)		TPH	C29-C36 Fraction	<	100	mg/kg	ESA-P-ORG(3,5,6,8)
21.1508 (735-766)		BTEX	Benzene	<	0.50	mg/kg	ESA-P-ORG7 & ORG8
21.1508 (798-801)		BTEX	Toluene	<	0.50	mg/kg	ESA-P-ORG7 & ORG8
21.1508 (798-801)		BTEX	Ethylbenzene	<	1.0	mg/kg	ESA-P-ORG7 & ORG8
21.1508 (798-801)		BTEX	Xylene (m & p)	<	2.0	mg/kg	ESA-P-ORG7 & ORG8
21.1508 (798-801)		BTEX	Xylene (o)	<	1.0	mg/kg	ESA-P-ORG7 & ORG8
21.1508 (798-801)		TRH	C6-C10 Fraction (F1)	<	35	mg/kg	ESA-P-ORG7 & ORG8
21.1508 (798-801)		TPH	C6-C9 Fraction	<	25	mg/kg	ESA-P-ORG7 & ORG8
841991	2021-12-01	BTEX	Naphthalene (VOC)	<	0.01	mg/L	LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices
841991	2021-12-01	BTEX	Naphthalene (VOC)	<	0.5	mg/kg	LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices
841991	2021-12-01	BTEX	Benzene	<	0.1	mg/kg	LTM-ORG-2010 TRH C6-C40
841991	2021-12-01	BTEX	Benzene	<	1	µg/L	LTM-ORG-2010 TRH C6-C40
841991	2021-12-01	BTEX	Toluene	<	0.1	mg/kg	LTM-ORG-2010 TRH C6-C40
841991	2021-12-01	BTEX	Toluene	<	1	µg/L	LTM-ORG-2010 TRH C6-C40
841991	2021-12-01	BTEX	Ethylbenzene	<	0.1	mg/kg	LTM-ORG-2010 TRH C6-C40
841991	2021-12-01	BTEX	Ethylbenzene	<	1	µg/L	LTM-ORG-2010 TRH C6-C40
841991	2021-12-01	BTEX	Xylene (m & p)	<	2	µg/L	LTM-ORG-2010 TRH C6-C40
841991	2021-12-01	BTEX	Xylene (m & p)	<	0.2	mg/kg	LTM-ORG-2010 TRH C6-C40
841991	2021-12-01	BTEX	Xylene (o)	<	0.1	mg/kg	LTM-ORG-2010 TRH C6-C40
841991	2021-12-01	BTEX	Xylene (o)	<	1	µg/L	LTM-ORG-2010 TRH C6-C40
841991	2021-12-01	BTEX	Xylene Total	<	3	µg/L	LTM-ORG-2010 TRH C6-C40
841991	2021-12-01	BTEX	Xylene Total	<	0.3	mg/kg	LTM-ORG-2010 TRH C6-C40
841991	2021-12-01	TRH	C6-C10 Fraction (F1)	<	20	µg/L	LTM-ORG-2010 TRH C6-C40
841991	2021-12-01	TRH	C6-C10 Fraction (F1)	<	20	mg/kg	LTM-ORG-2010 TRH C6-C40
841991	2021-12-01	TRH	>C10-C16 Fraction (F2)	<	50	µg/L	LTM-ORG-2010 TRH C6-C40
841991	2021-12-01	TRH	>C10-C16 Fraction (F2)	<	50	mg/kg	LTM-ORG-2010 TRH C6-C40
841991	2021-12-01	TRH	>C16-C34 Fraction (F3)	<	100	µg/L	LTM-ORG-2010 TRH C6-C40
841991	2021-12-01	TRH	>C16-C34 Fraction (F3)	<	100	mg/kg	LTM-ORG-2010 TRH C6-C40
841991	2021-12-01	TRH	>C34-C40 Fraction (F4)	<	100	µg/L	LTM-ORG-2010 TRH C6-C40
841991	2021-12-01	TRH	>C34-C40 Fraction (F4)	<	100	mg/kg	LTM-ORG-2010 TRH C6-C40
841991	2021-12-01	Halogenated Benzenes	Hexachlorobenzene	<	0.05	mg/kg	LTM-ORG-2220 OCP & PCB in Soil and Water
841991	2021-12-01	Halogenated Benzenes	Hexachlorobenzene	<	0.2	µg/L	LTM-ORG-2220 OCP & PCB in Soil and Water
841991	2021-12-01	Metals	Arsenic	<	0.001	mg/L	LTM-MET-3040 Metals in Waters Soils & Sediments by ICP-MS
841991	2021-12-01	Metals	Arsenic	<	2	mg/kg	LTM-MET-3040 Metals in Waters Soils & Sediments by ICP-MS
841991	2021-12-01	Metals	Cadmium	<	0.0002	mg/L	LTM-MET-3040 Metals in Waters Soils & Sediments by ICP-MS
841991	2021-12-01	Metals	Cadmium	<	0.4	mg/kg	LTM-MET-3040 Metals in Waters Soils & Sediments by ICP-MS
841991	2021-12-01	Metals	Chromium (III+VI)	<	0.001	mg/L	LTM-MET-3040 Metals in Waters Soils & Sediments by ICP-MS
841991	2021-12-01	Metals	Chromium (III+VI)	<	5	mg/kg	LTM-MET-3040 Metals in Waters Soils & Sediments by ICP-MS
841991	2021-12-01	Metals	Copper	<	0.001	mg/L	LTM-MET-3040 Metals in Waters Soils & Sediments by ICP-MS
841991	2021-12-01	Metals	Copper	<	5	mg/kg	LTM-MET-3040 Metals in Waters Soils & Sediments by ICP-MS
841991	2021-12-01	Metals	Lead	<	0.001	mg/L	LTM-MET-3040 Metals in Waters Soils & Sediments by ICP-MS
841991	2021-12-01	Metals	Lead	<	5	mg/kg	LTM-MET-3040 Metals in Waters Soils & Sediments by ICP-MS
841991	2021-12-01	Metals	Mercury	<	0.0001	mg/L	LTM-MET-3040 Metals in Waters Soils & Sediments by ICP-MS
841991	2021-12-01	Metals	Mercury	<	0.1	mg/kg	LTM-MET-3040 Metals in Waters Soils & Sediments by ICP-MS
841991	2021-12-01	Metals	Nickel	<	0.001	mg/L	LTM-MET-3040 Metals in Waters Soils & Sediments by ICP-MS
841991	2021-12-01	Metals	Nickel	<	5	mg/kg	LTM-MET-3040 Metals in Waters Soils & Sediments by ICP-MS
841991	2021-12-01	Metals	Zinc	<	0.005	mg/L	LTM-MET-3040 Metals in Waters Soils & Sediments by ICP-MS
841991	2021-12-01	Metals	Zinc	<	5	mg/kg	LTM-MET-3040 Metals in Waters Soils & Sediments by ICP-MS
841991	2021-12-01	Organochlorine Pesticides	4,4-DDE	<	0.2	µg/L	LTM-ORG-2220 OCP & PCB in Soil and Water
841991	2021-12-01	Organochlorine Pesticides	4,4-DDE	<	0.05	mg/kg	LTM-ORG-2220 OCP & PCB in Soil and Water
841991	2021-12-01	Organochlorine Pesticides	a-BHC	<	0.2	µg/L	LTM-ORG-2220 OCP & PCB in Soil and Water
841991	2021-12-01	Organochlorine Pesticides	a-BHC	<	0.05	mg/kg	LTM-ORG-2220 OCP & PCB in Soil and Water
841991	2021-12-01	Organochlorine Pesticides	Aldrin	<	0.05	mg/kg	LTM-ORG-2220 OCP & PCB in Soil and Water
841991	2021-12-01	Organochlorine Pesticides	Aldrin	<	0.2	µg/L	LTM-ORG-2220 OCP & PCB in Soil and Water
841991	2021-12-01	Organochlorine Pesticides	b-BHC	<	0.05	mg/kg	LTM-ORG-2220 OCP & PCB in Soil and Water
841991	2021-12-01	Organochlorine Pesticides	b-BHC	<	0.2	µg/L	LTM-ORG-2220 OCP & PCB in Soil and Water
841991	2021-12-01	Organochlorine Pesticides	Chlordane	<	0.1	mg/kg	LTM-ORG-2220 OCP & PCB in Soil and Water
841991	2021-12-01	Organochlorine Pesticides	Chlordane	<	2	µg/L	LTM-ORG-2220 OCP & PCB in Soil and Water
841991	2021-12-01	Organochlorine Pesticides	d-BHC	<	0.2	µg/L	LTM-ORG-2220 OCP & PCB in Soil and Water
841991	2021-12-01	Organochlorine Pesticides	d-BHC	<	0.05	mg/kg	LTM-ORG-2220 OCP & PCB in Soil and Water
841991	2021-12-01	Organochlorine Pesticides	DDD	<	0.05	mg/kg	LTM-ORG-2220 OCP & PCB in Soil and Water
841991	2021-12-01	Organochlorine Pesticides	DDD	<	0.2	µg/L	LTM-ORG-2220 OCP & PCB in Soil and Water
841991	2021-12-01	Organochlorine Pesticides	DDT	<	0.2	µg/L	LTM-ORG-2220 OCP & PCB in Soil and Water
841991	2021-12-01	Organochlorine Pesticides	DDT	<	0.05	mg/kg	LTM-ORG-2220 OCP & PCB in Soil and Water
841991	2021-12-01	Organochlorine Pesticides	Dieldrin	<	0.2	µg/L	LTM-ORG-2220 OCP & PCB in Soil and Water
841991	2021-12-01	Organochlorine Pestic					

Laboratory Blanks

Laboratory Blanks

Lab Report Number	Analysis Batch	Chem Group	Chem Name	Prefix	Result	Unit	Method Name
841991	2021-12-01	PCBs	Arochlor 1232	<	0.1	mg/kg	LTM-ORG-2220 OCP & PCB in Soil and Water
841991	2021-12-01	PCBs	Arochlor 1232	<	5	µg/L	LTM-ORG-2220 OCP & PCB in Soil and Water
841991	2021-12-01	PCBs	Arochlor 1242	<	5	µg/L	LTM-ORG-2220 OCP & PCB in Soil and Water
841991	2021-12-01	PCBs	Arochlor 1242	<	0.1	mg/kg	LTM-ORG-2220 OCP & PCB in Soil and Water
841991	2021-12-01	PCBs	Arochlor 1248	<	0.1	mg/kg	LTM-ORG-2220 OCP & PCB in Soil and Water
841991	2021-12-01	PCBs	Arochlor 1248	<	5	µg/L	LTM-ORG-2220 OCP & PCB in Soil and Water
841991	2021-12-01	PCBs	Arochlor 1254	<	0.1	mg/kg	LTM-ORG-2220 OCP & PCB in Soil and Water
841991	2021-12-01	PCBs	Arochlor 1254	<	5	µg/L	LTM-ORG-2220 OCP & PCB in Soil and Water
841991	2021-12-01	PCBs	Arochlor 1260	<	0.1	mg/kg	LTM-ORG-2220 OCP & PCB in Soil and Water
841991	2021-12-01	PCBs	Arochlor 1260	<	5	µg/L	LTM-ORG-2220 OCP & PCB in Soil and Water
841991	2021-12-01	PCBs	PCBs (Sum of total)	<	0.1	mg/kg	Polychlorinated Biphenyls (PCBAsq)
841991	2021-12-01	PCBs	PCBs (Sum of total)	<	5	µg/L	Polychlorinated Biphenyls (PCBAsq)
841991	2021-12-01	Pesticides	Parathion	<	2	µg/L	LTM-ORG-2200 Organophosphorus Pesticides by GC-MS
841991	2021-12-01	Pesticides	Parathion	<	0.2	mg/kg	LTM-ORG-2200 Organophosphorus Pesticides by GC-MS
841991	2021-12-01	Pesticides	Pirimiphos-methyl	<	0.02	mg/L	LTM-ORG-2200 Organophosphorus Pesticides by GC-MS
841991	2021-12-01	Pesticides	Pirimiphos-methyl	<	0.2	mg/kg	LTM-ORG-2200 Organophosphorus Pesticides by GC-MS
841991	2021-12-01	TPH	C6-C9 Fraction	<	20	mg/kg	LTM-ORG-2010 TRH C6-C40
841991	2021-12-01	TPH	C6-C9 Fraction	<	20	µg/L	LTM-ORG-2010 TRH C6-C40
841991	2021-12-01	TPH	C10-C14 Fraction	<	20	mg/kg	LTM-ORG-2010 TRH C6-C40
841991	2021-12-01	TPH	C10-C14 Fraction	<	50	µg/L	LTM-ORG-2010 TRH C6-C40
841991	2021-12-01	TPH	C15-C28 Fraction	<	50	mg/kg	LTM-ORG-2010 TRH C6-C40
841991	2021-12-01	TPH	C15-C28 Fraction	<	100	µg/L	LTM-ORG-2010 TRH C6-C40
841991	2021-12-01	TPH	C29-C36 Fraction	<	50	mg/kg	LTM-ORG-2010 TRH C6-C40
841991	2021-12-01	TPH	C29-C36 Fraction	<	100	µg/L	LTM-ORG-2010 TRH C6-C40
844049	2021-12-02	BTEX	Naphthalene (VOC)	<	0.5	mg/kg	LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices
844049	2021-12-02	BTEX	Benzene	<	0.1	mg/kg	LTM-ORG-2010 TRH C6-C40
844049	2021-12-02	BTEX	Toluene	<	0.1	mg/kg	LTM-ORG-2010 TRH C6-C40
844049	2021-12-02	BTEX	Ethylbenzene	<	0.1	mg/kg	LTM-ORG-2010 TRH C6-C40
844049	2021-12-02	BTEX	Xylene (m & p)	<	0.2	mg/kg	LTM-ORG-2010 TRH C6-C40
844049	2021-12-02	BTEX	Xylene (o)	<	0.1	mg/kg	LTM-ORG-2010 TRH C6-C40
844049	2021-12-02	BTEX	Xylene Total	<	0.3	mg/kg	LTM-ORG-2010 TRH C6-C40
844049	2021-12-02	TRH	C6-C10 Fraction (F1)	<	20	mg/kg	LTM-ORG-2010 TRH C6-C40
844049	2021-12-02	TRH	>C10-C16 Fraction (F2)	<	50	mg/kg	LTM-ORG-2010 TRH C6-C40
844049	2021-12-02	TRH	>C16-C34 Fraction (F3)	<	100	mg/kg	LTM-ORG-2010 TRH C6-C40
844049	2021-12-02	TRH	>C34-C40 Fraction (F4)	<	100	mg/kg	LTM-ORG-2010 TRH C6-C40
844049	2021-12-02	Phenols	3&4-Methylphenol (m&p-cresol)	<	0.4	mg/kg	E008 Speciated Phenols
844049	2021-12-02	Phenols	2,4,5-Trichlorophenol	<	1	mg/kg	E008 Speciated Phenols
844049	2021-12-02	Phenols	2,4,6-Trichlorophenol	<	1	mg/kg	E008 Speciated Phenols
844049	2021-12-02	Phenols	2,4-Dichlorophenol	<	0.5	mg/kg	E008 Speciated Phenols
844049	2021-12-02	Phenols	2,4-Dimethylphenol	<	0.5	mg/kg	E008 Speciated Phenols
844049	2021-12-02	Phenols	2,4-Dinitrophenol	<	5	mg/kg	USEPA 8270 Semivolatile Organics
844049	2021-12-02	Phenols	2,6-Dichlorophenol	<	0.5	mg/kg	LTM-ORG-2190 SVOC in Water & Soil by GC-MS
844049	2021-12-02	Phenols	2-Chlorophenol	<	0.5	mg/kg	E008 Speciated Phenols
844049	2021-12-02	Phenols	2-Methylphenol	<	0.2	mg/kg	E008 Speciated Phenols
844049	2021-12-02	Phenols	2-Nitrophenol	<	1	mg/kg	E008 Speciated Phenols
844049	2021-12-02	Phenols	4,6-Dinitro-2-methylphenol	<	5	mg/kg	USEPA 8270 Semivolatile Organics
844049	2021-12-02	Phenols	4,6-Dinitro-o-cyclohexyl phenol	<	20	mg/kg	LTM-ORG-2130 PAH and Phenols in Soil and Water
844049	2021-12-02	Phenols	4-chloro-3-methylphenol	<	1	mg/kg	E008 Speciated Phenols
844049	2021-12-02	Phenols	4-Nitrophenol	<	5	mg/kg	LTM-ORG-2190 SVOC in Water & Soil by GC-MS
844049	2021-12-02	Phenols	Pentachlorophenol	<	1	mg/kg	E008 Speciated Phenols
844049	2021-12-02	Phenols	Tetrachlorophenols	<	10	mg/kg	LTM-ORG-2130 PAH and Phenols in Soil and Water
844049	2021-12-02	Phenols	Phenol	<	0.5	mg/kg	E008 Speciated Phenols
844049	2021-12-02	Phenols	Phenols (Total Non Halogenated)	<	0	mg/kg	LTM-ORG-2130 PAH and Phenols in Soil and Water
844049	2021-12-02	Chlorinated Hydrocarbons	1,1,1,2-tetrachloroethane	<	0.5	mg/kg	E016 Volatile Halogenated Compounds (VHC)
844049	2021-12-02	Chlorinated Hydrocarbons	1,1,1-trichlorethane	<	0.5	mg/kg	E016 Volatile Halogenated Compounds (VHC)
844049	2021-12-02	Chlorinated Hydrocarbons	1,1,2,2-tetrachloroethane	<	0.5	mg/kg	E016 Volatile Halogenated Compounds (VHC)
844049	2021-12-02	Chlorinated Hydrocarbons	1,1,2-trichlorethane	<	0.5	mg/kg	E016 Volatile Halogenated Compounds (VHC)
844049	2021-12-02	Chlorinated Hydrocarbons	1,1-dichloroethane	<	0.5	mg/kg	E016 Volatile Halogenated Compounds (VHC)
844049	2021-12-02	Chlorinated Hydrocarbons	1,1-dichloroethene	<	0.5	mg/kg	E016 Volatile Halogenated Compounds (VHC)
844049	2021-12-02	Chlorinated Hydrocarbons	1,2,3-trichloropropane	<	0.5	mg/kg	E016 Volatile Halogenated Compounds (VHC)
844049	2021-12-02	Chlorinated Hydrocarbons	1,2-dichloroethane	<	0.5	mg/kg	E016 Volatile Halogenated Compounds (VHC)
844049	2021-12-02	Chlorinated Hydrocarbons	1,2-dichloropropane	<	0.5	mg/kg	E016 Volatile Halogenated Compounds (VHC)
844049	2021-12-02	Chlorinated Hydrocarbons	1,3-dichloropropane	<	0.5	mg/kg	E016 Volatile Halogenated Compounds (VHC)
844049	2021-12-02	Chlorinated Hydrocarbons	Bromochloromethane	<	0.5	mg/kg	E016 Volatile Halogenated Compounds (VHC)
844049	2021-12-02	Chlorinated Hydrocarbons	Bromodichloromethane	<	0.5	mg/kg	LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices
844049	2021-12-02	Chlorinated Hydrocarbons	Bromoform	<	0.5	mg/kg	E016 Volatile Halogenated Compounds (VHC)
844049	2021-12-02	Chlorinated Hydrocarbons	Carbon tetrachloride	<	0.5	mg/kg	E016 Volatile Halogenated Compounds (VHC)
844049	2021-12-02	Chlorinated Hydrocarbons	Chlorodibromomethane	<	0.5	mg/kg	LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices
844049	2021-12-02	Chlorinated Hydrocarbons	Chloroethane	<	0.5	mg/kg	LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices
844049	2021-12-02	Chlorinated Hydrocarbons	Chloroform	<	0.5	mg/kg	E016 Volatile Halogenated Compounds (VHC)
844049	2021-12-02	Chlorinated Hydrocarbons	Chloromethane	<	0.5	mg/kg	LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices
844049	2021-12-02	Chlorinated Hydrocarbons	cis-1,2-dichloroethene	<	0.5	mg/kg	E016 Volatile Halogenated Compounds (VHC)
844049	2021-12-02	Chlorinated Hydrocarbons	cis-1,3-dichloropropene	<	0.5	mg/kg	E016 Volatile Halogenated Compounds (VHC)
844049	2021-12-02	Chlorinated Hydrocarbons	Dibromomethane	<	0.5	mg/kg	E016 Volatile Halogenated Compounds (VHC)
844049	2021-12-02	Chlorinated Hydrocarbons	Dichloromethane	<	0.5	mg/kg	E016 Volatile Halogenated Compounds (VHC)
844049	2021-12-02	Chlorinated Hydrocarbons	Trichloroethene	<	0.5	mg/kg	E016 Volatile Halogenated Compounds (VHC)
844049	2021-12-02	Chlorinated Hydrocarbons	Tetrachloroethene	<	0.5	mg/kg	E016 Volatile Halogenated Compounds (VHC)
844049	2021-12-02	Chlorinated Hydrocarbons	trans-1,2-dichloroethene	<	0.5	mg/kg	E016 Volatile Halogenated Compounds (VHC)
844049	2021-12-02	Chlorinated Hydrocarbons	trans-1,3-dichloropropene	<	0.5	mg/kg	E016 Volatile Halogenated Compounds (VHC)
844049	2021-12-02	Chlorinated Hydrocarbons	Vinyl chloride	<	0.5	mg/kg	LTM-ORG-2150 VOCs by Purge Trap GCMS
844049	2021-12-02	Halogenated Benzenes	1,2-dichlorobenzene	<	0.5	mg/kg	E016 Volatile Halogenated Compounds (VHC)
844049	2021-12-02	Halogenated Benzenes	1,3-dichlorobenzene	<	0.5	mg/kg	

Laboratory Blanks

Lab Report Number	Analysis Batch	Chem Group	Chem Name	Prefix	Result	Unit	Method Name
844049	2021-12-02	Metals	Nickel	<	5	mg/kg	LTM-MET-3040 Metals in Waters Soils & Sediments by ICP-MS
844049	2021-12-02	Metals	Zinc	<	5	mg/kg	LTM-MET-3040 Metals in Waters Soils & Sediments by ICP-MS
844049	2021-12-02	Organochlorine Pesticides	4,4-DDE	<	0.05	mg/kg	LTM-ORG-2220 OCP & PCB in Soil and Water
844049	2021-12-02	Organochlorine Pesticides	a-BHC	<	0.05	mg/kg	LTM-ORG-2220 OCP & PCB in Soil and Water
844049	2021-12-02	Organochlorine Pesticides	Aldrin	<	0.05	mg/kg	LTM-ORG-2220 OCP & PCB in Soil and Water
844049	2021-12-02	Organochlorine Pesticides	b-BHC	<	0.05	mg/kg	LTM-ORG-2220 OCP & PCB in Soil and Water
844049	2021-12-02	Organochlorine Pesticides	Chlordane	<	0.1	mg/kg	LTM-ORG-2220 OCP & PCB in Soil and Water
844049	2021-12-02	Organochlorine Pesticides	d-BHC	<	0.05	mg/kg	LTM-ORG-2220 OCP & PCB in Soil and Water
844049	2021-12-02	Organochlorine Pesticides	DDD	<	0.05	mg/kg	LTM-ORG-2220 OCP & PCB in Soil and Water
844049	2021-12-02	Organochlorine Pesticides	DDT	<	0.05	mg/kg	LTM-ORG-2220 OCP & PCB in Soil and Water
844049	2021-12-02	Organochlorine Pesticides	Dieldrin	<	0.05	mg/kg	LTM-ORG-2220 OCP & PCB in Soil and Water
844049	2021-12-02	Organochlorine Pesticides	Endosulfan I	<	0.05	mg/kg	LTM-ORG-2220 OCP & PCB in Soil and Water
844049	2021-12-02	Organochlorine Pesticides	Endosulfan II	<	0.05	mg/kg	LTM-ORG-2220 OCP & PCB in Soil and Water
844049	2021-12-02	Organochlorine Pesticides	Endosulfan sulphate	<	0.05	mg/kg	LTM-ORG-2220 OCP & PCB in Soil and Water
844049	2021-12-02	Organochlorine Pesticides	Endrin	<	0.05	mg/kg	LTM-ORG-2220 OCP & PCB in Soil and Water
844049	2021-12-02	Organochlorine Pesticides	Endrin aldehyde	<	0.05	mg/kg	LTM-ORG-2220 OCP & PCB in Soil and Water
844049	2021-12-02	Organochlorine Pesticides	Endrin ketone	<	0.05	mg/kg	LTM-ORG-2220 OCP & PCB in Soil and Water
844049	2021-12-02	Organochlorine Pesticides	g-BHC (Lindane)	<	0.05	mg/kg	LTM-ORG-2220 OCP & PCB in Soil and Water
844049	2021-12-02	Organochlorine Pesticides	Heptachlor	<	0.05	mg/kg	LTM-ORG-2220 OCP & PCB in Soil and Water
844049	2021-12-02	Organochlorine Pesticides	Heptachlor epoxide	<	0.05	mg/kg	LTM-ORG-2220 OCP & PCB in Soil and Water
844049	2021-12-02	Organochlorine Pesticides	Methoxychlor	<	0.05	mg/kg	LTM-ORG-2220 OCP & PCB in Soil and Water
844049	2021-12-02	Organochlorine Pesticides	Toxaphene	<	0.5	mg/kg	LTM-ORG-2220 OCP & PCB in Soil and Water
844049	2021-12-02	Organophosphorous Pesticides	Tokuthion	<	0.2	mg/kg	LTM-ORG-2200 Organophosphorus Pesticides by GC-MS
844049	2021-12-02	Organophosphorous Pesticides	Azinphos methyl	<	0.2	mg/kg	LTM-ORG-2200 Organophosphorus Pesticides by GC-MS
844049	2021-12-02	Organophosphorous Pesticides	Bolstar (Sulprofos)	<	0.2	mg/kg	LTM-ORG-2200 Organophosphorus Pesticides by GC-MS
844049	2021-12-02	Organophosphorous Pesticides	Chlорenvinphos	<	0.2	mg/kg	LTM-ORG-2200 Organophosphorus Pesticides by GC-MS
844049	2021-12-02	Organophosphorous Pesticides	Chlorpyrifos	<	0.2	mg/kg	LTM-ORG-2200 Organophosphorus Pesticides by GC-MS
844049	2021-12-02	Organophosphorous Pesticides	Chlorpyrifos-methyl	<	0.2	mg/kg	LTM-ORG-2200 Organophosphorus Pesticides by GC-MS
844049	2021-12-02	Organophosphorous Pesticides	Coumaphos	<	2	mg/kg	LTM-ORG-2200 Organophosphorus Pesticides by GC-MS
844049	2021-12-02	Organophosphorous Pesticides	Demeton-O	<	0.2	mg/kg	LTM-ORG-2200 Organophosphorus Pesticides by GC-MS
844049	2021-12-02	Organophosphorous Pesticides	Demeton-S	<	0.2	mg/kg	LTM-ORG-2200 Organophosphorus Pesticides by GC-MS
844049	2021-12-02	Organophosphorous Pesticides	Diazinon	<	0.2	mg/kg	LTM-ORG-2200 Organophosphorus Pesticides by GC-MS
844049	2021-12-02	Organophosphorous Pesticides	Dichlorvos	<	0.2	mg/kg	LTM-ORG-2200 Organophosphorus Pesticides by GC-MS
844049	2021-12-02	Organophosphorous Pesticides	Dimethoate	<	0.2	mg/kg	LTM-ORG-2200 Organophosphorus Pesticides by GC-MS
844049	2021-12-02	Organophosphorous Pesticides	Disulfoton	<	0.2	mg/kg	LTM-ORG-2200 Organophosphorus Pesticides by GC-MS
844049	2021-12-02	Organophosphorous Pesticides	Ethion	<	0.2	mg/kg	LTM-ORG-2200 Organophosphorus Pesticides by GC-MS
844049	2021-12-02	Organophosphorous Pesticides	Ethoprop	<	0.2	mg/kg	LTM-ORG-2200 Organophosphorus Pesticides by GC-MS
844049	2021-12-02	Organophosphorous Pesticides	Fenitrothion	<	0.2	mg/kg	LTM-ORG-2200 Organophosphorus Pesticides by GC-MS
844049	2021-12-02	Organophosphorous Pesticides	Fensulfothion	<	0.2	mg/kg	LTM-ORG-2200 Organophosphorus Pesticides by GC-MS
844049	2021-12-02	Organophosphorous Pesticides	Fenthion	<	0.2	mg/kg	LTM-ORG-2200 Organophosphorus Pesticides by GC-MS
844049	2021-12-02	Organophosphorous Pesticides	EPN	<	0.2	mg/kg	LTM-ORG-2200 Organophosphorus Pesticides by GC-MS
844049	2021-12-02	Organophosphorous Pesticides	Malathion	<	0.2	mg/kg	LTM-ORG-2200 Organophosphorus Pesticides by GC-MS
844049	2021-12-02	Organophosphorous Pesticides	Merphos	<	0.2	mg/kg	LTM-ORG-2200 Organophosphorus Pesticides by GC-MS
844049	2021-12-02	Organophosphorous Pesticides	Methyl parathion	<	0.2	mg/kg	LTM-ORG-2200 Organophosphorus Pesticides by GC-MS
844049	2021-12-02	Organophosphorous Pesticides	Mevinphos (Phosdrin)	<	0.2	mg/kg	LTM-ORG-2200 Organophosphorus Pesticides by GC-MS
844049	2021-12-02	Organophosphorous Pesticides	Monocrotophos	<	2	mg/kg	LTM-ORG-2200 Organophosphorus Pesticides by GC-MS
844049	2021-12-02	Organophosphorous Pesticides	Naled (Dibrom)	<	0.2	mg/kg	LTM-ORG-2200 Organophosphorus Pesticides by GC-MS
844049	2021-12-02	Organophosphorous Pesticides	Omethoate	<	2	mg/kg	LTM-ORG-2200 Organophosphorus Pesticides by GC-MS
844049	2021-12-02	Organophosphorous Pesticides	Phorate	<	0.2	mg/kg	LTM-ORG-2200 Organophosphorus Pesticides by GC-MS
844049	2021-12-02	Organophosphorous Pesticides	Pyrazophos	<	0.2	mg/kg	LTM-ORG-2200 Organophosphorus Pesticides by GC-MS
844049	2021-12-02	Organophosphorous Pesticides	Ronnel	<	0.2	mg/kg	LTM-ORG-2200 Organophosphorus Pesticides by GC-MS
844049	2021-12-02	Organophosphorous Pesticides	Terbufos	<	0.2	mg/kg	LTM-ORG-2200 Organophosphorus Pesticides by GC-MS
844049	2021-12-02	Organophosphorous Pesticides	Trichloronate	<	0.2	mg/kg	LTM-ORG-2200 Organophosphorus Pesticides by GC-MS
844049	2021-12-02	Organophosphorous Pesticides	Tetrachlorvinphos	<	0.2	mg/kg	LTM-ORG-2200 Organophosphorus Pesticides by GC-MS
844049	2021-12-02	PAH	Acenaphthene	<	0.5	mg/kg	LTM-ORG-2130 PAH and Phenols in Soil and Water
844049	2021-12-02	PAH	Acenaphthylene	<	0.5	mg/kg	LTM-ORG-2130 PAH and Phenols in Soil and Water
844049	2021-12-02	PAH	Anthracene	<	0.5	mg/kg	LTM-ORG-2130 PAH and Phenols in Soil and Water
844049	2021-12-02	PAH	Benz(a)anthracene	<	0.5	mg/kg	LTM-ORG-2130 PAH and Phenols in Soil and Water
844049	2021-12-02	PAH	Benz(a) pyrene	<	0.5	mg/kg	LTM-ORG-2130 PAH and Phenols in Soil and Water
844049	2021-12-02	PAH	Benz(b+)fluoranthene	<	0.5	mg/kg	LTM-ORG-2130 PAH and Phenols in Soil and Water
844049	2021-12-02	PAH	Benzo(g,h,i)perylene	<	0.5	mg/kg	LTM-ORG-2130 PAH and Phenols in Soil and Water
844049	2021-12-02	PAH	Benzo(k)fluoranthene	<	0.5	mg/kg	LTM-ORG-2130 PAH and Phenols in Soil and Water
844049	2021-12-02	PAH	Chrysene	<	0.5	mg/kg	LTM-ORG-2130 PAH and Phenols in Soil and Water
844049	2021-12-02	PAH	Dibenz(a,h)anthracene	<	0.5	mg/kg	LTM-ORG-2130 PAH and Phenols in Soil and Water
844049	2021-12-02	PAH	Fluoranthene	<	0.5	mg/kg	LTM-ORG-2130 PAH and Phenols in Soil and Water
844049	2021-12-02	PAH	Fluorene	<	0.5	mg/kg	LTM-ORG-2130 PAH and Phenols in Soil and Water
844049	2021-12-02	PAH	Indeno(1,2,3-c,d)pyrene	<	0.5	mg/kg	LTM-ORG-2130 PAH and Phenols in Soil and Water
844049	2021-12-02	PAH	Naphthalene	<	0.5	mg/kg	LTM-ORG-2130 PAH and Phenols in Soil and Water
844049	2021-12-02	PAH	Phenanthrene	<	0.5	mg/kg	LTM-ORG-2130 PAH and Phenols in Soil and Water
844049	2021-12-02	PAH	Pyrene	<	0.5	mg/kg	LTM-ORG-2130 PAH and Phenols in Soil and Water
844049	2021-12-02	Pesticides	Parathion	<	0.2	mg/kg	LTM-ORG-2200 Organophosphorus Pesticides by GC-MS
844049	2021-12-02	Pesticides	Pirimiphos-methyl	<	0.2	mg/kg	LTM-ORG-2200 Organophosphorus Pesticides by GC-MS
844049	2021-12-02	Solvents	Methyl Ethyl Ketone	<	0.5	mg/kg	LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices
844049	2021-12-02	Solvents	4-Methyl-2-pentanone	<	0.5	mg/kg	E016 Volatile Organic Compounds (VOC)
844049	2021-12-02	Solvents	Acetone	<	0.5	mg/kg	E016 Volatile Organic Compounds (VOC)
844049	2021-12-02	Solvents	Allyl chloride	<	0.5	mg/kg	LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices
844049	2021-12-02	Solvents	Carbon disulfide	<	0.5	mg/kg	LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices
844049	2021-12-02	TPH	C6-C9 Fraction	<	20	mg/kg	LTM-ORG-2010 TRH C6-C40
844049	2021-12-02	TPH	C10-C14 Fraction	<	20	mg/kg	LTM-ORG-2010 TRH C6-C40
844049							

Matrix Spikes

Lab Report Number	Matrix Type	Analysis Batch	Field ID	Sampled Date/Time	Chem Group	Chem Name	Result	LCL	UCL
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP1_0.5	17/11/2021 BTEX	Ethylbenzene	97			
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP1_0.5	17/11/2021 BTEX	Xylene (m & p)	83			
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP1_0.5	17/11/2021 BTEX	Toluene	101			
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP1_0.5	17/11/2021 Surrogate	Fluorobenzene (surr.)	98			
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP1_0.5	17/11/2021 BTEX	Benzene	104			
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP1_0.5	17/11/2021 BTEX	Xylene (o)	98			
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP1_0.5	17/11/2021 Halogenated Benzenes	Hexachlorobenzene	117			
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP1_0.5	17/11/2021 PAH	Anthracene	100			
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP1_0.5	17/11/2021 PCBs	Arochlor 1016	110			
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP1_0.5	17/11/2021 PAH	Pyrene	74			
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP1_0.5	17/11/2021 Phenols	4-Terphenyl-d14	100			
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP1_0.5	17/11/2021 PAH	Fluoranthene	135			
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP1_0.5	17/11/2021 Organophosphorous Pesticides	Chlorpyrifos	130			
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP1_0.5	17/11/2021 Organochlorine Pesticides	Aldrin	130			
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP1_0.5	17/11/2021 Phenols	2-Fluorobiphenyl	101			
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP1_0.5	17/11/2021 Organophosphorous Pesticides	Diazinon	131			
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP1_0.5	17/11/2021 Organochlorine Pesticides	Endrin	95			
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP1_0.5	17/11/2021 PAH	Acenaphthene	121			
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP1_0.5	17/11/2021 PAH	Phenanthrene	125			
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP1_0.5	17/11/2021 Organochlorine Pesticides	Tetrachlorometaxylene	107			
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP1_0.5	17/11/2021 PAH	Naphthalene	114			
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP1_0.5	17/11/2021 TPH	C10-C14 Fraction	119			
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP1_0.5	17/11/2021 TRH	>C10-C16 Fraction (F2)	121			
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP1_0.5	17/11/2021 Metals	Lead	96			
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP1_0.5	17/11/2021 Metals	Mercury	100			
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP1_0.5	17/11/2021 Metals	Nickel	102			
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP1_0.5	17/11/2021 Metals	Arsenic	91			
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP1_0.5	17/11/2021 Metals	Cadmium	97			
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP1_0.5	17/11/2021 Metals	Chromium (III+VI)	96			
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP1_0.5	17/11/2021 Metals	Copper	94			
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP1_0.5	17/11/2021 Metals	Zinc	98			
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP12_0.3	24/11/2021 BTEX	Toluene	134			
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP12_0.3	24/11/2021 Halogenated Benzenes	Chlorobenzene	126			
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP12_0.3	24/11/2021 Surrogate	1,2-Dichloroethane-d4	133			
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP12_0.3	24/11/2021 Surrogate	Toluene-D8	129			
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP12_0.3	24/11/2021 Surrogate	4-Bromofluorobenzene	111			
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP12_0.3	24/11/2021 Surrogate	Fluorobenzene	121			
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP12_0.3	24/11/2021 BTEX	Benzene	139			
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP12_0.3	24/11/2021 Chlorinated Hydrocarbons	1,1-dichloroethene	135			
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP12_0.3	24/11/2021 Chlorinated Hydrocarbons	Trichloroethene	112			
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP12_0.3	24/11/2021 Phenols	Phenol-D6	62			
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP12_0.3	24/11/2021 Phenols	Cresol Total	69			
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP12_0.3	24/11/2021 Phenols	2-Chloropheonol-D4	73			
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP12_0.3	24/11/2021 Phenols	2,6-Dichlorophenol	73			
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP12_0.3	24/11/2021 Herbicides	Dinoseb	85			
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP12_0.3	24/11/2021 Phenols	2-Methylphenol	66			
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP12_0.3	24/11/2021 Phenols	2-Chlorophenol	71			
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP12_0.3	24/11/2021 Halogenated Benzenes	Hexachlorobenzene	88			
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP12_0.3	24/11/2021 PAH	Anthracene	94			
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP12_0.3	24/11/2021 PCBs	Arochlor 1016	92			
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP12_0.3	24/11/2021 PAH	Pyrene	81			
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP12_0.3	24/11/2021 Phenols	4-Terphenyl-d14	73			
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP12_0.3	24/11/2021 PAH	Fluoranthene	78			
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP12_0.3	24/11/2021 Organophosphorous Pesticides	Chlorpyrifos	71			
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP12_0.3	24/11/2021 Organochlorine Pesticides	Aldrin	79			
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP12_0.3	24/11/2021 Phenols	2-Fluorobiphenyl	96			
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP12_0.3	24/11/2021 Organophosphorous Pesticides	Diazinon	74			
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP12_0.3	24/11/2021 Organochlorine Pesticides	Endrin	99			
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP12_0.3	24/11/2021 PAH	Acenaphthene	132			
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP12_0.3	24/11/2021 PAH	Phenanthrene	83			
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP12_0.3	24/11/2021 Organochlorine Pesticides	Tetrachlorometaxylene	96			
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP12_0.3	24/11/2021 PAH	Naphthalene	88			
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP12_0.3	24/11/2021 TPH	C10-C14 Fraction	120			
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP12_0.3	24/11/2021 TRH	>C10-C16 Fraction (F2)	120			
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP2_0.9	24/11/2021 BTEX	Ethylbenzene	96			
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP2_0.9	24/11/2021 BTEX	Xylene (m & p)	78			
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP2_0.9	24/11/2021 BTEX	Toluene	97			
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP2_0.9	24/11/2021 Surrogate	Fluorobenzene (surr.)</td				

Matrix Spikes

Lab Report Number	Matrix Type	Analysis Batch	Field ID	Sampled Date/Time	Chem Group	Chem Name	Result	LCL	UCL
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP24_1.0	24/11/2021 BTEX		Toluene	114		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP24_1.0	24/11/2021 Surrogate		Fluorobenzene (surr.)	103		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP24_1.0	24/11/2021 BTEX		Benzene	118		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP24_1.0	24/11/2021 BTEX		Xylene (o)	116		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP24_1.0	24/11/2021 Halogenated Benzenes		Hexachlorobenzene	73		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP24_1.0	24/11/2021 PAH		Anthracene	74		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP24_1.0	24/11/2021 PCBs		Arochlor 1016	85		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP24_1.0	24/11/2021 PAH		Pyrene	79		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP24_1.0	24/11/2021 Phenols		4-Terphenyl-d14	84		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP24_1.0	24/11/2021 PAH		Fluoranthene	83		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP24_1.0	24/11/2021 Organophosphorous Pesticides		Chlorpyrifos	63		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP24_1.0	24/11/2021 Organochlorine Pesticides		Aldrin	80		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP24_1.0	24/11/2021 Phenols		2-Fluorobiphenyl	78		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP24_1.0	24/11/2021 Organophosphorous Pesticides		Diazinon	61		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP24_1.0	24/11/2021 Organochlorine Pesticides		Endrin	78		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP24_1.0	24/11/2021 PAH		Acenaphthene	102		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP24_1.0	24/11/2021 PAH		Phenanthrene	83		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP24_1.0	24/11/2021 Organochlorine Pesticides		Tetrachlorometylene	80		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP24_1.0	24/11/2021 PAH		Naphthalene	73		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP24_1.0	24/11/2021 TPH		C10-C14 Fraction	102		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP24_1.0	24/11/2021 TRH		>C10-C16 Fraction (F2)	104		
841991	Soil	2021-12-01		15/11/2021 TPH		C10-C14 Fraction	94		
841991	Soil	2021-12-01		15/11/2021 TRH		>C10-C16 Fraction (F2)	88		
841991	Soil	2021-12-01		15/11/2021 Organochlorine Pesticides		Heptachlor epoxide	114		
841991	Soil	2021-12-01		15/11/2021 Organochlorine Pesticides		Endosulfan sulphate	117		
841991	Soil	2021-12-01		15/11/2021 PCBs		Arochlor 1260	84		
841991	Soil	2021-12-01		15/11/2021 Halogenated Benzenes		Hexachlorobenzene	119		
841991	Soil	2021-12-01		15/11/2021 PAH		Anthracene	110		
841991	Soil	2021-12-01		15/11/2021 PCBs		Arochlor 1016	82		
841991	Soil	2021-12-01		15/11/2021 PAH		Pyrene	112		
841991	Soil	2021-12-01		15/11/2021 PAH		Benz(o,g,h,i)perylene	90		
841991	Soil	2021-12-01		15/11/2021 PAH		Indeno(1,2,3-c,d)pyrene	105		
841991	Soil	2021-12-01		15/11/2021 PAH		Benz(o,b+j)fluoranthene	99		
841991	Soil	2021-12-01		15/11/2021 PAH		Fluoranthene	113		
841991	Soil	2021-12-01		15/11/2021 PAH		Benz(o,k)fluoranthene	105		
841991	Soil	2021-12-01		15/11/2021 PAH		Acenaphthylene	110		
841991	Soil	2021-12-01		15/11/2021 PAH		Chrysene	101		
841991	Soil	2021-12-01		15/11/2021 Organochlorine Pesticides		Aldrin	110		
841991	Soil	2021-12-01		15/11/2021 Organochlorine Pesticides		a-BHC	122		
841991	Soil	2021-12-01		15/11/2021 Organochlorine Pesticides		b-BHC	122		
841991	Soil	2021-12-01		15/11/2021 Organochlorine Pesticides		d-BHC	114		
841991	Soil	2021-12-01		15/11/2021 Organochlorine Pesticides		Endosulfan II	108		
841991	Soil	2021-12-01		15/11/2021 PAH		Benz(o,a) pyrene	105		
841991	Soil	2021-12-01		15/11/2021 Organochlorine Pesticides		Endrin ketone	123		
841991	Soil	2021-12-01		15/11/2021 PAH		Dibenz(a,h)anthracene	101		
841991	Soil	2021-12-01		15/11/2021 PAH		Benz(o,a)anthracene	105		
841991	Soil	2021-12-01		15/11/2021 Organochlorine Pesticides		Chlordane	116		
841991	Soil	2021-12-01		15/11/2021 Organochlorine Pesticides		g-BHC (Lindane)	128		
841991	Soil	2021-12-01		15/11/2021 Organochlorine Pesticides		Dieldrin	118		
841991	Soil	2021-12-01		15/11/2021 Organochlorine Pesticides		DDD	112		
841991	Soil	2021-12-01		15/11/2021 Organochlorine Pesticides		4,4-DDE	119		
841991	Soil	2021-12-01		15/11/2021 Organochlorine Pesticides		Endrin aldehyde	90		
841991	Soil	2021-12-01		15/11/2021 PAH		Acenaphthene	106		
841991	Soil	2021-12-01		15/11/2021 PAH		Phenanthrene	104		
841991	Soil	2021-12-01		15/11/2021 PAH		Fluorene	111		
841991	Soil	2021-12-01		15/11/2021 PAH		Naphthalene	112		
841991	Soil	2021-12-01		15/11/2021 Organochlorine Pesticides		Endosulfan I	107		
841991	Soil	2021-12-01		15/11/2021 Metals		Lead	89		
841991	Soil	2021-12-01		15/11/2021 Metals		Mercury	87		
841991	Soil	2021-12-01		15/11/2021 Metals		Nickel	88		
841991	Soil	2021-12-01		15/11/2021 Metals		Arsenic	92		
841991	Soil	2021-12-01		15/11/2021 Metals		Cadmium	86		
841991	Soil	2021-12-01		15/11/2021 Metals		Chromium (III+VI)	90		
841991	Soil	2021-12-01		15/11/2021 Metals		Copper	85		
841991	Soil	2021-12-01		15/11/2021 Metals		Zinc	83		
841991	Water	2021-12-01		15/11/2021 PAH		Anthracene	125		
841991	Water	2021-12-01		15/11/2021 PAH		Pyrene	124		
841991	Water	2021-12-01		15/11/2021 PAH		Benz(o,g,h,i)perylene	128		
841991	Water	2021-12-01		15/11/2021 PAH		Fluoranthene	123		
841991	Water	2021-12-01		15/11/2021 PAH		Acenaphthylene	125		
841991	Water	2021-12-01		15/11/2021 PAH		Chrysene	121		
841991	Water	2021-12-01		15/11/2021 PAH		Benz(o,a) pyrene	126		
841991	Water	2021-12-01		15/11/2021 PAH		Dibenz(a,h)anthracene	127		
841991	Water	2021-12-01		15/11/2021 PAH		Benz(o,a)anthracene	119		
841991	Water	2021-12-01		15/11/2021 PAH		Acenaphthene	124		
841991	Water	2021-12-01		15/11/2021 PAH		Phenanthrene	125		
841991	Water	2021-12-01		15/11/2021 PAH		Naphthalene	129		
841991	Water	2021-12-01		15/11/2021 BTEX		Ethylbenzene	104		
841991	Water	2021-12-01							

Matrix Spikes

Lab Report Number	Matrix Type	Analysis Batch	Field ID	Sampled Date/Time	Chem Group	Chem Name	Result	LCL	UCL
844049	Soil	2021-12-02		23/11/2021 TPH	C10-C14 Fraction		96		
844049	Soil	2021-12-02		23/11/2021 TRH	>C10-C16 Fraction (F2)		91		
844049	Soil	2021-12-02		23/11/2021 Metals	Zinc		98		
844049	Soil	2021-12-02		23/11/2021 Metals	Lead		112		
844049	Soil	2021-12-02		23/11/2021 Metals	Mercury		115		
844049	Soil	2021-12-02		23/11/2021 Metals	Nickel		107		
844049	Soil	2021-12-02		23/11/2021 Metals	Arsenic		110		
844049	Soil	2021-12-02		23/11/2021 Metals	Cadmium		114		
844049	Soil	2021-12-02		23/11/2021 Metals	Chromium (III+VI)		110		
844049	Soil	2021-12-02		23/11/2021 Metals	Copper		102		

Trip Spikes

Lab Report Number	Matrix Type	Analysis Batch	Field ID	Sampled Date/Time	Chem Group	Chem Name	Trip Spike Result	Trip Spike Control	Result Units	Spike Recovery %	LCL	UCL	Method Name	Lab Sample ID	Sample Type
21.1508 (536-537)	Water	2021-11-16	TS1	17/11/2021		Ethylbenzene	NA	NA		133			ESA-P-ORG08 & ORG10	2021037537	Trip_S
21.1508 (536-537)	Water	2021-11-16	TS1	17/11/2021		Xylene (m & p)	NA	NA		121			ESA-P-ORG08 & ORG10	2021037537	Trip_S
21.1508 (536-537)	Water	2021-11-16	TS1	17/11/2021		Toluene	NA	NA		134			ESA-P-ORG08 & ORG10	2021037537	Trip_S
21.1508 (536-537)	Water	2021-11-16	TS1	17/11/2021		Benzene	NA	NA		129			ESA-P-ORG08 & ORG10	2021037537	Trip_S
21.1508 (536-537)	Water	2021-11-16	TS1	17/11/2021		Xylene (o)	NA	NA		135			ESA-P-ORG08 & ORG10	2021037537	Trip_S
21.1508 (798-801)	Water	2021-11-24	TS2	25/11/2021		Ethylbenzene	NA	NA		126			ESA-P-ORG08 & ORG10	2021038799	Trip_S
21.1508 (798-801)	Water	2021-11-24	TS2	25/11/2021		Xylene (m & p)	NA	NA		127			ESA-P-ORG08 & ORG10	2021038799	Trip_S
21.1508 (798-801)	Water	2021-11-24	TS2	25/11/2021		Toluene	NA	NA		120			ESA-P-ORG08 & ORG10	2021038799	Trip_S
21.1508 (798-801)	Water	2021-11-24	TS2	25/11/2021		Benzene	NA	NA		117			ESA-P-ORG08 & ORG10	2021038799	Trip_S
21.1508 (798-801)	Water	2021-11-24	TS2	25/11/2021		Xylene (o)	NA	NA		131			ESA-P-ORG08 & ORG10	2021038799	Trip_S
21.1508 (798-801)	Water	2021-11-24	TS3	25/11/2021		Ethylbenzene	NA	NA		133			ESA-P-ORG08 & ORG10	2021038801	Trip_S
21.1508 (798-801)	Water	2021-11-24	TS3	25/11/2021		Xylene (m & p)	NA	NA		122			ESA-P-ORG08 & ORG10	2021038801	Trip_S
21.1508 (798-801)	Water	2021-11-24	TS3	25/11/2021		Toluene	NA	NA		123			ESA-P-ORG08 & ORG10	2021038801	Trip_S
21.1508 (798-801)	Water	2021-11-24	TS3	25/11/2021		Benzene	NA	NA		115			ESA-P-ORG08 & ORG10	2021038801	Trip_S
21.1508 (798-801)	Water	2021-11-24	TS3	25/11/2021		Xylene (o)	NA	NA		137			ESA-P-ORG08 & ORG10	2021038801	Trip_S

Surrogates

Lab Report Number	Matrix Type	Analysis Batch	Field ID	Sampled Date/Time	Chem Group	Chem Name	Result	LCL	UCL
21.1508 (511-533)	Soil			12/11/2021	Surrogate	1,2-Dichloroethane-d4	112		
21.1508 (511-533)	Soil			12/11/2021	Surrogate	Toluene-D8	124		
21.1508 (511-533)	Soil			12/11/2021	Surrogate	4-Bromofluorobenzene	105		
21.1508 (511-533)	Soil			12/11/2021	BTEX	Trifluorotoluene	120		
21.1508 (511-533)	Soil			16/11/2021	Phenols	Phenol-D6	115		
21.1508 (511-533)	Soil			16/11/2021	Phenols	2-Chloropheonl-D4	138		
21.1508 (511-533)	Soil			17/11/2021	Phenols	4-Terphenyl-d14	116		
21.1508 (511-533)	Soil			17/11/2021	Phenols	4-Terphenyl-d14	84		
21.1508 (511-533)	Soil			17/11/2021	Phenols	2-Fluorobiphenyl	91		
21.1508 (511-533)	Soil			17/11/2021	Phenols	2-Fluorobiphenyl	117		
21.1508 (511-533)	Soil			17/11/2021	Surrogate	Fluorobenzene (surr.)	92		
21.1508 (511-533)	Soil			17/11/2021	Organochlorine Pesticides	Tetrachlorometaxylene	124		
21.1508 (511-533)	Soil			17/11/2021	Organochlorine Pesticides	Tetrachlorometaxylene	138		
21.1508 (511-533)	Soil	2021-11-16	WAC1.BR1	17/11/2021	Phenols	4-Terphenyl-d14	97		
21.1508 (511-533)	Soil	2021-11-16	WAC1.BR1	17/11/2021	Phenols	2-Fluorobiphenyl	119		
21.1508 (511-533)	Soil	2021-11-16	WAC1.BR1	17/11/2021	Surrogate	Fluorobenzene (surr.)	92	60	140
21.1508 (511-533)	Soil	2021-11-16	WAC1.BR1	17/11/2021	Organochlorine Pesticides	Tetrachlorometaxylene	132		
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP1_0.5	17/11/2021	Phenols	4-Terphenyl-d14	112		
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP1_0.5	17/11/2021	Phenols	4-Terphenyl-d14	100		
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP1_0.5	17/11/2021	Phenols	2-Fluorobiphenyl	129		
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP1_0.5	17/11/2021	Phenols	2-Fluorobiphenyl	101		
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP1_0.5	17/11/2021	Surrogate	Fluorobenzene (surr.)	96	60	140
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP1_0.5	17/11/2021	Surrogate	Fluorobenzene (surr.)	98		
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP1_0.5	17/11/2021	Organochlorine Pesticides	Tetrachlorometaxylene	133		
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP1_0.5	17/11/2021	Organochlorine Pesticides	Tetrachlorometaxylene	107		
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP1_1.8	17/11/2021	Phenols	4-Terphenyl-d14	90		
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP1_1.8	17/11/2021	Phenols	2-Fluorobiphenyl	116		
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP1_1.8	17/11/2021	Surrogate	Fluorobenzene (surr.)	94	60	140
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP1_1.8	17/11/2021	Organochlorine Pesticides	Tetrachlorometaxylene	135		
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP10_0.2	17/11/2021	Phenols	Phenol-D6	78		
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP10_0.2	17/11/2021	Surrogate	1,2-Dichloroethane-d4	117		
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP10_0.2	17/11/2021	Phenols	4-Terphenyl-d14	98		
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP10_0.2	17/11/2021	Surrogate	Toluene-D8	124		
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP10_0.2	17/11/2021	Phenols	2-Chloropheonl-D4	92		
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP10_0.2	17/11/2021	Phenols	2-Fluorobiphenyl	107		
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP10_0.2	17/11/2021	Surrogate	4-Bromofluorobenzene	110		
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP10_0.2	17/11/2021	Organochlorine Pesticides	Tetrachlorometaxylene	131		
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP10_0.2	17/11/2021	BTEX	Trifluorotoluene	132		
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP10_0.5	17/11/2021	Phenols	Phenol-D6	88		
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP10_0.5	17/11/2021	Surrogate	1,2-Dichloroethane-d4	113		
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP10_0.5	17/11/2021	Phenols	4-Terphenyl-d14	93		
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP10_0.5	17/11/2021	Surrogate	Toluene-D8	125		
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP10_0.5	17/11/2021	Phenols	2-Chloropheonl-D4	106		
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP10_0.5	17/11/2021	Phenols	2-Fluorobiphenyl	123		
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP10_0.5	17/11/2021	Surrogate	4-Bromofluorobenzene	109		
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP10_0.5	17/11/2021	Organochlorine Pesticides	Tetrachlorometaxylene	132		
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP10_0.5	17/11/2021	BTEX	Trifluorotoluene	133		
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP10_0.8	17/11/2021	Phenols	4-Terphenyl-d14	116		
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP10_0.8	17/11/2021	Phenols	2-Fluorobiphenyl	94		
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP10_0.8	17/11/2021	Surrogate	Fluorobenzene (surr.)	86	60	140
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP10_0.8	17/11/2021	Organochlorine Pesticides	Tetrachlorometaxylene	105		
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP11_0.3	17/11/2021	Phenols	4-Terphenyl-d14	115		
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP11_0.3	17/11/2021	Phenols	2-Fluorobiphenyl	116		
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP11_0.3	17/11/2021	Surrogate	Fluorobenzene (surr.)	87	60	140
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP11_0.3	17/11/2021	Organochlorine Pesticides	Tetrachlorometaxylene	136		
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP11_0.5	17/11/2021	Phenols	4-Terphenyl-d14	107		
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP11_0.5	17/11/2021	Phenols	2-Fluorobiphenyl	109		
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP11_0.5	17/11/2021	Surrogate	Fluorobenzene (surr.)	86	60	140
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP11_0.5	17/11/2021	Organochlorine Pesticides	Tetrachlorometaxylene	100		
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP2_0.5	17/11/2021	Phenols	4-Terphenyl-d14	138		
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP2_0.5	17/11/2021	Phenols	2-Fluorobiphenyl	139		
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP2_0.5	17/11/2021	Surrogate	Fluorobenzene (surr.)	81	60	140
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP2_0.5	17/11/2021	Organochlorine Pesticides	Tetrachlorometaxylene	88		
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP3_0.5	17/11/2021	Phenols	4-Terphenyl-d14	99		
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP3_0.5	17/11/2021	Surrogate	2-Fluorobiphenyl	130		
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP3_0.5	17/11/2021	Phenols	Fluorobenzene (surr.)	124	60	140
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP3_0.5	17/11/2021	Surrogate	Tetrachlorometaxylene	103		
21.1508 (511-533)	Soil								

Surrogates

Lab Report Number	Matrix Type	Analysis Batch	Field ID	Sampled Date/Time	Chem Group	Chem Name	Result	LCL	UCL
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP7_0.7	17/11/2021	Phenols	4-Terphenyl-d14	112		
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP7_0.7	17/11/2021	Phenols	2-Fluorobiphenyl	126		
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP7_0.7	17/11/2021	Surrogate	Fluorobenzene (surr.)	109	60	140
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP7_0.7	17/11/2021	Organochlorine Pesticides	Tetrachlorometaxylene	137		
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP8_0.2	17/11/2021	Phenols	4-Terphenyl-d14	90		
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP8_0.2	17/11/2021	Phenols	2-Fluorobiphenyl	100		
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP8_0.2	17/11/2021	Surrogate	Fluorobenzene (surr.)	84	60	140
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP8_0.2	17/11/2021	Organochlorine Pesticides	Tetrachlorometaxylene	122		
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP8_0.5	17/11/2021	Phenols	4-Terphenyl-d14	115		
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP8_0.5	17/11/2021	Phenols	2-Fluorobiphenyl	138		
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP8_0.5	17/11/2021	Surrogate	Fluorobenzene (surr.)	85	60	140
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP8_0.5	17/11/2021	Organochlorine Pesticides	Tetrachlorometaxylene	112		
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP9_0.2	17/11/2021	Phenols	4-Terphenyl-d14	113		
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP9_0.2	17/11/2021	Phenols	2-Fluorobiphenyl	117		
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP9_0.2	17/11/2021	Surrogate	Fluorobenzene (surr.)	88	60	140
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP9_0.2	17/11/2021	Organochlorine Pesticides	Tetrachlorometaxylene	124		
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP9_0.5	17/11/2021	Phenols	4-Terphenyl-d14	123		
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP9_0.5	17/11/2021	Phenols	2-Fluorobiphenyl	118		
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP9_0.5	17/11/2021	Surrogate	Fluorobenzene (surr.)	101	60	140
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP9_0.5	17/11/2021	Organochlorine Pesticides	Tetrachlorometaxylene	97		
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP9_0.8	17/11/2021	Phenols	4-Terphenyl-d14	112		
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP9_0.8	17/11/2021	Phenols	2-Fluorobiphenyl	131		
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP9_0.8	17/11/2021	Surrogate	Fluorobenzene (surr.)	106	60	140
21.1508 (511-533)	Soil	2021-11-16	WAC1.TP9_0.8	17/11/2021	Organochlorine Pesticides	Tetrachlorometaxylene	125		
21.1508 (536-537)	Water			18/11/2021	Surrogate	Fluorobenzene (surr.)	102		
21.1508 (536-537)	Water	2021-11-16	TB1	17/11/2021	Surrogate	Fluorobenzene (surr.)	93	60	140
21.1508 (536-537)	Water	2021-11-16	TS1	17/11/2021	Surrogate	Fluorobenzene (surr.)	122	60	140
21.1508 (735-766)	Soil			24/11/2021	Phenols	Phenol-D6	63		
21.1508 (735-766)	Soil			24/11/2021	Surrogate	1,2-Dichloroethane-d4	127		
21.1508 (735-766)	Soil			24/11/2021	Phenols	4-Terphenyl-d14	77		
21.1508 (735-766)	Soil			24/11/2021	Phenols	4-Terphenyl-d14	65		
21.1508 (735-766)	Soil			24/11/2021	Surrogate	Toluene-D8	122		
21.1508 (735-766)	Soil			24/11/2021	Phenols	2-Chloropheonl-D4	60		
21.1508 (735-766)	Soil			24/11/2021	Phenols	2-Fluorobiphenyl	75		
21.1508 (735-766)	Soil			24/11/2021	Phenols	2-Fluorobiphenyl	86		
21.1508 (735-766)	Soil			24/11/2021	Surrogate	4-Bromofluorobenzene	107		
21.1508 (735-766)	Soil			24/11/2021	Surrogate	Fluorobenzene (surr.)	110		
21.1508 (735-766)	Soil			24/11/2021	Organochlorine Pesticides	Tetrachlorometaxylene	80		
21.1508 (735-766)	Soil			24/11/2021	Organochlorine Pesticides	Tetrachlorometaxylene	89		
21.1508 (735-766)	Soil			24/11/2021	BTEX	Trifluorotoluene	117		
21.1508 (735-766)	Soil			25/11/2021	Phenols	4-Terphenyl-d14	79		
21.1508 (735-766)	Soil			25/11/2021	Phenols	2-Fluorobiphenyl	72		
21.1508 (735-766)	Soil			25/11/2021	Surrogate	Fluorobenzene (surr.)	106		
21.1508 (735-766)	Soil			25/11/2021	Organochlorine Pesticides	Tetrachlorometaxylene	76		
21.1508 (735-766)	Soil	2021-11-24	BR2	24/11/2021	Phenols	Phenol-D6	79		
21.1508 (735-766)	Soil	2021-11-24	BR2	24/11/2021	Surrogate	1,2-Dichloroethane-d4	113		
21.1508 (735-766)	Soil	2021-11-24	BR2	24/11/2021	Phenols	4-Terphenyl-d14	68		
21.1508 (735-766)	Soil	2021-11-24	BR2	24/11/2021	Surrogate	Toluene-D8	111		
21.1508 (735-766)	Soil	2021-11-24	BR2	24/11/2021	Phenols	2-Chloropheonl-D4	80		
21.1508 (735-766)	Soil	2021-11-24	BR2	24/11/2021	Phenols	2-Fluorobiphenyl	82		
21.1508 (735-766)	Soil	2021-11-24	BR2	24/11/2021	Surrogate	4-Bromofluorobenzene	101		
21.1508 (735-766)	Soil	2021-11-24	BR2	24/11/2021	Organochlorine Pesticides	Tetrachlorometaxylene	92		
21.1508 (735-766)	Soil	2021-11-24	BR2	24/11/2021	BTEX	Trifluorotoluene	108		
21.1508 (735-766)	Soil	2021-11-24	BR3	24/11/2021	Phenols	4-Terphenyl-d14	105		
21.1508 (735-766)	Soil	2021-11-24	BR3	24/11/2021	Phenols	2-Fluorobiphenyl	96		
21.1508 (735-766)	Soil	2021-11-24	BR3	24/11/2021	Surrogate	Fluorobenzene (surr.)	113	60	140
21.1508 (735-766)	Soil	2021-11-24	BR3	24/11/2021	Organochlorine Pesticides	Tetrachlorometaxylene	102		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP12_0.3	24/11/2021	Phenols	Phenol-D6	90		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP12_0.3	24/11/2021	Surrogate	1,2-Dichloroethane-d4	119		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP12_0.3	24/11/2021	Phenols	1,2-Dichloroethane-d4	133		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP12_0.3	24/11/2021	Surrogate	4-Terphenyl-d14	73		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP12_0.3	24/11/2021	Phenols	4-Terphenyl-d14	90		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP12_0.3	24/11/2021	Surrogate	Toluene-D8	124		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP12_0.3	24/11/2021	Phenols	2-Chloropheonl-D4	129		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP12_0.3	24/11/2021	Phenols	2-Chloropheonl-D4	104		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP12_0.3	24/11/2021	Phenols	2-Chloropheonl-D4	73		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP12_0.3	24/11/2021	Phenols	2-Fluorobiphenyl	96		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP12_0.3	24/11/2021	Phenols	2-Fluorobiphenyl	113		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP12_0.3	24/11/2021	Surrogate	4-Bromofluorobenzene	104		
21.1508 (73									

Surrogates

Lab Report Number	Matrix Type	Analysis Batch	Field ID	Sampled Date/Time	Chem Group	Chem Name	Result	LCL	UCL
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP14_0.7	24/11/2021	Phenols	2-Chloropheonl-D4	115		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP14_0.7	24/11/2021	Phenols	2-Fluorobiphenyl	100		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP14_0.7	24/11/2021	Surrogate	4-Bromofluorobenzene	115		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP14_0.7	24/11/2021	Organochlorine Pesticides	Tetrachlorometaxylene	111		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP14_0.7	24/11/2021	BTEX	Trifluorotoluene	120		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP15_0.3	24/11/2021	Phenols	4-Terphenyl-d14	82		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP15_0.3	24/11/2021	Phenols	2-Fluorobiphenyl	84		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP15_0.3	24/11/2021	Surrogate	Fluorobenzene (surr.)	103	60	140
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP15_0.3	24/11/2021	Organochlorine Pesticides	Tetrachlorometaxylene	95		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP15_0.7	24/11/2021	Phenols	4-Terphenyl-d14	84		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP15_0.7	24/11/2021	Phenols	2-Fluorobiphenyl	85		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP15_0.7	24/11/2021	Surrogate	Fluorobenzene (surr.)	99	60	140
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP15_0.7	24/11/2021	Organochlorine Pesticides	Tetrachlorometaxylene	99		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP16_0.2	24/11/2021	Phenols	4-Terphenyl-d14	83		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP16_0.2	24/11/2021	Surrogate	2-Fluorobiphenyl	86		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP16_0.2	24/11/2021	Organochlorine Pesticides	Fluorobenzene (surr.)	112	60	140
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP16_0.2	24/11/2021	Surrogate	Tetrachlorometaxylene	97		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP16_0.5	24/11/2021	Phenols	4-Terphenyl-d14	93		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP16_0.5	24/11/2021	Phenols	2-Fluorobiphenyl	89		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP16_0.5	24/11/2021	Surrogate	Fluorobenzene (surr.)	98	60	140
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP16_0.5	24/11/2021	Organochlorine Pesticides	Tetrachlorometaxylene	100		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP17_0.3	24/11/2021	Phenols	4-Terphenyl-d14	100		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP17_0.3	24/11/2021	Phenols	2-Fluorobiphenyl	93		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP17_0.3	24/11/2021	Surrogate	Fluorobenzene (surr.)	101	60	140
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP17_0.3	24/11/2021	Organochlorine Pesticides	Tetrachlorometaxylene	101		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP17_0.6	24/11/2021	Phenols	4-Terphenyl-d14	79		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP17_0.6	24/11/2021	Phenols	2-Fluorobiphenyl	78		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP17_0.6	24/11/2021	Surrogate	Fluorobenzene (surr.)	105	60	140
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP17_0.6	24/11/2021	Organochlorine Pesticides	Tetrachlorometaxylene	86		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP18_0.2	24/11/2021	Phenols	4-Terphenyl-d14	103		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP18_0.2	24/11/2021	Phenols	2-Fluorobiphenyl	91		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP18_0.2	24/11/2021	Surrogate	Fluorobenzene (surr.)	105	60	140
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP18_0.2	24/11/2021	Organochlorine Pesticides	Tetrachlorometaxylene	102		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP18_0.8	24/11/2021	Phenols	4-Terphenyl-d14	87		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP18_0.8	24/11/2021	Phenols	2-Fluorobiphenyl	86		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP18_0.8	24/11/2021	Surrogate	Fluorobenzene (surr.)	100	60	140
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP18_0.8	24/11/2021	Organochlorine Pesticides	Tetrachlorometaxylene	98		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP19_0.2	24/11/2021	Phenols	4-Terphenyl-d14	94		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP19_0.2	24/11/2021	Phenols	2-Fluorobiphenyl	87		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP19_0.2	24/11/2021	Surrogate	Fluorobenzene (surr.)	104	60	140
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP19_0.2	24/11/2021	Organochlorine Pesticides	Tetrachlorometaxylene	101		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP19_0.4	24/11/2021	Phenols	4-Terphenyl-d14	92		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP19_0.4	24/11/2021	Phenols	2-Fluorobiphenyl	82		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP19_0.4	24/11/2021	Surrogate	Fluorobenzene (surr.)	103	60	140
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP19_0.4	24/11/2021	Organochlorine Pesticides	Tetrachlorometaxylene	95		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP2_0.9	24/11/2021	Phenols	4-Terphenyl-d14	94		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP2_0.9	24/11/2021	Phenols	4-Terphenyl-d14	92		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP2_0.9	24/11/2021	Surrogate	2-Fluorobiphenyl	85		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP2_0.9	24/11/2021	Phenols	2-Fluorobiphenyl	86		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP2_0.9	24/11/2021	Surrogate	Fluorobenzene (surr.)	104		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP2_0.9	24/11/2021	Organochlorine Pesticides	Fluorobenzene (surr.)	107	60	140
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP2_0.9	24/11/2021	Organochlorine Pesticides	Tetrachlorometaxylene	95		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP20_0.3	24/11/2021	Phenols	4-Terphenyl-d14	104		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP20_0.3	24/11/2021	Phenols	2-Fluorobiphenyl	100		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP20_0.3	24/11/2021	Surrogate	Fluorobenzene (surr.)	100	60	140
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP20_0.3	24/11/2021	Organochlorine Pesticides	Tetrachlorometaxylene	108		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP20_0.5	24/11/2021	Phenols	4-Terphenyl-d14	107		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP20_0.5	24/11/2021	Phenols	2-Fluorobiphenyl	107		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP20_0.5	24/11/2021	Surrogate	Fluorobenzene (surr.)	115	60	140
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP20_0.5	24/11/2021	Organochlorine Pesticides	Tetrachlorometaxylene	120		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP21_0.3	24/11/2021	Phenols	Phenol-D6	127		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP21_0.3	24/11/2021	Surrogate	1,2-Dichloroethane-d4	133		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP21_0.3	24/11/2021	Phenols	4-Terphenyl-d14	96		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP21_0.3	24/11/2021	Surrogate	Toluene-D8</td			

Surrogates

Lab Report Number	Matrix Type	Analysis Batch	Field ID	Sampled Date/Time	Chem Group	Chem Name	Result	LCL	UCL
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP24_1.0	24/11/2021	Organochlorine Pesticides	Tetrachlorometaxylene	80		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP24_1.0	24/11/2021	Organochlorine Pesticides	Tetrachlorometaxylene	95		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP25_0.3	24/11/2021	Phenols	4-Terphenyl-d14	104		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP25_0.3	24/11/2021	Phenols	2-Fluorobiphenyl	92		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP25_0.3	24/11/2021	Surrogate	Fluorobenzene (surr.)	101	60	140
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP25_0.3	24/11/2021	Organochlorine Pesticides	Tetrachlorometaxylene	105		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP25_0.7	24/11/2021	Phenols	4-Terphenyl-d14	108		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP25_0.7	24/11/2021	Phenols	2-Fluorobiphenyl	96		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP25_0.7	24/11/2021	Surrogate	Fluorobenzene (surr.)	97	60	140
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP25_0.7	24/11/2021	Organochlorine Pesticides	Tetrachlorometaxylene	104		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP5_0.7	24/11/2021	Phenols	4-Terphenyl-d14	109		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP5_0.7	24/11/2021	Phenols	2-Fluorobiphenyl	94		
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP5_0.7	24/11/2021	Surrogate	Fluorobenzene (surr.)	99	60	140
21.1508 (735-766)	Soil	2021-11-24	WAC1.TP5_0.7	24/11/2021	Organochlorine Pesticides	Tetrachlorometaxylene	105		
21.1508 (798-801)	Water			25/11/2021	Surrogate	Fluorobenzene (surr.)	106		
21.1508 (798-801)	Water	2021-11-24	TB2	25/11/2021	Surrogate	Fluorobenzene (surr.)	104	60	140
21.1508 (798-801)	Water	2021-11-24	TB3	25/11/2021	Surrogate	Fluorobenzene (surr.)	96	60	140
21.1508 (798-801)	Water	2021-11-24	TS2	25/11/2021	Surrogate	Fluorobenzene (surr.)	102	60	140
21.1508 (798-801)	Water	2021-11-24	TS3	25/11/2021	Surrogate	Fluorobenzene (surr.)	101	60	140
841991	Soil	2021-12-01	WAC1.SR1	15/11/2021	Organophosphorous Pesticides	Triphenylphosphate	51	70	130
841991	Soil	2021-12-01	WAC1.SR1	15/11/2021	Phenols	4-Terphenyl-d14	89	30	130
841991	Soil	2021-12-01	WAC1.SR1	15/11/2021	Organochlorine Pesticides	DBC	-999	70	130
841991	Soil	2021-12-01	WAC1.SR1	15/11/2021	Phenols	2-Fluorobiphenyl	94	30	130
841991	Soil	2021-12-01	WAC1.SR1	15/11/2021	Surrogate	4-Bromofluorobenzene	126	50	150
841991	Soil	2021-12-01	WAC1.SR1	15/11/2021	Organochlorine Pesticides	Tetrachlorometaxylene	70	70	130
841991	Water	2021-12-01	RINSATE1	15/11/2021	Organophosphorous Pesticides	Triphenylphosphate	126	70	130
841991	Water	2021-12-01	RINSATE1	15/11/2021	Phenols	4-Terphenyl-d14	121	30	130
841991	Water	2021-12-01	RINSATE1	15/11/2021	Organochlorine Pesticides	DBC	128	70	130
841991	Water	2021-12-01	RINSATE1	15/11/2021	Phenols	2-Fluorobiphenyl	66	30	130
841991	Water	2021-12-01	RINSATE1	15/11/2021	Surrogate	4-Bromofluorobenzene	106	50	150
841991	Water	2021-12-01	RINSATE1	15/11/2021	Organochlorine Pesticides	Tetrachlorometaxylene	92	70	130
844049	Soil	2021-12-02	SR2	23/11/2021	Organophosphorous Pesticides	Triphenylphosphate	88	70	130
844049	Soil	2021-12-02	SR2	23/11/2021	Phenols	Phenol-D6	106	20	130
844049	Soil	2021-12-02	SR2	23/11/2021	Phenols	4-Terphenyl-d14	95	30	130
844049	Soil	2021-12-02	SR2	23/11/2021	Organochlorine Pesticides	DBC	88	70	130
844049	Soil	2021-12-02	SR2	23/11/2021	Surrogate	Toluene-D8	108	70	130
844049	Soil	2021-12-02	SR2	23/11/2021	Phenols	2-Fluorobiphenyl	97	30	130
844049	Soil	2021-12-02	SR2	23/11/2021	Surrogate	4-Bromofluorobenzene	107	50	150
844049	Soil	2021-12-02	SR2	23/11/2021	Organochlorine Pesticides	Tetrachlorometaxylene	60	70	130
844049	Soil	2021-12-02	SR3	23/11/2021	Organophosphorous Pesticides	Triphenylphosphate	120	70	130
844049	Soil	2021-12-02	SR3	23/11/2021	Phenols	4-Terphenyl-d14	111	30	130
844049	Soil	2021-12-02	SR3	23/11/2021	Organochlorine Pesticides	DBC	125	70	130
844049	Soil	2021-12-02	SR3	23/11/2021	Phenols	2-Fluorobiphenyl	110	30	130
844049	Soil	2021-12-02	SR3	23/11/2021	Surrogate	4-Bromofluorobenzene	109	50	150
844049	Soil	2021-12-02	SR3	23/11/2021	Organochlorine Pesticides	Tetrachlorometaxylene	72	70	130

Surrogates. Where no lab LCL and UCL is available, user defined limits between 75% and 125% have been adopted for non-compliance.

Method Name	Lab Sample ID	Sample Type
ESA-P-ORG7 & ORG8	Q2021009397	LCS
ESA-P-ORG7 & ORG8	Q2021009397	LCS
ESA-P-ORG7 & ORG8	Q2021009397	LCS
ESA-P-ORG7 & ORG8	Q2021009397	LCS
ESA-P-ORG17	Q2021009503	LCS
ESA-P-ORG17	Q2021009503	LCS
ESA-P-ORG(12 - 15)	Q2021009569	LCS
ESA-P-ORG(12 - 15)	Q2021009553	LCS
ESA-P-ORG(12 - 15)	Q2021009569	LCS
ESA-P-ORG(12 - 15)	Q2021009553	LCS
ESA-P-ORG7 & ORG8	Q2021009567	LCS
ESA-P-ORG(12 - 15)	Q2021009569	LCS
ESA-P-ORG(12 - 15)	Q2021009553	LCS
ESA-P-ORG(12 - 15)	2021037533	Field_D
ESA-P-ORG(12 - 15)	2021037533	Field_D
ESA-P-ORG7 & ORG8	2021037533	Field_D
ESA-P-ORG(12 - 15)	2021037511	Normal
ESA-P-ORG(12 - 15)	S202103751102	MS
ESA-P-ORG(12 - 15)	2021037511	Normal
ESA-P-ORG(12 - 15)	S202103751102	MS
ESA-P-ORG7 & ORG8	2021037511	Normal
ESA-P-ORG-07 & 08	S202103751101	MS
ESA-P-ORG(12 - 15)	2021037511	Normal
ESA-P-ORG(12 - 15)	S202103751102	MS
ESA-P-ORG(12 - 15)	2021037512	Normal
ESA-P-ORG(12 - 15)	2021037512	Normal
ESA-P-ORG7 & ORG8	2021037512	Normal
ESA-P-ORG(12 - 15)	2021037512	Normal
ESA-P-ORG17	2021037528	Normal
ESA-P-ORG07 & ORG08	2021037528	Normal
ESA-P-ORG(12 - 15)	2021037528	Normal
ESA-P-ORG07 & ORG08	2021037528	Normal
ESA-P-ORG17	2021037528	Normal
ESA-P-ORG(12 - 15)	2021037529	Normal
ESA-P-ORG07 & ORG08	2021037529	Normal
ESA-P-ORG(12 - 15)	2021037529	Normal
ESA-P-ORG07 & ORG08	2021037529	Normal
ESA-P-ORG17	2021037529	Normal
ESA-P-ORG(12 - 15)	2021037529	Normal
ESA-P-ORG07 & ORG08	2021037529	Normal
ESA-P-ORG(12 - 15)	2021037529	Normal
ESA-P-ORG07 & ORG08	2021037529	Normal
ESA-P-ORG(12 - 15)	2021037529	Normal
ESA-P-ORG(12 - 15)	2021037530	Normal
ESA-P-ORG(12 - 15)	2021037530	Normal
ESA-P-ORG7 & ORG8	2021037530	Normal
ESA-P-ORG(12 - 15)	2021037530	Normal
ESA-P-ORG(12 - 15)	2021037531	Normal
ESA-P-ORG(12 - 15)	2021037531	Normal
ESA-P-ORG7 & ORG8	2021037531	Normal
ESA-P-ORG(12 - 15)	2021037531	Normal
ESA-P-ORG(12 - 15)	2021037532	Normal
ESA-P-ORG(12 - 15)	2021037532	Normal
ESA-P-ORG7 & ORG8	2021037532	Normal
ESA-P-ORG(12 - 15)	2021037532	Normal
ESA-P-ORG(12 - 15)	2021037513	Normal
ESA-P-ORG(12 - 15)	2021037513	Normal
ESA-P-ORG7 & ORG8	2021037513	Normal
ESA-P-ORG(12 - 15)	2021037513	Normal
ESA-P-ORG(12 - 15)	2021037514	Normal
ESA-P-ORG(12 - 15)	2021037514	Normal
ESA-P-ORG7 & ORG8	2021037514	Normal
ESA-P-ORG(12 - 15)	2021037514	Normal
ESA-P-ORG(12 - 15)	2021037515	Normal
ESA-P-ORG(12 - 15)	2021037515	Normal
ESA-P-ORG7 & ORG8	2021037515	Normal
ESA-P-ORG(12 - 15)	2021037515	Normal
ESA-P-ORG(12 - 15)	2021037516	Normal
ESA-P-ORG7 & ORG8	2021037516	Normal
ESA-P-ORG(12 - 15)	2021037516	Normal
ESA-P-ORG(12 - 15)	2021037516	Normal
ESA-P-ORG(12 - 15)	2021037517	Normal
ESA-P-ORG(12 - 15)	2021037517	Normal
ESA-P-ORG7 & ORG8	2021037517	Normal
ESA-P-ORG(12 - 15)	2021037517	Normal
ESA-P-ORG(12 - 15)	2021037518	Normal
ESA-P-ORG(12 - 15)	2021037518	Normal
ESA-P-ORG7 & ORG8	2021037518	Normal
ESA-P-ORG(12 - 15)	2021037518	Normal
ESA-P-ORG17	2021037519	Normal
ESA-P-ORG07 & ORG08	2021037519	Normal
ESA-P-ORG(12 - 15)	2021037519	Normal
ESA-P-ORG07 & ORG08	2021037519	Normal
ESA-P-ORG17	2021037519	Normal
ESA-P-ORG(12 - 15)	2021037519	Normal
ESA-P-ORG07 & ORG08	2021037519	Normal
ESA-P-ORG(12 - 15)	2021037519	Normal
ESA-P-ORG07 & ORG08	2021037519	Normal
ESA-P-ORG17	2021037520	Normal
ESA-P-ORG07 & ORG08	2021037520	Normal
ESA-P-ORG17	2021037520	Normal
ESA-P-ORG(12 - 15)	2021037520	Normal
ESA-P-ORG07 & ORG08	2021037520	Normal
ESA-P-ORG(12 - 15)	2021037520	Normal
ESA-P-ORG07 & ORG08	2021037520	Normal
ESA-P-ORG17	2021037520	Normal
ESA-P-ORG(12 - 15)	2021037520	Normal
ESA-P-ORG07 & ORG08	2021037521	Normal
ESA-P-ORG(12 - 15)	2021037521	Normal
ESA-P-ORG7 & ORG8	2021037521	Normal
ESA-P-ORG(12 - 15)	2021037521	Normal

Method Name	Lab Sample ID	Sample Type
ESA-P-ORG(12 - 15)	2021037522	Normal
ESA-P-ORG(12 - 15)	2021037522	Normal
ESA-P-ORG7 & ORG8	2021037522	Normal
ESA-P-ORG(12 - 15)	2021037522	Normal
ESA-P-ORG(12 - 15)	2021037523	Normal
ESA-P-ORG(12 - 15)	2021037523	Normal
ESA-P-ORG7 & ORG8	2021037523	Normal
ESA-P-ORG(12 - 15)	2021037523	Normal
ESA-P-ORG(12 - 15)	2021037524	Normal
ESA-P-ORG(12 - 15)	2021037524	Normal
ESA-P-ORG7 & ORG8	2021037524	Normal
ESA-P-ORG(12 - 15)	2021037524	Normal
ESA-P-ORG(12 - 15)	2021037525	Normal
ESA-P-ORG(12 - 15)	2021037525	Normal
ESA-P-ORG7 & ORG8	2021037525	Normal
ESA-P-ORG(12 - 15)	2021037525	Normal
ESA-P-ORG(12 - 15)	2021037526	Normal
ESA-P-ORG(12 - 15)	2021037526	Normal
ESA-P-ORG7 & ORG8	2021037526	Normal
ESA-P-ORG(12 - 15)	2021037526	Normal
ESA-P-ORG(12 - 15)	2021037527	Normal
ESA-P-ORG(12 - 15)	2021037527	Normal
ESA-P-ORG7 & ORG8	2021037527	Normal
ESA-P-ORG(12 - 15)	2021037527	Normal
ESA-P-ORG7 & ORG8	Q2021009595	LCS
ESA-P-ORG08 & ORG10	2021037536	Trip_B
ESA-P-ORG08 & ORG10	2021037537	Trip_S
ESA-P-ORG17	Q2021009859	LCS
ESA-P-ORG7 & ORG8	Q2021009857	LCS
ESA-P-ORG(12 - 15)	Q2021009853	LCS
ESA-P-ORG(12 - 15)	Q2021009861	LCS
ESA-P-ORG7 & ORG8	Q2021009857	LCS
ESA-P-ORG17	Q2021009859	LCS
ESA-P-ORG(12 - 15)	Q2021009853	LCS
ESA-P-ORG(12 - 15)	Q2021009861	LCS
ESA-P-ORG7 & ORG8	Q2021009857	LCS
ESA-P-ORG(12 - 15)	Q2021009881	LCS
ESA-P-ORG(12 - 15)	Q2021009881	LCS
ESA-P-ORG7 & ORG8	Q2021009879	LCS
ESA-P-ORG(12 - 15)	Q2021009881	LCS
ESA-P-ORG17	2021038765	Field_D
ESA-P-ORG07 & ORG08	2021038765	Field_D
ESA-P-ORG(12 - 15)	2021038765	Field_D
ESA-P-ORG07 & ORG08	2021038765	Field_D
ESA-P-ORG17	2021038765	Field_D
ESA-P-ORG(12 - 15)	2021038765	Field_D
ESA-P-ORG07 & ORG08	2021038765	Field_D
ESA-P-ORG(12 - 15)	2021038765	Field_D
ESA-P-ORG07 & ORG08	2021038765	Field_D
ESA-P-ORG(12 - 15)	2021038766	Field_D
ESA-P-ORG(12 - 15)	2021038766	Field_D
ESA-P-ORG(12 - 15)	2021038766	Field_D
ESA-P-ORG17	2021038766	Field_D
ESA-P-ORG(12 - 15)	2021038766	Field_D
ESA-P-ORG7 & ORG8	2021038766	Field_D
ESA-P-ORG(12 - 15)	2021038766	Field_D
ESA-P-ORG17	2021038736	Normal
ESA-P-ORG17	S202103873602	MS
ESA-P-ORG07 & ORG08	2021038736	Normal
ESA-P-ORG-07 & 08	S202103873601	MS
ESA-P-ORG(12 - 15)	S202103873603	MS
ESA-P-ORG(12 - 15)	2021038736	Normal
ESA-P-ORG07 & ORG08	2021038736	Normal
ESA-P-ORG-07 & 08	S202103873601	MS
ESA-P-ORG17	2021038736	Normal
ESA-P-ORG17	S202103873602	MS
ESA-P-ORG(12 - 15)	S202103873603	MS
ESA-P-ORG(12 - 15)	2021038736	Normal
ESA-P-ORG07 & ORG08	2021038736	Normal
ESA-P-ORG-07 & 08	S202103873601	MS
ESA-P-ORG17	2021038736	Normal
ESA-P-ORG(12 - 15)	S202103873603	MS
ESA-P-ORG(12 - 15)	2021038736	Normal
ESA-P-ORG07 & ORG08	2021038736	Normal
ESA-P-ORG17	2021038737	Normal
ESA-P-ORG07 & ORG08	2021038737	Normal
ESA-P-ORG(12 - 15)	2021038737	Normal
ESA-P-ORG07 & ORG08	2021038737	Normal
ESA-P-ORG17	2021038737	Normal
ESA-P-ORG(12 - 15)	2021038737	Normal
ESA-P-ORG07 & ORG08	2021038737	Normal
ESA-P-ORG(12 - 15)	2021038737	Normal
ESA-P-ORG07 & ORG08	2021038737	Normal
ESA-P-ORG(12 - 15)	2021038738	Normal
ESA-P-ORG(12 - 15)	2021038738	Normal
ESA-P-ORG7 & ORG8	2021038738	Normal
ESA-P-ORG(12 - 15)	2021038738	Normal
ESA-P-ORG(12 - 15)	2021038739	Normal
ESA-P-ORG(12 - 15)	2021038739	Normal
ESA-P-ORG7 & ORG8	2021038739	Normal
ESA-P-ORG(12 - 15)	2021038739	Normal
ESA-P-ORG17	2021038740	Normal
ESA-P-ORG07 & ORG08	2021038740	Normal
ESA-P-ORG(12 - 15)	2021038740	Normal
ESA-P-ORG07 & ORG08	2021038740	Normal
ESA-P-ORG17	2021038740	Normal
ESA-P-ORG(12 - 15)	2021038740	Normal
ESA-P-ORG07 & ORG08	2021038740	Normal
ESA-P-ORG(12 - 15)	2021038740	Normal
ESA-P-ORG07 & ORG08	2021038740	Normal
ESA-P-ORG17	2021038741	Normal
ESA-P-ORG07 & ORG08	2021038741	Normal
ESA-P-ORG(12 - 15)	2021038741	Normal
ESA-P-ORG07 & ORG08	2021038741	Normal

Method Name	Lab Sample ID	Sample Type
ESA-P-ORG(12 - 15)	S202103876102	MS
ESA-P-ORG(12 - 15)	2021038761	Normal
ESA-P-ORG(12 - 15)	2021038762	Normal
ESA-P-ORG(12 - 15)	2021038762	Normal
ESA-P-ORG7 & ORG8	2021038762	Normal
ESA-P-ORG(12 - 15)	2021038762	Normal
ESA-P-ORG(12 - 15)	2021038763	Normal
ESA-P-ORG(12 - 15)	2021038763	Normal
ESA-P-ORG7 & ORG8	2021038763	Normal
ESA-P-ORG(12 - 15)	2021038763	Normal
ESA-P-ORG(12 - 15)	2021038764	Normal
ESA-P-ORG(12 - 15)	2021038764	Normal
ESA-P-ORG7 & ORG8	2021038764	Normal
ESA-P-ORG(12 - 15)	2021038764	Normal
ESA-P-ORG7 & ORG8	Q2021009879	LCS
ESA-P-ORG08 & ORG10	2021038798	Trip_B
ESA-P-ORG08 & ORG10	2021038800	Trip_B
ESA-P-ORG08 & ORG10	2021038799	Trip_S
ESA-P-ORG08 & ORG10	2021038801	Trip_S
LTM-ORG-2200 Organophosphorus Pesticides by GC-MS	S21-No40846	Interlab_D
LTM-ORG-2130 PAH and Phenols in Soil and Water	S21-No40846	Interlab_D
LTM-ORG-2220 OCP & PCB in Soil and Water	S21-No40846	Interlab_D
LTM-ORG-2130 PAH and Phenols in Soil and Water	S21-No40846	Interlab_D
LTM-ORG-2010 TRH C6-C40	S21-No40846	Interlab_D
LTM-ORG-2220 OCP & PCB in Soil and Water	S21-No40846	Interlab_D
LTM-ORG-2200 Organophosphorus Pesticides by GC-MS	S21-No40847	Rinsate
LTM-ORG-2130 PAH and Phenols in Soil and Water	S21-No40847	Rinsate
LTM-ORG-2220 OCP & PCB in Soil and Water	S21-No40847	Rinsate
LTM-ORG-2130 PAH and Phenols in Soil and Water	S21-No40847	Rinsate
LTM-ORG-2010 TRH C6-C40	S21-No40847	Rinsate
LTM-ORG-2220 OCP & PCB in Soil and Water	S21-No40847	Rinsate
LTM-ORG-2200 Organophosphorus Pesticides by GC-MS	S21-No59702	Interlab_D
LTM-ORG-2130 PAH and Phenols in Soil and Water	S21-No59702	Interlab_D
LTM-ORG-2130 PAH and Phenols in Soil and Water	S21-No59702	Interlab_D
LTM-ORG-2220 OCP & PCB in Soil and Water	S21-No59702	Interlab_D
LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices	S21-No59702	Interlab_D
LTM-ORG-2130 PAH and Phenols in Soil and Water	S21-No59702	Interlab_D
LTM-ORG-2010 TRH C6-C40	S21-No59702	Interlab_D
LTM-ORG-2220 OCP & PCB in Soil and Water	S21-No59702	Interlab_D
LTM-ORG-2200 Organophosphorus Pesticides by GC-MS	S21-No59703	Interlab_D
LTM-ORG-2130 PAH and Phenols in Soil and Water	S21-No59703	Interlab_D
LTM-ORG-2220 OCP & PCB in Soil and Water	S21-No59703	Interlab_D
LTM-ORG-2130 PAH and Phenols in Soil and Water	S21-No59703	Interlab_D
LTM-ORG-2010 TRH C6-C40	S21-No59703	Interlab_D
LTM-ORG-2220 OCP & PCB in Soil and Water	S21-No59703	Interlab_D

Lab Control Samples

Lab Report Number	Matrix Type	Analysis Batch	Chem Group	Chem Name	Result	LCL	UCL
21.1508 (511-533)	Soil		BTEX	Benzene	100		
21.1508 (511-533)	Soil		BTEX	Benzene	98		
21.1508 (511-533)	Soil		BTEX	Toluene	106		
21.1508 (511-533)	Soil		BTEX	Toluene	98		
21.1508 (511-533)	Soil		BTEX	Ethylbenzene	91		
21.1508 (511-533)	Soil		BTEX	Trifluorotoluene	120		
21.1508 (511-533)	Soil		BTEX	Xylene (m & p)	77		
21.1508 (511-533)	Soil		BTEX	Xylene (o)	91		
21.1508 (511-533)	Soil		TRH	>C10-C16 Fraction (F2)	111		
21.1508 (511-533)	Soil		TRH	>C10-C16 Fraction (F2)	93		
21.1508 (511-533)	Soil		Phenols	2,6-Dichlorophenol	130		
21.1508 (511-533)	Soil		Phenols	2-Chlorophenol	117		
21.1508 (511-533)	Soil		Phenols	2-Chloropheonl-D4	138		
21.1508 (511-533)	Soil		Phenols	2-Fluorobiphenyl	117		
21.1508 (511-533)	Soil		Phenols	2-Fluorobiphenyl	91		
21.1508 (511-533)	Soil		Phenols	2-Methylphenol	103		
21.1508 (511-533)	Soil		Phenols	4-Terphenyl-d14	84		
21.1508 (511-533)	Soil		Phenols	4-Terphenyl-d14	116		
21.1508 (511-533)	Soil		Phenols	Cresol Total	119		
21.1508 (511-533)	Soil		Phenols	Phenol-D6	115		
21.1508 (511-533)	Soil		Chlorinated Hydrocarbons	1,1-dichloroethene	128		
21.1508 (511-533)	Soil		Chlorinated Hydrocarbons	Trichloroethene	92		
21.1508 (511-533)	Soil		Halogenated Benzenes	Chlorobenzene	99		
21.1508 (511-533)	Soil		Halogenated Benzenes	Hexachlorobenzene	65		
21.1508 (511-533)	Soil		Halogenated Benzenes	Hexachlorobenzene	114		
21.1508 (511-533)	Soil		Herbicides	Dinoseb	78		
21.1508 (511-533)	Soil		Metals	Arsenic	93		
21.1508 (511-533)	Soil		Metals	Arsenic	90		
21.1508 (511-533)	Soil		Metals	Cadmium	98		
21.1508 (511-533)	Soil		Metals	Cadmium	97		
21.1508 (511-533)	Soil		Metals	Chromium (III+VI)	93		
21.1508 (511-533)	Soil		Metals	Chromium (III+VI)	91		
21.1508 (511-533)	Soil		Metals	Copper	91		
21.1508 (511-533)	Soil		Metals	Copper	112		
21.1508 (511-533)	Soil		Metals	Lead	100		
21.1508 (511-533)	Soil		Metals	Lead	96		
21.1508 (511-533)	Soil		Metals	Mercury	104		
21.1508 (511-533)	Soil		Metals	Mercury	95		
21.1508 (511-533)	Soil		Metals	Nickel	96		
21.1508 (511-533)	Soil		Metals	Nickel	93		
21.1508 (511-533)	Soil		Metals	Zinc	97		
21.1508 (511-533)	Soil		Metals	Zinc	93		
21.1508 (511-533)	Soil		Organochlorine Pesticides	Aldrin	103		
21.1508 (511-533)	Soil		Organochlorine Pesticides	Aldrin	123		
21.1508 (511-533)	Soil		Organochlorine Pesticides	Endrin	105		
21.1508 (511-533)	Soil		Organochlorine Pesticides	Endrin	79		
21.1508 (511-533)	Soil		Organochlorine Pesticides	Tetrachlorometaxylene	138		
21.1508 (511-533)	Soil		Organochlorine Pesticides	Tetrachlorometaxylene	124		
21.1508 (511-533)	Soil		Organophosphorous Pesticides	Chlropyrifos	68		
21.1508 (511-533)	Soil		Organophosphorous Pesticides	Chlropyrifos	100		
21.1508 (511-533)	Soil		Organophosphorous Pesticides	Diazinon	73		
21.1508 (511-533)	Soil		Organophosphorous Pesticides	Diazinon	108		
21.1508 (511-533)	Soil		PAH	Acenaphthene	135		
21.1508 (511-533)	Soil		PAH	Acenaphthene	108		
21.1508 (511-533)	Soil		PAH	Anthracene	103		
21.1508 (511-533)	Soil		PAH	Anthracene	122		
21.1508 (511-533)	Soil		PAH	Fluoranthene	76		
21.1508 (511-533)	Soil		PAH	Fluoranthene	104		
21.1508 (511-533)	Soil		PAH	Naphthalene	118		
21.1508 (511-533)	Soil		PAH	Naphthalene	105		
21.1508 (511-533)	Soil		PAH	Phenanthrene	93		
21.1508 (511-533)	Soil		PAH	Phenanthrene	101		
21.1508 (511-533)	Soil		PAH	Pyrene	79		
21.1508 (511-533)	Soil		PAH	Pyrene	116		
21.1508 (511-533)	Soil		PCBs	Arochlor 1016	86		
21.1508 (511-533)	Soil		PCBs	Arochlor 1016	112		
21.1508 (511-533)	Soil		TPH	C10-C14 Fraction	108		
21.1508 (511-533)	Soil		TPH	C10-C14 Fraction	91		
21.1508 (511-533)	Soil		Surrogate	1,2-Dichloroethane-d4	112		
21.1508 (511-533)	Soil		Surrogate	4-Bromofluorobenzene	105		
21.1508 (511-533)	Soil		Surrogate	Fluorobenzene (surr.)	92		
21.1508 (511-533)	Soil		Surrogate	Toluene-D8	124		
21.1508 (536-537)	Water		BTEX	Benzene	110		
21.1508 (536-537)	Water		BTEX	Toluene	104		
21.1508 (536-537)	Water		BTEX	Ethylbenzene	101		
21.1508 (536-537)	Water		BTEX	Xylene (m & p)	85		
21.1508 (536-537)	Water		BTEX	Xylene (o)	100		
21.1508 (536-537)	Water		Surrogate	Fluorobenzene (surr.)	102		
21.1508 (735-766)	Soil		BTEX	Benzene	112		
21.1508 (735-766)	Soil		BTEX	Benzene	126		
21.1508 (735-766)	Soil		BTEX	Benzene	119		
21.1508 (735-766)	Soil		BTEX	Toluene	101		
21.1508 (735-766)	Soil		BTEX	Toluene	120		
21.1508 (735-766)	Soil		BTEX	Ethylbenzene	101		
21.1508 (735-766)	Soil		BTEX	Ethylbenzene	128		
21.1508 (735-766)	Soil		BTEX	Trifluorotoluene	117		
21.1508 (735-766)	Soil		BTEX	Xylene (m & p)	81		
21.1508 (735-766)	Soil		BTEX	Xylene (m & p)	130		
21.1508 (735-766)	Soil		BTEX	Xylene (o)	97		
21.1508 (735-766)	Soil		BTEX	Xylene (o)	127		
21.1508 (735-766)	Soil		TRH	>C10-C16 Fraction (F2)	136		
21.1508 (735-766)	Soil		TRH	>C10-C16 Fraction (F2)	139		
21.1508 (735-766)	Soil		TRH	>C10-C16 Fraction (F2)	99		
21.1508 (735-766)	Soil		Phenols	2,6-Dichlorophenol	61		
21.1508 (735-766)	Soil		Phenols	2-Chlorophenol	65		
21.1508 (735-766)	Soil		Phenols	2-Chloropheonl-D4	60		
21.1508 (735-766)	Soil		Phenols	2-Fluorobiphenyl	75		
21.1508 (735-766)	Soil		Phenols	2-Fluorobiphenyl	86		
21.1508 (735-766)	Soil		Phenols	2-Fluorobiphenyl	72		
21.1508 (735-766)	Soil		Phenols	2-Methylphenol	62		
21.1508 (735-766)	Soil		Phenols	4-Terphenyl-d14	77		
21.1508 (735-766)	Soil		Phenols	4-Terphenyl-d14	65		
21.1508 (735-766)	Soil		Phenols	4-Terphenyl-d14	79		
21.1508 (735-766)	Soil		Phenols	Cresol Total	67		

Lab Control Samples

Lab Report Number	Matrix Type	Analysis Batch	Chem Group	Chem Name	Result	LCL	UCL
21.1508 (735-766)	Soil		Phenols	Phenol-D6	63		
21.1508 (735-766)	Soil		Chlorinated Hydrocarbons	1,1-dichloroethene	123		
21.1508 (735-766)	Soil		Chlorinated Hydrocarbons	Trichloroethene	102		
21.1508 (735-766)	Soil		Halogenated Benzenes	Chlorobenzene	113		
21.1508 (735-766)	Soil		Halogenated Benzenes	Hexachlorobenzene	76		
21.1508 (735-766)	Soil		Halogenated Benzenes	Hexachlorobenzene	78		
21.1508 (735-766)	Soil		Halogenated Benzenes	Hexachlorobenzene	69		
21.1508 (735-766)	Soil		Herbicides	Dinoseb	75		
21.1508 (735-766)	Soil		Metals	Arsenic	95		
21.1508 (735-766)	Soil		Metals	Arsenic	92		
21.1508 (735-766)	Soil		Metals	Cadmium	109		
21.1508 (735-766)	Soil		Metals	Cadmium	107		
21.1508 (735-766)	Soil		Metals	Chromium (III+VI)	103		
21.1508 (735-766)	Soil		Metals	Chromium (III+VI)	102		
21.1508 (735-766)	Soil		Metals	Copper	102		
21.1508 (735-766)	Soil		Metals	Copper	101		
21.1508 (735-766)	Soil		Metals	Lead	104		
21.1508 (735-766)	Soil		Metals	Lead	102		
21.1508 (735-766)	Soil		Metals	Mercury	103		
21.1508 (735-766)	Soil		Metals	Mercury	103		
21.1508 (735-766)	Soil		Metals	Nickel	104		
21.1508 (735-766)	Soil		Metals	Nickel	104		
21.1508 (735-766)	Soil		Metals	Zinc	103		
21.1508 (735-766)	Soil		Metals	Zinc	102		
21.1508 (735-766)	Soil		Organochlorine Pesticides	Aldrin	77		
21.1508 (735-766)	Soil		Organochlorine Pesticides	Aldrin	73		
21.1508 (735-766)	Soil		Organochlorine Pesticides	Aldrin	73		
21.1508 (735-766)	Soil		Organochlorine Pesticides	Endrin	77		
21.1508 (735-766)	Soil		Organochlorine Pesticides	Endrin	77		
21.1508 (735-766)	Soil		Organochlorine Pesticides	Endrin	60		
21.1508 (735-766)	Soil		Organochlorine Pesticides	Tetrachlorometaxylene	80		
21.1508 (735-766)	Soil		Organochlorine Pesticides	Tetrachlorometaxylene	89		
21.1508 (735-766)	Soil		Organochlorine Pesticides	Tetrachlorometaxylene	76		
21.1508 (735-766)	Soil		Organophosphorous Pesticides	Chlorpyrifos	67		
21.1508 (735-766)	Soil		Organophosphorous Pesticides	Chlorpyrifos	63		
21.1508 (735-766)	Soil		Organophosphorous Pesticides	Chlorpyrifos	64		
21.1508 (735-766)	Soil		Organophosphorous Pesticides	Diazinon	67		
21.1508 (735-766)	Soil		Organophosphorous Pesticides	Diazinon	66		
21.1508 (735-766)	Soil		Organophosphorous Pesticides	Diazinon	62		
21.1508 (735-766)	Soil		PAH	Acenaphthene	97		
21.1508 (735-766)	Soil		PAH	Acenaphthene	121		
21.1508 (735-766)	Soil		PAH	Acenaphthene	94		
21.1508 (735-766)	Soil		PAH	Anthracene	75		
21.1508 (735-766)	Soil		PAH	Anthracene	81		
21.1508 (735-766)	Soil		PAH	Anthracene	69		
21.1508 (735-766)	Soil		PAH	Fluoranthene	80		
21.1508 (735-766)	Soil		PAH	Fluoranthene	68		
21.1508 (735-766)	Soil		PAH	Fluoranthene	79		
21.1508 (735-766)	Soil		PAH	Naphthalene	69		
21.1508 (735-766)	Soil		PAH	Naphthalene	83		
21.1508 (735-766)	Soil		PAH	Naphthalene	68		
21.1508 (735-766)	Soil		PAH	Phenanthrene	75		
21.1508 (735-766)	Soil		PAH	Phenanthrene	72		
21.1508 (735-766)	Soil		PAH	Phenanthrene	70		
21.1508 (735-766)	Soil		PAH	Pyrene	77		
21.1508 (735-766)	Soil		PAH	Pyrene	73		
21.1508 (735-766)	Soil		PAH	Pyrene	76		
21.1508 (735-766)	Soil		PCBs	Arochlor 1016	108		
21.1508 (735-766)	Soil		PCBs	Arochlor 1016	66		
21.1508 (735-766)	Soil		PCBs	Arochlor 1016	100		
21.1508 (735-766)	Soil		TPH	C10-C14 Fraction	133		
21.1508 (735-766)	Soil		TPH	C10-C14 Fraction	138		
21.1508 (735-766)	Soil		TPH	C10-C14 Fraction	97		
21.1508 (735-766)	Soil		Surrogate	1,2-Dichloroethane-d4	127		
21.1508 (735-766)	Soil		Surrogate	4-Bromofluorobenzene	107		
21.1508 (735-766)	Soil		Surrogate	Fluorobenzene (surr.)	110		
21.1508 (735-766)	Soil		Surrogate	Fluorobenzene (surr.)	106		
21.1508 (735-766)	Soil		Surrogate	Toluene-D8	122		
21.1508 (798-801)	Water		BTEX	Benzene	119		
21.1508 (798-801)	Water		BTEX	Toluene	120		
21.1508 (798-801)	Water		BTEX	Ethylbenzene	128		
21.1508 (798-801)	Water		BTEX	Xylene (m & p)	130		
21.1508 (798-801)	Water		BTEX	Xylene (o)	127		
21.1508 (798-801)	Water		Surrogate	Fluorobenzene (surr.)	106		
841991	Soil	2021-12-01	BTEX	Naphthalene (VOC)	94		
841991	Soil	2021-12-01	BTEX	Benzene	104		
841991	Soil	2021-12-01	BTEX	Toluene	93		
841991	Soil	2021-12-01	BTEX	Ethylbenzene	98		
841991	Soil	2021-12-01	BTEX	Xylene (m & p)	101		
841991	Soil	2021-12-01	BTEX	Xylene (o)	101		
841991	Soil	2021-12-01	BTEX	Xylene Total	101		
841991	Soil	2021-12-01	TRH	C6-C10 Fraction (F1)	89		
841991	Soil	2021-12-01	TRH	>C10-C16 Fraction (F2)	114		
841991	Soil	2021-12-01	Halogenated Benzenes	Hexachlorobenzene	119		
841991	Soil	2021-12-01	Metals	Arsenic	93		
841991	Soil	2021-12-01	Metals	Cadmium	91		
841991	Soil	2021-12-01	Metals	Chromium (III+VI)	96		
841991	Soil	2021-12-01	Metals	Copper	95		
841991	Soil	2021-12-01	Metals	Lead	93		
841991	Soil	2021-12-01	Metals	Mercury	99		
841991	Soil	2021-12-01	Metals	Nickel	96		
841991	Soil	2021-12-01	Metals	Zinc	95		
841991	Soil	2021-12-01	Organochlorine Pesticides	4,4-DDE	119		
841991	Soil	2021-12-01	Organochlorine Pesticides	a-BHC	124		
841991	Soil	2021-12-01	Organochlorine Pesticides	Aldrin	115		
841991	Soil	2021-12-01	Organochlorine Pesticides	b-BHC	126		
841991	Soil	2021-12-01	Organochlorine Pesticides	Chlordane	121		
841991	Soil	2021-12-01	Organochlorine Pesticides	d-BHC	114		
841991	Soil	2021-12-01	Organochlorine Pesticides	DDD	118		
841991	Soil	2021-12-01	Organochlorine Pesticides	DDT	128		
841991	Soil	2021-12-01	Organochlorine Pesticides	Dieldrin	120		
841991	Soil	2021-12-01	Organochlorine Pesticides	Endosulfan I	110		
841991	Soil	2021-12-01	Organochlorine Pesticides	Endosulfan II	109		
841991	Soil	2021-12-01	Organochlorine Pesticides	Endosulfan sulphate	120		
841991	Soil	2021-12-01	Organochlorine Pesticides	Endrin	112		

Lab Control Samples

Lab Report Number	Matrix Type	Analysis Batch	Chem Group	Chem Name	Result	LCL	UCL
841991	Soil	2021-12-01	Organochlorine Pesticides	Endrin aldehyde	111		
841991	Soil	2021-12-01	Organochlorine Pesticides	Endrin ketone	126		
841991	Soil	2021-12-01	Organochlorine Pesticides	g-BHC (Lindane)	119		
841991	Soil	2021-12-01	Organochlorine Pesticides	Heptachlor	130		
841991	Soil	2021-12-01	Organochlorine Pesticides	Heptachlor epoxide	115		
841991	Soil	2021-12-01	Organochlorine Pesticides	Methoxychlor	120		
841991	Soil	2021-12-01	Organophosphorous Pesticides	Diazinon	113		
841991	Soil	2021-12-01	Organophosphorous Pesticides	Dimethoate	109		
841991	Soil	2021-12-01	Organophosphorous Pesticides	Fenitrothion	121		
841991	Soil	2021-12-01	PAH	Acenaphthene	112		
841991	Soil	2021-12-01	PAH	Acenaphthylene	113		
841991	Soil	2021-12-01	PAH	Anthracene	120		
841991	Soil	2021-12-01	PAH	Benz(a)anthracene	115		
841991	Soil	2021-12-01	PAH	Benzo(a) pyrene	114		
841991	Soil	2021-12-01	PAH	Benzo(b+j)fluoranthene	107		
841991	Soil	2021-12-01	PAH	Benzo(g,h,i)perylene	104		
841991	Soil	2021-12-01	PAH	Benzo(k)fluoranthene	115		
841991	Soil	2021-12-01	PAH	Chrysene	111		
841991	Soil	2021-12-01	PAH	Dibenz(a,h)anthracene	113		
841991	Soil	2021-12-01	PAH	Fluoranthene	121		
841991	Soil	2021-12-01	PAH	Fluorene	118		
841991	Soil	2021-12-01	PAH	Indeno(1,2,3-c,d)pyrene	117		
841991	Soil	2021-12-01	PAH	Naphthalene	115		
841991	Soil	2021-12-01	PAH	Phenanthrene	112		
841991	Soil	2021-12-01	PAH	Pyrene	119		
841991	Soil	2021-12-01	PCBs	Arochlor 1016	84		
841991	Soil	2021-12-01	PCBs	Arochlor 1260	88		
841991	Soil	2021-12-01	TPH	C6-C9 Fraction	94		
841991	Soil	2021-12-01	TPH	C10-C14 Fraction	123		
841991	Water	2021-12-01	BTEX	Naphthalene (VOC)	98		
841991	Water	2021-12-01	BTEX	Benzene	93		
841991	Water	2021-12-01	BTEX	Toluene	95		
841991	Water	2021-12-01	BTEX	Ethylbenzene	93		
841991	Water	2021-12-01	BTEX	Xylene (m & p)	100		
841991	Water	2021-12-01	BTEX	Xylene (o)	95		
841991	Water	2021-12-01	BTEX	Xylene Total	98		
841991	Water	2021-12-01	TRH	C6-C10 Fraction (F1)	89		
841991	Water	2021-12-01	TRH	>C10-C16 Fraction (F2)	121		
841991	Water	2021-12-01	Halogenated Benzenes	Hexachlorobenzene	108		
841991	Water	2021-12-01	Metals	Arsenic	101		
841991	Water	2021-12-01	Metals	Cadmium	97		
841991	Water	2021-12-01	Metals	Chromium (III+VI)	98		
841991	Water	2021-12-01	Metals	Copper	95		
841991	Water	2021-12-01	Metals	Lead	96		
841991	Water	2021-12-01	Metals	Mercury	104		
841991	Water	2021-12-01	Metals	Nickel	94		
841991	Water	2021-12-01	Metals	Zinc	97		
841991	Water	2021-12-01	Organochlorine Pesticides	4,4-DDE	116		
841991	Water	2021-12-01	Organochlorine Pesticides	a-BHC	107		
841991	Water	2021-12-01	Organochlorine Pesticides	Aldrin	114		
841991	Water	2021-12-01	Organochlorine Pesticides	b-BHC	111		
841991	Water	2021-12-01	Organochlorine Pesticides	Chlordane	114		
841991	Water	2021-12-01	Organochlorine Pesticides	d-BHC	114		
841991	Water	2021-12-01	Organochlorine Pesticides	DDD	112		
841991	Water	2021-12-01	Organochlorine Pesticides	DDT	110		
841991	Water	2021-12-01	Organochlorine Pesticides	Dieldrin	111		
841991	Water	2021-12-01	Organochlorine Pesticides	Endosulfan I	114		
841991	Water	2021-12-01	Organochlorine Pesticides	Endosulfan II	107		
841991	Water	2021-12-01	Organochlorine Pesticides	Endosulfan sulphate	109		
841991	Water	2021-12-01	Organochlorine Pesticides	Endrin	120		
841991	Water	2021-12-01	Organochlorine Pesticides	Endrin aldehyde	117		
841991	Water	2021-12-01	Organochlorine Pesticides	Endrin ketone	106		
841991	Water	2021-12-01	Organochlorine Pesticides	g-BHC (Lindane)	118		
841991	Water	2021-12-01	Organochlorine Pesticides	Heptachlor	114		
841991	Water	2021-12-01	Organochlorine Pesticides	Heptachlor epoxide	114		
841991	Water	2021-12-01	Organochlorine Pesticides	Methoxychlor	107		
841991	Water	2021-12-01	Organophosphorous Pesticides	Diazinon	118		
841991	Water	2021-12-01	Organophosphorous Pesticides	Dimethoate	96		
841991	Water	2021-12-01	Organophosphorous Pesticides	Ethion	107		
841991	Water	2021-12-01	Organophosphorous Pesticides	Fenitrothion	120		
841991	Water	2021-12-01	Organophosphorous Pesticides	Methyl parathion	122		
841991	Water	2021-12-01	Organophosphorous Pesticides	Mevinphos (Phosdrin)	111		
841991	Water	2021-12-01	PAH	Acenaphthene	88		
841991	Water	2021-12-01	PAH	Acenaphthylene	90		
841991	Water	2021-12-01	PAH	Anthracene	100		
841991	Water	2021-12-01	PAH	Benz(a)anthracene	101		
841991	Water	2021-12-01	PAH	Benz(a) pyrene	101		
841991	Water	2021-12-01	PAH	Benzo(b+j)fluoranthene	116		
841991	Water	2021-12-01	PAH	Benzo(g,h,i)perylene	107		
841991	Water	2021-12-01	PAH	Benzo(k)fluoranthene	98		
841991	Water	2021-12-01	PAH	Chrysene	98		
841991	Water	2021-12-01	PAH	Dibenz(a,h)anthracene	108		
841991	Water	2021-12-01	PAH	Fluoranthene	103		
841991	Water	2021-12-01	PAH	Fluorene	104		
841991	Water	2021-12-01	PAH	Indeno(1,2,3-c,d)pyrene	109		
841991	Water	2021-12-01	PAH	Naphthalene	79		
841991	Water	2021-12-01	PAH	Phenanthrene	102		
841991	Water	2021-12-01	PAH	Pyrene	104		
841991	Water	2021-12-01	PCBs	Arochlor 1016	102		
841991	Water	2021-12-01	PCBs	Arochlor 1260	110		
841991	Water	2021-12-01	TPH	C6-C9 Fraction	89		
841991	Water	2021-12-01	TPH	C10-C14 Fraction	124		
844049	Soil	2021-12-02	BTEX	Naphthalene (VOC)	89		
844049	Soil	2021-12-02	BTEX	Benzene	120		
844049	Soil	2021-12-02	BTEX	Toluene	112		
844049	Soil	2021-12-02	BTEX	Ethylbenzene	104		
844049	Soil	2021-12-02	BTEX	Xylene (m & p)	107		
844049	Soil	2021-12-02	BTEX	Xylene (o)	103		
844049	Soil	2021-12-02	BTEX	Xylene Total	105		
844049	Soil	2021-12-02	TRH	C6-C10 Fraction (F1)	105		
844049	Soil	2021-12-02	TRH	>C10-C16 Fraction (F2)	101		
844049	Soil	2021-12-02	Phenols	3&4-Methylphenol (m&p-cresol)	107		
844049	Soil	2021-12-02	Phenols	2,4,5-Trichlorophenol	101		
844049	Soil	2021-12-02	Phenols	2,4,6-Trichlorophenol	116		
844049	Soil	2021-12-02	Phenols	2,4-Dichlorophenol	110		</

Lab Control Samples

Lab Report Number	Matrix Type	Analysis Batch	Chem Group	Chem Name	Result	LCL	UCL
844049	Soil	2021-12-02	Phenols	2,4-Dimethylphenol	111		
844049	Soil	2021-12-02	Phenols	2,6-Dichlorophenol	116		
844049	Soil	2021-12-02	Phenols	2-Chlorophenol	109		
844049	Soil	2021-12-02	Phenols	2-Methylphenol	110		
844049	Soil	2021-12-02	Phenols	2-Nitrophenol	127		
844049	Soil	2021-12-02	Phenols	4-chloro-3-methylphenol	110		
844049	Soil	2021-12-02	Phenols	4-Nitrophenol	105		
844049	Soil	2021-12-02	Phenols	Pentachlorophenol	82		
844049	Soil	2021-12-02	Phenols	Tetrachlorophenols	98		
844049	Soil	2021-12-02	Phenols	Phenol	107		
844049	Soil	2021-12-02	Chlorinated Hydrocarbons	1,1,1-trichloroethane	84		
844049	Soil	2021-12-02	Chlorinated Hydrocarbons	1,1-dichloroethene	95		
844049	Soil	2021-12-02	Chlorinated Hydrocarbons	1,2-dichloroethane	109		
844049	Soil	2021-12-02	Chlorinated Hydrocarbons	Trichloroethene	102		
844049	Soil	2021-12-02	Halogenated Benzenes	1,2-dichlorobenzene	97		
844049	Soil	2021-12-02	Halogenated Benzenes	Hexachlorobenzene	98		
844049	Soil	2021-12-02	Herbicides	Dinoseb	75		
844049	Soil	2021-12-02	Inorganics	Conductivity (1:5 aqueous extract)	93		
844049	Soil	2021-12-02	Metals	Arsenic	91		
844049	Soil	2021-12-02	Metals	Cadmium	91		
844049	Soil	2021-12-02	Metals	Chromium (III+VI)	93		
844049	Soil	2021-12-02	Metals	Copper	94		
844049	Soil	2021-12-02	Metals	Iron	96		
844049	Soil	2021-12-02	Metals	Lead	95		
844049	Soil	2021-12-02	Metals	Mercury	94		
844049	Soil	2021-12-02	Metals	Nickel	94		
844049	Soil	2021-12-02	Metals	Zinc	92		
844049	Soil	2021-12-02	Organochlorine Pesticides	4,4-DDE	91		
844049	Soil	2021-12-02	Organochlorine Pesticides	a-BHC	97		
844049	Soil	2021-12-02	Organochlorine Pesticides	Aldrin	87		
844049	Soil	2021-12-02	Organochlorine Pesticides	b-BHC	109		
844049	Soil	2021-12-02	Organochlorine Pesticides	Chlordane	106		
844049	Soil	2021-12-02	Organochlorine Pesticides	d-BHC	106		
844049	Soil	2021-12-02	Organochlorine Pesticides	DDD	91		
844049	Soil	2021-12-02	Organochlorine Pesticides	DDT	110		
844049	Soil	2021-12-02	Organochlorine Pesticides	Dieldrin	98		
844049	Soil	2021-12-02	Organochlorine Pesticides	Endosulfan I	99		
844049	Soil	2021-12-02	Organochlorine Pesticides	Endosulfan II	102		
844049	Soil	2021-12-02	Organochlorine Pesticides	Endosulfan sulphate	100		
844049	Soil	2021-12-02	Organochlorine Pesticides	Endrin	116		
844049	Soil	2021-12-02	Organochlorine Pesticides	Endrin aldehyde	87		
844049	Soil	2021-12-02	Organochlorine Pesticides	Endrin ketone	106		
844049	Soil	2021-12-02	Organochlorine Pesticides	g-BHC (Lindane)	106		
844049	Soil	2021-12-02	Organochlorine Pesticides	Heptachlor	115		
844049	Soil	2021-12-02	Organochlorine Pesticides	Heptachlor epoxide	94		
844049	Soil	2021-12-02	Organochlorine Pesticides	Methoxychlor	111		
844049	Soil	2021-12-02	Organophosphorous Pesticides	Diazinon	83		
844049	Soil	2021-12-02	Organophosphorous Pesticides	Dimethoate	76		
844049	Soil	2021-12-02	Organophosphorous Pesticides	Ethion	103		
844049	Soil	2021-12-02	Organophosphorous Pesticides	Fenitrothion	78		
844049	Soil	2021-12-02	Organophosphorous Pesticides	Methyl parathion	97		
844049	Soil	2021-12-02	Organophosphorous Pesticides	Mevinphos (Phosdrin)	108		
844049	Soil	2021-12-02	PAH	Acenaphthene	112		
844049	Soil	2021-12-02	PAH	Acenaphthylene	108		
844049	Soil	2021-12-02	PAH	Anthracene	103		
844049	Soil	2021-12-02	PAH	Benz(a)anthracene	109		
844049	Soil	2021-12-02	PAH	Benzo(a) pyrene	102		
844049	Soil	2021-12-02	PAH	Benzo(b+j)fluoranthene	115		
844049	Soil	2021-12-02	PAH	Benzo(g,h,i)perylene	106		
844049	Soil	2021-12-02	PAH	Benzo(k)fluoranthene	116		
844049	Soil	2021-12-02	PAH	Chrysene	105		
844049	Soil	2021-12-02	PAH	Dibenz(a,h)anthracene	102		
844049	Soil	2021-12-02	PAH	Fluoranthene	106		
844049	Soil	2021-12-02	PAH	Fluorene	101		
844049	Soil	2021-12-02	PAH	Indeno(1,2,3-c,d)pyrene	107		
844049	Soil	2021-12-02	PAH	Naphthalene	107		
844049	Soil	2021-12-02	PAH	Phenanthrene	109		
844049	Soil	2021-12-02	PAH	Pyrene	106		
844049	Soil	2021-12-02	TPH	C6-C9 Fraction	108		
844049	Soil	2021-12-02	TPH	C10-C14 Fraction	104		

Lab Control Samples. Where no lab LCL and UCL is available, user defined limits between 75% and 125% have been adopted for non-compliance.

Appendix VI – Test Pit Logs



ADE CONSULTING GROUP
6/7 MILLENNIUM COURT SILVERWATER
NSW 2128
Telephone: 1300796922

TEST PIT NUMBER TP1

PAGE 1 OF 1

CLIENT Delta Group

PROJECT NUMBER 21.1508

PROJECT NAME In-Situ Soil Assessment

PROJECT LOCATION Westmead, NSW

DATE STARTED 15/11/2021 COMPLETED 15/11/2021

R.L. SURFACE _____ DATUM _____

EXCAVATION CONTRACTOR Delta

SLOPE --- BEARING ---

EQUIPMENT Excavator

CO-ORDINATES E 313803.86 N 6257188.71

TEST PIT SIZE _____

LOGGED BY EC CHECKED BY TN

NOTES _____

Excavator €	Method	Water	RL (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
						FILL: Silty CLAY: Low plasticity, brown with gravels and sand	D	S			FM: Terracotta; No hydrocarbon odours identified throughout the soil profile
			0.5			FILL: CLAY: Medium to High plasticity, red and orange, with rootlets.	D	St	0.1	WAC1.TP1_0.5 + BR1/SR1	
			1.0						0.1	WAC1.TP1_0.9	
			1.5								
			2.0			TP1 terminated at 1.8m					
			2.5								



ADE CONSULTING GROUP
6/7 MILLENNIUM COURT SILVERWATER
NSW 2128
Telephone: 1300796922

TEST PIT NUMBER TP2

PAGE 1 OF 1

CLIENT Delta Group

PROJECT NUMBER 21.1508

PROJECT NAME In-Situ Soil Assessment

PROJECT LOCATION Westmead, NSW

DATE STARTED 23/11/2021 COMPLETED 23/11/2021

R.L. SURFACE _____ DATUM _____

EXCAVATION CONTRACTOR Delta

SLOPE --- BEARING ---

EQUIPMENT Excavator

CO-ORDINATES E 313801.64 N 6257173.94

TEST PIT SIZE _____

LOGGED BY EC CHECKED BY TN

NOTES _____

Method	Water	RL (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E					FILL: Sandy CLAY: Low plasticity, dark brown	D	S		WAC1.FC1_0.1; TP2_FC2_0.1	
		0.5			FILL: CLAY: Moderate plasticity, reddish brown, with trace gravels	D	St	0.5	WAC1.TP2_0.5	
		1.0			FILL: CLAY: Moderate plasticity, light grey with brown inclusions, with trace gravels	D	St	0.3	WAC1.TP2_0.9	
		1.5								
		2.0			TP2 terminated at 1.8m					Target depth reached; No hydrocarbon odours identified throughout the soil profile
		2.5								



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TEST PIT NUMBER TP3

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CLIENT Delta Group

PROJECT NUMBER 21.1508

PROJECT NAME In-Situ Soil Assessment

PROJECT LOCATION Westmead, NSW

DATE STARTED 15/11/2021 COMPLETED 15/11/2021 R.L. SURFACE DATUM
EXCAVATION CONTRACTOR Delta SLOPE --- BEARING ---
EQUIPMENT Excavator CO-ORDINATES E 313791.88 N 6257161.78
TEST PIT SIZE LOGGED BY EC CHECKED BY TN
NOTES

Method	Water	RL (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E					FILL: Silty SAND: Dark brown with small gravels	D	S			
		0.5			FILL: CLAY: Moderate plasticity, reddish brown, with trace gravels	D	St	0.6	WAC1.TP3_FC3_0.1	
		1.0							WAC1.TP3_0.5	
		1.5			FILL: CLAY: Moderate plasticity, light grey with shalestone fragments	D	St	0.3		
		2.0			TP3 terminated at 1.8m				WAC1.TP3_1.8	Target depth reached; No hydrocarbon odours identified throughout the soil profile
		2.5								



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TEST PIT NUMBER TP4

PAGE 1 OF 1

CLIENT Delta Group

PROJECT NUMBER 21.1508

PROJECT NAME In-Situ Soil Assessment

PROJECT LOCATION Westmead, NSW

DATE STARTED 15/11/2021

COMPLETED 15/11/2021

R.L. SURFACE

DATUM

EXCAVATION CONTRACTOR Delta

SLOPE ---

BEARING ---

EQUIPMENT Excavator

CO-ORDINATES E 313826.73 N 6257158.61

TEST PIT SIZE

LOGGED BY EC

CHECKED BY TN

NOTES

Method	Water	RL (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
Hand Auger (HA)					FILL: Silty CLAY: Low plasticity, brown with gravels and sand	D	S	0.2	WAC1.TP4_0.2	
		0.5			FILL: CLAY: Moderate plasticity, light grey with shalestone fragments	D	St	0.2	WAC1.TP4_0.5 +rinse 1	
		1.0								Termination due to natural lithology; No hydrocarbon odours identified throughout the soil profile
		1.5								
		2.0			TP4 terminated at 1.8m					
		2.5								



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TEST PIT NUMBER TP5

PAGE 1 OF 1

CLIENT Delta Group

PROJECT NUMBER 21.1508

PROJECT NAME In-Situ Soil Assessment

PROJECT LOCATION Westmead, NSW

DATE STARTED 24/11/2021 COMPLETED 24/11/2021

R.L. SURFACE _____ DATUM _____

EXCAVATION CONTRACTOR Delta

SLOPE --- BEARING ---

EQUIPMENT Excavator

CO-ORDINATES E 313761.769 N 6257170.549

TEST PIT SIZE _____

LOGGED BY EC CHECKED BY TN

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E			0.5			FILL: Silty CLAY: Low plasticity, dark brown, with rootlets	M	S	0		WAC1.TP5_0.3
			0.5		CL	CLAY: Moderate plasticity, red to brown, with angular trace gravels	D	St	0.3		WAC1.TP5_0.7
			1.0								
			1.5			TP5 terminated at 1.2m					
			2.0								
			2.5								Target depth reached; No hydrocarbon odours identified throughout the soil profile



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TEST PIT NUMBER TP6

PAGE 1 OF 1

CLIENT Delta Group

PROJECT NUMBER 21.1508

PROJECT NAME In-Situ Soil Assessment

PROJECT LOCATION Westmead, NSW

DATE STARTED 15/11/2021 COMPLETED 15/11/2021

R.L. SURFACE _____ DATUM _____

EXCAVATION CONTRACTOR Delta

SLOPE --- BEARING ---

EQUIPMENT Excavator

CO-ORDINATES E 313752.15 N 6257173.21

TEST PIT SIZE _____

LOGGED BY EC CHECKED BY TN

NOTES _____

Method	Water	RL (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E					FILL: Silty CLAY: Low plasticity, black, with vegetation and rootlets	M	S	0.1		
				CL	CLAY: High plasticity, orange to grey	D	St	0.1	WAC1.TP6_0.3	
		0.5							WAC1.TP6_0.5	Refusal due to concrete slab; No hydrocarbon odours identified throughout the soil profile
		1.0								
		1.5								
		2.0			TP6 terminated at 1.8m					
		2.5								



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TEST PIT NUMBER TP7

PAGE 1 OF 1

CLIENT Delta Group

PROJECT NUMBER 21.1508

PROJECT NAME In-Situ Soil Assessment

PROJECT LOCATION Westmead, NSW

DATE STARTED 15/11/2021 COMPLETED 15/11/2021

R.L. SURFACE _____ DATUM _____

EXCAVATION CONTRACTOR Delta

SLOPE --- BEARING ---

EQUIPMENT Excavator

CO-ORDINATES E 313727.77 N 6257212.31

TEST PIT SIZE _____

LOGGED BY EC CHECKED BY TN

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E						FILL: Silty CLAY: Low plasticity, brown, with sand and ash present	M	S			
			0.5		CL	CLAY: Moderate to High plasticity, light grey	M	St	0.8	WAC1.TP7_0.3	
			1.0			Concrete TP7 terminated at 0.7m	D	St	0.3	WAC1.TP7_0.7	
			1.5								
			2.0								
			2.5								Target depth reached; No hydrocarbon odours identified throughout the soil profile



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TEST PIT NUMBER TP8

PAGE 1 OF 1

CLIENT Delta Group

PROJECT NUMBER 21.1508

PROJECT NAME In-Situ Soil Assessment

PROJECT LOCATION Westmead, NSW

DATE STARTED 15/11/2021 COMPLETED 15/11/2021

R.L. SURFACE _____ DATUM _____

EXCAVATION CONTRACTOR Delta

SLOPE --- BEARING ---

EQUIPMENT Excavator

CO-ORDINATES E 313723.464 N 6257197.988

TEST PIT SIZE _____

LOGGED BY EC CHECKED BY TN

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E			0.5			FILL: Silty CLAY: Low plasticity, brown	M	S	0.2	WAC1.TP8_0.2	
			CL			CLAY: High plasticity, red and orange	D	St	0.7	WAC1.TP8_0.5	
			1.0								Termination due to natural lithology; No hydrocarbon odours identified throughout the soil profile
			1.5								
			2.0			TP8 terminated at 1.8m					
			2.5								



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TEST PIT NUMBER TP9

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CLIENT Delta Group

PROJECT NUMBER 21.1508

PROJECT NAME In-Situ Soil Assessment

PROJECT LOCATION Westmead, NSW

DATE STARTED 15/11/2021

COMPLETED 15/11/2021

R.L. SURFACE

DATUM

EXCAVATION CONTRACTOR Delta

SLOPE ---

BEARING ---

EQUIPMENT Excavator

CO-ORDINATES E 313720.362 N 6257181.396

TEST PIT SIZE

LOGGED BY EC

CHECKED BY TN

NOTES

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E						FILL: Silty CLAY: Low plasticity, dark brown	M	S	0.6	WAC1.TP9_0.2	
			0.5		CL	CLAY: Moderate to High plasticity, dark red, with angular trace gravels	M	St	0.1	WAC1.TP9_0.9	
			1.0		CL	CLAY: Moderate to high plasticity, light grey with orange mottling	D				
			1.5			TP9 terminated at 1.3m					
			2.0								
			2.5								Target depth reached; No hydrocarbon odours identified throughout the soil profile



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TEST PIT NUMBER TP10

PAGE 1 OF 1

CLIENT Delta Group

PROJECT NUMBER 21.1508

PROJECT NAME In-Situ Soil Assessment

PROJECT LOCATION Westmead, NSW

DATE STARTED 15/11/2021

COMPLETED 15/11/2021

R.L. SURFACE

DATUM

EXCAVATION CONTRACTOR Delta

SLOPE ---

BEARING ---

EQUIPMENT Excavator

CO-ORDINATES E 313731.318 N 6257184.717

TEST PIT SIZE

LOGGED BY EC

CHECKED BY TN

NOTES

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
Hand Auger (HA)						FILL: Silty CLAY: Low plasticity, dark brown	D	S	0.3	WAC1.TP10_0.2	
			0.5		CL	CLAY: Moderate to High plasticity, dark red, with angular trace gravels	D	St	0.2	WAC1.TP10_0.5	Hand auger refusal; No hydrocarbon odours identified throughout the soil profile
			1.0		CL	CLAY: Moderate to high plasticity, light grey with orange mottling	D	Vst			
			1.5								
			2.0			TP10 terminated at 1.8m					
			2.5								



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TEST PIT NUMBER TP11

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CLIENT Delta Group

PROJECT NUMBER 21.1508

PROJECT NAME In-Situ Soil Assessment

PROJECT LOCATION Westmead, NSW

DATE STARTED 15/11/2021 COMPLETED 15/11/2021

R.L. SURFACE _____ DATUM _____

EXCAVATION CONTRACTOR Delta

SLOPE --- BEARING ---

EQUIPMENT Excavator

CO-ORDINATES E 313705.463 N 6257228.145

TEST PIT SIZE _____

LOGGED BY EC CHECKED BY TN

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
HA						FILL: Silty CLAY: Low plasticity, dark brown	D	S	0.1		
			0.5		CL	CLAY: low to moderate plasticity, grey with orange mottling	M	St	0.3	WAC1.TP11_0.3	WAC1.TP11_0.5
			1.0			TP11 terminated at 0.6m					
			1.5								
			2.0								
			2.5								Target depth reached; No hydrocarbon odours identified throughout the soil profile



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TEST PIT NUMBER TP12

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CLIENT Delta Group

PROJECT NUMBER 21.1508

PROJECT NAME In-Situ Soil Assessment

PROJECT LOCATION Westmead, NSW

DATE STARTED 23/11/2021 COMPLETED 23/11/2021

R.L. SURFACE _____ DATUM _____

EXCAVATION CONTRACTOR Delta

SLOPE --- BEARING ---

EQUIPMENT Excavator

CO-ORDINATES E 313706.52 N 6257155.165

TEST PIT SIZE _____

LOGGED BY EC CHECKED BY TN

NOTES _____

Method	Water	RL (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E					FILL: Silty CLAY: Low plasticity, dark brown	M	S	0.2	WAC1.TP12_0.3 +BR2/SR2	
		0.5		CL	CLAY: Moderate plasticity, light grey with brown inclusion	M	St	0.2	WAC1.TP12_0.5	
		1.0		CL	CLAY: Moderate plasticity, light grey with shalestone fragments	M	Vst			
		1.5								Termination due to natural lithology; No hydrocarbon odours identified throughout the soil profile
		2.0			TP12 terminated at 1.8m					
		2.5								



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TEST PIT NUMBER TP13

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CLIENT Delta Group

PROJECT NUMBER 21.1508

PROJECT NAME In-Situ Soil Assessment

PROJECT LOCATION Westmead, NSW

DATE STARTED 23/11/2021 COMPLETED 23/11/2021

R.L. SURFACE _____ DATUM _____

EXCAVATION CONTRACTOR Delta

SLOPE --- BEARING ---

EQUIPMENT Excavator

CO-ORDINATES E 313698.431 N 6257161.552

TEST PIT SIZE _____

LOGGED BY EC CHECKED BY TN

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E			0.5			FILL: Silty CLAY: Low plasticity, dark brown with rootlets	M	S	0.2	WAC1.TP13_0.3	FM: glass
			1.0		CL	CLAY: Low to moderate plasticity, red to brown with grey inclusions	M	St	0.1	WAC1.TP13_1.0	Termination due to natural lithology; No hydrocarbon odours identified throughout the soil profile
			1.5			TP13 terminated at 1.5m					
			2.0								
			2.5								



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TEST PIT NUMBER TP14

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CLIENT Delta Group

PROJECT NUMBER 21.1508

PROJECT NAME In-Situ Soil Assessment

PROJECT LOCATION Westmead, NSW

DATE STARTED 23/11/2021 COMPLETED 23/11/2021 R.L. SURFACE DATUM
EXCAVATION CONTRACTOR Delta SLOPE --- BEARING ---
EQUIPMENT Excavator CO-ORDINATES E 313679.08 N 6257207.99
TEST PIT SIZE LOGGED BY EC CHECKED BY TN
NOTES

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E						FILL: Silty CLAY: Low plasticity, light brown with rootlets	M	S	0.2	WAC1.TP14_0.3	
			0.5		CL	CLAY: Moderate plasticity, red to brown with rootlets	D	St	0.2	WAC1.TP14_0.7	
			1.0			TP14 terminated at 0.8m					Termination due to natural lithology; No hydrocarbon odours identified throughout the soil profile
			1.5								
			2.0								
			2.5								



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TEST PIT NUMBER TP15

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CLIENT Delta Group

PROJECT NUMBER 21.1508

PROJECT NAME In-Situ Soil Assessment

PROJECT LOCATION Westmead, NSW

DATE STARTED 23/11/2021 COMPLETED 23/11/2021

R.L. SURFACE _____ DATUM _____

EXCAVATION CONTRACTOR Delta

SLOPE --- BEARING ---

EQUIPMENT Excavator

CO-ORDINATES E 313683.199 N 6257187.437

TEST PIT SIZE _____

LOGGED BY EC CHECKED BY TN

NOTES _____

Method	Water	RL (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E					FILL: Silty CLAY: Low plasticity, dark brown, with rootlets and trace gravels	M	S	0.3	WAC1.TP15_0.3	
		0.5		CL	CLAY: Moderate plasticity, red to brown with rootlets	M	St	0.4	WAC1.TP15_0.7	
		1.0		CL	CLAY: Moderate plasticity, light grey with brown inclusion	M	Vst			Termination due to natural lithology; No hydrocarbon odours identified throughout the soil profile
		1.5			TP15 terminated at 1.1m					
		2.0								
		2.5								



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TEST PIT NUMBER TP16

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CLIENT Delta Group

PROJECT NUMBER 21.1508

PROJECT NAME In-Situ Soil Assessment

PROJECT LOCATION Westmead, NSW

DATE STARTED 23/11/2021 COMPLETED 23/11/2021 R.L. SURFACE DATUM
EXCAVATION CONTRACTOR Delta SLOPE --- BEARING ---
EQUIPMENT Excavator CO-ORDINATES E 313717.543 N 6257140.847
TEST PIT SIZE LOGGED BY EC CHECKED BY TN
NOTES

Method	Water	RL (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E					FILL: Silty CLAY: Low plasticity, dark brown, with rootlets and trace gravels	M	S	0.2	WAC1.TP15_0.3	
		0.5		CL	CLAY: Moderate plasticity, red to brown with rootlets	M	St	0.1	WAC1.TP15_0.5	
		1.0			TP16 terminated at 1m					Termination due to natural lithology; No hydrocarbon odours identified throughout the soil profile
		1.5								
		2.0								
		2.5								



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TEST PIT NUMBER TP17

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CLIENT Delta Group

PROJECT NUMBER 21.1508

PROJECT NAME In-Situ Soil Assessment

PROJECT LOCATION Westmead, NSW

DATE STARTED 23/11/2021 COMPLETED 23/11/2021

R.L. SURFACE _____ DATUM _____

EXCAVATION CONTRACTOR Delta

SLOPE --- BEARING ---

EQUIPMENT Excavator

CO-ORDINATES E 313742.41 N 6257137.15

TEST PIT SIZE _____

LOGGED BY EC CHECKED BY TN

NOTES _____

Method	Water	RL (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E					FILL: Silty CLAY: Low plasticity, dark brown, with rootlets and trace gravels	M	S	0.1	WAC1.TP17_0.3	
		0.5		CL	CLAY: Moderate plasticity, red to brown with rootlets	M	St	0.1	WAC1.TP17_0.6	
		1.0			TP17 terminated at 1m					Termination due to natural lithology; No hydrocarbon odours identified throughout the soil profile
		1.5								
		2.0								
		2.5								



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TEST PIT NUMBER TP18

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CLIENT Delta Group

PROJECT NUMBER 21.1508

PROJECT NAME In-Situ Soil Assessment

PROJECT LOCATION Westmead, NSW

DATE STARTED 23/11/2021 COMPLETED 23/11/2021

R.L. SURFACE _____ DATUM _____

EXCAVATION CONTRACTOR Delta

SLOPE --- BEARING ---

EQUIPMENT Excavator

CO-ORDINATES E 313739.594 N 6257135.62

TEST PIT SIZE _____

LOGGED BY EC CHECKED BY TN

NOTES _____

Method	Water	RL (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E					FILL: Silty CLAY: Low plasticity, dark brown, with rootlets and trace gravels	M	S	0.3	WAC1.TP18_0.2	
		0.5		CL	CLAY: Moderate plasticity, red to brown with rootlets	M	St	0.5	WAC1.TP18_0.8	
		1.0			TP18 terminated at 1m					Termination due to natural lithology; No hydrocarbon odours identified throughout the soil profile
		1.5								
		2.0								
		2.5								



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TEST PIT NUMBER TP19

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CLIENT Delta Group

PROJECT NUMBER 21.1508

PROJECT NAME In-Situ Soil Assessment

PROJECT LOCATION Westmead, NSW

DATE STARTED 23/11/2021 COMPLETED 23/11/2021 R.L. SURFACE DATUM
EXCAVATION CONTRACTOR Delta SLOPE --- BEARING ---
EQUIPMENT Excavator CO-ORDINATES E 313765.507 N 6257131.8
TEST PIT SIZE LOGGED BY EC CHECKED BY TN
NOTES

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E						FILL: Silty CLAY: Low plasticity, dark brown, with angular gravels	M	S	0.3		
					CL	CLAY: Moderate plasticity, red to grey with angular gravels	M	St	0.1	WAC1.TP19_0.2	
		0.5				TP19 terminated at 0.4m				WAC1.TP19_0.4	Termination due to concrete slab; No hydrocarbon odours identified throughout the soil profile
		1.0									
		1.5									
		2.0									
		2.5									



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TEST PIT NUMBER TP20

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CLIENT Delta Group

PROJECT NUMBER 21.1508

PROJECT NAME In-Situ Soil Assessment

PROJECT LOCATION Westmead, NSW

DATE STARTED 24/11/2021 COMPLETED 24/11/2021

R.L. SURFACE _____ DATUM _____

EXCAVATION CONTRACTOR Delta

SLOPE --- BEARING ---

EQUIPMENT Excavator

CO-ORDINATES E 33.809593 N 6257136.116

TEST PIT SIZE _____

LOGGED BY EC CHECKED BY TN

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E						FILL: Silty CLAY: Low plasticity, dark brown, with roots	M	S	0.2		
			0.5		CL	CLAY: Moderate plasticity, red to brown with angular gravels	M	St	0.8	WAC1.TP20_0.3 WAC1.TP20_0.5	
			1.0			TP20 terminated at 0.6m					Termination due to natural lithology; No hydrocarbon odours identified throughout the soil profile
			1.5								
			2.0								
			2.5								



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TEST PIT NUMBER TP21

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CLIENT Delta Group

PROJECT NUMBER 21.1508

PROJECT NAME In-Situ Soil Assessment

PROJECT LOCATION Westmead, NSW

DATE STARTED 24/11/2021 COMPLETED 24/11/2021

R.L. SURFACE _____ DATUM _____

EXCAVATION CONTRACTOR Delta

SLOPE --- BEARING ---

EQUIPMENT Excavator

CO-ORDINATES E 313808.016 N 6257131.743

TEST PIT SIZE _____

LOGGED BY EC CHECKED BY TN

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E						FILL: Silty CLAY: Low plasticity, dark brown, with roots	M	S	0.1	WAC1.TP21_FC4_0.1	
			0.5		CL	CLAY: Moderate plasticity, red to brown with angular gravels	M	St	0.2	WAC1.TP21_0.3	
						TP21 terminated at 0.7m			0.4	WAC1.TP21_0.5	
			1.0								Termination due to natural lithology; No hydrocarbon odours identified throughout the soil profile
			1.5								
			2.0								
			2.5								



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TEST PIT NUMBER TP22

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CLIENT Delta Group

PROJECT NUMBER 21.1508

PROJECT NAME In-Situ Soil Assessment

PROJECT LOCATION Westmead, NSW

DATE STARTED 24/11/2021 COMPLETED 24/11/2021

R.L. SURFACE _____ DATUM _____

EXCAVATION CONTRACTOR Delta

SLOPE --- BEARING ---

EQUIPMENT Excavator

CO-ORDINATES E 313817.138 N 6257129.37

TEST PIT SIZE _____

LOGGED BY EC CHECKED BY TN

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E						FILL: Silty CLAY: Low plasticity, dark brown, with brown and grey clays	M	S	0.2	WAC1.TP22_0.3	
			0.5		CL	CLAY: Moderate plasticity, red to brown with angular gravels	M	St	0.1	WAC1.TP22_0.5	
			1.0			TP22 terminated at 0.6m					Termination due to natural lithology; No hydrocarbon odours identified throughout the soil profile
			1.5								
			2.0								
			2.5								



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TEST PIT NUMBER TP23

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CLIENT Delta Group

PROJECT NUMBER 21.1508

PROJECT NAME In-Situ Soil Assessment

PROJECT LOCATION Westmead, NSW

DATE STARTED 24/11/2021 COMPLETED 24/11/2021

R.L. SURFACE _____ DATUM _____

EXCAVATION CONTRACTOR Delta

SLOPE --- BEARING ---

EQUIPMENT Excavator

CO-ORDINATES E 313808.05 N 6257168.84

TEST PIT SIZE _____

LOGGED BY EC CHECKED BY TN

NOTES _____

Method	Water	RL (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E					FILL: Sandy CLAY: Low plasticity, dark brown	M	S	0.3	WAC1.TP23_FC5_0.1	
		0.5		CL	CLAY : Moderate plasticity, red to brown with angular gravels	M	St	0.3	WAC1.TP23_0.3	
					TP23 terminated at 0.7m				WAC1.TP23_0.6	Termination due to natural lithology; No hydrocarbon odours identified throughout the soil profile
		1.0								
		1.5								
		2.0								
		2.5								



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6/7 MILLENNIUM COURT SILVERWATER
NSW 2128
Telephone: 1300796922

TEST PIT NUMBER TP24

PAGE 1 OF 1

CLIENT Delta Group

PROJECT NUMBER 21.1508

PROJECT NAME In-Situ Soil Assessment

PROJECT LOCATION Westmead, NSW

DATE STARTED 24/11/2021 COMPLETED 24/11/2021

R.L. SURFACE _____ DATUM _____

EXCAVATION CONTRACTOR Delta

SLOPE --- BEARING ---

EQUIPMENT Excavator

CO-ORDINATES E 313787.04 N 6257122.06

TEST PIT SIZE _____

LOGGED BY EC CHECKED BY TN

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E			0.5			FILL: Silty CLAY: Low plasticity, dark brown, with roots	M	S	0.5		
			0.5		CL	CLAY: Moderate plasticity, red to brown with angular gravels	M	St	0.3	WAC1.TP24_0.5	
			1.0			TP24 terminated at 1.1m				WAC1.TP24_1.0	Termination due to natural lithology; No hydrocarbon odours identified throughout the soil profile
			1.5								
			2.0								
			2.5								



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6/7 MILLENNIUM COURT SILVERWATER
NSW 2128
Telephone: 1300796922

TEST PIT NUMBER TP25

PAGE 1 OF 1

CLIENT Delta Group

PROJECT NUMBER 21.1508

PROJECT NAME In-Situ Soil Assessment

PROJECT LOCATION Westmead, NSW

DATE STARTED 24/11/2021 COMPLETED 24/11/2021

R.L. SURFACE _____ DATUM _____

EXCAVATION CONTRACTOR Delta

SLOPE --- BEARING ---

EQUIPMENT Excavator

CO-ORDINATES E 313740.89 N 6257179.28

TEST PIT SIZE _____

LOGGED BY EC CHECKED BY TN

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E						FILL: Silty CLAY: Low plasticity, dark brown, with roots	M	S	0.2	WAC1.TP25_0.3 + BR3/SR3	
			0.5		CL	CLAY: Moderate plasticity, red to brown with angular gravels	M	St	0.1	WAC1.TP25_0.7	
			1.0			TP25 terminated at 0.9m					Termination due to natural lithology; No hydrocarbon odours identified throughout the soil profile
			1.5								
			2.0								
			2.5								

Appendix VII – Analytical Reports and Chain of Custody Documentation

Comments:

Container Type and Preservative: P = Unpreserved Plastic; PN = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; PNA = Sodium Hydroxide Preserved Plastic; PC = HCl preserved Plastic; VC = Vial HCl Preserved; SP = Sulfuric Preserved Plastic;

VB = Vial Sodium Bisulphite Preserved; VS = Vial Sulfuric Preserved; V = Unpreserved Vial; G = Amber Glass Unpreserved; SG = Sulfuric Preserved Amber Glass; F = Formaldehyde Preserved Glass; HS = HCl preserved Speciation bottle; Z = Zinc Acetate Preserved Bottle.

E = EDTA Preserved Bottle; ST = Sterile Bottle; J = Unpreserved Glass Jar; ASS = Plastic Bag for Acid Sulfate Soils; R = Unpreserved Bag.

Page 1 of 1

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Page 1 of 1

Sydney Laboratory Services

A division of A. D. Envirotech Australia Pty Ltd
A.C.N. 093 452 950
Unit 4/10-11 Millennium Court,
Silverwater 2128
Ph: (02) 9648-6669



Accreditation No.14664

Accredited for compliance with ISO/IEC 17025 - Testing.

SAMPLE RECEIPT NOTIFICATION (SRN)

Contact: Thesan. Naidoo
Project name: 21.1508
Number of samples: 2
COC number: 21.1508
Turn around time: STD
Date: 16.11.2021
Time received: 1:30 PM
SLS Reference: 2105605
Estimated Report Delivery Date: 23.11.2021

Sample information

- All samples have been received and logged into LIMS.
- No mistakes in the COC
- Samples were chilled
- N/A Samples were preserved
- N/A Custody seal intact
- Samples were delivered within holding time
- Samples to be tested for volatiles had zero headspace
- All samples were received in good condition (no broken jars, labelled correctly...).
- Samples have been subcontracted

Comments**This report contains:**

Sample receipt non-conformities
Summary of samples and requested analysis
Requested report deliverables

Contact details

If you have any questions with respect to these samples please contact:

sls@ade.group

Krista Johnston

SAMPLE RECEIPT NOTIFICATION (SRN)

Laboratory Sample ID	Client Sample ID	6 Metal Suite	8 Metal Suite	BTEX	PAH	OCP/OPP	PCB	VTRH	TRH	pH/EC	pH/pH fox	PFAS	Bulk	Dust	Dust Swab	Soil 05 grams	Soil 500 g NEPM	AAM
2021037536	TB1		X															
2021037537	TS1		X															

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Unit 4/10-11 Millennium Court,
Silverwater 2128
Ph: (02) 9648-6669

**Accreditation No.14664**

Accredited for compliance with ISO/IEC 17025 - Testing.

This certificate of analysis contains General Comments and Analytical Results. Quality Control Report and Laboratory Quality Acceptance Criteria have been issued separately.

This report supersedes any previous report(s) with this reference. This document shall not be reproduced, except in full.

This report has been electronically signed by authorised signatories below.

Authorised By

A handwritten signature in blue ink that appears to read "Kaiyu Li".

Kaiyu Li

General Comments

Samples are analysed on as received basis. Sampling is not covered by NATA accreditation.

Where moisture determination has been performed, results are reported on dry weight basis.

Where the PQL of reported result differs from standard PQL, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Samples were analysed within holding time described by laboratory internal procedures if not stated otherwise. If samples delivered do not meet required analytical criteria, results will be marked with ^.

However surrogate standards are added to samples, results are not corrected for standards recoveries.

Analysis of VOC in water samples are performed on unfiltered waters (as received) spiked with surrogates and injection standards only.

SLS is responsible for all the information in the report, except that provided by the customer.

All sampling information included in the report has been provided by customer.

Information provided by the customer can affect the validity of the results.

Certificate of Analysis

Contact:	Thesan Naidoo	Date Reported:	22/11/2021
Customer:	ADE Consulting Group	No. of Samples:	2
Address:	Unit 6 7 Millennium Court Silverwater NSW	Date Received:	17/11/2021
		Date of Analysis:	17/11/2021
Cust Ref:	21.1508		

Glossary:

- *NATA accreditation does not cover the performance of this service
- ND-not detected,
- NT-not tested
- INS-Insufficient material to perform the test
- LCS-Laboratory Control Sample
- RPD-Relative Percent Difference
- N/A-Not Applicable
- < less than
- > greater than
- PQL- Practical Quantitation Limit
- ^Analytical result might be compromised due to sample condition or holding time requirements
- Reaction rate 1 = Slight
- Reaction rate 2 = Moderate
- Reaction rate 3 = High
- Reaction rate 4 = Vigorous

Certificate of Analysis

Sample ID: 2021037536 2021037537

Sample Name TB1 TS1

Parameter	Units	PQL	TB1	TS1
ESA-P-ORG08 & ORG10				
Benzene		1	<1 ug/L	129%
Toluene		1	<1 ug/L	134%
Ethylbenzene		1	<1 ug/L	133%
m,p Xylene		2	<2 ug/L	121%
o Xylene		1	<1 ug/L	135%
Fluorobenzene (Surr.)	%		93	122

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Silverwater 2128
Ph: (02) 9648-6669

**Accreditation No.14664**

Accredited for compliance with ISO/IEC 17025 - Testing.

This Quality Control Report contains results of QAQC samples analysis and the Laboratory Acceptance Criteria.

This report supersedes any previous report(s) with this reference. This document shall not be reproduced, except in full.

This report has been electronically signed by authorised signatories below.

Authorised By

A handwritten signature in blue ink, appearing to read "Kaiyu Li".

Kaiyu Li

General Comments

Duplicate samples and matrix spike may not be prepared on smaller jobs, however are analysed at frequency. QAQC samples shown within the report as e.g. Batch Blank, Batch Matrix Spike were performed on samples not reported on that Certificate of Analysis.

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 the same manner as for samples.

Duplicate This is the interlaboratory split of a random sample from the processed batch

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.

Surr. (Surrogate Spike) Surrogates are known additions to each sample, blank and matrix spike or LCS in a batch. Surrogates are chosen as a compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Blank shall be < PQL

Matrix Spikes and LCS: Generally 70-130% for inorganics/metals/PFAS, 60-140% for organics is acceptable. Matrix heterogeneity may result in matrix spike analyses falling outside these limits

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

Results <10 times the PQL : No Limit

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

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

Surrogate Recoveries : Recoveries must lie between 50-150%

SLS is responsible for all the information in the report, except that provided by the customer.

All sampling information included in the report has been provided by customer.

Information provided by the customer can affect the validity of the results.

Quality Control Report

Contact: Thesan Naidoo **Date Reported:** 22/11/2021

Customer: ADE Consulting Group **No. of Samples:**

Address: Unit 6
7 Millennium Court
Silverwater NSW

Date Received: 17/11/2021

Date of Analysis: 17/11/2021

Cust Ref: 21.1508

Glossary:	
	*NATA accreditation does not cover the performance of this service
	ND-not detected,
	NT-not tested
	INS-Insufficient material to perform the test
	LCS-Laboratory Control Sample
	RPD-Relative Percent Difference
	N/A-Not Applicable
	< less than
	> greater than
	PQL- Practical Quantitation Limit
	^Analytical result might be compromised due to sample condition or holding time requirements
	Reaction rate 1 = Slight
	Reaction rate 2 = Moderate
	Reaction rate 3 = High
	Reaction rate 4 = Vigorous

Quality Control Report

Sample ID: D202103753901 D202103754801

Sample Name WAC65-TP1 WAC63-TP6

Parameter	Units	PQL		
ESA-P-ORG7 & ORG8				
Benzene			Pass	Pass
Toluene			Pass	Pass
Ethylbenzene			Pass	Pass
m,p Xylene			Pass	Pass
o Xylene			Pass	Pass
Fluorobenzene (Surr.)	%		87	122

Sample ID: Q2021009595

Sample Name

Parameter	Units	PQL	BTEX Blank Sp-Soil
ESA-P-ORG7 & ORG8			
Benzene	%		110
Toluene	%		104
Ethylbenzene	%		101
m,p Xylene	%		85
o Xylene	%		100
Fluorobenzene (Surr.)	%		102

Sample ID: Q2021009594

Sample Name

Parameter	Units	PQL	BTEX Blank - Soil
ESA-P-ORG7 & ORG8			
Benzene	mg/kg	0.5	<0.50
Toluene	mg/kg	0.5	<0.50
Ethylbenzene	mg/kg	1	<1.0
m,p Xylene	mg/kg	2	<2.0
o Xylene	mg/kg	1	<1.0

Sample ID: S202103753801

Sample Name WAC64-TP1

Parameter	Units	PQL	
ESA-P-ORG-07 & 08			
Benzene	%		100
Toluene	%		97
Ethylbenzene	%		91
m,p Xylene	%		77
o Xylene	%		92
Fluorobenzene (Surr.)	%		94

A50

Document Revision Date: 30.06.2020		ESA-F-02 COC - Chain Of Custody (Internal: Sydney Laboratory Services)												 ADECONSULTINGGROUP SOLUTIONS THROUGH INNOVATION									
PROJECT:		DSI westmead			LABORATORY REFERENCE NO. (Lab use ONLY):						21-1508 												
PROJECT NUMBER - INVOICE NUMBER		21.1508																					
SAMPLES DELIVERED BY:		ADE Consulting Group 6/7 Millennium Ct, Silverwater NSW 2128			RECEIVED BY: 			SIGNATURE:															
SAMPLERS:		elisha cassidy			SAMPLES: <input checked="" type="checkbox"/> CHILLED: <input type="checkbox"/> PRESERVED: <input checked="" type="checkbox"/> PRESERVATION METHOD: <input checked="" type="checkbox"/>			MINIMAL HEADSPACE: <input type="checkbox"/> WITHIN HOLDING TIME: <input type="checkbox"/>			CUSTODY SEAL INTACT: <input checked="" type="checkbox"/>												
TURNAROUND:		24h: <input type="checkbox"/> 48h: <input type="checkbox"/> 72h: <input type="checkbox"/> 5 WORKING DAYS:			DATE: 16/11/21			TIME: 1:30			TEMPERATURE UPON RECEIPT: *C												
SAMPLING DATE:		15.11.21			LIMS LOT NO. 2105602			LIMS/EXCEL SIGNATURE: 			COMMENTS:												
AFTER TEST STORAGE:		ROOM TEMP: <input type="checkbox"/> FRIDGE: <input checked="" type="checkbox"/> FREEZER: <input type="checkbox"/> >4 WEEKS: <input type="checkbox"/> OTHER: <input type="checkbox"/>																					
REPORT FORMAT:		HARD COPY: <input type="checkbox"/> E-MAIL: <input checked="" type="checkbox"/>			ANALYSES REQUIRED																		
CONSULTANTS SIGNATURE:		CONSULTANT E-MAIL: elisha.cassidy@ade.group; mathew.lynch@ade.group			Chem Lab						Asbestos			Mould	NOTES								
PROJECT MANAGERS SIGNATURE:		PROJECT MANAGERS E-MAIL: thesan.naidoo@ade.group													POTENTIAL HAZARDOUS CONTAMINANTS:								
SAMPLE DATA				CONTAINER DATA														<input checked="" type="checkbox"/> ASBESTOS <input type="checkbox"/> HYDROCARBONS <input type="checkbox"/> LEAD/ARSENIC <input type="checkbox"/> NO KNOWN <input type="checkbox"/> OTHER: _____ LAB PLEASE *EMAIL COC RECEIPT: <input type="checkbox"/>					
LIMS Sample ID <i>20210537</i>	Sample ID (ADE)	MATRIX	SAMPLE DATE	TYPE & PRESERVATIVE	NO.	6 Metal Suite	8 Metal Suite	BTEX	PAH	OCP/OPP	PCB	VTRH (C6-C10)	TRH (C10-C40)	standard phenols	VOCs/SVOCs	Standard suite	Bulk	Dust	Dust Swab	Soil 65g	Soil 500g NEPM	Airborne Asbestos Monitoring	Mould
<i>S11</i>	WAC1.TP1_0.5	S	15.11.21	B+G	1	X X X X X X		X X X X X X		X X X X X X		X X X X X X		X X X X X X						X			
<i>S12</i>	WAC1.TP1_1.8	S	15.11.21	B+G	2	X X X X X X		X X X X X X		X X X X X X		X X X X X X		X X X X X X						X			
<i>S13</i>	WAC1.TP2_0.5	S	15.11.21	B+G	3	X X X X X X		X X X X X X		X X X X X X		X X X X X X		X X X X X X						X			
<i>S14</i>	WAC1.TP3_0.5	S	15.11.21	B+G	4	X X X X X X		X X X X X X		X X X X X X		X X X X X X		X X X X X X						X			
<i>S15</i>	WAC1.TP3_1.8	S	15.11.21	B+G	5	X X X X X X		X X X X X X		X X X X X X		X X X X X X		X X X X X X						X			
<i>S16</i>	WAC1.TP4_0.2	S	15.11.21	B+G	6	X X X X X X		X X X X X X		X X X X X X		X X X X X X		X X X X X X						X			
<i>S17</i>	WAC1.TP4_0.5	S	15.11.21	B+G	7	X X X X X X		X X X X X X		X X X X X X		X X X X X X		X X X X X X						X			
<i>S18</i>	WAC1.TP5_0.3	S	15.11.21	B+G	8	X X X X X X		X X X X X X		X X X X X X		X X X X X X		X X X X X X						X			
<i>S19</i>	WAC1.TP6_0.3	S	15.11.21	B+G	9	X X X X X X		X X X X X X		X X X X X X		X X X X X X		X X X X X X						X			
<i>S20</i>	WAC1.TP6_0.5	S	15.11.21	B+G	10	X X X X X X		X X X X X X		X X X X X X		X X X X X X		X X X X X X						X			
<i>S21</i>	WAC1.TP7_0.3	S	15.11.21	B+G	11	X X X X X X		X X X X X X		X X X X X X		X X X X X X		X X X X X X						X			
<i>S22</i>	WAC1.TP7_0.7	S	15.11.21	B+G	12	X X X X X X		X X X X X X		X X X X X X		X X X X X X		X X X X X X						X			
<i>S23</i>	WAC1.TP8_0.2	S	15.11.21	B+G	13	X X X X X X		X X X X X X		X X X X X X		X X X X X X		X X X X X X						X			
<i>S24</i>	WAC1.TP8_0.5	S	15.11.21	B+G	14	X X X X X X		X X X X X X		X X X X X X		X X X X X X		X X X X X X						X			
<i>S25</i>	WAC1.TP9_0.2	S	15.11.21	B+G	15	X X X X X X		X X X X X X		X X X X X X		X X X X X X		X X X X X X						X			
<i>S26</i>	WAC1.TP9_0.5	S	15.11.21	B+G	16	X X X X X X		X X X X X X		X X X X X X		X X X X X X		X X X X X X						X			
<i>S27</i>	WAC1.TP9_0.8	S	15.11.21	B+G	17	X X X X X X		X X X X X X		X X X X X X		X X X X X X		X X X X X X						X			
<i>S28</i>	WAC1.TP10_0.2	S	15.11.21	B+G	18	X X X X X X		X X X X X X		X X X X X X		X X X X X X		X X X X X X						X			
<i>S29</i>	WAC1.TP10_0.5	S	15.11.21	B+G	19	X X X X X X		X X X X X X		X X X X X X		X X X X X X		X X X X X X						X			
<i>S30</i>	WAC1.TP10_0.8	S	15.11.21	B+G	20	X X X X X X		X X X X X X		X X X X X X		X X X X X X		X X X X X X						X			
<i>C31</i>	WAC1.TP11_0.3	S	15.11.21	B+G	21	X X X X X X		X X X X X X		X X X X X X		X X X X X X		X X X X X X						X			
<i>S32</i>	WAC1.TP11_0.5	S	15.11.21	B+G	22	X X X X X X		X X X X X X		X X X X X X		X X X X X X		X X X X X X						X			
<i>S33</i>	WAC1.BR1	S	15.11.21	B	23	X X X X X X		X X X X X X		X X X X X X		X X X X X X		X X X X X X									
<i>S34</i>	WAC1.TP2.FC1	P	15.11.21	B	24												X						

Comments:

Container Type and Preservative: P = Unpreserved Plastic; PN = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; PNA = Sodium Hydroxide Preserved Plastic; PC = HCl preserved Plastic; VC = Vial HCl Preserved; SP = Sulfuric Preserved Plastic; VB = Vial Sodium Bisulphite Preserved; VS = Vial Sulfuric Preserved; V = Unpreserved Vial; G = Amber Glass Unpreserved; SG = Sulfuric Preserved Amber Glass; F = Formaldehyde Preserved Glass; HS = HCl preserved Speciation bottle; Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottle; ST = Sterile Bottle; J = Unpreserved Glass Jar; ASS = Plastic Bag for Acid Sulfate Soils; B = Unpreserved Bag.

23/11/21

Sydney Laboratory Services

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Unit 4/10-11 Millennium Court,
Silverwater 2128
Ph: (02) 9648-6669



Accreditation No.14664

Accredited for compliance with ISO/IEC 17025 - Testing.

SAMPLE RECEIPT NOTIFICATION (SRN)

Contact: Thesan. Naidoo
Project name: 21.1508
Number of samples: 24
COC number: 21.1508
Turn around time: STD
Date: 16.11.2021
Time received: 1:30 PM
SLS Reference: 2105602
Estimated Report Delivery Date: 23.11.2021

Sample information

- All samples have been received and logged into LIMS.
- No mistakes in the COC
- Samples were chilled
- N/A Samples were preserved
- N/A Custody seal intact
- Samples were delivered within holding time
- Samples to be tested for volatiles had zero headspace
- All samples were received in good condition (no broken jars, labelled correctly...).
- Samples have been subcontracted

Comments**This report contains:**

Sample receipt non-conformities
Summary of samples and requested analysis
Requested report deliverables

Contact details

If you have any questions with respect to these samples please contact:

sls@ade.group

Krista Johnston

SAMPLE RECEIPT NOTIFICATION (SRN)

Laboratory Sample ID	Client Sample ID	6 Metal Suite	8 Metal Suite	BTEx	PAH	OCP/OPP	PCB	VTRH	TRH	Phenols	VOC	PFAS	Bulk	Dust	Dust Swab	Soil 105 grams	Soil 500 g NEPM	AAM
2021037511	WAC1.TP1_0.5	X	X	X	X	X		X								X		
2021037512	WAC1.TP1_1.8	X	X	X	X	X		X								X		
2021037513	WAC1.BR1	X	X	X	X	X			X							X		
2021037514	WAC1.TP3_0.5	X	X	X	X	X			X							X		
2021037515	WAC1.TP3_1.8	X	X	X	X	X			X							X		
2021037516	WAC1.TP4_0.2	X	X	X	X	X			X							X		
2021037517	WAC1.TP4_0.5	X	X	X	X	X			X							X		
2021037518	WAC1.TP5_0.3	X	X	X	X	X			X							X		
2021037519	WAC1.TP6_0.3	X	X	X	X	X		X	X	X	X					X		
2021037520	WAC1.TP6_0.5	X	X	X	X	X		X	X	X	X					X		
2021037521	WAC1.TP7_0.3	X	X	X	X	X			X							X		
2021037522	WAC1.TP7_0.7	X	X	X	X	X			X							X		
2021037523	WAC1.TP8_0.2	X	X	X	X	X			X							X		
2021037524	WAC1.TP8_0.5	X	X	X	X	X			X							X		
2021037525	WAC1.TP9_0.2	X	X	X	X	X			X							X		
2021037526	WAC1.TP9_0.5	X	X	X	X	X			X							X		
2021037527	WAC1.TP9_0.8	X	X	X	X	X			X							X		
2021037528	WAC1.TP10_0.2	X	X	X	X	X			X							X		
2021037529	WAC1.TP10_0.5	X	X	X	X	X			X	X	X					X		
2021037530	WAC1.TP10_0.8	X	X	X	X	X			X	X	X					X		
2021037531	WAC1.TP11_0.3	X	X	X	X	X			X							X		
2021037532	WAC1.TP11_0.5	X	X	X	X	X			X							X		
2021037533	WAC1.BR1	X	X	X	X	X			X									
2021037535	WAC1.TP2.FC1											X						

Sydney Laboratory Services

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This Quality Control Report contains results of QAQC samples analysis and the Laboratory Acceptance Criteria.

This report supersedes any previous report(s) with this reference. This document shall not be reproduced, except in full.

This report has been electronically signed by authorised signatories below.

Authorised By

A handwritten signature in blue ink, appearing to read "Kaiyu Li".

Kaiyu Li

General Comments

Duplicate samples and matrix spike may not be prepared on smaller jobs, however are analysed at frequency. QAQC samples shown within the report as e.g. Batch Blank, Batch Matrix Spike were performed on samples not reported on that Certificate of Analysis.

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 the same manner as for samples.

Duplicate This is the interlaboratory split of a random sample from the processed batch

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.

Sur. (Surrogate Spike) Surrogates are known additions to each sample, blank and matrix spike or LCS in a batch. Surrogates are chosen as a compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Blank shall be < PQL

Matrix Spikes and LCS: Generally 70-130% for inorganics/metals/PFAS, 60-140% for organics is acceptable. Matrix heterogeneity may result in matrix spike analyses falling outside these limits

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

Results <10 times the PQL : No Limit

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

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

Surrogate Recoveries : Recoveries must lie between 50-150%

SLS is responsible for all the information in the report, except that provided by the customer.

All sampling information included in the report has been provided by customer.

Information provided by the customer can affect the validity of the results.

Quality Control Report

Contact: Thesan Naidoo **Date Reported:** 23/11/2021
Customer: ADE Consulting Group **No. of Samples:** 43
Address: Unit 6 **Date Received:** 17/11/2021
7 Millennium Court
Silverwater NSW **Date of Analysis:** 18/11/2021

Cust Ref: 21.1508

Glossary:
*NATA accreditation does not cover the performance of this service
ND-not detected,
NT-not tested
INS-Insufficient material to perform the test
LCS-Laboratory Control Sample
RPD-Relative Percent Difference
N/A-Not Applicable
< less than
> greater than
PQL- Practical Quantitation Limit
^Analytical result might be compromised due to sample condition or holding time requirements
Reaction rate 1 = Slight
Reaction rate 2 = Moderate
Reaction rate 3 = High
Reaction rate 4 = Vigorous

Quality Control Report

Sample ID: Q2021009518 Q2021009578

Sample Name

Parameter	Units	PQL	Metals Blank - Soil	Metals Blank - Soil
ESA-MP-01,ICP-01				
Arsenic	mg/kg	5	<5.0	<5.0
Cadmium	mg/kg	0.3	<0.30	<0.30
Chromium	mg/kg	5	<5.0	<5.0
Copper	mg/kg	5	<5.0	<5.0
Lead	mg/kg	10	<10.0	<10.0
Mercury	mg/kg	0.2	<0.20	<0.20
Nickel	mg/kg	10	<10.0	<10.0
Zinc	mg/kg	5	<5.0	<5.0

Sample ID: D202103751202 D202103752302

Sample Name

WAC1.TP1_1.8 WAC1.TP8_0.2

Parameter	Units	PQL		
ESA-P-ORG(12 - 15)				
Acenaphthene			Pass	Pass
Acenaphthylene			Pass	Pass
Anthracene			Pass	Pass
Benzo[a]anthracene			Pass	Pass
Benzo[a]pyrene			Pass	Pass
Benzo[b]fluoranthene			Pass	Pass
Benzo[g,h,i]perylene			Pass	Pass
Benzo[k]fluoranthene			Pass	Pass
Chrysene			Pass	Pass
Dibenzo[a,h]anthracene			Pass	Pass
Fluoranthene			Pass	Pass
Fluorene			Pass	Pass
Indeno(1,2,3-cd)pyrene			Pass	Pass
Naphthalene			Pass	Pass
Phenanthrene			Pass	Pass

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Pyrene		Pass	Pass
p-Terphenyl-d14 (Surr.)	%	99	93
aldrin		Pass	Pass
a-BHC		Pass	Pass
b-BHC		Pass	Pass
d-BHC		Pass	Pass
g-BHC (lindane)		Pass	Pass
cis-chlordane		Pass	Pass
trans-chlordane		Pass	Pass
4,4'-DDD		Pass	Pass
4,4'-DDE		Pass	Pass
4,4'-DDT		Pass	Pass
dieldrin		Pass	Pass
endosulfan I		Pass	Pass
endosulfan II		Pass	Pass
endosulfan sulfate		Pass	Pass
endrin		Pass	Pass
endrin aldehyde		Pass	Pass
endrin ketone		Pass	Pass
heptachlor		Pass	Pass
heptachlor epoxide		Pass	Pass
hexachlorobenzene		Pass	Pass
methoxychlor		Pass	Pass
TCMX (Surr.)	%	123	121
chlorpyrifos		Pass	Pass
chlorpyrifos methyl		Pass	Pass
diazinon		Pass	Pass
fenchlorphos		Pass	Pass
methyl parathion		Pass	Pass
prophos		Pass	Pass
tributylphosphorotriethioite		Pass	Pass
Aroclor 1016		Pass	Pass
Aroclor 1221		Pass	Pass

Aroclor 1232			Pass	Pass
Aroclor 1242			Pass	Pass
Aroclor 1248			Pass	Pass
Aroclor 1254			Pass	Pass
Aroclor 1260			Pass	Pass
2-fluorobiphenyl (Surr.)	%		116	108

Sample ID: Q2021009567

Sample Name

Parameter	Units	PQL	BTEX Blank Sp-Soil
ESA-P-ORG7 & ORG8			
Benzene	%		98
Toluene	%		98
Ethylbenzene	%		91
m,p Xylene	%		77
o Xylene	%		91
Fluorobenzene (Surr.)	%		92

Sample ID: D202103719602

Sample Name PVENM 2

Parameter	Units	PQL	
ESA-P-ORG17			
Phenol			Pass
2-Chlorophenol			Pass
2-Methylphenol			Pass
3/4-Methylephenol			Pass
2-Nitrophenol			Pass
2,4-Dimethylphenol			Pass
2,4-Dichlorophenol			Pass
2,6-Dichlorophenol			Pass
3-Methyl,4-Chlorophenol			Pass
2,4,6-Trichlorophenol			Pass
2,4,5-Trichlorophenol			Pass
2,4-Dinitrophenol			Pass

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4-Nitrophenol			Pass
2,3,5,6-Tetrachlorophenol			Pass
2,3,4,5-Tetrachlorophenol			Pass
2,3,4,6-Tetrachlorophenol			Pass
2-Methyl-4,6-dinitrophenol			Pass
Pentachlorophenol			Pass
Dinoseb			Pass
2-Cyclohexyl-4,6-dinitrophenol			Pass
Phenol-d6	%		126
2-Chlorophenol-d4	%		135

Sample ID: S202103738601 S202103751104

Sample Name WAC1.TP1 WAC1.TP1_0.5

Parameter	Units	PQL		
ESA-MP-01,ICP-01				
Arsenic	%		-	91
Cadmium	%		100	97
Chromium	%		105	96
Copper	%		82	94
Lead	%		112	96
Mercury	%		101	100
Nickel	%		91	102
Zinc	%		87	98

Sample ID: Q2021009552 Q2021009568

Sample Name

Parameter	Units	PQL	PCB Blank - Soil	PCB Blank - Soil
ESA-P-ORG(12 - 15)				
Acenaphthene	mg/kg	0.3	<0.30	<0.30
Acenaphthylene	mg/kg	0.3	<0.30	<0.30
Anthracene	mg/kg	0.3	<0.30	<0.30
Benzo[a]anthracene	mg/kg	0.3	<0.30	<0.30
Benzo[a]pyrene	mg/kg	0.3	<0.30	<0.30
Benzo[b]fluoranthene	mg/kg	0.3	<0.30	<0.30

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Benzo[g,h,i]perylene	mg/kg	0.3	<0.30	<0.30
Benzo[k]fluoranthene	mg/kg	0.3	<0.30	<0.30
Chrysene	mg/kg	0.3	<0.30	<0.30
Dibenzo[a,h]anthracene	mg/kg	0.3	<0.30	<0.30
Fluoranthene	mg/kg	0.3	<0.30	<0.30
Fluorene	mg/kg	0.3	<0.30	<0.30
Indeno(1,2,3-cd)pyrene	mg/kg	0.3	<0.30	<0.30
Naphthalene	mg/kg	0.3	<0.30	<0.30
Phenanthrene	mg/kg	0.3	<0.30	<0.30
Pyrene	mg/kg	0.3	<0.30	<0.30
aldrin	mg/kg	0.1	<0.10	<0.10
a-BHC	mg/kg	0.1	<0.10	<0.10
b-BHC	mg/kg	0.1	<0.10	<0.10
d-BHC	mg/kg	0.1	<0.10	<0.10
g-BHC (lindane)	mg/kg	0.1	<0.10	<0.10
cis-chlordane	mg/kg	0.1	<0.10	<0.10
trans-chlordane	mg/kg	0.1	<0.10	<0.10
4,4'-DDD	mg/kg	0.1	<0.10	<0.10
4,4'-DDE	mg/kg	0.1	<0.10	<0.10
4,4'-DDT	mg/kg	0.1	<0.10	<0.10
dieldrin	mg/kg	0.1	<0.10	<0.10
endosulfan I	mg/kg	0.2	<0.20	<0.20
endosulfan II	mg/kg	0.2	<0.20	<0.20
endosulfan sulfate	mg/kg	0.1	<0.10	<0.10
endrin	mg/kg	0.2	<0.20	<0.20
endrin aldehyde	mg/kg	0.1	<0.10	<0.10
endrin ketone	mg/kg	0.1	<0.10	<0.10
heptachlor	mg/kg	0.1	<0.10	<0.10
heptachlor epoxide	mg/kg	0.1	<0.10	<0.10
hexachlorobenzene	mg/kg	0.1	<0.10	<0.10
methoxychlor	mg/kg	0.1	<0.10	<0.10
chlorpyrifos	mg/kg	0.1	<0.10	<0.10
chlorpyrifos methyl	mg/kg	0.1	<0.10	<0.10

diazinon	mg/kg	0.1	<0.10	<0.10
fenchlorphos	mg/kg	0.1	<0.10	<0.10
methyl parathion	mg/kg	0.1	<0.10	<0.10
prophos	mg/kg	0.1	<0.10	<0.10
tributylphosphorotriethioite	mg/kg	0.1	<0.10	<0.10
Aroclor 1016	mg/kg	0.5	<0.50	<0.50
Aroclor 1221	mg/kg	0.5	<0.50	<0.50
Aroclor 1232	mg/kg	0.5	<0.50	<0.50
Aroclor 1242	mg/kg	0.5	<0.50	<0.50
Aroclor 1248	mg/kg	0.5	<0.50	<0.50
Aroclor 1254	mg/kg	0.5	<0.50	<0.50
Aroclor 1260	mg/kg	0.5	<0.50	<0.50

Sample ID: D202103739702

Sample Name B3-SAND-D-S2

Parameter	Units	PQL	
ESA-P-ORG(12 - 15)			
Acenaphthene			Pass
Acenaphthylene			Pass
Anthracene			Pass
Benzo[a]anthracene			Pass
Benzo[a]pyrene			Pass
Benzo[b]fluoranthene			Pass
Benzo[g,h,i]perylene			Pass
Benzo[k]fluoranthene			Pass
Chrysene			Pass
Dibenzo[a,h]anthracene			Pass
Fluoranthene			Pass
Fluorene			Pass
Indeno(1,2,3-cd)pyrene			Pass
Naphthalene			Pass
Phenanthrene			Pass
Pyrene			Pass
p-Terphenyl-d14 (Surr.)	%		69

aldrin			Pass
a-BHC			Pass
b-BHC			Pass
d-BHC			Pass
g-BHC (lindane)			Pass
cis-chlordane			Pass
trans-chlordane			Pass
4,4'-DDD			Pass
4,4'-DDE			Pass
4,4'-DDT			Pass
dieldrin			Pass
endosulfan I			Pass
endosulfan II			Pass
endosulfan sulfate			Pass
endrin			Pass
endrin aldehyde			Pass
endrin ketone			Pass
heptachlor			Pass
heptachlor epoxide			Pass
hexachlorobenzene			Pass
methoxychlor			Pass
TCMX (Surr.)	%		120
chlorpyrifos			Pass
chlorpyrifos methyl			Pass
diazinon			Pass
fenchlorphos			Pass
methyl parathion			Pass
prophos			Pass
tributylphosphorotriethioite			Pass
Aroclor 1016			Pass
Aroclor 1221			Pass
Aroclor 1232			Pass
Aroclor 1242			Pass

Aroclor 1248			Pass
Aroclor 1254			Pass
Aroclor 1260			Pass
2-fluorobiphenyl (Surr.)	%		127

Sample ID: S202103739502

Sample Name B3-SAND-D-S1

Parameter	Units	PQL	
ESA-P-ORG(12 - 15)			
Acenaphthene	%		134
Anthracene	%		102
Fluoranthene	%		74
Naphthalene	%		121
Phenanthrene	%		92
Pyrene	%		77
p-Terphenyl-d14 (Surr.)	%		81
aldrin	%		100
endrin	%		91
hexachlorobenzene	%		64
TCMX (Surr.)	%		135
chlorpyrifos	%		68
diazinon	%		72
Aroclor 1016	%		96
2-fluorobiphenyl (Surr.)	%		103

Sample ID: Q2021009519

Q2021009579

Sample Name

Parameter	Units	PQL	Metals Blank Sp-Soil	Metals Blank Sp-Soil
ESA-MP-01,ICP-01				
Arsenic	%		93	90
Cadmium	%		98	97
Chromium	%		93	91
Copper	%		91	112
Lead	%		100	96
Mercury	%		104	95

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Nickel	%		96	93
Zinc	%		97	93

Sample ID: Q2021009553 Q2021009569

Sample Name

Parameter	Units	PQL	PCB Blank Sp - Soil	PCB Blank Sp - Soil
ESA-P-ORG(12 - 15)				
Acenaphthene	%		135	108
Anthracene	%		103	122
Fluoranthene	%		76	104
Naphthalene	%		118	105
Phenanthrene	%		93	101
Pyrene	%		79	116
p-Terphenyl-d14 (Surr.)	%		84	116
aldrin	%		103	123
endrin	%		105	79
hexachlorobenzene	%		65	114
TCMX (Surr.)	%		138	124
chlorpyrifos	%		68	100
diazinon	%		73	108
2-fluorobiphenyl (Surr.)	%		117	91
Aroclor 1016	%		86	112

Sample ID: D202103738701 D202103751204 D202103752103 D202103765301

Sample Name WAC15-TP2 WAC1.TP1_1.8 WAC1.TP7_0.3 SCA2.TP11

Parameter	Units	PQL				
ESA-MP-01,ICP-01						
Arsenic			Pass	Pass	Pass	Pass
Cadmium			Pass	Pass	Pass	Pass
Chromium			Pass	Pass	Pass	Pass
Copper			Pass	Pass	Pass	Pass
Lead			Pass	Pass	Pass	Pass
Mercury			Pass	Pass	Pass	Pass

Nickel			Pass	Pass	Pass	Pass
Zinc			Pass	Pass	Pass	Pass

Sample ID: D202103666701

Sample Name 99 CLAY

Parameter	Units	PQL	
ESA-P-ORG7 & ORG8			
Benzene			Pass
Toluene			Pass
Ethylbenzene			Pass
m,p Xylene			Pass
o Xylene			Pass
Styrene			Pass
vNaphthalene			Pass
Vinyl Chloride			Pass
trans-1,2-Dichloroethene			Pass
Methylene chloride			Pass
cis-1,2-Dichloroethene			Pass
Bromochloromethane			Pass
Chloroform			Pass
1,1,1-Trichloroethane			Pass
1,2-Dichloroethane			Pass
Carbon tetrachloride			Pass
1,1,2-Trichloroethane			Pass
Tetrachloroethene			Pass
1,1,1,2-Tetrachloroethane			Pass
1,1,2,2-Tetrachloroethane			Pass
1,2-Dichlorobenzene			Pass
1,4-Dichlorobenzene			Pass
1,2,4-Trichlorobenzene			Pass
Hexachlorobutadiene			Pass
1,1-Dichloroethene			Pass
Trichloroethene			Pass
Chlorobenzene			Pass

Toluene-d8	%		132
1,2-Dichloroethane-d4	%		130
4-Bromofluorobenzene (BFB)	%		124
Trifluorotoluene (Surr.)	%		134

Sample ID: Q2021009502

Sample Name

Parameter	Units	PQL	Sample Name
ESA-P-ORG17			
Phenol	mg/kg	0.2	<0.20
2-Chlorophenol	mg/kg	0.1	<0.10
2-Methylphenol	mg/kg	0.2	<0.20
3/4-Methylephenol	mg/kg	0.4	<0.40
2-Nitrophenol	mg/kg	0.2	<0.20
2,4-Dimethylphenol	mg/kg	0.2	<0.20
2,4-Dichlorophenol	mg/kg	0.05	<0.050
2,6-Dichlorophenol	mg/kg	0.05	<0.050
3-Methyl,4-Chlorophenol	mg/kg	0.2	<0.20
2,4,6-Trichlorophenol	mg/kg	0.05	<0.050
2,4,5-Trichlorophenol	mg/kg	0.05	<0.050
2,4-Dinitrophenol	mg/kg	4	<4.0
4-Nitrophenol	mg/kg	4	<4.0
2,3,5,6-Tetrachlorophenol	mg/kg	0.1	<0.10
2,3,4,5-Tetrachlorophenol	mg/kg	0.1	<0.10
2,3,4,6-Tetrachlorophenol	mg/kg	0.1	<0.10
2-Methyl-4,6-dinitrophenol	mg/kg	2	<2.0
Pentachlorophenol	mg/kg	0.2	<0.20
Dinoseb	mg/kg	5	<5.0
2-Cyclohexyl-4,6-dinitrophenol	mg/kg	5	<5.0

Sample ID: D202103751201 D202103752301

Sample Name WAC1.TP1_1.8 WAC1.TP8_0.2

Parameter	Units	PQL		
ESA-P-ORG7 & ORG8				
Benzene			Pass	Pass
Toluene			Pass	Pass
Ethylbenzene			Pass	Pass
m,p Xylene			Pass	Pass
o Xylene			Pass	Pass
Fluorobenzene (Surr.)	%		90	81

Sample ID: Q2021009503

Sample Name

Parameter	Units	PQL	Phenols	Blank	Sp-Soil
ESA-P-ORG17					
2-Chlorophenol	%			117	
2-Methylphenol	%			103	
3/4-Methylephenol	%			119	
2,6-Dichlorophenol	%			130	
Dinoseb	%			78	
Phenol-d6 (Surr.)	%			115	
2-Chlorophenol-d4 (Surr.)	%			138	

Sample ID: D202103752801

Sample Name WAC1.TP10_0.2

Parameter	Units	PQL	
ESA-P-ORG17			
Phenol			Pass
2-Chlorophenol			Pass
2-Methylphenol			Pass
3/4-Methylephenol			Pass
2-Nitrophenol			Pass
2,4-Dimethylphenol			Pass
2,4-Dichlorophenol			Pass

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2,6-Dichlorophenol			Pass
3-Methyl,4-Chlorophenol			Pass
2,4,6-Trichlorophenol			Pass
2,4,5-Trichlorophenol			Pass
2,4-Dinitrophenol			Pass
4-Nitrophenol			Pass
2,3,5,6-Tetrachlorophenol			Pass
2,3,4,5-Tetrachlorophenol			Pass
2,3,4,6-Tetrachlorophenol			Pass
2-Methyl-4,6-dinitrophenol			Pass
Pentachlorophenol			Pass
Dinoseb			Pass
2-Cyclohexyl-4,6-dinitrophenol			Pass
Phenol-d6	%		76
2-Chlorophenol-d4	%		90

Sample ID: D202103751203 D202103752303

Sample Name WAC1.TP1_1.8 WAC1.TP8_0.2

Parameter	Units	PQL		
ESA-P-ORG(3,5,6,8)				
>C10-C16			Pass	Pass
>C16-C34			Pass	Pass
>C34-C40			Pass	Pass
>C10-C14			Pass	Pass
>C15-C28			Pass	Pass
>C29-C36			Pass	Pass

Sample ID: Q2021009554 Q2021009570

Sample Name

Parameter	Units	PQL	TRH Blank-Soil	TRH Blank-Soil
ESA-P-ORG(3,5,6,8)				
>C10-C16	mg/kg	50	<50	<50
>C16-C34	mg/kg	100	<100	<100
>C34-C40	mg/kg	100	<100	<100

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>C10-C14	mg/kg	50	<50	<50
>C15-C28	mg/kg	100	<100	<100
>C29-C36	mg/kg	100	<100	<100

Sample ID: Q2021009555 Q2021009571

Sample Name

Parameter	Units	PQL	TRH Blank Spike-Soil	TRH Blank Spike-Soil
ESA-P-ORG(3,5,6,8)				
>C10-C16	%		111	93
>C10-C14	%		108	91

Sample ID: S202103719502

Sample Name PVENM 1

Parameter	Units	PQL	
ESA-P-ORG17			
2-Chlorophenol	%		124
2-Methylphenol	%		125
3/4-Methylephenol	%		134
2,6-Dichlorophenol	%		138
Dinoseb	%		72
Phenol-d6 (Surr.)	%		133
2-Chlorophenol-d4 (Surr.)	%		125

Sample ID: Q2021009396

Sample Name

Parameter	Units	PQL	VOCs MB Vic - Soil
ESA-P-ORG7 & ORG8			
Benzene	mg/kg	0.5	<0.50
Toluene	mg/kg	0.5	<0.50
Ethylbenzene	mg/kg	0.5	<0.50
m,p Xylene	mg/kg	1	<1.0
o Xylene	mg/kg	0.5	<0.50
Styrene	mg/kg	0.5	<0.50
vNaphthalene	mg/kg	0.5	<0.50
Vinyl Chloride	mg/kg	0.5	<0.50

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trans-1,2-Dichloroethene	mg/kg	0.5	<0.50
Methylene chloride	mg/kg	0.5	<0.50
cis-1,2-Dichloroethene	mg/kg	0.5	<0.50
Bromochloromethane	mg/kg	0.5	<0.50
Chloroform	mg/kg	0.5	<0.50
1,1,1-Trichloroethane	mg/kg	0.5	<0.50
1,2-Dichloroethane	mg/kg	0.5	<0.50
Carbon tetrachloride	mg/kg	0.5	<0.50
1,1,2-Trichloroethane	mg/kg	0.5	<0.50
Tetrachloroethene	mg/kg	0.5	<0.50
1,1,1,2-Tetrachloroethane	mg/kg	0.5	<0.50
1,1,2,2-Tetrachloroethane	mg/kg	0.5	<0.50
1,2-Dichlorobenzene	mg/kg	0.5	<0.50
1,4-Dichlorobenzene	mg/kg	0.5	<0.50
1,2,4-Trichlorobenzene	mg/kg	0.5	<0.50
Hexachlorobutadiene	mg/kg	0.5	<0.50
1,1-Dichloroethene	mg/kg	0.5	<0.50
Trichloroethene	mg/kg	0.5	<0.50
Chlorobenzene	mg/kg	0.5	<0.50

Sample ID: S202103751102

Sample Name WAC1.TP1_0.5

Parameter	Units	PQL	
ESA-P-ORG{12 - 15}			
Acenaphthene	%		121
Anthracene	%		100
Fluoranthene	%		135
Naphthalene	%		114
Phenanthrene	%		125
Pyrene	%		74
p-Terphenyl-d14 (Surr.)	%		100
aldrin	%		130
endrin	%		95

hexachlorobenzene	%		117
TCMX (Surr.)	%		107
chlorpyrifos	%		130
diazinon	%		131
Aroclor 1016	%		110
2-fluorobiphenyl (Surr.)	%		101

Sample ID: Q2021009566

Sample Name

Parameter	Units	PQL	BTEX Blank - Soil
ESA-P-ORG7 & ORG8			
Benzene	mg/kg	0.5	<0.50
Toluene	mg/kg	0.5	<0.50
Ethylbenzene	mg/kg	1	<1.0
m,p Xylene	mg/kg	2	<2.0
o Xylene	mg/kg	1	<1.0

Sample ID: S202103750402

Sample Name

Parameter	Units	PQL	
ESA-MP-01,ICP-01			
Arsenic	%		93

Sample ID: Q2021009397

Sample Name

Parameter	Units	PQL	VOCs LCS Vic - Soil
ESA-P-ORG7 & ORG8			
1,1-Dichloroethene	%		128
Benzene	%		100
Trichloroethene	%		92
Toluene	%		106
Chlorobenzene	%		99
Toluene-d8 (Surr.)	%		124
1,2-Dichloroethane-d4 (Surr.)	%		112
4-Bromofluorobenzene (BFB) (Surr.)	%		105
Trifluorotoluene (Surr.)	%		120

Sydney Laboratory Services

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 Unit 4/10-11 Millennium Court
 Silverwater 2128
 Ph: (02) 9648-6669

Sample ID: D202103739703

Sample Name B3-SAND-D-S2

Parameter	Units	PQL	
ESA-P-ORG(3,5,6,8)			
>C10-C16			Pass
>C16-C34			Pass
>C34-C40			Pass
>C10-C14			Pass
>C15-C28			Pass
>C29-C36			Pass

Sample ID: S202103751101

Sample Name WAC1.TP1_0.5

Parameter	Units	PQL	
ESA-P-ORG-07 & 08			
Benzene	%		104
Toluene	%		101
Ethylbenzene	%		97
m,p Xylene	%		83
o Xylene	%		98
Fluorobenzene (Surr.)	%		98

Sample ID: S202103666601

Sample Name 98 SAND

Parameter	Units	PQL	
ESA-P-ORG-07 & 08			
1,1-Dichloroethene	%		129
Benzene	%		102
Trichloroethene	%		95
Toluene	%		106
Chlorobenzene	%		99
Toluene-d8 (Surr.)	%		115
1,2-Dichloroethane-d4 (Surr.)	%		108

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 Silverwater 2128
 Ph: (02) 9648-6669

4-Bromofluorobenzene (Surr.)	%		103
Trifluorotoluene (Surr.)	%		113

Sample ID: S202103739503

Sample Name B3-SAND-D-S1

Parameter	Units	PQL	
ESA-P-ORG(3,5,6,8)			
>C10-C16	%		116
>C10-C14	%		113

Sample ID: S202103751103

Sample Name WAC1.TP1_0.5

Parameter	Units	PQL	
ESA-P-ORG(3,5,6,8)			
>C10-C16	%		121
>C10-C14	%		119

Sydney Laboratory Services

A division of A. D. Envirotech Australia Pty Ltd
A.C.N. 093 452 950
Unit 4/10-11 Millennium Court,
Silverwater 2128
Ph: (02) 9648-6669

**Accreditation No.14664**

Accredited for compliance with ISO/IEC 17025 - Testing.

This certificate of analysis contains General Comments and Analytical Results. Quality Control Report and Laboratory Quality Acceptance Criteria have been issued separately.

This report supersedes any previous report(s) with this reference. This document shall not be reproduced, except in full.

This report has been electronically signed by authorised signatories below.

Authorised By

A handwritten signature in blue ink that appears to read "Kaiyu Li".

Kaiyu Li

General Comments

Samples are analysed on as received basis. Sampling is not covered by NATA accreditation.

Where moisture determination has been performed, results are reported on dry weight basis.

Where the PQL of reported result differs from standard PQL, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Samples were analysed within holding time described by laboratory internal procedures if not stated otherwise. If samples delivered do not meet required analytical criteria, results will be marked with ^.

However surrogate standards are added to samples, results are not corrected for standards recoveries.

Analysis of VOC in water samples are performed on unfiltered waters (as received) spiked with surrogates and injection standards only.

SLS is responsible for all the information in the report, except that provided by the customer.

All sampling information included in the report has been provided by customer.

Information provided by the customer can affect the validity of the results.

Certificate of Analysis

Contact:	Thesan Naidoo	Date Reported:	23/11/2021
Customer:	ADE Consulting Group	No. of Samples:	23
Address:	Unit 6 7 Millennium Court Silverwater NSW	Date Received:	17/11/2021
		Date of Analysis:	18/11/2021
Cust Ref:	21.1508		

Glossary:

- *NATA accreditation does not cover the performance of this service
- ND-not detected,
- NT-not tested
- INS-Insufficient material to perform the test
- LCS-Laboratory Control Sample
- RPD-Relative Percent Difference
- N/A-Not Applicable
- < less than
- > greater than
- PQL- Practical Quantitation Limit
- ^Analytical result might be compromised due to sample condition or holding time requirements
- Reaction rate 1 = Slight
- Reaction rate 2 = Moderate
- Reaction rate 3 = High
- Reaction rate 4 = Vigorous

Certificate of Analysis

	<i>Sample ID:</i>	2021037511	2021037512	2021037513	2021037514	2021037515	2021037516	2021037517	2021037518	2021037519	2021037520	2021037521	
	<i>Sample Name</i>	WAC1.TP1_0.5	WAC1.TP1_1.8	WAC1.TP2_0.5	WAC1.TP3_0.5	WAC1.TP3_1.8	WAC1.TP4_0.2	WAC1.TP4_0.5	WAC1.TP5_0.3	WAC1.TP6_0.3	WAC1.TP6_0.5	WAC1.TP7_0.3	
<i>Parameter</i>	<i>Units</i>	<i>PQL</i>											
ESA-P-ORG7 & ORG8													
Benzene	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	-	<0.50	
Toluene	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	-	<0.50	
Ethylbenzene	mg/kg	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	-	<1.0	
m.p Xylene	mg/kg	2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-	-	<2.0	
o Xylene	mg/kg	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	-	<1.0	
Sum of BTEX	mg/kg	2	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	-	-	<2.00	
Total Xylenes	mg/kg	2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-	-	<2.0	
Fluorobenzene (Surr.)	%		96	94	81	124	99	82	92	102	-	-	119
ESA-MP-01,ICP-01													
Arsenic	mg/kg	5	11.9	15.6	6.8	5.7	<5.0	5.2	7.4	6.3	14.7	12.2	7.6
Cadmium	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Chromium	mg/kg	5	16.1	14.3	23.2	17.8	<5.0	14.4	11.9	13.5	11.3	<5.0	10.4
Copper	mg/kg	5	25.4	36.3	28.3	22.5	16.7	45.3	17.8	17.5	22.3	18.1	18.2
Lead	mg/kg	10	46.8	22.9	78.7	42.2	14.0	695.6	19.3	25.4	14.9	13.4	259.5
Mercury	mg/kg	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Nickel	mg/kg	10	<10.0	<10.0	29.9	11.1	<10.0	10.7	<10.0	<10.0	<10.0	<10.0	<10.0
Zinc	mg/kg	5	55.5	41.6	78.5	159.8	<5.0	139.4	17.4	92.7	27.1	18.9	298.1
ESA-P-12													
% Moisture Content	%		16.8	20.0	17.7	15.4	15.8	20.8	26.6	17.7	20.9	9.0	13.6
ESA-P-ORG(12 - 15)													
Acenaphthene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Acenaphthylene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Anthracene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Benzo[a]anthracene	mg/kg	0.3	<0.30	<0.30	1.09	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Benzo[a]pyrene	mg/kg	0.3	<0.30	<0.30	0.35	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30

Certificate of Analysis

	<i>Sample ID:</i>	2021037511	2021037512	2021037513	2021037514	2021037515	2021037516	2021037517	2021037518	2021037519	2021037520	2021037521
	<i>Sample Name</i>	WAC1.TP1_0.5	WAC1.TP1_1.8	WAC1.TP2_0.5	WAC1.TP3_0.5	WAC1.TP3_1.8	WAC1.TP4_0.2	WAC1.TP4_0.5	WAC1.TP5_0.3	WAC1.TP6_0.3	WAC1.TP6_0.5	WAC1.TP7_0.3
<i>Parameter</i>	<i>Units</i>	<i>PQL</i>										
Benzo[b]fluoranthene	mg/kg	0.3	<0.30	<0.30	0.55	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Benzo[g,h,i]perylene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Benzo[k]fluoranthene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Chrysene	mg/kg	0.3	<0.30	<0.30	0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Dibenzo[a,h]anthracene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Fluoranthene	mg/kg	0.3	<0.30	<0.30	1.51	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Fluorene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Indeno(1,2,3-cd)pyrene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Naphthalene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Phenanthrene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Pyrene	mg/kg	0.3	<0.30	<0.30	1.94	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Sum of Positive PAHs	mg/kg	0.3	<0.30	<0.30	5.74	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Benzo(a)pyrene TEQ (Zero)	mg/kg	0.3	<0.30	<0.30	0.52	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Benzo(a)pyrene TEQ (Half PQL)	mg/kg	0.3	0.36	0.36	0.70	0.36	0.36	0.36	0.36	0.36	0.36	0.36
Benzo(a)pyrene TEQ (PQL)	mg/kg	0.3	0.73	0.73	0.88	0.73	0.73	0.73	0.73	0.73	0.73	0.73
p-Terphenyl-d14 (Surr.)	%		112	90	138	99	106	131	100	131	86	109
aldrin	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
a-BHC	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
b-BHC	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
d-BHC	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
g-BHC (lindane)	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
cis-chlordane	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
trans-chlordane	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
4,4'-DDD	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
4,4'-DDE	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
4,4'-DDT	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10

Certificate of Analysis

		<i>Sample ID:</i>	2021037511	2021037512	2021037513	2021037514	2021037515	2021037516	2021037517	2021037518	2021037519	2021037520	2021037521
	<i>Sample Name</i>		WAC1.TP1_0.5	WAC1.TP1_1.8	WAC1.TP2_0.5	WAC1.TP3_0.5	WAC1.TP3_1.8	WAC1.TP4_0.2	WAC1.TP4_0.5	WAC1.TP5_0.3	WAC1.TP6_0.3	WAC1.TP6_0.5	WAC1.TP7_0.3
<i>Parameter</i>	<i>Units</i>	<i>PQL</i>											
dieldrin	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.83
endosulfan I	mg/kg	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
endosulfan II	mg/kg	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
endosulfan sulfate	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
endrin	mg/kg	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
endrin aldehyde	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
endrin ketone	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
heptachlor	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
heptachlor epoxide	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
hexachlorobenzene	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
methoxychlor	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TCMX (Surr.)	%		133	135	88	103	134	116	128	131	118	116	114
chlorpyrifos	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
chlorpyrifos methyl	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
diazinon	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
fenchlorphos	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
methyl parathion	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
prophos	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
tributylphosphorotrithioite	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Aroclor 1016	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1221	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1232	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1242	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1248	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1254	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1260	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

Certificate of Analysis

	<i>Sample ID:</i>	2021037511	2021037512	2021037513	2021037514	2021037515	2021037516	2021037517	2021037518	2021037519	2021037520	2021037521	
	<i>Sample Name</i>	WAC1.TP1_0.5	WAC1.TP1_1.8	WAC1.TP2_0.5	WAC1.TP3_0.5	WAC1.TP3_1.8	WAC1.TP4_0.2	WAC1.TP4_0.5	WAC1.TP5_0.3	WAC1.TP6_0.3	WAC1.TP6_0.5	WAC1.TP7_0.3	
<i>Parameter</i>	<i>Units</i>	<i>PQL</i>											
2-fluorobiphenyl (Surr.)	%		129	116	139	130	93	114	99	127	136	131	125
ESA-P-ORG17													
Phenol	mg/kg	0.2	-	-	-	-	-	-	-	<0.20	<0.20	-	
2-Chlorophenol	mg/kg	0.1	-	-	-	-	-	-	-	<0.10	<0.10	-	
2-Methylphenol	mg/kg	0.2	-	-	-	-	-	-	-	<0.20	<0.20	-	
3/4-Methylephenol	mg/kg	0.4	-	-	-	-	-	-	-	<0.40	<0.40	-	
2-Nitrophenol	mg/kg	0.2	-	-	-	-	-	-	-	<0.20	<0.20	-	
2,4-Dimethylphenol	mg/kg	0.2	-	-	-	-	-	-	-	<0.20	<0.20	-	
2,4-Dichlorophenol	mg/kg	0.05	-	-	-	-	-	-	-	<0.050	<0.050	-	
2,6-Dichlorophenol	mg/kg	0.05	-	-	-	-	-	-	-	<0.050	<0.050	-	
3-Methyl,4-Chlorophenol	mg/kg	0.2	-	-	-	-	-	-	-	<0.20	<0.20	-	
2,4,6-Trichlorophenol	mg/kg	0.05	-	-	-	-	-	-	-	<0.050	<0.050	-	
2,4,5-Trichlorophenol	mg/kg	0.05	-	-	-	-	-	-	-	<0.050	<0.050	-	
2,4-Dinitrophenol	mg/kg	4	-	-	-	-	-	-	-	<4.0	<4.0	-	
4-Nitrophenol	mg/kg	4	-	-	-	-	-	-	-	<4.0	<4.0	-	
2,3,5,6-Tetrachlorophenol	mg/kg	0.1	-	-	-	-	-	-	-	<0.10	<0.10	-	
2,3,4,5-Tetrachlorophenol	mg/kg	0.1	-	-	-	-	-	-	-	<0.10	<0.10	-	
2,3,4,6-Tetrachlorophenol	mg/kg	0.1	-	-	-	-	-	-	-	<0.10	<0.10	-	
2-Methyl-4,6-dinitrophenol	mg/kg	2	-	-	-	-	-	-	-	<2.0	<2.0	-	
Pentachlorophenol	mg/kg	0.2	-	-	-	-	-	-	-	<0.20	<0.20	-	
Dinoseb	mg/kg	5	-	-	-	-	-	-	-	<5.0	<5.0	-	
2-Cyclohexyl-4,6-dinitrophenol	mg/kg	5	-	-	-	-	-	-	-	<5.0	<5.0	-	
Sum of Positive Phenols	mg/kg	0.05	-	-	-	-	-	-	-	<0.050	<0.050	-	
Phenol-d6 (Surr.)	%		-	-	-	-	-	-	-	80	79	-	
2-Chlorophenol-d4 (Surr.)	%		-	-	-	-	-	-	-	88	93	-	

Certificate of Analysis

		<i>Sample ID:</i>	2021037511	2021037512	2021037513	2021037514	2021037515	2021037516	2021037517	2021037518	2021037519	2021037520	2021037521
		<i>Sample Name</i>	WAC1.TP1_0.5	WAC1.TP1_1.8	WAC1.TP2_0.5	WAC1.TP3_0.5	WAC1.TP3_1.8	WAC1.TP4_0.2	WAC1.TP4_0.5	WAC1.TP5_0.3	WAC1.TP6_0.3	WAC1.TP6_0.5	WAC1.TP7_0.3
<i>Parameter</i>	<i>Units</i>	<i>PQL</i>											
ESA-P-ORG(3,5,6,8)													
>C10-C16	mg/kg	50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
>C16-C34	mg/kg	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
>C34-C40	mg/kg	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
>C10-C40 (Sum of total)	mg/kg	50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
>C10-C14	mg/kg	50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
>C15-C28	mg/kg	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
>C29-C36	mg/kg	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
>C10-C36 (Sum of total)	mg/kg	50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
ESA-P-ORG07 & ORG08													
Benzene	mg/kg	0.5	-	-	-	-	-	-	-	-	<0.50	<0.50	-
Toluene	mg/kg	0.5	-	-	-	-	-	-	-	-	<0.50	<0.50	-
Ethylbenzene	mg/kg	0.5	-	-	-	-	-	-	-	-	<0.50	<0.50	-
m,p Xylene	mg/kg	1	-	-	-	-	-	-	-	-	<1.0	<1.0	-
o Xylene	mg/kg	0.5	-	-	-	-	-	-	-	-	<0.50	<0.50	-
Sum of BTEX	mg/kg	1	-	-	-	-	-	-	-	-	<1.0	<1.0	-
Total Xylenes	mg/kg	1	-	-	-	-	-	-	-	-	<1.0	<1.0	-
Styrene	mg/kg	0.5	-	-	-	-	-	-	-	-	<0.50	<0.50	-
Sum of MAHs	mg/kg	1	-	-	-	-	-	-	-	-	<1.0	<1.0	-
vNaphthalene	mg/kg	0.5	-	-	-	-	-	-	-	-	<0.50	<0.50	-
Vinyl Chloride	mg/kg	0.5	-	-	-	-	-	-	-	-	<0.50	<0.50	-
trans-1,2-Dichloroethene	mg/kg	0.5	-	-	-	-	-	-	-	-	<0.50	<0.50	-
Methylene chloride	mg/kg	0.5	-	-	-	-	-	-	-	-	<0.50	<0.50	-
cis-1,2-Dichloroethene	mg/kg	0.5	-	-	-	-	-	-	-	-	<0.50	<0.50	-
Bromochloromethane	mg/kg	0.5	-	-	-	-	-	-	-	-	<0.50	<0.50	-
Chloroform	mg/kg	0.5	-	-	-	-	-	-	-	-	<0.50	<0.50	-

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	<i>Sample ID:</i>	2021037511	2021037512	2021037513	2021037514	2021037515	2021037516	2021037517	2021037518	2021037519	2021037520	2021037521
	<i>Sample Name</i>	WAC1.TP1_0.5	WAC1.TP1_1.8	WAC1.TP2_0.5	WAC1.TP3_0.5	WAC1.TP3_1.8	WAC1.TP4_0.2	WAC1.TP4_0.5	WAC1.TP5_0.3	WAC1.TP6_0.3	WAC1.TP6_0.5	WAC1.TP7_0.3
<i>Parameter</i>	<i>Units</i>	<i>PQL</i>										
1,1,1-Trichloroethane	mg/kg	0.5	-	-	-	-	-	-	-	<0.50	<0.50	-
1,2-Dichloroethane	mg/kg	0.5	-	-	-	-	-	-	-	<0.50	<0.50	-
Carbon tetrachloride	mg/kg	0.5	-	-	-	-	-	-	-	<0.50	<0.50	-
1,1,2-Trichloroethane	mg/kg	0.5	-	-	-	-	-	-	-	<0.50	<0.50	-
Tetrachloroethene	mg/kg	0.5	-	-	-	-	-	-	-	<0.50	<0.50	-
1,1,1,2-Tetrachloroethane	mg/kg	0.5	-	-	-	-	-	-	-	<0.50	<0.50	-
1,1,2,2-Tetrachloroethane	mg/kg	0.5	-	-	-	-	-	-	-	<0.50	<0.50	-
1,2-Dichlorobenzene	mg/kg	0.5	-	-	-	-	-	-	-	<0.50	<0.50	-
1,4-Dichlorobenzene	mg/kg	0.5	-	-	-	-	-	-	-	<0.50	<0.50	-
1,2,4-Trichlorobenzene	mg/kg	0.5	-	-	-	-	-	-	-	<0.50	<0.50	-
Hexachlorobutadiene	mg/kg	0.5	-	-	-	-	-	-	-	<0.50	<0.50	-
1,1-Dichloroethene	mg/kg	0.5	-	-	-	-	-	-	-	<0.50	<0.50	-
Trichloroethene	mg/kg	0.5	-	-	-	-	-	-	-	<0.50	<0.50	-
Chlorobenzene	mg/kg	0.5	-	-	-	-	-	-	-	<0.50	<0.50	-
Sum of Chlorinated Hydrocarbons	mg/kg	0.5	-	-	-	-	-	-	-	<0.50	<0.50	-
Other Chlorinated Hydrocarbon	mg/kg	0.5	-	-	-	-	-	-	-	<0.50	<0.50	-
Toluene-d8 (Surr.)	%	-	-	-	-	-	-	-	-	118	121	-
1,2-Dichloroethane-d4 (Surr.)	%	-	-	-	-	-	-	-	-	113	118	-
4-Bromofluorobenzene (BFB) (Surr.)	%	-	-	-	-	-	-	-	-	105	109	-
Trifluorotoluene (Surr.)	%	-	-	-	-	-	-	-	-	128	129	-

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	<i>Sample ID:</i>	2021037522	2021037523	2021037524	2021037525	2021037526	2021037527	2021037528	2021037529	2021037530	2021037531	2021037532
	<i>Sample Name</i>	WAC1.TP7_0.7	WAC1.TP8_0.2	WAC1.TP8_0.5	WAC1.TP9_0.2	WAC1.TP9_0.5	WAC1.TP9_0.8	WAC1.TP10_0.2	WAC1.TP10_0.5	WAC1.TP10_0.8	WAC1.TP11_0.3	WAC1.TP11_0.5
<i>Parameter</i>	<i>Units</i>	<i>PQL</i>										
ESA-P-ORG7 & ORG8												
Benzene	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	-	-	<0.50	<0.50	<0.50
Toluene	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	-	-	<0.50	<0.50	<0.50
Ethylbenzene	mg/kg	1	<1.0	<1.0	<1.0	<1.0	<1.0	-	-	<1.0	<1.0	<1.0
m.p Xylene	mg/kg	2	<2.0	<2.0	<2.0	<2.0	<2.0	-	-	<2.0	<2.0	<2.0
o Xylene	mg/kg	1	<1.0	<1.0	<1.0	<1.0	<1.0	-	-	<1.0	<1.0	<1.0
Sum of BTEX	mg/kg	2	<2.00	<2.00	<2.00	<2.00	<2.00	-	-	<2.00	<2.00	<2.00
Total Xylenes	mg/kg	2	<2.0	<2.0	<2.0	<2.0	<2.0	-	-	<2.0	<2.0	<2.0
Fluorobenzene (Surr.)	%		109	84	85	88	101	106	-	86	87	86
ESA-MP-01,ICP-01												
Arsenic	mg/kg	5	5.1	7.5	<5.0	<5.0	10.7	<5.0	8.4	<5.0	<5.0	5.8
Cadmium	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Chromium	mg/kg	5	10.7	<5.0	6.2	9.3	10.9	<5.0	18.9	<5.0	<5.0	8.0
Copper	mg/kg	5	21.7	10.9	56.9	33.9	15.9	6.8	67.7	16.5	10.4	19.6
Lead	mg/kg	10	390.7	<10.0	387.5	312.6	14.3	<10.0	383.9	<10.0	12.3	30.9
Mercury	mg/kg	0.2	<0.20	<0.20	<0.20	0.20	<0.20	<0.20	0.27	<0.20	<0.20	<0.20
Nickel	mg/kg	10	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Zinc	mg/kg	5	290.0	<5.0	1467.3	364.6	26.9	7.4	351.2	34.2	17.3	77.4
ESA-P-12												
% Moisture Content	%		20.3	21.0	22.1	16.9	23.7	16.5	19.5	6.3	10.9	26.1
ESA-P-ORG(12 - 15)												
Acenaphthene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Acenaphthylene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Anthracene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Benzo[a]anthracene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Benzo[a]pyrene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30

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	<i>Sample ID:</i>	2021037522	2021037523	2021037524	2021037525	2021037526	2021037527	2021037528	2021037529	2021037530	2021037531	2021037532
	<i>Sample Name</i>	WAC1.TP7_0.7	WAC1.TP8_0.2	WAC1.TP8_0.5	WAC1.TP9_0.2	WAC1.TP9_0.5	WAC1.TP9_0.8	WAC1.TP10_0.2	WAC1.TP10_0.5	WAC1.TP10_0.8	WAC1.TP11_0.3	WAC1.TP11_0.5
<i>Parameter</i>	<i>Units</i>	<i>PQL</i>										
Benzo[b]fluoranthene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Benzo[g,h,i]perylene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Benzo[k]fluoranthene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Chrysene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Dibenzo[a,h]anthracene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Fluoranthene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Fluorene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Indeno(1,2,3-cd)pyrene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Naphthalene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Phenanthrene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Pyrene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Sum of Positive PAHs	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Benzo(a)pyrene TEQ (Zero)	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Benzo(a)pyrene TEQ (Half PQL)	mg/kg	0.3	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
Benzo(a)pyrene TEQ (PQL)	mg/kg	0.3	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73
p-Terphenyl-d14 (Surr.)	%		112	90	115	113	123	112	98	93	116	115
aldrin	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
a-BHC	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
b-BHC	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
d-BHC	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
g-BHC (lindane)	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
cis-chlordane	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
trans-chlordane	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
4,4'-DDD	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
4,4'-DDE	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
4,4'-DDT	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10

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		<i>Sample Name</i>	WAC1.TP7_0.7	WAC1.TP8_0.2	WAC1.TP8_0.5	WAC1.TP9_0.2	WAC1.TP9_0.5	WAC1.TP9_0.8	WAC1.TP10_0.2	WAC1.TP10_0.5	WAC1.TP10_0.8	WAC1.TP11_0.3	WAC1.TP11_0.5
<i>Parameter</i>	<i>Units</i>	<i>PQL</i>											
dieldrin	mg/kg	0.1	3.24	<0.10	1.10	3.83	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
endosulfan I	mg/kg	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
endosulfan II	mg/kg	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
endosulfan sulfate	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
endrin	mg/kg	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
endrin aldehyde	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
endrin ketone	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
heptachlor	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
heptachlor epoxide	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
hexachlorobenzene	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
methoxychlor	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TCMX (Surr.)	%		137	122	112	124	97	125	131	132	105	136	100
chlorpyrifos	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
chlorpyrifos methyl	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
diazinon	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
fenchlorphos	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
methyl parathion	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
prophos	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
tributylphosphorotrithioite	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Aroclor 1016	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1221	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1232	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1242	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1248	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1254	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1260	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

Certificate of Analysis

	<i>Sample ID:</i>	2021037522	2021037523	2021037524	2021037525	2021037526	2021037527	2021037528	2021037529	2021037530	2021037531	2021037532	
	<i>Sample Name</i>	WAC1.TP7_0.7	WAC1.TP8_0.2	WAC1.TP8_0.5	WAC1.TP9_0.2	WAC1.TP9_0.5	WAC1.TP9_0.8	WAC1.TP10_0.2	WAC1.TP10_0.5	WAC1.TP10_0.8	WAC1.TP11_0.3	WAC1.TP11_0.5	
<i>Parameter</i>	<i>Units</i>	<i>PQL</i>											
2-fluorobiphenyl (Surr.)	%		126	100	138	117	118	131	107	123	94	116	109
ESA-P-ORG17													
Phenol	mg/kg	0.2	-	-	-	-	-	-	<0.20	<0.20	-	-	-
2-Chlorophenol	mg/kg	0.1	-	-	-	-	-	-	<0.10	<0.10	-	-	-
2-Methylphenol	mg/kg	0.2	-	-	-	-	-	-	<0.20	<0.20	-	-	-
3/4-Methylephenol	mg/kg	0.4	-	-	-	-	-	-	<0.40	<0.40	-	-	-
2-Nitrophenol	mg/kg	0.2	-	-	-	-	-	-	<0.20	<0.20	-	-	-
2,4-Dimethylphenol	mg/kg	0.2	-	-	-	-	-	-	<0.20	<0.20	-	-	-
2,4-Dichlorophenol	mg/kg	0.05	-	-	-	-	-	-	<0.050	<0.050	-	-	-
2,6-Dichlorophenol	mg/kg	0.05	-	-	-	-	-	-	<0.050	<0.050	-	-	-
3-Methyl,4-Chlorophenol	mg/kg	0.2	-	-	-	-	-	-	<0.20	<0.20	-	-	-
2,4,6-Trichlorophenol	mg/kg	0.05	-	-	-	-	-	-	<0.050	<0.050	-	-	-
2,4,5-Trichlorophenol	mg/kg	0.05	-	-	-	-	-	-	<0.050	<0.050	-	-	-
2,4-Dinitrophenol	mg/kg	4	-	-	-	-	-	-	<4.0	<4.0	-	-	-
4-Nitrophenol	mg/kg	4	-	-	-	-	-	-	<4.0	<4.0	-	-	-
2,3,5,6-Tetrachlorophenol	mg/kg	0.1	-	-	-	-	-	-	<0.10	<0.10	-	-	-
2,3,4,5-Tetrachlorophenol	mg/kg	0.1	-	-	-	-	-	-	<0.10	<0.10	-	-	-
2,3,4,6-Tetrachlorophenol	mg/kg	0.1	-	-	-	-	-	-	<0.10	<0.10	-	-	-
2-Methyl-4,6-dinitrophenol	mg/kg	2	-	-	-	-	-	-	<2.0	<2.0	-	-	-
Pentachlorophenol	mg/kg	0.2	-	-	-	-	-	-	<0.20	<0.20	-	-	-
Dinoseb	mg/kg	5	-	-	-	-	-	-	<5.0	<5.0	-	-	-
2-Cyclohexyl-4,6-dinitrophenol	mg/kg	5	-	-	-	-	-	-	<5.0	<5.0	-	-	-
Sum of Positive Phenols	mg/kg	0.05	-	-	-	-	-	-	<0.050	<0.050	-	-	-
Phenol-d6 (Surr.)	%		-	-	-	-	-	-	78	88	-	-	-
2-Chlorophenol-d4 (Surr.)	%		-	-	-	-	-	-	92	106	-	-	-

Certificate of Analysis

		Sample ID:	2021037522	2021037523	2021037524	2021037525	2021037526	2021037527	2021037528	2021037529	2021037530	2021037531	2021037532
		Sample Name	WAC1.TP7_0.7	WAC1.TP8_0.2	WAC1.TP8_0.5	WAC1.TP9_0.2	WAC1.TP9_0.5	WAC1.TP9_0.8	WAC1.TP10_0.2	WAC1.TP10_0.5	WAC1.TP10_0.8	WAC1.TP11_0.3	WAC1.TP11_0.5
Parameter	Units	PQL											
ESA-P-ORG(3,5,6,8)													
>C10-C16	mg/kg	50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
>C16-C34	mg/kg	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
>C34-C40	mg/kg	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
>C10-C40 (Sum of total)	mg/kg	50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
>C10-C14	mg/kg	50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
>C15-C28	mg/kg	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
>C29-C36	mg/kg	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
>C10-C36 (Sum of total)	mg/kg	50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
ESA-P-ORG07 & ORG08													
Benzene	mg/kg	0.5	-	-	-	-	-	-	<0.50	<0.50	-	-	-
Toluene	mg/kg	0.5	-	-	-	-	-	-	<0.50	<0.50	-	-	-
Ethylbenzene	mg/kg	0.5	-	-	-	-	-	-	<0.50	<0.50	-	-	-
m,p Xylene	mg/kg	1	-	-	-	-	-	-	<1.0	<1.0	-	-	-
o Xylene	mg/kg	0.5	-	-	-	-	-	-	<0.50	<0.50	-	-	-
Sum of BTEX	mg/kg	1	-	-	-	-	-	-	<1.0	<1.0	-	-	-
Total Xylenes	mg/kg	1	-	-	-	-	-	-	<1.0	<1.0	-	-	-
Styrene	mg/kg	0.5	-	-	-	-	-	-	<0.50	<0.50	-	-	-
Sum of MAHs	mg/kg	1	-	-	-	-	-	-	<1.0	<1.0	-	-	-
vNaphthalene	mg/kg	0.5	-	-	-	-	-	-	<0.50	<0.50	-	-	-
Vinyl Chloride	mg/kg	0.5	-	-	-	-	-	-	<0.50	<0.50	-	-	-
trans-1,2-Dichloroethene	mg/kg	0.5	-	-	-	-	-	-	<0.50	<0.50	-	-	-
Methylene chloride	mg/kg	0.5	-	-	-	-	-	-	<0.50	<0.50	-	-	-
cis-1,2-Dichloroethene	mg/kg	0.5	-	-	-	-	-	-	<0.50	<0.50	-	-	-
Bromochloromethane	mg/kg	0.5	-	-	-	-	-	-	<0.50	<0.50	-	-	-
Chloroform	mg/kg	0.5	-	-	-	-	-	-	<0.50	<0.50	-	-	-

Certificate of Analysis

	<i>Sample ID:</i>	2021037522	2021037523	2021037524	2021037525	2021037526	2021037527	2021037528	2021037529	2021037530	2021037531	2021037532
	<i>Sample Name</i>	WAC1.TP7_0.7	WAC1.TP8_0.2	WAC1.TP8_0.5	WAC1.TP9_0.2	WAC1.TP9_0.5	WAC1.TP9_0.8	WAC1.TP10_0.2	WAC1.TP10_0.5	WAC1.TP10_0.8	WAC1.TP11_0.3	WAC1.TP11_0.5
<i>Parameter</i>	<i>Units</i>	<i>PQL</i>										
1,1,1-Trichloroethane	mg/kg	0.5	-	-	-	-	-	-	<0.50	<0.50	-	-
1,2-Dichloroethane	mg/kg	0.5	-	-	-	-	-	-	<0.50	<0.50	-	-
Carbon tetrachloride	mg/kg	0.5	-	-	-	-	-	-	<0.50	<0.50	-	-
1,1,2-Trichloroethane	mg/kg	0.5	-	-	-	-	-	-	<0.50	<0.50	-	-
Tetrachloroethene	mg/kg	0.5	-	-	-	-	-	-	<0.50	<0.50	-	-
1,1,1,2-Tetrachloroethane	mg/kg	0.5	-	-	-	-	-	-	<0.50	<0.50	-	-
1,1,2,2-Tetrachloroethane	mg/kg	0.5	-	-	-	-	-	-	<0.50	<0.50	-	-
1,2-Dichlorobenzene	mg/kg	0.5	-	-	-	-	-	-	<0.50	<0.50	-	-
1,4-Dichlorobenzene	mg/kg	0.5	-	-	-	-	-	-	<0.50	<0.50	-	-
1,2,4-Trichlorobenzene	mg/kg	0.5	-	-	-	-	-	-	<0.50	<0.50	-	-
Hexachlorobutadiene	mg/kg	0.5	-	-	-	-	-	-	<0.50	<0.50	-	-
1,1-Dichloroethene	mg/kg	0.5	-	-	-	-	-	-	<0.50	<0.50	-	-
Trichloroethene	mg/kg	0.5	-	-	-	-	-	-	<0.50	<0.50	-	-
Chlorobenzene	mg/kg	0.5	-	-	-	-	-	-	<0.50	<0.50	-	-
Sum of Chlorinated Hydrocarbons	mg/kg	0.5	-	-	-	-	-	-	<0.50	<0.50	-	-
Other Chlorinated Hydrocarbon	mg/kg	0.5	-	-	-	-	-	-	<0.50	<0.50	-	-
Toluene-d8 (Surr.)	%	-	-	-	-	-	-	-	124	125	-	-
1,2-Dichloroethane-d4 (Surr.)	%	-	-	-	-	-	-	-	117	113	-	-
4-Bromofluorobenzene (BFB) (Surr.)	%	-	-	-	-	-	-	-	110	109	-	-
Trifluorotoluene (Surr.)	%	-	-	-	-	-	-	-	132	133	-	-

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Sample ID: 2021037533

Sample Name WAC1.BR1

Parameter	Units	PQL	
ESA-P-ORG7 & ORG8			
Benzene	mg/kg	0.5	<0.50
Toluene	mg/kg	0.5	<0.50
Ethylbenzene	mg/kg	1	<1.0
m,p Xylene	mg/kg	2	<2.0
o Xylene	mg/kg	1	<1.0
Sum of BTEX	mg/kg	2	<2.00
Total Xylenes	mg/kg	2	<2.0
Fluorobenzene (Surr.)	%		92
ESA-MP-01,ICP-01			
Arsenic	mg/kg	5	8.8
Cadmium	mg/kg	0.3	<0.30
Chromium	mg/kg	5	14.0
Copper	mg/kg	5	21.6
Lead	mg/kg	10	81.7
Mercury	mg/kg	0.2	<0.20
Nickel	mg/kg	10	<10.0
Zinc	mg/kg	5	27.1
ESA-P-12			
% Moisture Content	%		16.2
ESA-P-ORG(12 - 15)			
Acenaphthene	mg/kg	0.3	<0.30
Acenaphthylene	mg/kg	0.3	<0.30
Anthracene	mg/kg	0.3	<0.30
Benzo[a]anthracene	mg/kg	0.3	<0.30
Benzo[a]pyrene	mg/kg	0.3	<0.30

Certificate of Analysis

Sample ID: 2021037533

Sample Name WAC1.BR1

Parameter	Units	PQL	
Benzo[b]fluoranthene	mg/kg	0.3	<0.30
Benzo[g,h,i]perylene	mg/kg	0.3	<0.30
Benzo[k]fluoranthene	mg/kg	0.3	<0.30
Chrysene	mg/kg	0.3	<0.30
Dibenz[a,h]anthracene	mg/kg	0.3	<0.30
Fluoranthene	mg/kg	0.3	<0.30
Fluorene	mg/kg	0.3	<0.30
Indeno(1,2,3-cd)pyrene	mg/kg	0.3	<0.30
Naphthalene	mg/kg	0.3	<0.30
Phenanthrene	mg/kg	0.3	<0.30
Pyrene	mg/kg	0.3	<0.30
Sum of Positive PAHs	mg/kg	0.3	<0.30
Benzo(a)pyrene TEQ (Zero)	mg/kg	0.3	<0.30
Benzo(a)pyrene TEQ (Half PQL)	mg/kg	0.3	0.36
Benzo(a)pyrene TEQ (PQL)	mg/kg	0.3	0.73
p-Terphenyl-d14 (Surr.)	%		97
aldrin	mg/kg	0.1	<0.10
a-BHC	mg/kg	0.1	<0.10
b-BHC	mg/kg	0.1	<0.10
d-BHC	mg/kg	0.1	<0.10
g-BHC (lindane)	mg/kg	0.1	<0.10
cis-chlordane	mg/kg	0.1	<0.10
trans-chlordane	mg/kg	0.1	<0.10
4,4'-DDD	mg/kg	0.1	<0.10
4,4'-DDE	mg/kg	0.1	<0.10
4,4'-DDT	mg/kg	0.1	<0.10

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Sample ID: 2021037533

Sample Name WAC1.BR1

Parameter	Units	PQL	
dieldrin	mg/kg	0.1	<0.10
endosulfan I	mg/kg	0.2	<0.20
endosulfan II	mg/kg	0.2	<0.20
endosulfan sulfate	mg/kg	0.1	<0.10
endrin	mg/kg	0.2	<0.20
endrin aldehyde	mg/kg	0.1	<0.10
endrin ketone	mg/kg	0.1	<0.10
heptachlor	mg/kg	0.1	<0.10
heptachlor epoxide	mg/kg	0.1	<0.10
hexachlorobenzene	mg/kg	0.1	<0.10
methoxychlor	mg/kg	0.1	<0.10
TCMX (Surr.)	%		132
chlorpyrifos	mg/kg	0.1	<0.10
chlorpyrifos methyl	mg/kg	0.1	<0.10
diazinon	mg/kg	0.1	<0.10
fenchlorphos	mg/kg	0.1	<0.10
methyl parathion	mg/kg	0.1	<0.10
prophos	mg/kg	0.1	<0.10
tributylphosphorotrithioite	mg/kg	0.1	<0.10
Aroclor 1016	mg/kg	0.5	<0.50
Aroclor 1221	mg/kg	0.5	<0.50
Aroclor 1232	mg/kg	0.5	<0.50
Aroclor 1242	mg/kg	0.5	<0.50
Aroclor 1248	mg/kg	0.5	<0.50
Aroclor 1254	mg/kg	0.5	<0.50
Aroclor 1260	mg/kg	0.5	<0.50

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Sample ID: 2021037533

Sample Name WAC1.BR1

Parameter	Units	PQL	
2-fluorobiphenyl (Surr.)	%		119
ESA-P-ORG(3,5,6,8)			
>C10-C16	mg/kg	50	<50
>C16-C34	mg/kg	100	<100
>C34-C40	mg/kg	100	<100
>C10-C40 (Sum of total)	mg/kg	50	<50
>C10-C14	mg/kg	50	<50
>C15-C28	mg/kg	100	<100
>C29-C36	mg/kg	100	<100
>C10-C36 (Sum of total)	mg/kg	50	<50



Sydney Laboratory Services

A division of A. D. Envirotech Australia Pty Ltd
 Unit 4/10-11 Millennium Court,
 Silverwater 2128
 Ph: (02) 9648-6669

A.B.N. 52 093 452 950

Analysis report: 21.1508
Laboratory LOT NO: 2105602

Date Received: 16.11.2021
Date Analysed: 22.11.2021
Report Date: 23.11.2021
Client: ADE Consulting Group
Job Location: DSI Westmead
Analytical method: AS 4964-2004 "Method for the qualitative identification of asbestos in bulk samples" in conjunction with AD Envirotech's ABI Methods for Polarised Light Microscopy with dispersion staining

Analysis performed by:

Sifan Xu
 Approved asbestos identifier

Results Authorised By:

Sifan Xu
 Approved Signatory

Accreditation No.14664.



Accredited for compliance with ISO/IEC 17025 - Testing.
 The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Tests not covered by NATA are denoted with *.

General Comments:

Sydney Laboratory Services is responsible for all the information in the report, except that provided by the customer. All sampling information included in the report has been provided by the client.

Information provided by the client can affect the validity of the results.

Sample analysed as received.

Samples are stored for minimum period of 1 month if longer time is not advised by client.



Accreditation No.14664.

Accredited for compliance with ISO/IEC 17025 - Testing.

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Tests not covered by NATA are denoted with *.

Client Sample ID.	Laboratory Sample No.	Sample Description/Matrix	Sample Dimensions (cm) unless stated otherwise	Result	Comments
WAC1.TP1_0.5	2021037511	Soil	60 grams	No Chrysotile asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Amosite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Crocidolite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
WAC1.TP1_1.8	2021037512	Soil	86 grams	No Chrysotile asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Amosite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Crocidolite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
WAC1.TP2_0.5	2021037513	Soil	53 grams	No Chrysotile asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Amosite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Crocidolite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
WAC1.TP3_0.5	2021037514	Soil	47 grams	No Chrysotile asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Amosite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Crocidolite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
WAC1.TP3_1.8	2021037515	Soil	65 grams	No Chrysotile asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Amosite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Crocidolite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
WAC1.TP4_0.2	2021037516	Soil	51 grams	No Chrysotile asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Amosite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Crocidolite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
WAC1.TP4_0.5	2021037517	Soil	39 grams	No Chrysotile asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Amosite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Crocidolite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil

Client Sample ID.	Laboratory Sample No.	Sample Description/Matrix	Sample Dimensions (cm) unless stated otherwise	Result	Comments
WAC1.TP5_0.3	2021037518	Soil	90 grams	No Chrysotile asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Amosite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Crocidolite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
WAC1.TP6_0.3	2021037519	Soil	72 grams	No Chrysotile asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Amosite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Crocidolite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
WAC1.TP6_0.5	2021037520	Soil	95 grams	No Chrysotile asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Amosite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Crocidolite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
WAC1.TP7_0.3	2021037521	Soil	104 grams	No Chrysotile asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Amosite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Crocidolite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
WAC1.TP7_0.7	2021037522	Soil	100 grams	No Chrysotile asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Amosite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Crocidolite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
WAC1.TP8_0.2	2021037523	Soil	89 grams	No Chrysotile asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Amosite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Crocidolite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
WAC1.TP8_0.5	2021037524	Soil	89 grams	No Chrysotile asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Amosite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Crocidolite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil

Client Sample ID.	Laboratory Sample No.	Sample Description/Matrix	Sample Dimensions (cm) unless stated otherwise	Result	Comments
WAC1.TP9_0.2	2021037525	Soil	43 grams	No Chrysotile asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Amosite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Crocidolite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
WAC1.TP9_0.5	2021037526	Soil	75 grams	No Chrysotile asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Amosite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Crocidolite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
WAC1.TP9_0.8	2021037527	Soil	80 grams	No Chrysotile asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Amosite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Crocidolite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
WAC1.TP10_0.2	2021037528	Soil	62 grams	No Chrysotile asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Amosite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Crocidolite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
WAC1.TP10_0.5	2021037529	Soil	58 grams	No Chrysotile asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Amosite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Crocidolite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
WAC1.TP10_0.8	2021037530	Soil	47 grams	No Chrysotile asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Amosite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Crocidolite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
WAC1.TP11_0.3	2021037531	Soil	53 grams	No Chrysotile asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Amosite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Crocidolite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil

Client Sample ID.	Laboratory Sample No.	Sample Description/Matrix	Sample Dimensions (cm) unless stated otherwise	Result	Comments
WAC1.TP11_0.5	2021037532	Soil	51 grams	No Chrysotile asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Amosite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Crocidolite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
WAC1.TP2.FC1	2021037535	Fibre Cement	7.0 x 4.4 x 0.4 (18 grams)	Chrysotile asbestos found	Nil
				No Amosite asbestos found	Nil
				No Crocidolite asbestos found	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil

* 50

ESA-F-02 COC - Chain Of Custody (Internal: Sydney Laboratory Services)																																																																																																																																																																																																																												
PROJECT:		Delta Group Pty Ltd																																																																																																																																																																																																																										
PROJECT NUMBER • INVOICE NUMBER		21.1508		LABORATORY REFERENCE NO. (Lab use ONLY):				21.1508																																																																																																																																																																																																																				
SAMPLES DELIVERED BY:		ADE Consulting Group 6/7 Millennium Ct, Silverwater NSW 2128		RECEIVED BY: <i>BS</i>				SIGNATURE:																																																																																																																																																																																																																				
SAMPLERS:		Mathew Lynch		SAMPLES: <input checked="" type="checkbox"/> CHILLED: <input type="checkbox"/> PRESERVED: <input type="checkbox"/> PRESERVATION METHOD: <i>X</i>				CUSTODY SEAL INTACT: <i>X</i>																																																																																																																																																																																																																				
TURNAROUND:		24h: <input checked="" type="checkbox"/> 48h: <input type="checkbox"/> 72h: <input type="checkbox"/> 5 WORKING DAYS:		MINIMAL HEADSPACE: <input type="checkbox"/> WITHIN HOLDING TIME: <input type="checkbox"/>																																																																																																																																																																																																																								
SAMPLING DATE:		17.11.2021		DATE: <i>24-11-21</i> TIME: <i>12:13</i>				TEMPERATURE UPON RECEIPT: °C																																																																																																																																																																																																																				
AFTER TEST STORAGE:		ROOM TEMP: <input type="checkbox"/> FRIDGE: <input checked="" type="checkbox"/> FREEZER: <input type="checkbox"/> >>4 WEEKS: <input type="checkbox"/> OTHER: <input type="checkbox"/>		LIMS LOT NO. <i>2105774</i>				COMMENTS:																																																																																																																																																																																																																				
REPORT FORMAT:		HARD COPY: <input type="checkbox"/> E-MAIL: <input checked="" type="checkbox"/>		UMS/EXCEL SIGNATURE: <i>[Signature]</i>																																																																																																																																																																																																																								
CONSULTANTS SIGNATURE:		CONSULTANT E-MAIL: mathew.lynch@ade.group		ANALYSES REQUIRED				NOTES																																																																																																																																																																																																																				
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LAB PLEASE *EMAIL COC RECEIPT: <input type="checkbox"/>																																																																																																																																																																																																																												

Container Types

VB = Vial Sodium Bisulphite Preserved; VS = Vial Sulfuric Preserved; V = Unpreserved Vial; G = Amber Glass Unpreserved; SG = Sulfuric Preserved Amber Glass; F = Formaldehyde Preserved Glass; HS = HCl preserved Speciation bottle; Z = Zinc Acetate Preserved Bag; ASS = Plastic Bag for Acid Sulfate Soils; B = Unpreserved Bag.

Page 5 of 5

25 / 11 / 21

Sydney Laboratory Services

A division of A. D. Envirotech Australia Pty Ltd
A.C.N. 093 452 950
Unit 4/10-11 Millennium Court,
Silverwater 2128
Ph: (02) 9648-6669



Accreditation No.14664

Accredited for compliance with ISO/IEC 17025 - Testing.

SAMPLE RECEIPT NOTIFICATION (SRN)

Contact: Thesan. Naidoo
Project name: 21.1508
Number of samples: 6
COC number: 21.1508
Turn around time: 24 hours
Date: 24.11.2021
Time received: 12:13 PM
SLS Reference: 2105774
Estimated Report Delivery Date: 25.11.2021

Sample information

- All samples have been received and logged into LIMS.
 No mistakes in the COC
 Samples were chilled
N/A Samples were preserved
N/A Custody seal intact
 Samples were delivered within holding time
 Samples to be tested for volatiles had zero headspace
 All samples were received in good condition (no broken jars, labelled correctly...).
 Samples have been subcontracted

Comments**This report contains:**

Sample receipt non-conformities
Summary of samples and requested analysis
Requested report deliverables

Contact details

If you have any questions with respect to these samples please contact:

sls@ade.group

Krista Johnston

SAMPLE RECEIPT NOTIFICATION (SRN)

Laboratory Sample ID	Client Sample ID	TCLP PAH B(a)P PQL<0.2 ug/L	TCLP PAH B(a)P PQL>5.0 ug/L	TCLP Metals	TCLP PFAS
2021038718	WAC1.TP4_0.2		X		
2021038719	WAC1.TP7_0.3		X		
2021038720	WAC1.TP7_0.7		X		
2021038721	WAC1.TP8_0.5		X		
2021038722	WAC1.TP9_0.2		X		
2021038723	WAC1.TP10_0.2		X		

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This certificate of analysis contains General Comments and Analytical Results. Quality Control Report and Laboratory Quality Acceptance Criteria have been issued separately.

This report supersedes any previous report(s) with this reference. This document shall not be reproduced, except in full.

This report has been electronically signed by authorised signatories below.

Authorised By

A handwritten signature in blue ink that appears to read "Kaiyu Li".

Kaiyu Li

General Comments

Samples are analysed on as received basis. Sampling is not covered by NATA accreditation.

Where moisture determination has been performed, results are reported on dry weight basis.

Where the PQL of reported result differs from standard PQL, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Samples were analysed within holding time described by laboratory internal procedures if not stated otherwise. If samples delivered do not meet required analytical criteria, results will be marked with ^.

However surrogate standards are added to samples, results are not corrected for standards recoveries.

Analysis of VOC in water samples are performed on unfiltered waters (as received) spiked with surrogates and injection standards only.

SLS is responsible for all the information in the report, except that provided by the customer.

All sampling information included in the report has been provided by customer.

Information provided by the customer can affect the validity of the results.

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Certificate of Analysis

Contact:	Thesan Naidoo	Date Reported:	25/11/2021
Customer:	ADE Consulting Group	No. of Samples:	6
Address:	Unit 6 7 Millennium Court Silverwater NSW	Date Received:	24/11/2021
		Date of Analysis:	25/11/2021
Cust Ref:	21.1508		

Glossary:

- *NATA accreditation does not cover the performance of this service
- ND-not detected,
- NT-not tested
- INS-Insufficient material to perform the test
- LCS-Laboratory Control Sample
- RPD-Relative Percent Difference
- N/A-Not Applicable
- < less than
- > greater than
- PQL- Practical Quantitation Limit
- ^Analytical result might be compromised due to sample condition or holding time requirements
- Reaction rate 1 = Slight
- Reaction rate 2 = Moderate
- Reaction rate 3 = High
- Reaction rate 4 = Vigorous

Certificate of Analysis

	<i>Sample ID:</i>	2021038718	2021038719	2021038720	2021038721	2021038722	2021038723
	<i>Sample Name</i>	WAC1.TP4_0.2	WAC1.TP7_0.3	WAC1.TP7_0.7	WAC1.TP8_0.5	WAC1.TP9_0.2	WAC1.TP10_0.2

<i>Parameter</i>	<i>Units</i>	<i>PQL</i>						
ESA-MP-01,ICP-01								
Lead	mg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ESA-P-21								
pH A	-		7.3	8.9	9.0	8.2	8.4	7.4
pH B	-		1.7	1.8	1.7	1.8	1.7	1.7
Extraction Fluid	-		1	1	1	1	1	1

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A.C.N. 093 452 950
Unit 4/10-11 Millennium Court,
Silverwater 2128
Ph: (02) 9648-6669

**Accreditation No.14664**

Accredited for compliance with ISO/IEC 17025 - Testing.

This Quality Control Report contains results of QAQC samples analysis and the Laboratory Acceptance Criteria.

This report supersedes any previous report(s) with this reference. This document shall not be reproduced, except in full.

This report has been electronically signed by authorised signatories below.

Authorised By

A handwritten signature in blue ink, appearing to read "Kaiyu Li".

Kaiyu Li

General Comments

Duplicate samples and matrix spike may not be prepared on smaller jobs, however are analysed at frequency. QAQC samples shown within the report as e.g. Batch Blank, Batch Matrix Spike were performed on samples not reported on that Certificate of Analysis.

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 the same manner as for samples.

Duplicate This is the interlaboratory split of a random sample from the processed batch

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.

Surr. (Surrogate Spike) Surrogates are known additions to each sample, blank and matrix spike or LCS in a batch. Surrogates are chosen as a compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Blank shall be < PQL

Matrix Spikes and LCS: Generally 70-130% for inorganics/metals/PFAS, 60-140% for organics is acceptable. Matrix heterogeneity may result in matrix spike analyses falling outside these limits

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

Results <10 times the PQL : No Limit

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

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

Surrogate Recoveries : Recoveries must lie between 50-150%

SLS is responsible for all the information in the report, except that provided by the customer.

All sampling information included in the report has been provided by customer.

Information provided by the customer can affect the validity of the results.

Quality Control Report

Contact:	Thesan Naidoo	Date Reported:	25/11/2021
Customer:	ADE Consulting Group	No. of Samples:	5
Address:	Unit 6 7 Millennium Court Silverwater NSW	Date Received:	24/11/2021
		Date of Analysis:	25/11/2021
Cust Ref:	21.1508		

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- Reaction rate 3 = High
- Reaction rate 4 = Vigorous

Quality Control Report

Sample ID: D202103483901

Sample Name WAC24-TP4 (1.0)

Parameter	Units	PQL	
ESA-MP-01,ICP-01			
Lead			Pass

Sample ID: D202103484901

Sample Name WAC197.ATP2

Parameter	Units	PQL	
ESA-MP-01,ICP-01			
Lead			Pass

Sample ID: S202103484801

Sample Name WAC197.ATP1

Parameter	Units	PQL	
ESA-MP-01,ICP-01			
Lead	%		94

Sample ID: Q2021008943

Sample Name

Parameter	Units	PQL	Metals Blank - TCLP
ESA-MP-01,ICP-01			
Lead	mg/L	0.5	<0.5

Sample ID: Q2021008944

Page : 5 of 5
Batch Number : 2105774
Report Number : 21.1508 (718-723)
TCLP

Sample Name

Parameter	Units	PQL	Metals Blank Sp-TCLP
ESA-MP-01,ICP-01			
Lead	%		93

Comments:

Container Type and Preservative: P = Unpreserved Plastic; PN = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; PNA = Sodium Hydroxide Preserved Plastic; PC = HCl preserved Plastic; VC = Vial HCl Preserved; SP = Sulfuric Preserved Plastic; VB = Vial Sodium Bisulphate Preserved; VS = Vial Sulfuric Preserved; V = Unpreserved Vial; G = Amber Glass Unpreserved; SG = Sulfuric Preserved Amber Glass; F = Formaldehyde Preserved Glass; HS = HCl preserved Speciation bottle; Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottle; ST = Sterile Bottle; J = Unpreserved Glass Jar; ASS = Plastic Bag for Acid Sulfate Soils; B = Unpreserved Bag.

Sydney Laboratory Services

A division of A. D. Envirotech Australia Pty Ltd
A.C.N. 093 452 950
Unit 4/10-11 Millennium Court,
Silverwater 2128
Ph: (02) 9648-6669



Accreditation No.14664

Accredited for compliance with ISO/IEC 17025 - Testing.

SAMPLE RECEIPT NOTIFICATION (SRN)

Contact: Thesan. Naidoo
Project name: 21.1508
Number of samples: 3
COC number: 21.1508
Turn around time: 24 hours
Date: 16.11.2021
Time received: 12:00 PM
SLS Reference: 2105560
Estimated Report Delivery Date: 17.10.2021

Sample information

- All samples have been received and logged into LIMS.
- No mistakes in the COC
- Samples were chilled
- N/A Samples were preserved
- N/A Custody seal intact
- Samples were delivered within holding time
- Samples to be tested for volatiles had zero headspace
- All samples were received in good condition (no broken jars, labelled correctly...).
- Samples have been subcontracted

Comments**This report contains:**

Sample receipt non-conformities
Summary of samples and requested analysis
Requested report deliverables

Contact details

If you have any questions with respect to these samples please contact:

sls@ade.group

Krista Johnston

SAMPLE RECEIPT NOTIFICATION (SRN)

Laboratory Sample ID	Client Sample ID	6 Metal Suite	8 Metal Suite	BTEX	PAH	OCP/OPP	PCB	VRH	TRH	pH/EC	pH/pH fox	PFAS	Bulk	Dust	Dust Swab	Soil 65 grams	SOIL 500 g NEPM	AaM
2021037192	A1																X	
2021037193	A2																X	
2021037194	A3																X	
N/A	BLANK																X	

ESA-F-02 COC - Chain Of Custody (Internal: Sydney Laboratory Services)						ADE CONSULTING GROUP																		
Document Revision Date: 30.06.2020		PROJECT: DSI westmead		PROJECT NUMBER - INVOICE NUMBER: 21.1508		LABORATORY REFERENCE NO. (Lab use ONLY):				21.1508														
SAMPLES DELIVERED BY: ADE Consulting Group		6/7 Millennium Ct, Silverwater NSW 2128		RECEIVED BY: Minaxi		SIGNATURE:																		
SAMPLERS: elisha cassidy		SAMPLES: 35 CHILLED		PRESERVED: N/A		RESERVATION METHOD: N/A				CUSTODY SEAL INTACT: <input type="checkbox"/>														
TURNAROUND: 24h: <input checked="" type="checkbox"/> 48H: <input type="checkbox"/> 72h: <input type="checkbox"/> 5 WORKING DAYS:		MINIMAL HEADSPACE: <input type="checkbox"/>		WITHIN HOLDING TIME: <input type="checkbox"/>		DATE: 24/11/21 TIME: 21:30				TEMPERATURE UPON RECEIPT: °C														
SAMPLING DATE: 23.11.21; 24.11.21		ROOM TEMP: <input type="checkbox"/> FRIDGE: X FREEZER: <input type="checkbox"/>		>4 WEEKS: <input type="checkbox"/> OTHER: <input type="checkbox"/>		LIMS LOT NO.: 2105779		LIMS/EXCEL SIGNATURE: EFD		COMMENTS:														
AFTER TEST STORAGE:		REPORT FORMAT: HARD COPY: <input type="checkbox"/> E-MAIL: X		ANALYSES REQUIRED				NOTES																
CONSULTANTS SIGNATURE: 		CONSULTANT E-MAIL: elisha.cassidy@ade.group; matthew.lynch@ade.group				Chem Lab: 14073, 14075				Asbestos				Mould	POTENTIAL HAZARDOUS CONTAMINANTS:									
PROJECT MANAGERS SIGNATURE:		PROJECT MANAGERS E-MAIL: thesan.naidoo@ade.group				VTRH (C10-C40) 14076, 14074				Standard suite					<input checked="" type="checkbox"/> ASBESTOS <input type="checkbox"/> HYDROCARBONS <input type="checkbox"/> LEAD/ARSENIC <input type="checkbox"/> NO KNOWN <input type="checkbox"/> OTHER: _____ <input type="checkbox"/> CONTAMINATION									
SAMPLE DATA						CONTAINER DATA						LAB PLEASE *EMAIL COC RECEIPT: <input type="checkbox"/>												
LIMS Sample ID (Lab Use) 2021038	Sample ID (ADE)	MATRIX	SAMPLE DATE	TYPE & PRESERVATIVE	NO.	6 Metal Suite	8 Metal Suite	BTEX	PAH	OCP/OPP	PCB	VTRH (C6-C10)	TRH (C10-C40)	standard phenols	VOCs/SVOCs	Standard suite	Bulk	Dust	Dust Swab	Soil 5g	Soil 500g NEPM	Airborne Asbestos Monitoring	Mould	Sample Comments
735	WAC1.TP2_0.9		24.11.21	B+G	1	X	X	X	X	X	X	X	X	X	X	X				X-				
736	WAC1.TP12_0.3		23.11.21	B+G	2	X	X	X	X	X	X	X	X	X	X	X				X-				
737	WAC1.TP12_0.5		23.11.21	B+G	3	X	X	X	X	X	X	X	X	X	X	X				X-				
738	WAC1.TP13_0.3		23.11.21	B+G	4	X	X	X	X	X	X	X	X	X	X	X				X-				
739	WAC1.TP13_1.0		23.11.21	B+G	5	X	X	X	X	X	X	X	X	X	X	X				X-				
740	WAC1.TP14_0.3		23.11.21	B+G	6	X	X	X	X	X	X	X	X	X	X	X				X-				
741	WAC1.TP14_0.7		23.11.21	B+G	7	X	X	X	X	X	X	X	X	X	X	X				X-				
742	WAC1.TP15_0.3		23.11.21	B+G	8	X	X	X	X	X	X	X	X	X	X	X				X-				
743	WAC1.TP15_0.7		23.11.21	B+G	9	X	X	X	X	X	X	X	X	X	X	X				X-				
744	WAC1.TP16_0.2		23.11.21	B+G	10	X	X	X	X	X	X	X	X	X	X	X				X-				
745	WAC1.TP16_0.5		23.11.21	B+G	11	X	X	X	X	X	X	X	X	X	X	X				X-				
746	WAC1.TP17_0.3		23.11.21	B+G	12	X	X	X	X	X	X	X	X	X	X	X				X-				
747	WAC1.TP17_0.6		23.11.21	B+G	13	X	X	X	X	X	X	X	X	X	X	X				X-				
748	WAC1.TP18_0.2		23.11.21	B+G	14	X	X	X	X	X	X	X	X	X	X	X				X-				
749	WAC1.TP18_0.8		23.11.21	B+G	15	X	X	X	X	X	X	X	X	X	X	X				X-				
750	WAC1.TP19_0.2		23.11.21	B+G	16	X	X	X	X	X	X	X	X	X	X	X				X-				
751	WAC1.TP19_0.4		23.11.21	B+G	17	X	X	X	X	X	X	X	X	X	X	X				X-				
752	WAC1.TP20_0.3		24.11.21	B+G	18	X	X	X	X	X	X	X	X	X	X	X				X-				
753	WAC1.TP20_0.5		24.11.21	B+G	19	X	X	X	X	X	X	X	X	X	X	X				X-				
754	WAC1.TP21_0.3		24.11.21	B+G	20	X	X	X	X	X	X	X	X	X	X	X				X-				
755	WAC1.TP21_0.5		24.11.21	B+G	21	X	X	X	X	X	X	X	X	X	X	X				X-				
756	WAC1.TP22_0.3		24.11.21	B+G	22	X	X	X	X	X	X	X	X	X	X	X				X-				
757	WAC1.TP22_0.5		24.11.21	B+G	23	X	X	X	X	X	X	X	X	X	X	X				X-				
758	WAC1.TP23_0.3		24.11.21	B+G	24	X	X	X	X	X	X	X	X	X	X	X				X-				
759	WAC1.TP23_0.6		24.11.21	B+G	25	X	X	X	X	X	X	X	X	X	X	X				X-				
760	WAC1.TP24_0.5		24.11.21	B+G	26	X	X	X	X	X	X	X	X	X	X	X				X-				
761	WAC1.TP24_1.0		24.11.21	B+G	27	X	X	X	X	X	X	X	X	X	X	X				X-				
762	WAC1.TP25_0.3		24.11.21	B+G	28	X	X	X	X	X	X	X	X	X	X	X				X-				
763	WAC1.TP25_0.7		24.11.21	B+G	29	X	X	X	X	X	X	X	X	X	X	X				X-				
764	WAC1.TP5_0.7		24.11.21	B+G	30	X	X	X	X	X	X	X	X	X	X	X				X-				
795	WAC1.TP3_FC3_0.1		24.11.21	B	32															X-				
796	WAC1.TP21_FC4_0.1		24.11.21	B	33															X				
797	WAC1.TP23_FC5_0.1		24.11.21	B	34															X				
765	BR2		23.11.21	G	35	X	X	X	X	X	X	X	X	X	X	X								
766	BR3		24.11.21	G	36	X	X	X	X	X	X	X	X	X	X	X								

Comments:

Container Type and Preservative: P = Unpreserved Plastic; PN = Nitric Preserved Plastic; OHC = Nitric Preserved ORC; PNA = Sodium Hydroxide Preserved Plastic; PC = HCl preserved Plastic; VC = Vial HCl Preserved; SP = Sulfuric Preserved Plastic; VB = Vial Sodium Bisulphite Preserved; VS = Vial Sulfuric Preserved; V = Unpreserved Vial; G = Amber Glass Unpreserved; SG = Sulfuric Preserved Amber Glass; F = Formaldehyde Preserved Glass; HS = HCl preserved Speciation bottle; Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved bottle; ST = Sterile Bottle; J = Unpreserved Glass Jar; ASS = Plastic Bag for Acid Sulfate Soils; B = Unpreserved Bag.

26/11/21

Page 1 of 1

Sydney Laboratory Services

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Ph: (02) 9648-6669



Accreditation No.14664

Accredited for compliance with ISO/IEC 17025 - Testing.

SAMPLE RECEIPT NOTIFICATION (SRN)

Contact: Thesan. Naidoo
Project name: 21.1508
Number of samples: 35
COC number: 21.1508
Turn around time: 2 Days
Date: 24.11.2021
Time received: 2:30 PM
SLS Reference: 2105779
Estimated Report Delivery Date: 26.11.2021

Sample information

- All samples have been received and logged into LIMS.
 No mistakes in the COC
 Evidence of chilling for Samples
N/A Samples were preserved
N/A Custody seal intact
 Samples were delivered within holding time
 Samples to be tested for volatiles had zero headspace
 All samples were received in good condition (no broken jars, labelled correctly...).
 Samples have been subcontracted

Comments**This report contains:**

Sample receipt non-conformities
Summary of samples and requested analysis
Requested report deliverables

Asbestos Samples are reported as per the State EPA guidelines

Contact details

If you have any questions with respect to these samples please contact:

sls@ade.group

Krista Johnston

SAMPLE RECEIPT NOTIFICATION (SRN)

Laboratory Sample ID	Client Sample ID	6 Metal Suite	8 Metal Suite	BTEX	PAH	OCP/OPP	PCB	VTRH	TRH	Phenols	VOC	PFAS	Bulk	Dust	Dust Swab	Soil 105 grams	Soil 500 g NEPM	AAM
2021038735	WAC1.TP2_0.9	X	X	X	X	X		X								X		
2021038736	WAC1.TP12_0.3	X	X	X	X	X		X	X	X						X		
2021038737	WAC1.TP12_0.5	X	X	X	X	X		X	X	X						X		
2021038738	WAC1.TP13_0.3	X	X	X	X	X		X								X		
2021038739	WAC1.TP13_1.0	X	X	X	X	X		X								X		
2021038740	WAC1.TP14_0.3	X	X	X	X	X		X	X	X						X		
2021038741	WAC1.TP14_0.7	X	X	X	X	X		X	X	X						X		
2021038742	WAC1.TP15_0.3	X	X	X	X	X		X								X		
2021038743	WAC1.TP15_0.7	X	X	X	X	X		X								X		
2021038744	WAC1.TP16_0.2	X	X	X	X	X		X								X		
2021038745	WAC1.TP16_0.5	X	X	X	X	X		X								X		
2021038746	WAC1.TP17_0.3	X	X	X	X	X		X								X		
2021038747	WAC1.TP17_0.6	X	X	X	X	X		X								X		
2021038748	WAC1.TP18_0.2	X	X	X	X	X		X								X		
2021038749	WAC1.TP18_0.8	X	X	X	X	X		X								X		
2021038750	WAC1.TP19_0.2	X	X	X	X	X		X								X		
2021038751	WAC1.TP19_0.4	X	X	X	X	X		X								X		
2021038752	WAC1.TP20_0.3	X	X	X	X	X		X								X		
2021038753	WAC1.TP20_0.5	X	X	X	X	X		X								X		
2021038754	WAC1.TP21_0.3	X	X	X	X	X		X	X	X						X		
2021038755	WAC1.TP21_0.5	X	X	X	X	X		X	X	X						X		
2021038756	WAC1.TP22_0.3	X	X	X	X	X		X								X		
2021038757	WAC1.TP22_0.5	X	X	X	X	X		X								X		
2021038758	WAC1.TP23_0.3	X	X	X	X	X		X								X		
2021038759	WAC1.TP23_0.6	X	X	X	X	X		X								X		
2021038760	WAC1.TP24_0.5	X	X	X	X	X		X								X		
2021038761	WAC1.TP24_1.0	X	X	X	X	X		X								X		
2021038762	WAC1.TP25_0.3	X	X	X	X	X		X								X		
2021038763	WAC1.TP25_0.7	X	X	X	X	X		X								X		
2021038764	WAC1.TP5_0.7	X	X	X	X	X		X								X		
2021038795	WAC1.TP3_FC3_0.1															X		
2021038796	WAC1.TP21_FC4_0.1															X		
2021038797	WAC1.TP23_FC5_0.1															X		
2021038765	BR2	X	X	X	X	X		X	X	X								
2021038766	BR3	X	X	X	X	X		X										

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**Accreditation No.14664**

Accredited for compliance with ISO/IEC 17025 - Testing.

This certificate of analysis contains General Comments and Analytical Results. Quality Control Report and Laboratory Quality Acceptance Criteria have been issued separately.

This report supersedes any previous report(s) with this reference. This document shall not be reproduced, except in full.

This report has been electronically signed by authorised signatories below.

Authorised By

A handwritten signature in blue ink that appears to read "Kaiyu Li".

Kaiyu Li

General Comments

Samples are analysed on as received basis. Sampling is not covered by NATA accreditation.

Where moisture determination has been performed, results are reported on dry weight basis.

Where the PQL of reported result differs from standard PQL, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Samples were analysed within holding time described by laboratory internal procedures if not stated otherwise. If samples delivered do not meet required analytical criteria, results will be marked with ^.

However surrogate standards are added to samples, results are not corrected for standards recoveries.

Analysis of VOC in water samples are performed on unfiltered waters (as received) spiked with surrogates and injection standards only.

SLS is responsible for all the information in the report, except that provided by the customer.

All sampling information included in the report has been provided by customer.

Information provided by the customer can affect the validity of the results.

Certificate of Analysis

Contact:	Thesan Naidoo	Date Reported:	29/11/2021
Customer:	ADE Consulting Group	No. of Samples:	32
Address:	Unit 6 7 Millennium Court Silverwater NSW	Date Received:	24/11/2021
		Date of Analysis:	25/11/2021
Cust Ref:	21.1508		

Glossary:

- *NATA accreditation does not cover the performance of this service
- ND-not detected,
- NT-not tested
- INS-Insufficient material to perform the test
- LCS-Laboratory Control Sample
- RPD-Relative Percent Difference
- N/A-Not Applicable
- < less than
- > greater than
- PQL- Practical Quantitation Limit
- ^Analytical result might be compromised due to sample condition or holding time requirements
- Reaction rate 1 = Slight
- Reaction rate 2 = Moderate
- Reaction rate 3 = High
- Reaction rate 4 = Vigorous

Certificate of Analysis

	<i>Sample ID:</i>	2021038735	2021038736	2021038737	2021038738	2021038739	2021038740	2021038741	2021038742	2021038743	2021038744	2021038745
	<i>Sample Name</i>	WAC1.TP2_0.9	WAC1.TP12_0.3	WAC1.TP12_0.5	WAC1.TP13_0.3	WAC1.TP13_1.0	WAC1.TP14_0.3	WAC1.TP14_0.7	WAC1.TP15_0.3	WAC1.TP15_0.7	WAC1.TP16_0.2	WAC1.TP16_0.5
<i>Parameter</i>	<i>Units</i>	<i>PQL</i>										
ESA-P-ORG7 & ORG8												
Benzene	mg/kg	0.5	<0.50	-	-	<0.50	<0.50	-	-	<0.50	<0.50	<0.50
Toluene	mg/kg	0.5	<0.50	-	-	<0.50	<0.50	-	-	<0.50	<0.50	<0.50
Ethylbenzene	mg/kg	1	<1.0	-	-	<1.0	<1.0	-	-	<1.0	<1.0	<1.0
m.p Xylene	mg/kg	2	<2.0	-	-	<2.0	<2.0	-	-	<2.0	<2.0	<2.0
o Xylene	mg/kg	1	<1.0	-	-	<1.0	<1.0	-	-	<1.0	<1.0	<1.0
Sum of BTEX	mg/kg	2	<2.00	-	-	<2.00	<2.00	-	-	<2.00	<2.00	<2.00
Total Xylenes	mg/kg	2	<2.0	-	-	<2.0	<2.0	-	-	<2.0	<2.0	<2.0
Fluorobenzene (Surr.)	%		107	-	-	99	103	-	-	103	99	112
ESA-MP-01,ICP-01												
Arsenic	mg/kg	5	7.4	9.4	15.8	8.8	<5.0	<5.0	19.9	<5.0	7.2	<5.0
Cadmium	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Chromium	mg/kg	5	11.5	27.5	16.1	14.0	5.1	9.8	14.9	14.6	9.8	10.2
Copper	mg/kg	5	17.1	93.1	20.8	66.5	12.8	12.3	24.7	65.0	20.6	22.3
Lead	mg/kg	10	28.4	538.5	27.8	338.2	22.5	21.2	24.6	302.0	67.5	139.8
Mercury	mg/kg	0.2	<0.20	0.98	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Nickel	mg/kg	10	<10.0	14.8	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Zinc	mg/kg	5	13.3	982.9	26.0	451.6	16.9	10.4	20.0	268.0	37.2	167.3
ESA-P-12												
% Moisture Content	%		15.1	19.4	24.2	20.1	19.0	16.2	16.5	16.3	16.7	19.8
ESA-P-ORG(12 - 15)												
Acenaphthene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Acenaphthylene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Anthracene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Benzo[a]anthracene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Benzo[a]pyrene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30

Certificate of Analysis

	<i>Sample ID:</i>	2021038735	2021038736	2021038737	2021038738	2021038739	2021038740	2021038741	2021038742	2021038743	2021038744	2021038745
	<i>Sample Name</i>	WAC1.TP2_0.9	WAC1.TP12_0.3	WAC1.TP12_0.5	WAC1.TP13_0.3	WAC1.TP13_1.0	WAC1.TP14_0.3	WAC1.TP14_0.7	WAC1.TP15_0.3	WAC1.TP15_0.7	WAC1.TP16_0.2	WAC1.TP16_0.5
<i>Parameter</i>	<i>Units</i>	<i>PQL</i>										
Benzo[b]fluoranthene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Benzo[g,h,i]perylene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Benzo[k]fluoranthene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Chrysene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Dibenzo[a,h]anthracene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Fluoranthene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Fluorene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Indeno(1,2,3-cd)pyrene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Naphthalene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Phenanthrene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Pyrene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Sum of Positive PAHs	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Benzo(a)pyrene TEQ (Zero)	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Benzo(a)pyrene TEQ (Half PQL)	mg/kg	0.3	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
Benzo(a)pyrene TEQ (PQL)	mg/kg	0.3	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73
p-Terphenyl-d14 (Surr.)	%		92	90	80	80	89	63	75	82	84	83
aldrin	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
a-BHC	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
b-BHC	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
d-BHC	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
g-BHC (lindane)	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
cis-chlordane	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
trans-chlordane	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
4,4'-DDD	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
4,4'-DDE	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
4,4'-DDT	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10

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		<i>Sample ID:</i>	2021038735	2021038736	2021038737	2021038738	2021038739	2021038740	2021038741	2021038742	2021038743	2021038744	2021038745
		<i>Sample Name</i>	WAC1.TP2_0.9	WAC1.TP12_0.3	WAC1.TP12_0.5	WAC1.TP13_0.3	WAC1.TP13_1.0	WAC1.TP14_0.3	WAC1.TP14_0.7	WAC1.TP15_0.3	WAC1.TP15_0.7	WAC1.TP16_0.2	WAC1.TP16_0.5
<i>Parameter</i>	<i>Units</i>	<i>PQL</i>											
dieldrin	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
endosulfan I	mg/kg	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
endosulfan II	mg/kg	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
endosulfan sulfate	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
endrin	mg/kg	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
endrin aldehyde	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
endrin ketone	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
heptachlor	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
heptachlor epoxide	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
hexachlorobenzene	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
methoxychlor	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TCMX (Surr.)	%		97	125	113	91	103	92	111	95	99	97	100
chlorpyrifos	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
chlorpyrifos methyl	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
diazinon	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
fenchlorphos	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
methyl parathion	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
prophos	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
tributylphosphorotrithioite	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Aroclor 1016	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1221	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1232	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1242	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1248	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1254	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1260	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

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	<i>Sample ID:</i>	2021038735	2021038736	2021038737	2021038738	2021038739	2021038740	2021038741	2021038742	2021038743	2021038744	2021038745	
	<i>Sample Name</i>	WAC1.TP2_0.9	WAC1.TP12_0.3	WAC1.TP12_0.5	WAC1.TP13_0.3	WAC1.TP13_1.0	WAC1.TP14_0.3	WAC1.TP14_0.7	WAC1.TP15_0.3	WAC1.TP15_0.7	WAC1.TP16_0.2	WAC1.TP16_0.5	
<i>Parameter</i>	<i>Units</i>	<i>PQL</i>											
2-fluorobiphenyl (Surr.)	%		86	113	101	80	92	90	100	84	85	86	89
ESA-P-ORG17													
Phenol	mg/kg	0.2	-	<0.20	<0.20	-	-	<0.20	<0.20	-	-	-	
2-Chlorophenol	mg/kg	0.1	-	<0.10	<0.10	-	-	<0.10	<0.10	-	-	-	
2-Methylphenol	mg/kg	0.2	-	<0.20	<0.20	-	-	<0.20	<0.20	-	-	-	
3/4-Methylephenol	mg/kg	0.4	-	<0.40	<0.40	-	-	<0.40	<0.40	-	-	-	
2-Nitrophenol	mg/kg	0.2	-	<0.20	<0.20	-	-	<0.20	<0.20	-	-	-	
2,4-Dimethylphenol	mg/kg	0.2	-	<0.20	<0.20	-	-	<0.20	<0.20	-	-	-	
2,4-Dichlorophenol	mg/kg	0.05	-	<0.050	<0.050	-	-	<0.050	<0.050	-	-	-	
2,6-Dichlorophenol	mg/kg	0.05	-	<0.050	<0.050	-	-	<0.050	<0.050	-	-	-	
3-Methyl,4-Chlorophenol	mg/kg	0.2	-	<0.20	<0.20	-	-	<0.20	<0.20	-	-	-	
2,4,6-Trichlorophenol	mg/kg	0.05	-	<0.050	<0.050	-	-	<0.050	<0.050	-	-	-	
2,4,5-Trichlorophenol	mg/kg	0.05	-	<0.050	<0.050	-	-	<0.050	<0.050	-	-	-	
2,4-Dinitrophenol	mg/kg	4	-	<4.0	<4.0	-	-	<4.0	<4.0	-	-	-	
4-Nitrophenol	mg/kg	4	-	<4.0	<4.0	-	-	<4.0	<4.0	-	-	-	
2,3,5,6-Tetrachlorophenol	mg/kg	0.1	-	<0.10	<0.10	-	-	<0.10	<0.10	-	-	-	
2,3,4,5-Tetrachlorophenol	mg/kg	0.1	-	<0.10	<0.10	-	-	<0.10	<0.10	-	-	-	
2,3,4,6-Tetrachlorophenol	mg/kg	0.1	-	<0.10	<0.10	-	-	<0.10	<0.10	-	-	-	
2-Methyl-4,6-dinitrophenol	mg/kg	2	-	<2.0	<2.0	-	-	<2.0	<2.0	-	-	-	
Pentachlorophenol	mg/kg	0.2	-	<0.20	<0.20	-	-	<0.20	<0.20	-	-	-	
Dinoseb	mg/kg	5	-	<5.0	<5.0	-	-	<5.0	<5.0	-	-	-	
2-Cyclohexyl-4,6-dinitrophenol	mg/kg	5	-	<5.0	<5.0	-	-	<5.0	<5.0	-	-	-	
Sum of Positive Phenols	mg/kg	0.05	-	<0.050	<0.050	-	-	<0.050	<0.050	-	-	-	
Phenol-d6 (Surr.)	%		-	90	91	-	-	101	99	-	-	-	
2-Chlorophenol-d4 (Surr.)	%		-	104	105	-	-	117	115	-	-	-	

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		Sample ID:	2021038735	2021038736	2021038737	2021038738	2021038739	2021038740	2021038741	2021038742	2021038743	2021038744	2021038745
		Sample Name	WAC1.TP2_0.9	WAC1.TP12_0.3	WAC1.TP12_0.5	WAC1.TP13_0.3	WAC1.TP13_1.0	WAC1.TP14_0.3	WAC1.TP14_0.7	WAC1.TP15_0.3	WAC1.TP15_0.7	WAC1.TP16_0.2	WAC1.TP16_0.5
Parameter	Units	PQL											
ESA-P-ORG(3,5,6,8)													
>C10-C16	mg/kg	50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
>C16-C34	mg/kg	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
>C34-C40	mg/kg	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
>C10-C40 (Sum of total)	mg/kg	50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
>C10-C14	mg/kg	50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
>C15-C28	mg/kg	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
>C29-C36	mg/kg	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
>C10-C36 (Sum of total)	mg/kg	50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
ESA-P-ORG07 & ORG08													
Benzene	mg/kg	0.5	-	<0.50	<0.50	-	-	<0.50	<0.50	-	-	-	-
Toluene	mg/kg	0.5	-	<0.50	<0.50	-	-	<0.50	<0.50	-	-	-	-
Ethylbenzene	mg/kg	0.5	-	<0.50	<0.50	-	-	<0.50	<0.50	-	-	-	-
m,p Xylene	mg/kg	1	-	<1.0	<1.0	-	-	<1.0	<1.0	-	-	-	-
o Xylene	mg/kg	0.5	-	<0.50	<0.50	-	-	<0.50	<0.50	-	-	-	-
Sum of BTEX	mg/kg	1	-	<1.0	<1.0	-	-	<1.0	<1.0	-	-	-	-
Total Xylenes	mg/kg	1	-	<1.0	<1.0	-	-	<1.0	<1.0	-	-	-	-
Styrene	mg/kg	0.5	-	<0.50	<0.50	-	-	<0.50	<0.50	-	-	-	-
Sum of MAHs	mg/kg	1	-	<1.0	<1.0	-	-	<1.0	<1.0	-	-	-	-
vNaphthalene	mg/kg	0.5	-	<0.50	<0.50	-	-	<0.50	<0.50	-	-	-	-
Vinyl Chloride	mg/kg	0.5	-	<0.50	<0.50	-	-	<0.50	<0.50	-	-	-	-
trans-1,2-Dichloroethene	mg/kg	0.5	-	<0.50	<0.50	-	-	<0.50	<0.50	-	-	-	-
Methylene chloride	mg/kg	0.5	-	<0.50	<0.50	-	-	<0.50	<0.50	-	-	-	-
cis-1,2-Dichloroethene	mg/kg	0.5	-	<0.50	<0.50	-	-	<0.50	<0.50	-	-	-	-
Bromochloromethane	mg/kg	0.5	-	<0.50	<0.50	-	-	<0.50	<0.50	-	-	-	-
Chloroform	mg/kg	0.5	-	<0.50	<0.50	-	-	<0.50	<0.50	-	-	-	-

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	<i>Sample ID:</i>	2021038735	2021038736	2021038737	2021038738	2021038739	2021038740	2021038741	2021038742	2021038743	2021038744	2021038745
	<i>Sample Name</i>	WAC1.TP2_0.9	WAC1.TP12_0.3	WAC1.TP12_0.5	WAC1.TP13_0.3	WAC1.TP13_1.0	WAC1.TP14_0.3	WAC1.TP14_0.7	WAC1.TP15_0.3	WAC1.TP15_0.7	WAC1.TP16_0.2	WAC1.TP16_0.5
<i>Parameter</i>	<i>Units</i>	<i>PQL</i>										
1,1,1-Trichloroethane	mg/kg	0.5	-	<0.50	<0.50	-	-	<0.50	<0.50	-	-	-
1,2-Dichloroethane	mg/kg	0.5	-	<0.50	<0.50	-	-	<0.50	<0.50	-	-	-
Carbon tetrachloride	mg/kg	0.5	-	<0.50	<0.50	-	-	<0.50	<0.50	-	-	-
1,1,2-Trichloroethane	mg/kg	0.5	-	<0.50	<0.50	-	-	<0.50	<0.50	-	-	-
Tetrachloroethene	mg/kg	0.5	-	<0.50	<0.50	-	-	<0.50	<0.50	-	-	-
1,1,1,2-Tetrachloroethane	mg/kg	0.5	-	<0.50	<0.50	-	-	<0.50	<0.50	-	-	-
1,1,2,2-Tetrachloroethane	mg/kg	0.5	-	<0.50	<0.50	-	-	<0.50	<0.50	-	-	-
1,2-Dichlorobenzene	mg/kg	0.5	-	<0.50	<0.50	-	-	<0.50	<0.50	-	-	-
1,4-Dichlorobenzene	mg/kg	0.5	-	<0.50	<0.50	-	-	<0.50	<0.50	-	-	-
1,2,4-Trichlorobenzene	mg/kg	0.5	-	<0.50	<0.50	-	-	<0.50	<0.50	-	-	-
Hexachlorobutadiene	mg/kg	0.5	-	<0.50	<0.50	-	-	<0.50	<0.50	-	-	-
1,1-Dichloroethene	mg/kg	0.5	-	<0.50	<0.50	-	-	<0.50	<0.50	-	-	-
Trichloroethene	mg/kg	0.5	-	<0.50	<0.50	-	-	<0.50	<0.50	-	-	-
Chlorobenzene	mg/kg	0.5	-	<0.50	<0.50	-	-	<0.50	<0.50	-	-	-
Sum of Chlorinated Hydrocarbons	mg/kg	0.5	-	<0.50	<0.50	-	-	<0.50	<0.50	-	-	-
Other Chlorinated Hydrocarbon	mg/kg	0.5	-	<0.50	<0.50	-	-	<0.50	<0.50	-	-	-
Toluene-d8 (Surr.)	%	-	124	125	-	-	122	129	-	-	-	-
1,2-Dichloroethane-d4 (Surr.)	%	-	119	127	-	-	127	133	-	-	-	-
4-Bromofluorobenzene (BFB) (Surr.)	%	-	104	109	-	-	110	115	-	-	-	-
Trifluorotoluene (Surr.)	%	-	117	117	-	-	115	120	-	-	-	-

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	<i>Sample ID:</i>	2021038746	2021038747	2021038748	2021038749	2021038750	2021038751	2021038752	2021038753	2021038754	2021038755	2021038756
	<i>Sample Name</i>	WAC1.TP17_0.3	WAC1.TP17_0.6	WAC1.TP18_0.2	WAC1.TP18_0.8	WAC1.TP19_0.2	WAC1.TP19_0.4	WAC1.TP20_0.3	WAC1.TP20_0.5	WAC1.TP21_0.3	WAC1.TP21_0.5	WAC1.TP22_0.3
<i>Parameter</i>	<i>Units</i>	<i>PQL</i>										
ESA-P-ORG7 & ORG8												
Benzene	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	-	<0.50
Toluene	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	-	<0.50
Ethylbenzene	mg/kg	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	-	<1.0
m,p Xylene	mg/kg	2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-	-	<2.0
o Xylene	mg/kg	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	-	<1.0
Sum of BTEX	mg/kg	2	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	-	-	<2.00
Total Xylenes	mg/kg	2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-	-	<2.0
Fluorobenzene (Surr.)	%		101	105	105	100	104	103	100	115	-	130
ESA-MP-01,ICP-01												
Arsenic	mg/kg	5	<5.0	9.0	6.8	15.1	<5.0	8.5	12.4	14.2	<5.0	6.6
Cadmium	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Chromium	mg/kg	5	10.9	13.8	11.9	15.3	9.5	15.8	18.1	18.2	13.3	12.1
Copper	mg/kg	5	28.9	36.9	12.3	13.8	20.6	20.0	376.6	17.9	47.6	14.4
Lead	mg/kg	10	160.6	56.4	20.7	22.6	606.8	33.7	299.3	23.4	373.2	30.3
Mercury	mg/kg	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.84	<0.20	<0.20
Nickel	mg/kg	10	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Zinc	mg/kg	5	252.7	52.1	11.7	18.1	106.2	24.0	368.3	17.8	378.5	32.7
ESA-P-12												
% Moisture Content	%		21.4	19.8	18.8	20.3	13.4	19.0	13.8	21.3	15.9	18.7
ESA-P-ORG(12 - 15)												
Acenaphthene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Acenaphthylene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Anthracene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Benzo[a]anthracene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Benzo[a]pyrene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30

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		<i>Sample ID:</i>	2021038746	2021038747	2021038748	2021038749	2021038750	2021038751	2021038752	2021038753	2021038754	2021038755	2021038756
		<i>Sample Name</i>	WAC1.TP17_0.3	WAC1.TP17_0.6	WAC1.TP18_0.2	WAC1.TP18_0.8	WAC1.TP19_0.2	WAC1.TP19_0.4	WAC1.TP20_0.3	WAC1.TP20_0.5	WAC1.TP21_0.3	WAC1.TP21_0.5	WAC1.TP22_0.3
<i>Parameter</i>	<i>Units</i>	<i>PQL</i>											
Benzo[b]fluoranthene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Benzo[g,h,i]perylene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Benzo[k]fluoranthene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Chrysene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Dibenzo[a,h]anthracene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Fluoranthene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	0.60	<0.30	<0.30	<0.30	<0.30
Fluorene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Indeno(1,2,3-cd)pyrene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Naphthalene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Phenanthrene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Pyrene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	0.54	<0.30	<0.30	<0.30	<0.30
Sum of Positive PAHs	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	1.14	<0.30	<0.30	<0.30	<0.30
Benzo(a)pyrene TEQ (Zero)	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Benzo(a)pyrene TEQ (Half PQL)	mg/kg	0.3	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
Benzo(a)pyrene TEQ (PQL)	mg/kg	0.3	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73
p-Terphenyl-d14 (Surr.)	%		100	79	103	87	94	92	104	107	96	80	101
aldrin	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
a-BHC	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
b-BHC	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
d-BHC	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
g-BHC (lindane)	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
cis-chlordane	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
trans-chlordane	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
4,4'-DDD	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
4,4'-DDE	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
4,4'-DDT	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10

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		<i>Sample Name</i>	WAC1.TP17_0.3	WAC1.TP17_0.6	WAC1.TP18_0.2	WAC1.TP18_0.8	WAC1.TP19_0.2	WAC1.TP19_0.4	WAC1.TP20_0.3	WAC1.TP20_0.5	WAC1.TP21_0.3	WAC1.TP21_0.5	WAC1.TP22_0.3
<i>Parameter</i>	<i>Units</i>	<i>PQL</i>											
dieldrin	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
endosulfan I	mg/kg	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
endosulfan II	mg/kg	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
endosulfan sulfate	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
endrin	mg/kg	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
endrin aldehyde	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
endrin ketone	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
heptachlor	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
heptachlor epoxide	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
hexachlorobenzene	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
methoxychlor	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TCMX (Surr.)	%		101	86	102	98	101	95	108	120	126	95	106
chlorpyrifos	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
chlorpyrifos methyl	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
diazinon	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
fenchlorphos	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
methyl parathion	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
prophos	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
tributylphosphorotrithioite	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Aroclor 1016	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1221	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1232	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1242	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1248	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1254	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1260	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

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	<i>Sample Name</i>	WAC1.TP17_0.3	WAC1.TP17_0.6	WAC1.TP18_0.2	WAC1.TP18_0.8	WAC1.TP19_0.2	WAC1.TP19_0.4	WAC1.TP20_0.3	WAC1.TP20_0.5	WAC1.TP21_0.3	WAC1.TP21_0.5	WAC1.TP22_0.3	
<i>Parameter</i>	<i>Units</i>	<i>PQL</i>											
2-fluorobiphenyl (Surr.)	%		93	78	91	86	87	82	100	107	117	91	96
ESA-P-ORG17													
Phenol	mg/kg	0.2	-	-	-	-	-	-	-	<0.20	<0.20	-	
2-Chlorophenol	mg/kg	0.1	-	-	-	-	-	-	-	<0.10	<0.10	-	
2-Methylphenol	mg/kg	0.2	-	-	-	-	-	-	-	<0.20	<0.20	-	
3/4-Methylephenol	mg/kg	0.4	-	-	-	-	-	-	-	<0.40	<0.40	-	
2-Nitrophenol	mg/kg	0.2	-	-	-	-	-	-	-	<0.20	<0.20	-	
2,4-Dimethylphenol	mg/kg	0.2	-	-	-	-	-	-	-	<0.20	<0.20	-	
2,4-Dichlorophenol	mg/kg	0.05	-	-	-	-	-	-	-	<0.050	<0.050	-	
2,6-Dichlorophenol	mg/kg	0.05	-	-	-	-	-	-	-	<0.050	<0.050	-	
3-Methyl,4-Chlorophenol	mg/kg	0.2	-	-	-	-	-	-	-	<0.20	<0.20	-	
2,4,6-Trichlorophenol	mg/kg	0.05	-	-	-	-	-	-	-	<0.050	<0.050	-	
2,4,5-Trichlorophenol	mg/kg	0.05	-	-	-	-	-	-	-	<0.050	<0.050	-	
2,4-Dinitrophenol	mg/kg	4	-	-	-	-	-	-	-	<4.0	<4.0	-	
4-Nitrophenol	mg/kg	4	-	-	-	-	-	-	-	<4.0	<4.0	-	
2,3,5,6-Tetrachlorophenol	mg/kg	0.1	-	-	-	-	-	-	-	<0.10	<0.10	-	
2,3,4,5-Tetrachlorophenol	mg/kg	0.1	-	-	-	-	-	-	-	<0.10	<0.10	-	
2,3,4,6-Tetrachlorophenol	mg/kg	0.1	-	-	-	-	-	-	-	<0.10	<0.10	-	
2-Methyl-4,6-dinitrophenol	mg/kg	2	-	-	-	-	-	-	-	<2.0	<2.0	-	
Pentachlorophenol	mg/kg	0.2	-	-	-	-	-	-	-	<0.20	<0.20	-	
Dinoseb	mg/kg	5	-	-	-	-	-	-	-	<5.0	<5.0	-	
2-Cyclohexyl-4,6-dinitrophenol	mg/kg	5	-	-	-	-	-	-	-	<5.0	<5.0	-	
Sum of Positive Phenols	mg/kg	0.05	-	-	-	-	-	-	-	<0.050	<0.050	-	
Phenol-d6 (Surr.)	%		-	-	-	-	-	-	-	127	132	-	
2-Chlorophenol-d4 (Surr.)	%		-	-	-	-	-	-	-	136	138	-	

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		<i>Sample Name</i>	WAC1.TP17_0.3	WAC1.TP17_0.6	WAC1.TP18_0.2	WAC1.TP18_0.8	WAC1.TP19_0.2	WAC1.TP19_0.4	WAC1.TP20_0.3	WAC1.TP20_0.5	WAC1.TP21_0.3	WAC1.TP21_0.5	WAC1.TP22_0.3
<i>Parameter</i>	<i>Units</i>	<i>PQL</i>											
ESA-P-ORG(3,5,6,8)													
>C10-C16	mg/kg	50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
>C16-C34	mg/kg	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
>C34-C40	mg/kg	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
>C10-C40 (Sum of total)	mg/kg	50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
>C10-C14	mg/kg	50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
>C15-C28	mg/kg	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
>C29-C36	mg/kg	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
>C10-C36 (Sum of total)	mg/kg	50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
ESA-P-ORG07 & ORG08													
Benzene	mg/kg	0.5	-	-	-	-	-	-	-	-	<0.50	<0.50	-
Toluene	mg/kg	0.5	-	-	-	-	-	-	-	-	<0.50	<0.50	-
Ethylbenzene	mg/kg	0.5	-	-	-	-	-	-	-	-	<0.50	<0.50	-
m,p Xylene	mg/kg	1	-	-	-	-	-	-	-	-	<1.0	<1.0	-
o Xylene	mg/kg	0.5	-	-	-	-	-	-	-	-	<0.50	<0.50	-
Sum of BTEX	mg/kg	1	-	-	-	-	-	-	-	-	<1.0	<1.0	-
Total Xylenes	mg/kg	1	-	-	-	-	-	-	-	-	<1.0	<1.0	-
Styrene	mg/kg	0.5	-	-	-	-	-	-	-	-	<0.50	<0.50	-
Sum of MAHs	mg/kg	1	-	-	-	-	-	-	-	-	<1.0	<1.0	-
vNaphthalene	mg/kg	0.5	-	-	-	-	-	-	-	-	<0.50	<0.50	-
Vinyl Chloride	mg/kg	0.5	-	-	-	-	-	-	-	-	<0.50	<0.50	-
trans-1,2-Dichloroethene	mg/kg	0.5	-	-	-	-	-	-	-	-	<0.50	<0.50	-
Methylene chloride	mg/kg	0.5	-	-	-	-	-	-	-	-	<0.50	<0.50	-
cis-1,2-Dichloroethene	mg/kg	0.5	-	-	-	-	-	-	-	-	<0.50	<0.50	-
Bromochloromethane	mg/kg	0.5	-	-	-	-	-	-	-	-	<0.50	<0.50	-
Chloroform	mg/kg	0.5	-	-	-	-	-	-	-	-	<0.50	<0.50	-

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	<i>Sample Name</i>	WAC1.TP17_0.3	WAC1.TP17_0.6	WAC1.TP18_0.2	WAC1.TP18_0.8	WAC1.TP19_0.2	WAC1.TP19_0.4	WAC1.TP20_0.3	WAC1.TP20_0.5	WAC1.TP21_0.3	WAC1.TP21_0.5	WAC1.TP22_0.3
<i>Parameter</i>	<i>Units</i>	<i>PQL</i>										
1,1,1-Trichloroethane	mg/kg	0.5	-	-	-	-	-	-	-	<0.50	<0.50	-
1,2-Dichloroethane	mg/kg	0.5	-	-	-	-	-	-	-	<0.50	<0.50	-
Carbon tetrachloride	mg/kg	0.5	-	-	-	-	-	-	-	<0.50	<0.50	-
1,1,2-Trichloroethane	mg/kg	0.5	-	-	-	-	-	-	-	<0.50	<0.50	-
Tetrachloroethene	mg/kg	0.5	-	-	-	-	-	-	-	<0.50	<0.50	-
1,1,1,2-Tetrachloroethane	mg/kg	0.5	-	-	-	-	-	-	-	<0.50	<0.50	-
1,1,2,2-Tetrachloroethane	mg/kg	0.5	-	-	-	-	-	-	-	<0.50	<0.50	-
1,2-Dichlorobenzene	mg/kg	0.5	-	-	-	-	-	-	-	<0.50	<0.50	-
1,4-Dichlorobenzene	mg/kg	0.5	-	-	-	-	-	-	-	<0.50	<0.50	-
1,2,4-Trichlorobenzene	mg/kg	0.5	-	-	-	-	-	-	-	<0.50	<0.50	-
Hexachlorobutadiene	mg/kg	0.5	-	-	-	-	-	-	-	<0.50	<0.50	-
1,1-Dichloroethene	mg/kg	0.5	-	-	-	-	-	-	-	<0.50	<0.50	-
Trichloroethene	mg/kg	0.5	-	-	-	-	-	-	-	<0.50	<0.50	-
Chlorobenzene	mg/kg	0.5	-	-	-	-	-	-	-	<0.50	<0.50	-
Sum of Chlorinated Hydrocarbons	mg/kg	0.5	-	-	-	-	-	-	-	<0.50	<0.50	-
Other Chlorinated Hydrocarbon	mg/kg	0.5	-	-	-	-	-	-	-	<0.50	<0.50	-
Toluene-d8 (Surr.)	%	-	-	-	-	-	-	-	-	125	124	-
1,2-Dichloroethane-d4 (Surr.)	%	-	-	-	-	-	-	-	-	133	121	-
4-Bromofluorobenzene (BFB) (Surr.)	%	-	-	-	-	-	-	-	-	114	117	-
Trifluorotoluene (Surr.)	%	-	-	-	-	-	-	-	-	117	121	-

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	<i>Sample ID:</i>	2021038757	2021038758	2021038759	2021038760	2021038761	2021038762	2021038763	2021038764	2021038765	2021038766
	<i>Sample Name</i>	WAC1.TP22_0.5	WAC1.TP23_0.3	WAC1.TP23_0.6	WAC1.TP24_0.5	WAC1.TP24_1.0	WAC1.TP25_0.3	WAC1.TP25_0.7	WAC1.TP5_0.7	BR2	BR3
<i>Parameter</i>	<i>Units</i>	<i>PQL</i>									
ESA-P-ORG7 & ORG8											
Benzene	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50
Toluene	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50
Ethylbenzene	mg/kg	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0
m.p Xylene	mg/kg	2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0
o Xylene	mg/kg	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0
Sum of BTEX	mg/kg	2	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	-	<2.00
Total Xylenes	mg/kg	2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0
Fluorobenzene (Surr.)	%		137	107	118	75	99	101	97	-	113
ESA-MP-01,ICP-01											
Arsenic	mg/kg	5	14.0	19.6	11.0	10.9	11.4	9.0	10.7	13.5	<5.0
Cadmium	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Chromium	mg/kg	5	18.5	20.0	14.6	20.0	14.0	15.0	10.3	14.5	17.1
Copper	mg/kg	5	23.5	49.2	23.8	57.8	13.4	19.5	15.6	16.8	69.8
Lead	mg/kg	10	29.3	215.6	66.6	457.3	20.9	85.4	27.5	21.5	590.6
Mercury	mg/kg	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	1.22	<0.20
Nickel	mg/kg	10	<10.0	10.8	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Zinc	mg/kg	5	88.7	252.5	66.0	313.7	11.3	53.3	17.3	27.4	886.9
ESA-P-12											
% Moisture Content	%		26.5	16.5	16.5	21.1	23.6	20.7	19.3	18.6	20.9
ESA-P-ORG(12 - 15)											
Acenaphthene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Acenaphthylene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Anthracene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Benzo[a]anthracene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Benzo[a]pyrene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30

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	<i>Sample Name</i>		WAC1.TP22_0.5	WAC1.TP23_0.3	WAC1.TP23_0.6	WAC1.TP24_0.5	WAC1.TP24_1.0	WAC1.TP25_0.3	WAC1.TP25_0.7	WAC1.TP5_0.7	BR2	BR3
<i>Parameter</i>	<i>Units</i>	<i>PQL</i>										
Benzo[b]fluoranthene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Benzo[g,h,i]perylene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Benzo[k]fluoranthene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Chrysene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Dibenzo[a,h]anthracene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Fluoranthene	mg/kg	0.3	<0.30	<0.30	<0.30	0.72	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Fluorene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Indeno(1,2,3-cd)pyrene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Naphthalene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Phenanthrene	mg/kg	0.3	<0.30	<0.30	<0.30	0.40	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Pyrene	mg/kg	0.3	<0.30	<0.30	<0.30	0.65	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Sum of Positive PAHs	mg/kg	0.3	<0.30	<0.30	<0.30	1.77	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Benzo(a)pyrene TEQ (Zero)	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Benzo(a)pyrene TEQ (Half PQL)	mg/kg	0.3	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
Benzo(a)pyrene TEQ (PQL)	mg/kg	0.3	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73
p-Terphenyl-d14 (Surr.)	%		106	112	107	87	93	104	108	109	68	105
aldrin	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
a-BHC	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
b-BHC	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
d-BHC	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
g-BHC (lindane)	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
cis-chlordane	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
trans-chlordane	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
4,4'-DDD	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
4,4'-DDE	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
4,4'-DDT	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10

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	<i>Sample Name</i>	WAC1.TP22_0.5	WAC1.TP23_0.3	WAC1.TP23_0.6	WAC1.TP24_0.5	WAC1.TP24_1.0	WAC1.TP25_0.3	WAC1.TP25_0.7	WAC1.TP5_0.7	BR2	BR3
<i>Parameter</i>	<i>Units</i>	<i>PQL</i>									
dieldrin	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
endosulfan I	mg/kg	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
endosulfan II	mg/kg	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
endosulfan sulfate	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
endrin	mg/kg	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
endrin aldehyde	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
endrin ketone	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
heptachlor	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
heptachlor epoxide	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
hexachlorobenzene	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
methoxychlor	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TCMX (Surr.)	%		112	116	113	77	95	105	104	105	92
chlorpyrifos	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
chlorpyrifos methyl	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
diazinon	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
fenchlorphos	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
methyl parathion	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
prophos	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
tributylphosphorotrithioite	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Aroclor 1016	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1221	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1232	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1242	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1248	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1254	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1260	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

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	<i>Sample Name</i>	WAC1.TP22_0.5	WAC1.TP23_0.3	WAC1.TP23_0.6	WAC1.TP24_0.5	WAC1.TP24_1.0	WAC1.TP25_0.3	WAC1.TP25_0.7	WAC1.TP5_0.7	BR2	BR3	
<i>Parameter</i>	<i>Units</i>	<i>PQL</i>										
2-fluorobiphenyl (Surr.)	%		100	101	99	63	80	92	96	94	82	96
ESA-P-ORG17												
Phenol	mg/kg	0.2	-	-	-	-	-	-	-	<0.20	-	
2-Chlorophenol	mg/kg	0.1	-	-	-	-	-	-	-	<0.10	-	
2-Methylphenol	mg/kg	0.2	-	-	-	-	-	-	-	<0.20	-	
3/4-Methylephenol	mg/kg	0.4	-	-	-	-	-	-	-	<0.40	-	
2-Nitrophenol	mg/kg	0.2	-	-	-	-	-	-	-	<0.20	-	
2,4-Dimethylphenol	mg/kg	0.2	-	-	-	-	-	-	-	<0.20	-	
2,4-Dichlorophenol	mg/kg	0.05	-	-	-	-	-	-	-	<0.050	-	
2,6-Dichlorophenol	mg/kg	0.05	-	-	-	-	-	-	-	<0.050	-	
3-Methyl,4-Chlorophenol	mg/kg	0.2	-	-	-	-	-	-	-	<0.20	-	
2,4,6-Trichlorophenol	mg/kg	0.05	-	-	-	-	-	-	-	<0.050	-	
2,4,5-Trichlorophenol	mg/kg	0.05	-	-	-	-	-	-	-	<0.050	-	
2,4-Dinitrophenol	mg/kg	4	-	-	-	-	-	-	-	<4.0	-	
4-Nitrophenol	mg/kg	4	-	-	-	-	-	-	-	<4.0	-	
2,3,5,6-Tetrachlorophenol	mg/kg	0.1	-	-	-	-	-	-	-	<0.10	-	
2,3,4,5-Tetrachlorophenol	mg/kg	0.1	-	-	-	-	-	-	-	<0.10	-	
2,3,4,6-Tetrachlorophenol	mg/kg	0.1	-	-	-	-	-	-	-	<0.10	-	
2-Methyl-4,6-dinitrophenol	mg/kg	2	-	-	-	-	-	-	-	<2.0	-	
Pentachlorophenol	mg/kg	0.2	-	-	-	-	-	-	-	<0.20	-	
Dinoseb	mg/kg	5	-	-	-	-	-	-	-	<5.0	-	
2-Cyclohexyl-4,6-dinitrophenol	mg/kg	5	-	-	-	-	-	-	-	<5.0	-	
Sum of Positive Phenols	mg/kg	0.05	-	-	-	-	-	-	-	<0.050	-	
Phenol-d6 (Surr.)	%		-	-	-	-	-	-	-	79	-	
2-Chlorophenol-d4 (Surr.)	%		-	-	-	-	-	-	-	80	-	

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	Sample Name	WAC1.TP22_0.5	WAC1.TP23_0.3	WAC1.TP23_0.6	WAC1.TP24_0.5	WAC1.TP24_1.0	WAC1.TP25_0.3	WAC1.TP25_0.7	WAC1.TP5_0.7	BR2	BR3	
Parameter	Units	PQL										
ESA-P-ORG(3,5,6,8)												
>C10-C16	mg/kg	50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
>C16-C34	mg/kg	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
>C34-C40	mg/kg	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
>C10-C40 (Sum of total)	mg/kg	50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
>C10-C14	mg/kg	50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
>C15-C28	mg/kg	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
>C29-C36	mg/kg	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
>C10-C36 (Sum of total)	mg/kg	50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
ESA-P-ORG07 & ORG08												
Benzene	mg/kg	0.5	-	-	-	-	-	-	-	<0.50	-	-
Toluene	mg/kg	0.5	-	-	-	-	-	-	-	<0.50	-	-
Ethylbenzene	mg/kg	0.5	-	-	-	-	-	-	-	<0.50	-	-
m,p Xylene	mg/kg	1	-	-	-	-	-	-	-	<1.0	-	-
o Xylene	mg/kg	0.5	-	-	-	-	-	-	-	<0.50	-	-
Sum of BTEX	mg/kg	1	-	-	-	-	-	-	-	<1.0	-	-
Total Xylenes	mg/kg	1	-	-	-	-	-	-	-	<1.0	-	-
Styrene	mg/kg	0.5	-	-	-	-	-	-	-	<0.50	-	-
Sum of MAHs	mg/kg	1	-	-	-	-	-	-	-	<1.0	-	-
vNaphthalene	mg/kg	0.5	-	-	-	-	-	-	-	<0.50	-	-
Vinyl Chloride	mg/kg	0.5	-	-	-	-	-	-	-	<0.50	-	-
trans-1,2-Dichloroethene	mg/kg	0.5	-	-	-	-	-	-	-	<0.50	-	-
Methylene chloride	mg/kg	0.5	-	-	-	-	-	-	-	<0.50	-	-
cis-1,2-Dichloroethene	mg/kg	0.5	-	-	-	-	-	-	-	<0.50	-	-
Bromochloromethane	mg/kg	0.5	-	-	-	-	-	-	-	<0.50	-	-
Chloroform	mg/kg	0.5	-	-	-	-	-	-	-	<0.50	-	-

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	<i>Sample ID:</i>	2021038757	2021038758	2021038759	2021038760	2021038761	2021038762	2021038763	2021038764	2021038765	2021038766
	<i>Sample Name</i>	WAC1.TP22_0.5	WAC1.TP23_0.3	WAC1.TP23_0.6	WAC1.TP24_0.5	WAC1.TP24_1.0	WAC1.TP25_0.3	WAC1.TP25_0.7	WAC1.TP5_0.7	BR2	BR3
<i>Parameter</i>	<i>Units</i>	<i>PQL</i>									
1,1,1-Trichloroethane	mg/kg	0.5	-	-	-	-	-	-	-	<0.50	-
1,2-Dichloroethane	mg/kg	0.5	-	-	-	-	-	-	-	<0.50	-
Carbon tetrachloride	mg/kg	0.5	-	-	-	-	-	-	-	<0.50	-
1,1,2-Trichloroethane	mg/kg	0.5	-	-	-	-	-	-	-	<0.50	-
Tetrachloroethene	mg/kg	0.5	-	-	-	-	-	-	-	<0.50	-
1,1,1,2-Tetrachloroethane	mg/kg	0.5	-	-	-	-	-	-	-	<0.50	-
1,1,2,2-Tetrachloroethane	mg/kg	0.5	-	-	-	-	-	-	-	<0.50	-
1,2-Dichlorobenzene	mg/kg	0.5	-	-	-	-	-	-	-	<0.50	-
1,4-Dichlorobenzene	mg/kg	0.5	-	-	-	-	-	-	-	<0.50	-
1,2,4-Trichlorobenzene	mg/kg	0.5	-	-	-	-	-	-	-	<0.50	-
Hexachlorobutadiene	mg/kg	0.5	-	-	-	-	-	-	-	<0.50	-
1,1-Dichloroethene	mg/kg	0.5	-	-	-	-	-	-	-	<0.50	-
Trichloroethene	mg/kg	0.5	-	-	-	-	-	-	-	<0.50	-
Chlorobenzene	mg/kg	0.5	-	-	-	-	-	-	-	<0.50	-
Sum of Chlorinated Hydrocarbons	mg/kg	0.5	-	-	-	-	-	-	-	<0.50	-
Other Chlorinated Hydrocarbon	mg/kg	0.5	-	-	-	-	-	-	-	<0.50	-
Toluene-d8 (Surr.)	%	-	-	-	-	-	-	-	-	111	-
1,2-Dichloroethane-d4 (Surr.)	%	-	-	-	-	-	-	-	-	113	-
4-Bromofluorobenzene (BFB) (Surr.)	%	-	-	-	-	-	-	-	-	101	-
Trifluorotoluene (Surr.)	%	-	-	-	-	-	-	-	-	108	-

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Unit 4/10-11 Millennium Court,
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**Accreditation No.14664**

Accredited for compliance with ISO/IEC 17025 - Testing.

This Quality Control Report contains results of QAQC samples analysis and the Laboratory Acceptance Criteria.

This report supersedes any previous report(s) with this reference. This document shall not be reproduced, except in full.

This report has been electronically signed by authorised signatories below.

Authorised By

A handwritten signature in blue ink, appearing to read 'Kaiyu Li'.

Kaiyu Li

General Comments

Duplicate samples and matrix spike may not be prepared on smaller jobs, however are analysed at frequency. QAQC samples shown within the report as e.g. Batch Blank, Batch Matrix Spike were performed on samples not reported on that Certificate of Analysis.

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 the same manner as for samples.

Duplicate This is the interlaboratory split of a random sample from the processed batch

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.

Sur. (Surrogate Spike) Surrogates are known additions to each sample, blank and matrix spike or LCS in a batch. Surrogates are chosen as a compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Blank shall be < PQL

Matrix Spikes and LCS: Generally 70-130% for inorganics/metals/PFAS, 60-140% for organics is acceptable. Matrix heterogeneity may result in matrix spike analyses falling outside these limits

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

Results <10 times the PQL : No Limit

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

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

Surrogate Recoveries : Recoveries must lie between 50-150%

SLS is responsible for all the information in the report, except that provided by the customer.

All sampling information included in the report has been provided by customer.

Information provided by the customer can affect the validity of the results.

Quality Control Report

Contact: Thesan Naidoo **Date Reported:** 29/11/2021
Customer: ADE Consulting Group **No. of Samples:** 54
Address: Unit 6 **Date Received:** 24/11/2021
7 Millennium Court **Date of Analysis:** 25/11/2021
Silverwater NSW

Cust Ref: 21.1508

Glossary:

- *NATA accreditation does not cover the performance of this service
- ND-not detected,
- NT-not tested
- INS-Insufficient material to perform the test
- LCS-Laboratory Control Sample
- RPD-Relative Percent Difference
- N/A-Not Applicable
- < less than
- > greater than
- PQL- Practical Quantitation Limit
- ^Analytical result might be compromised due to sample condition or holding time requirements
- Reaction rate 1 = Slight
- Reaction rate 2 = Moderate
- Reaction rate 3 = High
- Reaction rate 4 = Vigorous

Quality Control Report

Sample ID: Q2021009853 Q2021009861 Q2021009881

Sample Name

Parameter	Units	PQL	PCB Blank Sp - Soil	PCB Blank Sp - Soil	PCB Blank Sp - Soil
ESA-P-ORG(12 - 15)					
Acenaphthene	%		97	121	94
Anthracene	%		75	81	69
Fluoranthene	%		80	68	79
Naphthalene	%		69	83	68
Phenanthrene	%		75	72	70
Pyrene	%		77	73	76
p-Terphenyl-d14 (Sur.)	%		77	65	79
aldrin	%		77	73	73
endrin	%		77	77	60
hexachlorobenzene	%		76	78	69
TCMX (Sur.)	%		80	89	76
chlorpyrifos	%		67	63	64
diazinon	%		67	66	62
2-fluorobiphenyl (Sur.)	%		75	86	72
Aroclor 1016	%		108	66	100

Sample ID: S202103873501 S202103876101

Sample Name WAC1.TP2_0.9 WAC1.TP24_1.0

Parameter	Units	PQL		
ESA-P-ORG-07 & 08				
Benzene	%		106	118
Toluene	%		97	114
Ethylbenzene	%		96	118
m,p Xylene	%		78	118
o Xylene	%		93	116
Fluorobenzene (Sur.)	%		104	103

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Sample ID: Q2021009852 Q2021009860 Q2021009880

Sample Name

Parameter	Units	PQL	PCB Blank - Soil	PCB Blank - Soil	PCB Blank - Soil
ESA-P-ORG(12 - 15)					
Acenaphthene	mg/kg	0.3	<0.30	<0.30	<0.30
Acenaphthylene	mg/kg	0.3	<0.30	<0.30	<0.30
Anthracene	mg/kg	0.3	<0.30	<0.30	<0.30
Benzo[a]anthracene	mg/kg	0.3	<0.30	<0.30	<0.30
Benzo[a]pyrene	mg/kg	0.3	<0.30	<0.30	<0.30
Benzo[b]fluoranthene	mg/kg	0.3	<0.30	<0.30	<0.30
Benzo[g,h,i]perylene	mg/kg	0.3	<0.30	<0.30	<0.30
Benzo[k]fluoranthene	mg/kg	0.3	<0.30	<0.30	<0.30
Chrysene	mg/kg	0.3	<0.30	<0.30	<0.30
Dibenzo[a,h]anthracene	mg/kg	0.3	<0.30	<0.30	<0.30
Fluoranthene	mg/kg	0.3	<0.30	<0.30	<0.30
Fluorene	mg/kg	0.3	<0.30	<0.30	<0.30
Indeno(1,2,3-cd)pyrene	mg/kg	0.3	<0.30	<0.30	<0.30
Naphthalene	mg/kg	0.3	<0.30	<0.30	<0.30
Phenanthrene	mg/kg	0.3	<0.30	<0.30	<0.30
Pyrene	mg/kg	0.3	<0.30	<0.30	<0.30
aldrin	mg/kg	0.1	<0.10	<0.10	<0.10
a-BHC	mg/kg	0.1	<0.10	<0.10	<0.10
b-BHC	mg/kg	0.1	<0.10	<0.10	<0.10
d-BHC	mg/kg	0.1	<0.10	<0.10	<0.10
g-BHC (lindane)	mg/kg	0.1	<0.10	<0.10	<0.10
cis-chlordane	mg/kg	0.1	<0.10	<0.10	<0.10
trans-chlordane	mg/kg	0.1	<0.10	<0.10	<0.10
4,4'-DDD	mg/kg	0.1	<0.10	<0.10	<0.10
4,4'-DDE	mg/kg	0.1	<0.10	<0.10	<0.10
4,4'-DDT	mg/kg	0.1	<0.10	<0.10	<0.10
dieldrin	mg/kg	0.1	<0.10	<0.10	<0.10
endosulfan I	mg/kg	0.2	<0.20	<0.20	<0.20
endosulfan II	mg/kg	0.2	<0.20	<0.20	<0.20
endosulfan sulfate	mg/kg	0.1	<0.10	<0.10	<0.10

endrin	mg/kg	0.2	<0.20	<0.20	<0.20
endrin aldehyde	mg/kg	0.1	<0.10	<0.10	<0.10
endrin ketone	mg/kg	0.1	<0.10	<0.10	<0.10
heptachlor	mg/kg	0.1	<0.10	<0.10	<0.10
heptachlor epoxide	mg/kg	0.1	<0.10	<0.10	<0.10
hexachlorobenzene	mg/kg	0.1	<0.10	<0.10	<0.10
methoxychlor	mg/kg	0.1	<0.10	<0.10	<0.10
chlorpyrifos	mg/kg	0.1	<0.10	<0.10	<0.10
chlorpyrifos methyl	mg/kg	0.1	<0.10	<0.10	<0.10
diazinon	mg/kg	0.1	<0.10	<0.10	<0.10
fenchlorphos	mg/kg	0.1	<0.10	<0.10	<0.10
methyl parathion	mg/kg	0.1	<0.10	<0.10	<0.10
prophos	mg/kg	0.1	<0.10	<0.10	<0.10
tributylphosphorotrithioite	mg/kg	0.1	<0.10	<0.10	<0.10
Aroclor 1016	mg/kg	0.5	<0.50	<0.50	<0.50
Aroclor 1221	mg/kg	0.5	<0.50	<0.50	<0.50
Aroclor 1232	mg/kg	0.5	<0.50	<0.50	<0.50
Aroclor 1242	mg/kg	0.5	<0.50	<0.50	<0.50
Aroclor 1248	mg/kg	0.5	<0.50	<0.50	<0.50
Aroclor 1254	mg/kg	0.5	<0.50	<0.50	<0.50
Aroclor 1260	mg/kg	0.5	<0.50	<0.50	<0.50

Sample ID: Q2021009858

Sample Name

Parameter	Units	PQL	Phenols Blank - Soil
ESA-P-ORG17			
Phenol	mg/kg	0.2	<0.20
2-Chlorophenol	mg/kg	0.1	<0.10
2-Methylphenol	mg/kg	0.2	<0.20
3/4-Methylephenol	mg/kg	0.4	<0.40
2-Nitrophenol	mg/kg	0.2	<0.20
2,4-Dimethylphenol	mg/kg	0.2	<0.20
2,4-Dichlorophenol	mg/kg	0.05	<0.050
2,6-Dichlorophenol	mg/kg	0.05	<0.050

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3-Methyl,4-Chlorophenol	mg/kg	0.2	<0.20
2,4,6-Trichlorophenol	mg/kg	0.05	<0.050
2,4,5-Trichlorophenol	mg/kg	0.05	<0.050
2,4-Dinitrophenol	mg/kg	4	<4.0
4-Nitrophenol	mg/kg	4	<4.0
2,3,5,6-Tetrachlorophenol	mg/kg	0.1	<0.10
2,3,4,5-Tetrachlorophenol	mg/kg	0.1	<0.10
2,3,4,6-Tetrachlorophenol	mg/kg	0.1	<0.10
2-Methyl-4,6-dinitrophenol	mg/kg	2	<2.0
Pentachlorophenol	mg/kg	0.2	<0.20
Dinoseb	mg/kg	5	<5.0
2-Cyclohexyl-4,6-dinitrophenol	mg/kg	5	<5.0

Sample ID: D202103873703 D202103873802 D202103874902 D202103876202

Sample Name WAC1.TP12_0.5 WAC1.TP13_0.3 WAC1.TP18_0.8 WAC1.TP25_0.3

Parameter	Units	PQL				
ESA-P-ORG(12 - 15)						
Acenaphthene			Pass	Pass	Pass	Pass
Acenaphthylene			Pass	Pass	Pass	Pass
Anthracene			Pass	Pass	Pass	Pass
Benzo[a]anthracene			Pass	Pass	Pass	Pass
Benzo[a]pyrene			Pass	Pass	Pass	Pass
Benzo[b]fluoranthene			Pass	Pass	Pass	Pass
Benzo[g,h,i]perylene			Pass	Pass	Pass	Pass
Benzo[k]fluoranthene			Pass	Pass	Pass	Pass
Chrysene			Pass	Pass	Pass	Pass
Dibenzo[a,h]anthracene			Pass	Pass	Pass	Pass
Fluoranthene			Pass	Pass	Pass	Pass
Fluorene			Pass	Pass	Pass	Pass
Indeno(1,2,3-cd)pyrene			Pass	Pass	Pass	Pass
Naphthalene			Pass	Pass	Pass	Pass
Phenanthrene			Pass	Pass	Pass	Pass
Pyrene			Pass	Pass	Pass	Pass
p-Terphenyl-d14 (Surr.)	%		67	78	100	109
aldrin			Pass	Pass	Pass	Pass

a-BHC			Pass	Pass	Pass	Pass
b-BHC			Pass	Pass	Pass	Pass
d-BHC			Pass	Pass	Pass	Pass
g-BHC (lindane)			Pass	Pass	Pass	Pass
cis-chlordane			Pass	Pass	Pass	Pass
trans-chlordane			Pass	Pass	Pass	Pass
4,4'-DDD			Pass	Pass	Pass	Pass
4,4'-DDE			Pass	Pass	Pass	Pass
4,4'-DDT			Pass	Pass	Pass	Pass
dieldrin			Pass	Pass	Pass	Pass
endosulfan I			Pass	Pass	Pass	Pass
endosulfan II			Pass	Pass	Pass	Pass
endosulfan sulfate			Pass	Pass	Pass	Pass
endrin			Pass	Pass	Pass	Pass
endrin aldehyde			Pass	Pass	Pass	Pass
endrin ketone			Pass	Pass	Pass	Pass
heptachlor			Pass	Pass	Pass	Pass
heptachlor epoxide			Pass	Pass	Pass	Pass
hexachlorobenzene			Pass	Pass	Pass	Pass
methoxychlor			Pass	Pass	Pass	Pass
TCMX (Surr.)	%		108	87	109	107
chlorpyrifos			Pass	Pass	Pass	Pass
chlorpyrifos methyl			Pass	Pass	Pass	Pass
diazinon			Pass	Pass	Pass	Pass
fenchlorphos			Pass	Pass	Pass	Pass
methyl parathion			Pass	Pass	Pass	Pass
prophos			Pass	Pass	Pass	Pass
tributylphosphorotrithioite			Pass	Pass	Pass	Pass
Aroclor 1016			Pass	Pass	Pass	Pass
Aroclor 1221			Pass	Pass	Pass	Pass
Aroclor 1232			Pass	Pass	Pass	Pass
Aroclor 1242			Pass	Pass	Pass	Pass
Aroclor 1248			Pass	Pass	Pass	Pass
Aroclor 1254			Pass	Pass	Pass	Pass

Aroclor 1260			Pass	Pass	Pass	Pass
2-fluorobiphenyl (Surr.)	%		97	78	99	96

Sample ID: D202103873701

Sample Name WAC1.TP12_0.5

Parameter	Units	PQL	
ESA-P-ORG7 & ORG8			
Benzene			Pass
Toluene			Pass
Ethylbenzene			Pass
m,p Xylene			Pass
o Xylene			Pass
Styrene			Pass
vNaphthalene			Pass
Vinyl Chloride			Pass
trans-1,2-Dichloroethene			Pass
Methylene chloride			Pass
cis-1,2-Dichloroethene			Pass
Bromochloromethane			Pass
Chloroform			Pass
1,1,1-Trichloroethane			Pass
1,2-Dichloroethane			Pass
Carbon tetrachloride			Pass
1,1,2-Trichloroethane			Pass
Tetrachloroethene			Pass
1,1,1,2-Tetrachloroethane			Pass
1,1,2,2-Tetrachloroethane			Pass
1,2-Dichlorobenzene			Pass
1,4-Dichlorobenzene			Pass
1,2,4-Trichlorobenzene			Pass
Hexachlorobutadiene			Pass
1,1-Dichloroethene			Pass
Trichloroethene			Pass
Chlorobenzene			Pass
Toluene-d8	%		127

1,2-Dichloroethane-d4	%		126
4-Bromofluorobenzene (BFB)	%		110
Trifluorotoluene (Surr.)	%		121

Sample ID: D202103873601 D202103874501 D202103875601 D202103876501

Sample Name WAC1.TP12_0.3 WAC1.TP16_0.5 WAC1.TP22_0.3 BR2

Parameter	Units	PQL				
ESA-MP-01,ICP-01						
Arsenic			Pass	Pass	Pass	Pass
Cadmium			Pass	Pass	Pass	Pass
Chromium			Pass	Pass	Pass	Pass
Copper			Pass	Pass	Pass	Pass
Lead			Pass	Pass	Pass	Pass
Mercury			Pass	Pass	Pass	Pass
Nickel			Pass	Pass	Pass	Pass
Zinc			Pass	Pass	Pass	Pass

Sample ID: D202103873704 D202103873803 D202103874903 D202103876203

Sample Name WAC1.TP12_0.5 WAC1.TP13_0.3 WAC1.TP18_0.8 WAC1.TP25_0.3

Parameter	Units	PQL				
ESA-P-ORG(3,5,6,8)						
>C10-C16			Pass	Pass	Pass	Pass
>C16-C34			Pass	Pass	Pass	Pass
>C34-C40			Pass	Pass	Pass	Pass
>C10-C14			Pass	Pass	Pass	Pass
>C15-C28			Pass	Pass	Pass	Pass
>C29-C36			Pass	Pass	Pass	Pass

Sample ID: Q2021009865 Q2021009867

Sample Name

Parameter	Units	PQL	Metals Blank Sp-Soil	Metals Blank Sp-Soil
ESA-MP-01,ICP-01				
Arsenic	%		95	92
Cadmium	%		109	107
Chromium	%		103	102
Copper	%		102	101
Lead	%		104	102
Mercury	%		103	103
Nickel	%		104	104
Zinc	%		103	102

Sample ID: D202103873801 D202103874901 D202103876201 D202103877101

Sample Name WAC1.TP13_0.3 WAC1.TP18_0.8 WAC1.TP25_0.3 WAC4-BR2

Parameter	Units	PQL				
ESA-P-ORG7 & ORG8						
Benzene			Pass	Pass	Pass	Pass
Toluene			Pass	Pass	Pass	Pass
Ethylbenzene			Pass	Pass	Pass	Pass
m.p Xylene			Pass	Pass	Pass	Pass
o Xylene			Pass	Pass	Pass	Pass
Fluorobenzene (Surr.)	%		103	103	108	115

Sample ID: S202103873502 S202103873603 S202103876102

Sample Name WAC1.TP2_0.9 WAC1.TP12_0.3 WAC1.TP24_1.0

Parameter	Units	PQL			
ESA-P-ORG(12 - 15)					
Acenaphthene	%		115	132	102
Anthracene	%		94	94	74
Fluoranthene	%		98	78	83
Naphthalene	%		81	88	73
Phenanthrene	%		94	83	83
Pyrene	%		97	81	79
p-Terphenyl-d14 (Surr.)	%		94	73	84

aldrin	%		95	79	80
endrin	%		72	99	78
hexachlorobenzene	%		93	88	73
TCMX (Surr.)	%		95	96	80
chlorpyrifos	%		79	71	63
diazinon	%		68	74	61
Aroclor 1016	%		115	92	85
2-fluorobiphenyl (Surr.)	%		85	96	78

Sample ID: D202103873702

Sample Name WAC1.TP12_0.5

Parameter	Units	PQL	
ESA-P-ORG17			
Phenol			Pass
2-Chlorophenol			Pass
2-Methylphenol			Pass
3/4-Methylephenol			Pass
2-Nitrophenol			Pass
2,4-Dimethylphenol			Pass
2,4-Dichlorophenol			Pass
2,6-Dichlorophenol			Pass
3-Methyl,4-Chlorophenol			Pass
2,4,6-Trichlorophenol			Pass
2,4,5-Trichlorophenol			Pass
2,4-Dinitrophenol			Pass
4-Nitrophenol			Pass
2,3,5,6-Tetrachlorophenol			Pass
2,3,4,5-Tetrachlorophenol			Pass
2,3,4,6-Tetrachlorophenol			Pass
2-Methyl-4,6-dinitrophenol			Pass
Pentachlorophenol			Pass
Dinoseb			Pass

2-Cyclohexyl-4,6-dinitrophenol			Pass
Phenol-d6	%		104
2-Chlorophenol-d4	%		120

Sample ID: Q2021009856

Sample Name

Parameter	Units	PQL	VOCs MB Vic - Soil
ESA-P-ORG7 & ORG8			
Benzene	mg/kg	0.5	<0.50
Toluene	mg/kg	0.5	<0.50
Ethylbenzene	mg/kg	0.5	<0.50
m,p Xylene	mg/kg	1	<1.0
o Xylene	mg/kg	0.5	<0.50
Styrene	mg/kg	0.5	<0.50
vNaphthalene	mg/kg	0.5	<0.50
Vinyl Chloride	mg/kg	0.5	<0.50
trans-1,2-Dichloroethene	mg/kg	0.5	<0.50
Methylene chloride	mg/kg	0.5	<0.50
cis-1,2-Dichloroethene	mg/kg	0.5	<0.50
Bromochloromethane	mg/kg	0.5	<0.50
Chloroform	mg/kg	0.5	<0.50
1,1,1-Trichloroethane	mg/kg	0.5	<0.50
1,2-Dichloroethane	mg/kg	0.5	<0.50
Carbon tetrachloride	mg/kg	0.5	<0.50
1,1,2-Trichloroethane	mg/kg	0.5	<0.50
Tetrachloroethene	mg/kg	0.5	<0.50
1,1,1,2-Tetrachloroethane	mg/kg	0.5	<0.50
1,1,2,2-Tetrachloroethane	mg/kg	0.5	<0.50
1,2-Dichlorobenzene	mg/kg	0.5	<0.50
1,4-Dichlorobenzene	mg/kg	0.5	<0.50
1,2,4-Trichlorobenzene	mg/kg	0.5	<0.50
Hexachlorobutadiene	mg/kg	0.5	<0.50
1,1-Dichloroethene	mg/kg	0.5	<0.50
Trichloroethene	mg/kg	0.5	<0.50
Chlorobenzene	mg/kg	0.5	<0.50

Sample ID: Q2021009854 Q2021009862 Q2021009882

Sample Name

Parameter	Units	PQL	TRH Blank-Soil	TRH Blank-Soil	TRH Blank-Soil
ESA-P-ORG(3,5,6,8)					
>C10-C16	mg/kg	50	<50	<50	<50
>C16-C34	mg/kg	100	<100	<100	<100
>C34-C40	mg/kg	100	<100	<100	<100
>C10-C14	mg/kg	50	<50	<50	<50
>C15-C28	mg/kg	100	<100	<100	<100
>C29-C36	mg/kg	100	<100	<100	<100

Sample ID: S202103873602

Sample Name WAC1.TP12_0.3

Parameter	Units	PQL	
ESA-P-ORG17			
2-Chlorophenol	%		71
2-Methylphenol	%		66
3/4-Methylephenol	%		69
2,6-Dichlorophenol	%		73
Dinoseb	%		85
Phenol-d6 (Surr.)	%		62
2-Chlorophenol-d4 (Surr.)	%		73

Sample ID: Q2021009851

Q2021009879

Sample Name

Parameter	Units	PQL	BTEX Blank Sp-Soil	BTEX Blank Sp-Soil
ESA-P-ORG7 & ORG8				
Benzene	%		112	119
Toluene	%		101	120
Ethylbenzene	%		101	128
m,p Xylene	%		81	130
o Xylene	%		97	127
Fluorobenzene (Surr.)	%		110	106

Sample ID: Q2021009857

Sample Name

Parameter	Units	PQL	VOCs LCS Vic - Soil
ESA-P-ORG7 & ORG8			
1,1-Dichloroethene	%		123
Benzene	%		126
Trichloroethene	%		102
Toluene	%		120
Chlorobenzene	%		113
Toluene-d8 (Surr.)	%		122
1,2-Dichloroethane-d4 (Surr.)	%		127
4-Bromofluorobenzene (BFB) (Surr.)	%		107
Trifluorotoluene (Surr.)	%		117

Sample ID: S202103873601

Sample Name WAC1.TP12_0.3

Parameter	Units	PQL	
ESA-P-ORG-07 & 08			
1,1-Dichloroethene	%		135
Benzene	%		139
Trichloroethene	%		112
Toluene	%		134
Chlorobenzene	%		126
Toluene-d8 (Surr.)	%		129
1,2-Dichloroethane-d4 (Surr.)	%		133
4-Bromofluorobenzene (Surr.)	%		111
Trifluorotoluene (Surr.)	%		121

Sample ID: S202103873504 S202103875501

Sample Name WAC1.TP2_0.9 WAC1.TP21_0.5

Parameter	Units	PQL		
ESA-MP-01,ICP-01				
Arsenic	%		110	109
Cadmium	%		108	110
Chromium	%		110	104

Copper	%		108	109
Lead	%		104	105
Mercury	%		101	105
Nickel	%		117	112
Zinc	%		105	108

Sample ID: Q2021009864 Q2021009866

Sample Name

Parameter	Units	PQL	Metals Blank - Soil	Metals Blank - Soil
ESA-MP-01,ICP-01				
Arsenic	mg/kg	5	<5.0	<5.0
Cadmium	mg/kg	0.3	<0.30	<0.30
Chromium	mg/kg	5	<5.0	<5.0
Copper	mg/kg	5	<5.0	<5.0
Lead	mg/kg	10	<10.0	<10.0
Mercury	mg/kg	0.2	<0.20	<0.20
Nickel	mg/kg	10	<10.0	<10.0
Zinc	mg/kg	5	<5.0	<5.0

Sample ID: Q2021009850 Q2021009878

Sample Name

Parameter	Units	PQL	BTEX Blank - Soil	BTEX Blank - Soil
ESA-P-ORG7 & ORG8				
Benzene	mg/kg	0.5	<0.50	<0.50
Toluene	mg/kg	0.5	<0.50	<0.50
Ethylbenzene	mg/kg	1	<1.0	<1.0
m,p Xylene	mg/kg	2	<2.0	<2.0
o Xylene	mg/kg	1	<1.0	<1.0

Sample ID: S202103873503 S202103873604 S202103876103

Sample Name WAC1.TP2_0.9 WAC1.TP12_0.3 WAC1.TP24_1.0

Parameter	Units	PQL			
ESA-P-ORG(3,5,6,8)					
>C10-C16	%		138	120	104
>C10-C14	%		135	120	102

Sample ID: Q2021009859

Sample Name

Parameter	Units	PQL	Phenois Blank Sp- Soil
ESA-P-ORG17			
2-Chlorophenol	%		65
2-Methylphenol	%		62
3/4-Methylephenol	%		67
2,6-Dichlorophenol	%		61
Dinoseb	%		75
Phenol-d6 (Surr.)	%		63
2-Chlorophenol-d4 (Surr.)	%		60

Sample ID: Q2021009855 Q2021009863 Q2021009883

Sample Name

Parameter	Units	PQL	TRH Blank Spike- Soil	TRH Blank Spike- Soil	TRH Blank Spike- Soil
ESA-P-ORG(3,5,6,8)					
>C10-C16	%		136	139	99
>C10-C14	%		133	138	97

Comments:

Container Type and Preservative: P = Unpreserved Plastic; PN = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; PNA = Sodium Hydroxide Preserved Plastic; PC = HCl preserved Plastic; VC = Vial HCl Preserved; SP = Sulfuric Preserved Plastic; VB = Vial Sodium Bisulphate Preserved; VS = Vial Sulfuric Preserved; V = Unpreserved Vial; G = Amber Glass Unpreserved; SG = Sulfuric Preserved Amber Glass; F = Formaldehyde Preserved Glass; HS = HCl preserved Speciation bottle; Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottle; ST = Sterile Bottle; J = Unpreserved Glass Jar; ASS = Plastic Bag for Acid Sulfate Soils; B = Unpreserved Bag.

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Sydney Laboratory Services

A division of A. D. Envirotech Australia Pty Ltd
A.C.N. 093 452 950
Unit 4/10-11 Millennium Court,
Silverwater 2128
Ph: (02) 9648-6669



Accreditation No.14664

Accredited for compliance with ISO/IEC 17025 - Testing.

SAMPLE RECEIPT NOTIFICATION (SRN)

Contact: Thesan. Naidoo
Project name: 21.1508
Number of samples: 4
COC number: 21.1508
Turn around time: 2 Days
Date: 24.11.2021
Time received: 2:30 PM
SLS Reference: 2105787
Estimated Report Delivery Date: 26.11.2021

Sample information

- All samples have been received and logged into LIMS.
 No mistakes in the COC
 Evidence of chilling for Samples
N/A Samples were preserved
N/A Custody seal intact
 Samples were delivered within holding time
 Samples to be tested for volatiles had zero headspace
 All samples were received in good condition (no broken jars, labelled correctly...).
 Samples have been subcontracted

Comments**This report contains:**

Sample receipt non-conformities
Summary of samples and requested analysis
Requested report deliverables

Asbestos Samples are reported as per the State EPA guidelines

Contact details

If you have any questions with respect to these samples please contact:

sls@ade.group

Krista Johnston

SAMPLE RECEIPT NOTIFICATION (SRN)

Laboratory Sample ID	Client Sample ID	6 Metal Suite	8 Metal Suite	BTEX	PAH	OCP/OPP	PCB	VTRH	TRH	Phenols	VOC	PFAS	Bulk	Dust	Dust Swab	Soil 05 grams	Soil 500 g NEPM	AAM
2021038798	TB2		X															
2021038799	TS2		X															
2021038800	TB3		X															
2021038801	TS3		X															

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**Accreditation No.14664**

Accredited for compliance with ISO/IEC 17025 - Testing.

This certificate of analysis contains General Comments and Analytical Results. Quality Control Report and Laboratory Quality Acceptance Criteria have been issued separately.

This report supersedes any previous report(s) with this reference. This document shall not be reproduced, except in full.

This report has been electronically signed by authorised signatories below.

Authorised By

A handwritten signature in blue ink that appears to read "Kaiyu Li".

Kaiyu Li

General Comments

Samples are analysed on as received basis. Sampling is not covered by NATA accreditation.

Where moisture determination has been performed, results are reported on dry weight basis.

Where the PQL of reported result differs from standard PQL, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Samples were analysed within holding time described by laboratory internal procedures if not stated otherwise. If samples delivered do not meet required analytical criteria, results will be marked with ^.

However surrogate standards are added to samples, results are not corrected for standards recoveries.

Analysis of VOC in water samples are performed on unfiltered waters (as received) spiked with surrogates and injection standards only.

SLS is responsible for all the information in the report, except that provided by the customer.

All sampling information included in the report has been provided by customer.

Information provided by the customer can affect the validity of the results.

Certificate of Analysis

Contact:	Thesan Naidoo	Date Reported:	26/11/2021
Customer:	ADE Consulting Group	No. of Samples:	4
Address:	Unit 6 7 Millennium Court Silverwater NSW	Date Received:	25/11/2021
		Date of Analysis:	25/11/2021
Cust Ref:	21.1508		

Glossary:

- *NATA accreditation does not cover the performance of this service
- ND-not detected,
- NT-not tested
- INS-Insufficient material to perform the test
- LCS-Laboratory Control Sample
- RPD-Relative Percent Difference
- N/A-Not Applicable
- < less than
- > greater than
- PQL- Practical Quantitation Limit
- ^Analytical result might be compromised due to sample condition or holding time requirements
- Reaction rate 1 = Slight
- Reaction rate 2 = Moderate
- Reaction rate 3 = High
- Reaction rate 4 = Vigorous

Certificate of Analysis

Sample ID: 2021038798 2021038799 2021038800 2021038801

Parameter	Units	PQL	TB2	TS2	TB3	TS3
ESA-P-ORG08 & ORG10						
Benzene		1	<1 ug/L	117%	<1 ug/L	115%
Toluene		1	<1 ug/L	120%	<1 ug/L	123%
Ethylbenzene		1	<1 ug/L	126%	<1 ug/L	133%
m,p Xylene		2	<2 ug/L	127%	<2 ug/L	122%
o Xylene		1	<1 ug/L	131%	<1 ug/L	137%
Fluorobenzene (Surr.)	%		104	102	96	101

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Silverwater 2128
Ph: (02) 9648-6669

**Accreditation No.14664**

Accredited for compliance with ISO/IEC 17025 - Testing.

This Quality Control Report contains results of QAQC samples analysis and the Laboratory Acceptance Criteria.

This report supersedes any previous report(s) with this reference. This document shall not be reproduced, except in full.

This report has been electronically signed by authorised signatories below.

Authorised By

A handwritten signature in blue ink, appearing to read "Kaiyu Li".

Kaiyu Li

General Comments

Duplicate samples and matrix spike may not be prepared on smaller jobs, however are analysed at frequency. QAQC samples shown within the report as e.g. Batch Blank, Batch Matrix Spike were performed on samples not reported on that Certificate of Analysis.

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 the same manner as for samples.

Duplicate This is the interlaboratory split of a random sample from the processed batch

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.

Surr. (Surrogate Spike) Surrogates are known additions to each sample, blank and matrix spike or LCS in a batch. Surrogates are chosen as a compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Blank shall be < PQL

Matrix Spikes and LCS: Generally 70-130% for inorganics/metals/PFAS, 60-140% for organics is acceptable. Matrix heterogeneity may result in matrix spike analyses falling outside these limits

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

Results <10 times the PQL : No Limit

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

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

Surrogate Recoveries : Recoveries must lie between 50-150%

SLS is responsible for all the information in the report, except that provided by the customer.

All sampling information included in the report has been provided by customer.

Information provided by the customer can affect the validity of the results.

Quality Control Report

Contact: Thesan Naidoo **Date Reported:** 26/11/2021

Customer: ADE Consulting Group **No. of Samples:**

Address: Unit 6
7 Millennium Court
Silverwater NSW **Date Received:** 25/11/2021
Date of Analysis: 25/11/2021

Cust Ref: 21.1508

Glossary:

- *NATA accreditation does not cover the performance of this service
- ND-not detected,
- NT-not tested
- INS-Insufficient material to perform the test
- LCS-Laboratory Control Sample
- RPD-Relative Percent Difference
- N/A-Not Applicable
- < less than
- > greater than
- PQL- Practical Quantitation Limit
- ^Analytical result might be compromised due to sample condition or holding time requirements
- Reaction rate 1 = Slight
- Reaction rate 2 = Moderate
- Reaction rate 3 = High
- Reaction rate 4 = Vigorous

Quality Control Report

Sample ID: S202103876101

Sample Name WAC1.TP24_1.0

Parameter	Units	PQL	
ESA-P-ORG-07 & 08			
Benzene	%		118
Toluene	%		114
Ethylbenzene	%		118
m,p Xylene	%		118
o Xylene	%		116
Fluorobenzene (Surr.)	%		103

Sample ID: D202103876201 D202103877101

Sample Name WAC1.TP25_0.3 WAC4-BR2

Parameter	Units	PQL		
ESA-P-ORG7 & ORG8				
Benzene			Pass	Pass
Toluene			Pass	Pass
Ethylbenzene			Pass	Pass
m,p Xylene			Pass	Pass
o Xylene			Pass	Pass
Fluorobenzene (Surr.)	%		108	115

Sample ID: Q2021009879

Sample Name

Parameter	Units	PQL	BTEX Blank Sp-Soil
ESA-P-ORG7 & ORG8			
Benzene	%		119
Toluene	%		120
Ethylbenzene	%		128
m,p Xylene	%		130
o Xylene	%		127
Fluorobenzene (Surr.)	%		106

Sample ID: Q2021009878

Sample Name

Parameter	Units	PQL	BTEX Blank - Soil
ESA-P-ORG7 & ORG8			
Benzene	mg/kg	0.5	<0.50
Toluene	mg/kg	0.5	<0.50
Ethylbenzene	mg/kg	1	<1.0
m,p Xylene	mg/kg	2	<2.0
o Xylene	mg/kg	1	<1.0



Sydney Laboratory Services

A division of A. D. Envirotech Australia Pty Ltd
 Unit 4/10-11 Millennium Court,
 Silverwater 2128
 Ph: (02) 9648-6669

A.B.N. 52 093 452 950

Analysis report: 21.1508
Laboratory LOT NO: 2105779

Date Received: 24.11.2021
Date Analysed: 26.11.2021
Report Date: 26.11.2021
Client: ADE Consulting Group
Job Location: DSI westmead
Analytical method: AS 4964-2004 "Method for the qualitative identification of asbestos in bulk samples" in conjunction with AD Envirotech's ABI Methods for Polarised Light Microscopy with dispersion staining

Analysis performed by:

Kim Foley
 Approved asbestos identifier

Results Authorised By:

Kim Foley
 Approved Signatory

Accreditation No.14664.



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 The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Tests not covered by NATA are denoted with *.

General Comments:

Sydney Laboratory Services is responsible for all the information in the report, except that provided by the customer. All sampling information included in the report has been provided by the client.

Information provided by the client can affect the validity of the results.

Sample analysed as received.

Samples are stored for minimum period of 1 month if longer time is not advised by client.



Accreditation No.14664.

Accredited for compliance with ISO/IEC 17025 - Testing.

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Tests not covered by NATA are denoted with *.

Client Sample ID.	Laboratory Sample No.	Sample Description/Matrix	Sample Dimensions (cm) unless stated otherwise	Result	Comments
WAC1.TP2_0.9	2021038735	Soil	107 grams	No Chrysotile asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Amosite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Crocidolite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
WAC1.TP12_0.3	2021038736	Soil	111 grams	No Chrysotile asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Amosite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Crocidolite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
WAC1.TP12_0.5	2021038737	Soil	105 grams	No Chrysotile asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Amosite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Crocidolite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
WAC1.TP13_0.3	2021038738	Soil	101 grams	No Chrysotile asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Amosite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Crocidolite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
WAC1.TP13_1.0	2021038739	Soil	97 grams	No Chrysotile asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Amosite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Crocidolite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
WAC1.TP14_0.3	2021038740	Soil	96 grams	No Chrysotile asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Amosite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Crocidolite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
WAC1.TP14_0.7	2021038741	Soil	112 grams	No Chrysotile asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Amosite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Crocidolite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil

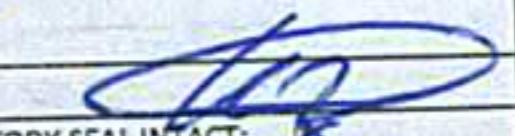
Client Sample ID.	Laboratory Sample No.	Sample Description/Matrix	Sample Dimensions (cm) unless stated otherwise	Result	Comments
WAC1.TP15_0.3	2021038742	Soil	132 grams	No Chrysotile asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Amosite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Crocidolite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
WAC1.TP15_0.7	2021038743	Soil	98 grams	No Chrysotile asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Amosite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Crocidolite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
WAC1.TP16_0.2	2021038744	Soil	88 grams	No Chrysotile asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Amosite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Crocidolite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
WAC1.TP16_0.5	2021038745	Soil	78 grams	No Chrysotile asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Amosite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Crocidolite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
WAC1.TP17_0.3	2021038746	Soil	103 grams	No Chrysotile asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Amosite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Crocidolite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
WAC1.TP17_0.6	2021038747	Soil	99 grams	No Chrysotile asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Amosite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Crocidolite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
WAC1.TP18_0.2	2021038748	Soil	96 grams	No Chrysotile asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Amosite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Crocidolite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil

Client Sample ID.	Laboratory Sample No.	Sample Description/Matrix	Sample Dimensions (cm) unless stated otherwise	Result	Comments
WAC1.TP18_0.8	2021038749	Soil	90 grams	No Chrysotile asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Amosite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Crocidolite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
WAC1.TP19_0.2	2021038750	Soil	72 grams	No Chrysotile asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Amosite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Crocidolite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
WAC1.TP19_0.4	2021038751	Soil	103 grams	No Chrysotile asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Amosite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Crocidolite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
WAC1.TP20_0.3	2021038752	Soil	118 grams	No Chrysotile asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Amosite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Crocidolite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
WAC1.TP20_0.5	2021038753	Soil	94 grams	No Chrysotile asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Amosite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Crocidolite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
WAC1.TP21_0.3	2021038754	Soil	114 grams	No Chrysotile asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Amosite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Crocidolite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
WAC1.TP21_0.5	2021038755	Soil	74 grams	No Chrysotile asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Amosite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Crocidolite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil

Client Sample ID.	Laboratory Sample No.	Sample Description/Matrix	Sample Dimensions (cm) unless stated otherwise	Result	Comments
WAC1.TP22_0.3	2021038756	Soil	76 grams	No Chrysotile asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Amosite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Crocidolite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
WAC1.TP22_0.5	2021038757	Soil	94 grams	No Chrysotile asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Amosite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Crocidolite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
WAC1.TP23_0.3	2021038758	Soil	88 grams	No Chrysotile asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Amosite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Crocidolite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
WAC1.TP23_0.6	2021038759	Soil	112 grams	No Chrysotile asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Amosite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Crocidolite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
WAC1.TP24_0.5	2021038760	Soil	91 grams	Chrysotile asbestos found	Chrysotile occurs in a fibre cement fragment (2.1 x 1.3 x 0.4, 2.45g) at 4.03g/kg which is above the detection limit of 0.1g/kg.
				No Amosite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Crocidolite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
WAC1.TP24_1.0	2021038761	Soil	113 grams	No Chrysotile asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Amosite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Crocidolite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
WAC1.TP25_0.3	2021038762	Soil	115 grams	No Chrysotile asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Amosite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Crocidolite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil

Client Sample ID.	Laboratory Sample No.	Sample Description/Matrix	Sample Dimensions (cm) unless stated otherwise	Result	Comments
WAC1.TP25_0.7	2021038763	Soil	103 grams	No Chrysotile asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Amosite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Crocidolite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
WAC1.TP5_0.7	2021038764	Soil	103 grams	No Chrysotile asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Amosite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Crocidolite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
WAC1.TP3_FC3_0.1	2021038795	Fibre Cement	5.1 x 3.8 x 0.6	Chrysotile asbestos found	Nil
				No Amosite asbestos found	Nil
				No Crocidolite asbestos found	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
WAC1.TP21_FC4_0.1	2021038796	Fibre Cement	8.6 x 5.1 x 0.6	Chrysotile asbestos found	Nil
				No Amosite asbestos found	Nil
				No Crocidolite asbestos found	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
WAC1.TP23_FC5_0.1	2021038797	Fibre Cement	7.4 x 4.0 x 0.5	Chrysotile asbestos found	Nil
				No Amosite asbestos found	Nil
				No Crocidolite asbestos found	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil

*48

ESA-F-02 COC - Chain Of Custody (Internal: Sydney Laboratory Services)																																																																																																																																																																																																																																																																								
Document Revision Date: 27.03.2020																																																																																																																																																																																																																																																																								
PROJECT:		Delta Group Pty Ltd			LABORATORY REFERENCE NO. (Lab use ONLY):			21-1508																																																																																																																																																																																																																																																																
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SAMPLES DELIVERED BY:		ADE Consulting Group 6/7 Millennium Ct, Silverwater NSW 2128			RECEIVED BY: 15			SIGNATURE: 																																																																																																																																																																																																																																																																
SAMPLERS:		Mathew Lynch			SAMPLES: 11 CHILLED: <input checked="" type="checkbox"/> PRESERVED: <input checked="" type="checkbox"/> PRESERVATION METHOD: <input checked="" type="checkbox"/>			MINIMAL HEADSPACE: <input checked="" type="checkbox"/> WITHIN HOLDING TIME: <input checked="" type="checkbox"/>			CUSTODY SEAL INTACT: <input checked="" type="checkbox"/>																																																																																																																																																																																																																																																													
TURNAROUND:		24h: X 48h: 72h: 5 WORKING DAYS:			DATE: 17.11.2021			TIME: 2:46			TEMPERATURE UPON RECEIPT: °C																																																																																																																																																																																																																																																													
SAMPLING DATE:		17.11.2021			LIMS LOT NO. 2105963			LIMS/EXCEL SIGNATURE: 			COMMENTS:																																																																																																																																																																																																																																																													
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Comments:

Container Type and Preservative: P = Unpreserved Plastic; PN = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; PNA = Sodium Hydroxide Preserved Plastic; PC = HCl preserved Plastic; VC = Vial HCl Preserved; SP = Sulfuric Preserved Plastic; VB = Vial Sodium Bisulfate Preserved; VS = Vial Sulfuric Preserved; V = Unpreserved Vial; G = Amber Glass Unpreserved; SG = Sulfuric Preserved Amber Glass; F = Formaldehyde Preserved Glass; HS = HCl preserved Speciation bottle; Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottle; ST = Sterile Bottle; J = Unpreserved Glass Jar; A3S = Plastic Bag for Acid Sulfate Soils; B = Unpreserved Bag.

Page 1 of 1

Sydney Laboratory Services

A division of A. D. Envirotech Australia Pty Ltd
A.C.N. 093 452 950
Unit 4/10-11 Millennium Court,
Silverwater 2128
Ph: (02) 9648-6669



Accreditation No.14664

Accredited for compliance with ISO/IEC 17025 - Testing.

SAMPLE RECEIPT NOTIFICATION (SRN)

Contact: Thesan. Naidoo
Project name: 21.1508
Number of samples: 11
COC number: 21.1508
Turn around time: 1 Day
Date: 01.12.2021
Time received: 25:46 pm
SLS Reference: 2105963
Estimated Report Delivery Date: 02.12.2021

Sample information

- All samples have been received and logged into LIMS.
 No mistakes in the COC
N/A Evidence of chilling for Samples
N/A Samples were preserved
N/A Custody seal intact
 Samples were delivered within holding time
N/A Samples to be tested for volatiles had zero headspace
 All samples were received in good condition (no broken jars, labelled correctly...).
 Samples have been subcontracted

Comments**This report contains:**

Sample receipt non-conformities
Summary of samples and requested analysis
Requested report deliverables

Asbestos Samples are reported as per the State EPA guidelines

Contact details

If you have any questions with respect to these samples please contact:

sls@ade.group

Krista Johnston

SAMPLE RECEIPT NOTIFICATION (SRN)

Laboratory Sample ID	Client Sample ID	TCLP PAH B(a)P PQL<0.2 ug/L	TCLP PAH B(a)P PQL<5.0 ug/L	TCLP Metals	TCLP PFAS
2021039752	WAC1.TP12_0.3		X		
2021039753	WAC1.TP13_0.3		X		
2021039754	WAC1.TP15_0.3		X		
2021039755	WAC1.TP16_0.2		X		
2021039756	WAC1.TP17_0.3		X		
2021039757	WAC1.TP19_0.2		X		
2021039758	WAC1.TP20_0.3		X		
2021039759	WAC1.TP21_0.3		X		
2021039760	WAC1.TP22_0.3		X		
2021039761	WAC1.TP23_0.3		X		
2021039762	WAC1.TP24_0.5		X		

Document Revision Date: 30.06.2020												ESA-F-02 COC - Chain Of Custody (EUROFINS)																																	
PROJECT:		DSI westmead				LABORATORY REFERENCE NO. (Lab use ONLY):				841991																																			
PROJECT NUMBER - INVOICE NUMBER		21.1508																																											
SAMPLES DELIVERED BY:		ADE Consulting Group				RECEIVED BY: <i>MCh</i>				SIGNATURE: <i>Mathew</i>				PRESERVED: <input checked="" type="checkbox"/>				PRESERVATION METHOD:				CUSTODY SEAL INTACT: <input checked="" type="checkbox"/>																							
SAMPLERS:		elisha cassidy				SAMPLES: CHILLED: <input checked="" type="checkbox"/>				MINIMAL HEADSPACE: <input checked="" type="checkbox"/>				WITHIN HOLDING TIME: <input checked="" type="checkbox"/>																															
TURNAROUND:		24h: <input checked="" type="checkbox"/> 48h: <input checked="" type="checkbox"/> 72h: <input checked="" type="checkbox"/> 5 WORKING DAYS:				DATE: 16/11/21				TIME: 10pm				TEMPERATURE UPON RECEIPT: 11.2°C																															
SAMPLING DATE:		15.11.21				LIMS LOT NO.				LIMS/EXCEL SIGNATURE.				COMMENTS:																															
AFTER TEST STORAGE:		ROOM TEMP: <input checked="" type="checkbox"/> FRIDGE: X FREEZER: <input checked="" type="checkbox"/> >4 WEEKS: <input checked="" type="checkbox"/> OTHER: <input checked="" type="checkbox"/>																																											
REPORT FORMAT:		HARD COPY: <input checked="" type="checkbox"/> E-MAIL: X				ANALYSES REQUIRED												NOTES																											
CONSULTANTS SIGNATURE:		CONSULTANT E-MAIL: elisha.cassidy@ade.group; matthew.lynch@ade.group				Chem Lab						Asbestos						Mould				POTENTIAL HAZARDOUS CONTAMINANTS:																							
PROJECT MANAGERS SIGNATURE:		PROJECT MANAGERS E-MAIL: thesan.naidoo@ade.group				6 Metal Suite		8 Metal Suite		BTEX		PAH		OCP/OPP		PCB		VTRH (C6-C10)		TRH (C10-C40)		standard phenols		VOCs/SVOCs		Standard suite		Bulk		Dust		Dust Swab		Soil 65g		Soil 500g NEPM		Airborne Asbestos Monitoring		Mould		<input checked="" type="checkbox"/> ASBESTOS <input type="checkbox"/> HYDROCARBONS <input type="checkbox"/> LEAD/ARSENIC <input type="checkbox"/> NO KNOWN CONTAMINATION <input type="checkbox"/> OTHER: LAB PLEASE *EMAIL COC RECEIPT: <input checked="" type="checkbox"/> Sample Comments			
SAMPLE DATA												CONTAINER DATA																																	
LIMS Sample ID (Lab Use)	Sample ID (ADE)	MATRIX	SAMPLE DATE	TYPE & PRESERVATIVE		NO.																																							
	WAC1.SR1	S	15.11.21	G		1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
	RINSATE1	W	15.11.21	V		2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X									

Comments:

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NATA # 1261 Site # 18217

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Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

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PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

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Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

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Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

Sample Receipt Advice

Company name: ADE Consulting Group Pty Ltd
Contact name: Elisha Cassidy
Project name: DSI WESTMEAD
Project ID: 21.1508
Turnaround time: 5 Day
Date/Time received
Eurofins reference Nov 16, 2021 1:02 PM
841991

Sample Information

- ✓ A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- ✓ Sample Temperature of chilled sample on the batch as recorded by Eurofins Sample Receipt : 11.2 degrees Celsius.
- ✓ All samples have been received as described on the above COC.
- ✓ COC has been completed correctly.
- ✓ Attempt to chill was evident.
- ✓ Appropriately preserved sample containers have been used.
- ✓ All samples were received in good condition.
- ✓ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- ✓ Appropriate sample containers have been used.
- ✓ Sample containers for volatile analysis received with zero headspace.
- ✗ Split sample sent to requested external lab.
- ✗ Some samples have been subcontracted.
- N/A** Custody Seals intact (if used).

Notes

Contact

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

Asim Khan on phone : or by email: AsimKhan@eurofins.com

Results will be delivered electronically via email to Elisha Cassidy - elisha.cassidy@ade.group.

Note: A copy of these results will also be delivered to the general ADE Consulting Group Pty Ltd email address.



Environment Testing

web: www.eurofins.com.au

email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd

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Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

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Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

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Phone : 0800 856 450
IANZ # 1290

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Address:
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Silverwater
NSW 2128

Project Name: DSI WESTMEAD

Project ID: 21.1508

Order No.: 21.1508

Report #: 841991

Phone: 02 9400 7711

Fax: 02 9401 0097

Received:

Nov 16, 2021 1:02 PM

Due: Nov 23, 2021

Priority: 5 Day

Contact Name: Elisha Cassidy

Eurofins Analytical Services Manager : Asim Khan

Sample Detail

Melbourne Laboratory - NATA # 1261 Site # 1254

Sydney Laboratory - NATA # 1261 Site # 18217

Brisbane Laboratory - NATA # 1261 Site # 20794

Mayfield Laboratory - NATA # 1261 Site # 25079

Perth Laboratory - NATA # 2377 Site # 2370

External Laboratory

No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID	Eurofins Suite B15	Moisture Set	Eurofins Suite B7	Eurofins Suite B7 (filtered metals)
1	WAC1.SR1	Nov 15, 2021		Soil	S21-No40846	X	X	X	
2	RINSATE1	Nov 15, 2021		Water	S21-No40847	X			X
Test Counts						2	1	1	1

ADE Consulting Group Pty Ltd
Unit 6/7 Millennium Court
Silverwater
NSW 2128



NATA Accredited
Accreditation Number 1261
Site Number 18217

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

Attention: Elisha Cassidy

Report 841991-S
Project name DSI WESTMEAD
Project ID 21.1508
Received Date Nov 16, 2021

Client Sample ID			G01 WAC1.SR1
Sample Matrix			Soil
Eurofins Sample No.			S21-No40846
Date Sampled			Nov 15, 2021
Test/Reference	LOR	Unit	
Total Recoverable Hydrocarbons			
TRH C6-C9	20	mg/kg	< 20
TRH C10-C14	20	mg/kg	< 20
TRH C15-C28	50	mg/kg	< 50
TRH C29-C36	50	mg/kg	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50
Naphthalene ^{N02}	0.5	mg/kg	< 0.5
TRH C6-C10	20	mg/kg	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20
TRH >C10-C16	50	mg/kg	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50
TRH >C16-C34	100	mg/kg	< 100
TRH >C34-C40	100	mg/kg	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100
BTEX			
Benzene	0.1	mg/kg	< 0.1
Toluene	0.1	mg/kg	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2
o-Xylene	0.1	mg/kg	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3
4-Bromofluorobenzene (surr.)	1	%	126
Polycyclic Aromatic Hydrocarbons			
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2
Acenaphthene	0.5	mg/kg	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5
Anthracene	0.5	mg/kg	< 0.5
Benz(a)anthracene	0.5	mg/kg	0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5
Chrysene	0.5	mg/kg	0.6
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5

Client Sample ID			G01 WAC1.SR1
Sample Matrix			Soil
Eurofins Sample No.			S21-No40846
Date Sampled			Nov 15, 2021
Test/Reference	LOR	Unit	
Polycyclic Aromatic Hydrocarbons			
Fluoranthene	0.5	mg/kg	0.6
Fluorene	0.5	mg/kg	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5
Naphthalene	0.5	mg/kg	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5
Pyrene	0.5	mg/kg	0.6
Total PAH*	0.5	mg/kg	2.3
2-Fluorobiphenyl (surr.)	1	%	94
p-Terphenyl-d14 (surr.)	1	%	89
Organochlorine Pesticides			
Chlordanes - Total	0.1	mg/kg	< 1
4,4'-DDD	0.05	mg/kg	< 0.5
4,4'-DDE	0.05	mg/kg	< 0.5
4,4'-DDT	0.05	mg/kg	< 0.5
a-HCH	0.05	mg/kg	< 0.5
Aldrin	0.05	mg/kg	< 0.5
b-HCH	0.05	mg/kg	< 0.5
d-HCH	0.05	mg/kg	< 0.5
Dieldrin	0.05	mg/kg	< 0.5
Endosulfan I	0.05	mg/kg	< 0.5
Endosulfan II	0.05	mg/kg	< 0.5
Endosulfan sulphate	0.05	mg/kg	< 0.5
Endrin	0.05	mg/kg	< 0.5
Endrin aldehyde	0.05	mg/kg	< 0.5
Endrin ketone	0.05	mg/kg	< 0.5
g-HCH (Lindane)	0.05	mg/kg	< 0.5
Heptachlor	0.05	mg/kg	< 0.5
Heptachlor epoxide	0.05	mg/kg	< 0.5
Hexachlorobenzene	0.05	mg/kg	< 0.5
Methoxychlor	0.05	mg/kg	< 0.5
Toxaphene	0.5	mg/kg	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.5
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.5
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 1
Dibutylchlorendate (surr.)	1	%	INT
Tetrachloro-m-xylene (surr.)	1	%	70
Organophosphorus Pesticides			
Azinphos-methyl	0.2	mg/kg	< 0.5
Bolstar	0.2	mg/kg	< 0.5
Chlорfenvinphos	0.2	mg/kg	< 0.5
Chlorpyrifos	0.2	mg/kg	< 0.5
Chlorpyrifos-methyl	0.2	mg/kg	< 0.5
Coumaphos	2	mg/kg	< 5
Demeton-S	0.2	mg/kg	< 0.5
Demeton-O	0.2	mg/kg	< 0.5
Diazinon	0.2	mg/kg	< 0.5
Dichlorvos	0.2	mg/kg	< 0.5
Dimethoate	0.2	mg/kg	< 0.5

Client Sample ID			G01 WAC1.SR1
Sample Matrix			Soil
Eurofins Sample No.			S21-No40846
Date Sampled			Nov 15, 2021
Test/Reference	LOR	Unit	
Organophosphorus Pesticides			
Disulfoton	0.2	mg/kg	< 0.5
EPN	0.2	mg/kg	< 0.5
Ethion	0.2	mg/kg	< 0.5
Ethoprop	0.2	mg/kg	< 0.5
Ethyl parathion	0.2	mg/kg	< 0.5
Fenitrothion	0.2	mg/kg	< 0.5
Fensulfothion	0.2	mg/kg	< 0.5
Fenthion	0.2	mg/kg	< 0.5
Malathion	0.2	mg/kg	< 0.5
Merphos	0.2	mg/kg	< 0.5
Methyl parathion	0.2	mg/kg	< 0.5
Mevinphos	0.2	mg/kg	< 0.5
Monocrotophos	2	mg/kg	< 5
Naled	0.2	mg/kg	< 0.5
Omethoate	2	mg/kg	< 5
Phorate	0.2	mg/kg	< 0.5
Pirimiphos-methyl	0.2	mg/kg	< 0.5
Pyrazophos	0.2	mg/kg	< 0.5
Ronnel	0.2	mg/kg	< 0.5
Terbufos	0.2	mg/kg	< 0.5
Tetrachlorvinphos	0.2	mg/kg	< 0.5
Tokuthion	0.2	mg/kg	< 0.5
Trichloronate	0.2	mg/kg	< 0.5
Triphenylphosphate (surr.)	1	%	51
Polychlorinated Biphenyls			
Aroclor-1016	0.1	mg/kg	< 1
Aroclor-1221	0.1	mg/kg	< 1
Aroclor-1232	0.1	mg/kg	< 1
Aroclor-1242	0.1	mg/kg	< 1
Aroclor-1248	0.1	mg/kg	< 1
Aroclor-1254	0.1	mg/kg	< 1
Aroclor-1260	0.1	mg/kg	< 1
Total PCB*	0.1	mg/kg	< 1
Dibutylchlorendate (surr.)	1	%	INT
Tetrachloro-m-xylene (surr.)	1	%	70
Heavy Metals			
Arsenic	2	mg/kg	< 2
Cadmium	0.4	mg/kg	< 0.4
Chromium	5	mg/kg	< 5
Copper	5	mg/kg	7.0
Lead	5	mg/kg	15
Mercury	0.1	mg/kg	< 0.1
Nickel	5	mg/kg	< 5
Zinc	5	mg/kg	15
% Moisture	1	%	14

Sample History

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

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

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Sydney	Nov 30, 2021	14 Days
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Sydney	Nov 30, 2021	14 Days
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Sydney	Nov 30, 2021	14 Days
BTEX - Method: LTM-ORG-2010 TRH C6-C40	Sydney	Nov 30, 2021	14 Days
Polycyclic Aromatic Hydrocarbons - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water	Sydney	Nov 30, 2021	14 Days
Eurofins Suite B15			
Organochlorine Pesticides - Method: LTM-ORG-2220 OCP & PCB in Soil and Water	Sydney	Nov 30, 2021	14 Days
Organophosphorus Pesticides - Method: LTM-ORG-2220 Organophosphorus Pesticides by GC-MS	Sydney	Nov 30, 2021	14 Days
Polychlorinated Biphenyls - Method: LTM-ORG-2220 OCP & PCB in Soil and Water	Sydney	Nov 30, 2021	28 Days
Metals M8 - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS	Sydney	Nov 30, 2021	28 Days
% Moisture - Method: LTM-GEN-7080 Moisture	Sydney	Nov 18, 2021	14 Days

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

Melbourne	Sydney	Brisbane	Newcastle
6 Monterey Road Dandenong South VIC 3175	Unit F3, Building F 16 Mars Road Lane Cove West NSW 2066	1/21 Smallwood Place Murarrie QLD 4172 Phone : +61 7 3902 4600 NATA # 1261 Site # 20794	4/52 Industrial Drive Mayfield East NSW 2304 PO Box 60 Wickham 2293 Phone : +61 2 4968 8448 NATA # 1261 Site # 25079
Phone : +61 3 8564 5000 NATA # 1261 Site # 1254	NATA # 1261 Site # 18217		

Eurofins ARL Pty Ltd

ABN: 91 05 0159 898

Perth	46-48 Banksia Road Welshpool WA 6106 Phone : +61 8 6253 4444 NATA # 2377 Site # 2370
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Eurofins Environment Testing NZ Limited

NZBN: 9429046024954

Auckland	35 O'Rorke Road Penrose, Auckland 1061 Phone : +64 9 526 45 51 IANZ # 1327
Christchurch	43 Detroit Drive Rolleston, Christchurch 7675

Company Name: ADE Consulting Group Pty Ltd
Address: Unit 6/7 Millennium Court
 Silverwater
 NSW 2128

Project Name: DSI WESTMEAD
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Melbourne Laboratory - NATA # 1261 Site # 1254
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Perth Laboratory - NATA # 2377 Site # 2370
External Laboratory

No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID			
1	WAC1.SR1	Nov 15, 2021		Soil	S21-No40846	X	X	X
2	RINSATE1	Nov 15, 2021		Water	S21-No40847	X		X
Test Counts				2	1	1	1	

Internal Quality Control Review and Glossary

General

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

Holding Times

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

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

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

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

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

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

ug/L: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100mL: Most Probable Number of organisms per 100 millilitres

Terms

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

QC - Acceptance Criteria

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

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

Results <10 times the LOR : No Limit

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

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

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

Surrogate Recoveries: Recoveries must lie between 20-130% Phenols & 50-150% PFASs..

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

QC Data General Comments

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

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-HCH	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-HCH	mg/kg	< 0.05			0.05	Pass	
d-HCH	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-HCH (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.05			0.05	Pass	
Toxaphene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organophosphorus Pesticides							
Azinphos-methyl	mg/kg	< 0.2			0.2	Pass	
Bolstar	mg/kg	< 0.2			0.2	Pass	
Chlorfenvinphos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos-methyl	mg/kg	< 0.2			0.2	Pass	
Coumaphos	mg/kg	< 2			2	Pass	
Demeton-S	mg/kg	< 0.2			0.2	Pass	
Demeton-O	mg/kg	< 0.2			0.2	Pass	
Diazinon	mg/kg	< 0.2			0.2	Pass	
Dichlorvos	mg/kg	< 0.2			0.2	Pass	
Dimethoate	mg/kg	< 0.2			0.2	Pass	
Disulfoton	mg/kg	< 0.2			0.2	Pass	
EPN	mg/kg	< 0.2			0.2	Pass	
Ethion	mg/kg	< 0.2			0.2	Pass	
Ethoprop	mg/kg	< 0.2			0.2	Pass	
Ethyl parathion	mg/kg	< 0.2			0.2	Pass	
Fenitrothion	mg/kg	< 0.2			0.2	Pass	
Fensulfothion	mg/kg	< 0.2			0.2	Pass	
Fenthion	mg/kg	< 0.2			0.2	Pass	
Malathion	mg/kg	< 0.2			0.2	Pass	
Merphos	mg/kg	< 0.2			0.2	Pass	
Methyl parathion	mg/kg	< 0.2			0.2	Pass	
Mevinphos	mg/kg	< 0.2			0.2	Pass	
Monocrotophos	mg/kg	< 2			2	Pass	
Naled	mg/kg	< 0.2			0.2	Pass	
Omethoate	mg/kg	< 2			2	Pass	
Phorate	mg/kg	< 0.2			0.2	Pass	
Pirimiphos-methyl	mg/kg	< 0.2			0.2	Pass	
Pyrazophos	mg/kg	< 0.2			0.2	Pass	
Ronnel	mg/kg	< 0.2			0.2	Pass	
Terbufos	mg/kg	< 0.2			0.2	Pass	
Tetrachlorvinphos	mg/kg	< 0.2			0.2	Pass	
Tokuthion	mg/kg	< 0.2			0.2	Pass	
Trichloronate	mg/kg	< 0.2			0.2	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/kg	< 0.1			0.1	Pass	
Aroclor-1221	mg/kg	< 0.1			0.1	Pass	
Aroclor-1232	mg/kg	< 0.1			0.1	Pass	
Aroclor-1242	mg/kg	< 0.1			0.1	Pass	
Aroclor-1248	mg/kg	< 0.1			0.1	Pass	
Aroclor-1254	mg/kg	< 0.1			0.1	Pass	
Aroclor-1260	mg/kg	< 0.1			0.1	Pass	
Total PCB*	mg/kg	< 0.1			0.1	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	94			70-130	Pass	
TRH C10-C14	%	123			70-130	Pass	
Naphthalene	%	94			70-130	Pass	
TRH C6-C10	%	89			70-130	Pass	
TRH >C10-C16	%	114			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	104			70-130	Pass	
Toluene	%	93			70-130	Pass	
Ethylbenzene	%	98			70-130	Pass	
m&p-Xylenes	%	101			70-130	Pass	
o-Xylene	%	101			70-130	Pass	
Xylenes - Total*	%	101			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	112			70-130	Pass	
Acenaphthylene	%	113			70-130	Pass	
Anthracene	%	120			70-130	Pass	
Benz(a)anthracene	%	115			70-130	Pass	
Benzo(a)pyrene	%	114			70-130	Pass	
Benzo(b&j)fluoranthene	%	107			70-130	Pass	
Benzo(g.h.i)perylene	%	104			70-130	Pass	
Benzo(k)fluoranthene	%	115			70-130	Pass	
Chrysene	%	111			70-130	Pass	
Dibenz(a.h)anthracene	%	113			70-130	Pass	
Fluoranthene	%	121			70-130	Pass	
Fluorene	%	118			70-130	Pass	
Indeno(1,2,3-cd)pyrene	%	117			70-130	Pass	
Naphthalene	%	115			70-130	Pass	
Phenanthrene	%	112			70-130	Pass	
Pyrene	%	119			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	121			70-130	Pass	
4,4'-DDD	%	118			70-130	Pass	
4,4'-DDE	%	119			70-130	Pass	
4,4'-DDT	%	128			70-130	Pass	
a-HCH	%	124			70-130	Pass	
Aldrin	%	115			70-130	Pass	
b-HCH	%	126			70-130	Pass	
d-HCH	%	114			70-130	Pass	
Dieldrin	%	120			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code		
Endosulfan I	%	110			70-130	Pass			
Endosulfan II	%	109			70-130	Pass			
Endosulfan sulphate	%	120			70-130	Pass			
Endrin	%	112			70-130	Pass			
Endrin aldehyde	%	111			70-130	Pass			
Endrin ketone	%	126			70-130	Pass			
g-HCH (Lindane)	%	119			70-130	Pass			
Heptachlor	%	130			70-130	Pass			
Heptachlor epoxide	%	115			70-130	Pass			
Hexachlorobenzene	%	119			70-130	Pass			
Methoxychlor	%	120			70-130	Pass			
LCS - % Recovery									
Organophosphorus Pesticides									
Diazinon	%	113			70-130	Pass			
Dimethoate	%	109			70-130	Pass			
Fenitrothion	%	121			70-130	Pass			
LCS - % Recovery									
Polychlorinated Biphenyls									
Aroclor-1016	%	84			70-130	Pass			
Aroclor-1260	%	88			70-130	Pass			
LCS - % Recovery									
Heavy Metals									
Arsenic	%	93			80-120	Pass			
Cadmium	%	91			80-120	Pass			
Chromium	%	96			80-120	Pass			
Copper	%	95			80-120	Pass			
Lead	%	93			80-120	Pass			
Mercury	%	99			80-120	Pass			
Nickel	%	96			80-120	Pass			
Zinc	%	95			80-120	Pass			
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C10-C14	S21-No61542	NCP	%	94			70-130	Pass	
TRH >C10-C16	S21-No61542	NCP	%	88			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S21-No66981	NCP	%	106			70-130	Pass	
Acenaphthylene	S21-No66981	NCP	%	110			70-130	Pass	
Anthracene	S21-No66981	NCP	%	110			70-130	Pass	
Benz(a)anthracene	S21-No66981	NCP	%	105			70-130	Pass	
Benzo(a)pyrene	S21-No66981	NCP	%	105			70-130	Pass	
Benzo(b&j)fluoranthene	S21-No66981	NCP	%	99			70-130	Pass	
Benzo(g.h.i)perylene	S21-No66981	NCP	%	90			70-130	Pass	
Benzo(k)fluoranthene	S21-No66981	NCP	%	105			70-130	Pass	
Chrysene	S21-No66981	NCP	%	101			70-130	Pass	
Dibenz(a.h)anthracene	S21-No66981	NCP	%	101			70-130	Pass	
Fluoranthene	S21-No66981	NCP	%	113			70-130	Pass	
Fluorene	S21-No66981	NCP	%	111			70-130	Pass	
Indeno(1,2,3-cd)pyrene	S21-No66981	NCP	%	105			70-130	Pass	
Naphthalene	S21-No66981	NCP	%	112			70-130	Pass	
Phenanthrene	S21-No66981	NCP	%	104			70-130	Pass	
Pyrene	S21-No66981	NCP	%	112			70-130	Pass	
Spike - % Recovery									

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S21-No66981	NCP	%	116			70-130	Pass	
4,4'-DDD	S21-No66981	NCP	%	112			70-130	Pass	
4,4'-DDE	S21-No66981	NCP	%	119			70-130	Pass	
a-HCH	S21-No66981	NCP	%	122			70-130	Pass	
Aldrin	S21-No66981	NCP	%	110			70-130	Pass	
b-HCH	S21-No66981	NCP	%	122			70-130	Pass	
d-HCH	S21-No66981	NCP	%	114			70-130	Pass	
Dieldrin	S21-No66981	NCP	%	118			70-130	Pass	
Endosulfan I	S21-No66981	NCP	%	107			70-130	Pass	
Endosulfan II	S21-No66981	NCP	%	108			70-130	Pass	
Endosulfan sulphate	S21-No66981	NCP	%	117			70-130	Pass	
Endrin aldehyde	S21-No66981	NCP	%	90			70-130	Pass	
Endrin ketone	S21-No66981	NCP	%	123			70-130	Pass	
g-HCH (Lindane)	S21-No66981	NCP	%	128			70-130	Pass	
Heptachlor epoxide	S21-No66981	NCP	%	114			70-130	Pass	
Hexachlorobenzene	S21-No66981	NCP	%	119			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls				Result 1					
Aroclor-1016	S21-No66981	NCP	%	82			70-130	Pass	
Aroclor-1260	S21-No66981	NCP	%	84			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S21-No67039	NCP	%	92			75-125	Pass	
Cadmium	S21-No67039	NCP	%	86			75-125	Pass	
Chromium	S21-No67039	NCP	%	90			75-125	Pass	
Copper	S21-No67039	NCP	%	85			75-125	Pass	
Lead	S21-No67039	NCP	%	89			75-125	Pass	
Mercury	S21-No67039	NCP	%	87			75-125	Pass	
Nickel	S21-No67039	NCP	%	88			75-125	Pass	
Zinc	S21-No67039	NCP	%	83			75-125	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C10-C14	S21-No63299	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S21-No63299	NCP	mg/kg	52	59	12	30%	Pass	
TRH C29-C36	S21-No63299	NCP	mg/kg	74	86	15	30%	Pass	
TRH >C10-C16	S21-No63299	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S21-No63299	NCP	mg/kg	100	120	14	30%	Pass	
TRH >C34-C40	S21-No63299	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S21-No67107	NCP	mg/kg	3.3	3.9	17	30%	Pass	
Cadmium	S21-No67107	NCP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S21-No67107	NCP	mg/kg	14	13	3.0	30%	Pass	
Copper	S21-No67107	NCP	mg/kg	10	9.4	7.0	30%	Pass	
Lead	S21-No67107	NCP	mg/kg	39	32	21	30%	Pass	
Mercury	S21-No67107	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S21-No67107	NCP	mg/kg	7.3	6.8	7.0	30%	Pass	
Zinc	S21-No67107	NCP	mg/kg	49	32	40	30%	Fail	Q15
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-No40909	NCP	%	13	14	9.0	30%	Pass	

Comments**Sample Integrity**

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

Qualifier Codes/Comments

Code	Description
G01	The LORs have been raised due to matrix interference
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
Q15	The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.

Authorised by:

Asim Khan	Analytical Services Manager
Andrew Sullivan	Senior Analyst-Organic (NSW)
John Nguyen	Senior Analyst-Metal (NSW)
Roopesh Rangarajan	Senior Analyst-Volatile (NSW)



Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

Measurement uncertainty of test data is available on request or please [click here](#).

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ADE Consulting Group Pty Ltd
Unit 6/7 Millennium Court
Silverwater
NSW 2128



NATA Accredited
Accreditation Number 1261
Site Number 18217

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

Attention: Elisha Cassidy

Report 841991-W
Project name DSI WESTMEAD
Project ID 21.1508
Received Date Nov 16, 2021

Client Sample ID			RINSATE1
Sample Matrix			Water
Eurofins Sample No.			S21-No40847
Date Sampled			Nov 15, 2021
Test/Reference	LOR	Unit	
Total Recoverable Hydrocarbons			
TRH C6-C9	0.02	mg/L	< 0.02
TRH C10-C14	0.05	mg/L	< 0.05
TRH C15-C28	0.1	mg/L	< 0.1
TRH C29-C36	0.1	mg/L	< 0.1
TRH C10-C36 (Total)	0.1	mg/L	< 0.1
Naphthalene ^{N02}	0.01	mg/L	< 0.01
TRH C6-C10	0.02	mg/L	< 0.02
TRH C6-C10 less BTEX (F1) ^{N04}	0.02	mg/L	< 0.02
TRH >C10-C16	0.05	mg/L	< 0.05
TRH >C10-C16 less Naphthalene (F2) ^{N01}	0.05	mg/L	< 0.05
TRH >C16-C34	0.1	mg/L	< 0.1
TRH >C34-C40	0.1	mg/L	< 0.1
TRH >C10-C40 (total)*	0.1	mg/L	< 0.1
BTEX			
Benzene	0.001	mg/L	< 0.001
Toluene	0.001	mg/L	< 0.001
Ethylbenzene	0.001	mg/L	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002
o-Xylene	0.001	mg/L	< 0.001
Xylenes - Total*	0.003	mg/L	< 0.003
4-Bromofluorobenzene (surr.)	1	%	106
Polycyclic Aromatic Hydrocarbons			
Acenaphthene	0.001	mg/L	< 0.001
Acenaphthylene	0.001	mg/L	< 0.001
Anthracene	0.001	mg/L	< 0.001
Benz(a)anthracene	0.001	mg/L	< 0.001
Benzo(a)pyrene	0.001	mg/L	< 0.001
Benzo(b&j)fluoranthene ^{N07}	0.001	mg/L	< 0.001
Benzo(g.h.i)perylene	0.001	mg/L	< 0.001
Benzo(k)fluoranthene	0.001	mg/L	< 0.001
Chrysene	0.001	mg/L	< 0.001
Dibenz(a,h)anthracene	0.001	mg/L	< 0.001
Fluoranthene	0.001	mg/L	< 0.001
Fluorene	0.001	mg/L	< 0.001
Indeno(1,2,3-cd)pyrene	0.001	mg/L	< 0.001

Client Sample ID			RINSATE1
Sample Matrix			Water
Eurofins Sample No.			S21-No40847
Date Sampled			Nov 15, 2021
Test/Reference	LOR	Unit	
Polycyclic Aromatic Hydrocarbons			
Naphthalene	0.001	mg/L	< 0.001
Phenanthrene	0.001	mg/L	< 0.001
Pyrene	0.001	mg/L	< 0.001
Total PAH*	0.001	mg/L	< 0.001
2-Fluorobiphenyl (surr.)	1	%	66
p-Terphenyl-d14 (surr.)	1	%	121
Organochlorine Pesticides			
Chlordanes - Total	0.002	mg/L	< 0.002
4,4'-DDD	0.0002	mg/L	< 0.0002
4,4'-DDE	0.0002	mg/L	< 0.0002
4,4'-DDT	0.0002	mg/L	< 0.0002
a-HCH	0.0002	mg/L	< 0.0002
Aldrin	0.0002	mg/L	< 0.0002
b-HCH	0.0002	mg/L	< 0.0002
d-HCH	0.0002	mg/L	< 0.0002
Dieldrin	0.0002	mg/L	< 0.0002
Endosulfan I	0.0002	mg/L	< 0.0002
Endosulfan II	0.0002	mg/L	< 0.0002
Endosulfan sulphate	0.0002	mg/L	< 0.0002
Endrin	0.0002	mg/L	< 0.0002
Endrin aldehyde	0.0002	mg/L	< 0.0002
Endrin ketone	0.0002	mg/L	< 0.0002
g-HCH (Lindane)	0.0002	mg/L	< 0.0002
Heptachlor	0.0002	mg/L	< 0.0002
Heptachlor epoxide	0.0002	mg/L	< 0.0002
Hexachlorobenzene	0.0002	mg/L	< 0.0002
Methoxychlor	0.0002	mg/L	< 0.0002
Toxaphene	0.005	mg/L	< 0.005
Aldrin and Dieldrin (Total)*	0.0002	mg/L	< 0.0002
DDT + DDE + DDD (Total)*	0.0002	mg/L	< 0.0002
Vic EPA IWRG 621 OCP (Total)*	0.002	mg/L	< 0.002
Vic EPA IWRG 621 Other OCP (Total)*	0.002	mg/L	< 0.002
Dibutylchlorendate (surr.)	1	%	128
Tetrachloro-m-xylene (surr.)	1	%	92
Organophosphorus Pesticides			
Azinphos-methyl	0.002	mg/L	< 0.002
Bolstar	0.002	mg/L	< 0.002
Chlorfenvinphos	0.02	mg/L	< 0.02
Chlorpyrifos	0.002	mg/L	< 0.002
Chlorpyrifos-methyl	0.002	mg/L	< 0.002
Coumaphos	0.02	mg/L	< 0.02
Demeton-S	0.002	mg/L	< 0.002
Demeton-O	0.002	mg/L	< 0.002
Diazinon	0.002	mg/L	< 0.002
Dichlorvos	0.002	mg/L	< 0.002
Dimethoate	0.002	mg/L	< 0.002
Disulfoton	0.002	mg/L	< 0.002
EPN	0.002	mg/L	< 0.002
Ethion	0.002	mg/L	< 0.002

Client Sample ID			RINSATE1
Sample Matrix			Water
Eurofins Sample No.			S21-No40847
Date Sampled			Nov 15, 2021
Test/Reference	LOR	Unit	
Organophosphorus Pesticides			
Ethoprop	0.002	mg/L	< 0.002
Ethyl parathion	0.002	mg/L	< 0.002
Fenitrothion	0.002	mg/L	< 0.002
Fensulfothion	0.002	mg/L	< 0.002
Fenthion	0.002	mg/L	< 0.002
Malathion	0.002	mg/L	< 0.002
Morphos	0.002	mg/L	< 0.002
Methyl parathion	0.002	mg/L	< 0.002
Mevinphos	0.002	mg/L	< 0.002
Monocrotophos	0.002	mg/L	< 0.002
Naled	0.002	mg/L	< 0.002
Omethoate	0.02	mg/L	< 0.02
Phorate	0.002	mg/L	< 0.002
Pirimiphos-methyl	0.02	mg/L	< 0.02
Pyrazophos	0.002	mg/L	< 0.002
Ronnel	0.002	mg/L	< 0.002
Terbufos	0.002	mg/L	< 0.002
Tetrachlorvinphos	0.002	mg/L	< 0.002
Tokuthion	0.002	mg/L	< 0.002
Trichloronate	0.002	mg/L	< 0.002
Triphenylphosphate (surr.)	1	%	126
Polychlorinated Biphenyls			
Aroclor-1016	0.005	mg/L	< 0.005
Aroclor-1221	0.005	mg/L	< 0.005
Aroclor-1232	0.005	mg/L	< 0.005
Aroclor-1242	0.005	mg/L	< 0.005
Aroclor-1248	0.005	mg/L	< 0.005
Aroclor-1254	0.005	mg/L	< 0.005
Aroclor-1260	0.005	mg/L	< 0.005
Total PCB*	0.005	mg/L	< 0.005
Dibutylchlorendate (surr.)	1	%	128
Tetrachloro-m-xylene (surr.)	1	%	92
Heavy Metals			
Arsenic (filtered)	0.001	mg/L	< 0.001
Cadmium (filtered)	0.0002	mg/L	< 0.0002
Chromium (filtered)	0.001	mg/L	< 0.001
Copper (filtered)	0.001	mg/L	< 0.001
Lead (filtered)	0.001	mg/L	< 0.001
Mercury (filtered)	0.0001	mg/L	< 0.0001
Nickel (filtered)	0.001	mg/L	< 0.001
Zinc (filtered)	0.005	mg/L	< 0.005

Sample History

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

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

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Sydney	Nov 26, 2021	7 Days
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Sydney	Nov 18, 2021	7 Days
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Sydney	Nov 26, 2021	7 Days
BTEX - Method: LTM-ORG-2010 TRH C6-C40	Sydney	Nov 18, 2021	14 Days
Polycyclic Aromatic Hydrocarbons - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water	Sydney	Nov 26, 2021	7 Days
Metals M8 filtered - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS	Sydney	Nov 23, 2021	28 Days
Eurofins Suite B15			
Organochlorine Pesticides - Method: LTM-ORG-2220 OCP & PCB in Soil and Water	Sydney	Nov 26, 2021	7 Days
Organophosphorus Pesticides - Method: LTM-ORG-2200 Organophosphorus Pesticides by GC-MS	Sydney	Nov 26, 2021	7 Days
Polychlorinated Biphenyls - Method: LTM-ORG-2220 OCP & PCB in Soil and Water	Sydney	Nov 26, 2021	7 Days

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

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6 Monterey Road Dandenong South VIC 3175	Unit F3, Building F 16 Mars Road Lane Cove West NSW 2066	1/21 Smallwood Place Murarrie QLD 4172 Phone : +61 7 3902 4600 NATA # 1261 Site # 20794	4/52 Industrial Drive Mayfield East NSW 2304 PO Box 60 Wickham 2293 Phone : +61 2 4968 8448 NATA # 1261 Site # 25079
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Company Name: ADE Consulting Group Pty Ltd
Address: Unit 6/7 Millennium Court
 Silverwater
 NSW 2128

Project Name: DSI WESTMEAD
Project ID: 21.1508

Order No.: 21.1508
Report #: 841991
Phone: 02 9400 7711
Fax: 02 9401 0097

Received: Nov 16, 2021 1:02 PM
Due: Nov 23, 2021
Priority: 5 Day
Contact Name: Elisha Cassidy

Eurofins Analytical Services Manager : Asim Khan
Sample Detail
Melbourne Laboratory - NATA # 1261 Site # 1254
Sydney Laboratory - NATA # 1261 Site # 18217
Brisbane Laboratory - NATA # 1261 Site # 20794
Mayfield Laboratory - NATA # 1261 Site # 25079
Perth Laboratory - NATA # 2377 Site # 2370
External Laboratory

No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID			
1	WAC1.SR1	Nov 15, 2021		Soil	S21-No40846	X	X	X
2	RINSATE1	Nov 15, 2021		Water	S21-No40847	X		X
Test Counts				2	1	1	1	

Internal Quality Control Review and Glossary

General

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

Holding Times

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

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

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

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

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

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

ug/L: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100mL: Most Probable Number of organisms per 100 millilitres

Terms

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

QC - Acceptance Criteria

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

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

Results <10 times the LOR : No Limit

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

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

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

Surrogate Recoveries: Recoveries must lie between 20-130% Phenols & 50-150% PFASs..

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

QC Data General Comments

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

Quality Control Results

Test	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Method Blank						
Total Recoverable Hydrocarbons						
TRH C6-C9	mg/L	< 0.02		0.02	Pass	
TRH C10-C14	mg/L	< 0.05		0.05	Pass	
TRH C15-C28	mg/L	< 0.1		0.1	Pass	
TRH C29-C36	mg/L	< 0.1		0.1	Pass	
Naphthalene	mg/L	< 0.01		0.01	Pass	
TRH C6-C10	mg/L	< 0.02		0.02	Pass	
TRH >C10-C16	mg/L	< 0.05		0.05	Pass	
TRH >C16-C34	mg/L	< 0.1		0.1	Pass	
TRH >C34-C40	mg/L	< 0.1		0.1	Pass	
Method Blank						
BTEX						
Benzene	mg/L	< 0.001		0.001	Pass	
Toluene	mg/L	< 0.001		0.001	Pass	
Ethylbenzene	mg/L	< 0.001		0.001	Pass	
m&p-Xylenes	mg/L	< 0.002		0.002	Pass	
o-Xylene	mg/L	< 0.001		0.001	Pass	
Xylenes - Total*	mg/L	< 0.003		0.003	Pass	
Method Blank						
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	mg/L	< 0.001		0.001	Pass	
Acenaphthylene	mg/L	< 0.001		0.001	Pass	
Anthracene	mg/L	< 0.001		0.001	Pass	
Benz(a)anthracene	mg/L	< 0.001		0.001	Pass	
Benzo(a)pyrene	mg/L	< 0.001		0.001	Pass	
Benzo(b&j)fluoranthene	mg/L	< 0.001		0.001	Pass	
Benzo(g.h.i)perylene	mg/L	< 0.001		0.001	Pass	
Benzo(k)fluoranthene	mg/L	< 0.001		0.001	Pass	
Chrysene	mg/L	< 0.001		0.001	Pass	
Dibenz(a,h)anthracene	mg/L	< 0.001		0.001	Pass	
Fluoranthene	mg/L	< 0.001		0.001	Pass	
Fluorene	mg/L	< 0.001		0.001	Pass	
Indeno(1,2,3-cd)pyrene	mg/L	< 0.001		0.001	Pass	
Naphthalene	mg/L	< 0.001		0.001	Pass	
Phenanthrene	mg/L	< 0.001		0.001	Pass	
Pyrene	mg/L	< 0.001		0.001	Pass	
Method Blank						
Organochlorine Pesticides						
Chlordanes - Total	mg/L	< 0.002		0.002	Pass	
4,4'-DDD	mg/L	< 0.0002		0.0002	Pass	
4,4'-DDE	mg/L	< 0.0002		0.0002	Pass	
4,4'-DDT	mg/L	< 0.0002		0.0002	Pass	
a-HCH	mg/L	< 0.0002		0.0002	Pass	
Aldrin	mg/L	< 0.0002		0.0002	Pass	
b-HCH	mg/L	< 0.0002		0.0002	Pass	
d-HCH	mg/L	< 0.0002		0.0002	Pass	
Dieldrin	mg/L	< 0.0002		0.0002	Pass	
Endosulfan I	mg/L	< 0.0002		0.0002	Pass	
Endosulfan II	mg/L	< 0.0002		0.0002	Pass	
Endosulfan sulphate	mg/L	< 0.0002		0.0002	Pass	
Endrin	mg/L	< 0.0002		0.0002	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endrin aldehyde	mg/L	< 0.0002			0.0002	Pass	
Endrin ketone	mg/L	< 0.0002			0.0002	Pass	
g-HCH (Lindane)	mg/L	< 0.0002			0.0002	Pass	
Heptachlor	mg/L	< 0.0002			0.0002	Pass	
Heptachlor epoxide	mg/L	< 0.0002			0.0002	Pass	
Hexachlorobenzene	mg/L	< 0.0002			0.0002	Pass	
Methoxychlor	mg/L	< 0.0002			0.0002	Pass	
Toxaphene	mg/L	< 0.005			0.005	Pass	
Method Blank							
Organophosphorus Pesticides							
Azinphos-methyl	mg/L	< 0.002			0.002	Pass	
Bolstar	mg/L	< 0.002			0.002	Pass	
Chlорfenvinphos	mg/L	< 0.02			0.02	Pass	
Chlorpyrifos	mg/L	< 0.002			0.002	Pass	
Chlorpyrifos-methyl	mg/L	< 0.002			0.002	Pass	
Coumaphos	mg/L	< 0.02			0.02	Pass	
Demeton-S	mg/L	< 0.002			0.002	Pass	
Demeton-O	mg/L	< 0.002			0.002	Pass	
Diazinon	mg/L	< 0.002			0.002	Pass	
Dichlorvos	mg/L	< 0.002			0.002	Pass	
Dimethoate	mg/L	< 0.002			0.002	Pass	
Disulfoton	mg/L	< 0.002			0.002	Pass	
EPN	mg/L	< 0.002			0.002	Pass	
Ethion	mg/L	< 0.002			0.002	Pass	
Ethoprop	mg/L	< 0.002			0.002	Pass	
Ethyl parathion	mg/L	< 0.002			0.002	Pass	
Fenitrothion	mg/L	< 0.002			0.002	Pass	
Fensulfothion	mg/L	< 0.002			0.002	Pass	
Fenthion	mg/L	< 0.002			0.002	Pass	
Malathion	mg/L	< 0.002			0.002	Pass	
Merphos	mg/L	< 0.002			0.002	Pass	
Methyl parathion	mg/L	< 0.002			0.002	Pass	
Mevinphos	mg/L	< 0.002			0.002	Pass	
Monocrotophos	mg/L	< 0.002			0.002	Pass	
Naled	mg/L	< 0.002			0.002	Pass	
Omethoate	mg/L	< 0.02			0.02	Pass	
Phorate	mg/L	< 0.002			0.002	Pass	
Pirimiphos-methyl	mg/L	< 0.02			0.02	Pass	
Pyrazophos	mg/L	< 0.002			0.002	Pass	
Ronnel	mg/L	< 0.002			0.002	Pass	
Terbufos	mg/L	< 0.002			0.002	Pass	
Tetrachlorvinphos	mg/L	< 0.002			0.002	Pass	
Tokuthion	mg/L	< 0.002			0.002	Pass	
Trichloronate	mg/L	< 0.002			0.002	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/L	< 0.005			0.005	Pass	
Aroclor-1221	mg/L	< 0.005			0.005	Pass	
Aroclor-1232	mg/L	< 0.005			0.005	Pass	
Aroclor-1242	mg/L	< 0.005			0.005	Pass	
Aroclor-1248	mg/L	< 0.005			0.005	Pass	
Aroclor-1254	mg/L	< 0.005			0.005	Pass	
Aroclor-1260	mg/L	< 0.005			0.005	Pass	
Total PCB*	mg/L	< 0.005			0.005	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Heavy Metals							
Arsenic (filtered)	mg/L	< 0.001			0.001	Pass	
Cadmium (filtered)	mg/L	< 0.0002			0.0002	Pass	
Chromium (filtered)	mg/L	< 0.001			0.001	Pass	
Copper (filtered)	mg/L	< 0.001			0.001	Pass	
Lead (filtered)	mg/L	< 0.001			0.001	Pass	
Mercury (filtered)	mg/L	< 0.0001			0.0001	Pass	
Nickel (filtered)	mg/L	< 0.001			0.001	Pass	
Zinc (filtered)	mg/L	< 0.005			0.005	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	89			70-130	Pass	
TRH C10-C14	%	124			70-130	Pass	
Naphthalene	%	98			70-130	Pass	
TRH C6-C10	%	89			70-130	Pass	
TRH >C10-C16	%	121			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	93			70-130	Pass	
Toluene	%	95			70-130	Pass	
Ethylbenzene	%	93			70-130	Pass	
m&p-Xylenes	%	100			70-130	Pass	
o-Xylene	%	95			70-130	Pass	
Xylenes - Total*	%	98			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	88			70-130	Pass	
Acenaphthylene	%	90			70-130	Pass	
Anthracene	%	100			70-130	Pass	
Benz(a)anthracene	%	101			70-130	Pass	
Benzo(a)pyrene	%	101			70-130	Pass	
Benzo(b&j)fluoranthene	%	116			70-130	Pass	
Benzo(g.h.i)perylene	%	107			70-130	Pass	
Benzo(k)fluoranthene	%	98			70-130	Pass	
Chrysene	%	98			70-130	Pass	
Dibenz(a.h)anthracene	%	108			70-130	Pass	
Fluoranthene	%	103			70-130	Pass	
Fluorene	%	104			70-130	Pass	
Indeno(1,2,3-cd)pyrene	%	109			70-130	Pass	
Naphthalene	%	79			70-130	Pass	
Phenanthrene	%	102			70-130	Pass	
Pyrene	%	104			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	114			70-130	Pass	
4,4'-DDD	%	112			70-130	Pass	
4,4'-DDE	%	116			70-130	Pass	
4,4'-DDT	%	110			70-130	Pass	
a-HCH	%	107			70-130	Pass	
Aldrin	%	114			70-130	Pass	
b-HCH	%	111			70-130	Pass	
d-HCH	%	114			70-130	Pass	
Dieldrin	%	111			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code	
Endosulfan I	%	114			70-130	Pass		
Endosulfan II	%	107			70-130	Pass		
Endosulfan sulphate	%	109			70-130	Pass		
Endrin	%	120			70-130	Pass		
Endrin aldehyde	%	117			70-130	Pass		
Endrin ketone	%	106			70-130	Pass		
g-HCH (Lindane)	%	118			70-130	Pass		
Heptachlor	%	114			70-130	Pass		
Heptachlor epoxide	%	114			70-130	Pass		
Hexachlorobenzene	%	108			70-130	Pass		
Methoxychlor	%	107			70-130	Pass		
LCS - % Recovery								
Organophosphorus Pesticides								
Diazinon	%	118			70-130	Pass		
Dimethoate	%	96			70-130	Pass		
Ethion	%	107			70-130	Pass		
Fenitrothion	%	120			70-130	Pass		
Methyl parathion	%	122			70-130	Pass		
Mevinphos	%	111			70-130	Pass		
LCS - % Recovery								
Polychlorinated Biphenyls								
Aroclor-1016	%	102			70-130	Pass		
Aroclor-1260	%	110			70-130	Pass		
LCS - % Recovery								
Heavy Metals								
Arsenic (filtered)	%	101			80-120	Pass		
Cadmium (filtered)	%	97			80-120	Pass		
Chromium (filtered)	%	98			80-120	Pass		
Copper (filtered)	%	95			80-120	Pass		
Lead (filtered)	%	96			80-120	Pass		
Mercury (filtered)	%	104			80-120	Pass		
Nickel (filtered)	%	94			80-120	Pass		
Zinc (filtered)	%	97			80-120	Pass		
Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery								
Total Recoverable Hydrocarbons				Result 1				
TRH C6-C9	S21-No41275	NCP	%	102			70-130	Pass
TRH C10-C14	S21-No63067	NCP	%	95			70-130	Pass
Naphthalene	S21-No41275	NCP	%	98			70-130	Pass
TRH C6-C10	S21-No41275	NCP	%	103			70-130	Pass
TRH >C10-C16	S21-No63067	NCP	%	91			70-130	Pass
Spike - % Recovery								
BTEX				Result 1				
Benzene	S21-No41275	NCP	%	100			70-130	Pass
Toluene	S21-No41275	NCP	%	104			70-130	Pass
Ethylbenzene	S21-No41275	NCP	%	104			70-130	Pass
m&p-Xylenes	S21-No41275	NCP	%	107			70-130	Pass
o-Xylene	S21-No41275	NCP	%	103			70-130	Pass
Xylenes - Total*	S21-No41275	NCP	%	106			70-130	Pass
Spike - % Recovery								
Polycyclic Aromatic Hydrocarbons				Result 1				
Acenaphthene	S21-No39246	NCP	%	124			70-130	Pass
Acenaphthylene	S21-No39246	NCP	%	125			70-130	Pass
Anthracene	S21-No39246	NCP	%	125			70-130	Pass

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Benz(a)anthracene	S21-No39246	NCP	%	119			70-130	Pass	
Benzo(a)pyrene	S21-No39246	NCP	%	126			70-130	Pass	
Benzo(g.h.i)perylene	S21-No39246	NCP	%	128			70-130	Pass	
Chrysene	S21-No39246	NCP	%	121			70-130	Pass	
Dibenz(a.h)anthracene	S21-No39246	NCP	%	127			70-130	Pass	
Fluoranthene	S21-No39246	NCP	%	123			70-130	Pass	
Naphthalene	S21-No39246	NCP	%	129			70-130	Pass	
Phenanthrene	S21-No39246	NCP	%	125			70-130	Pass	
Pyrene	S21-No39246	NCP	%	124			70-130	Pass	
Spike - % Recovery									
Heavy Metals					Result 1				
Arsenic (filtered)	L21-No50605	NCP	%	107			75-125	Pass	
Cadmium (filtered)	L21-No50605	NCP	%	94			75-125	Pass	
Chromium (filtered)	L21-No50605	NCP	%	92			75-125	Pass	
Copper (filtered)	L21-No50605	NCP	%	87			75-125	Pass	
Lead (filtered)	L21-No50605	NCP	%	87			75-125	Pass	
Mercury (filtered)	L21-No50605	NCP	%	91			75-125	Pass	
Nickel (filtered)	L21-No50605	NCP	%	84			75-125	Pass	
Zinc (filtered)	L21-No50605	NCP	%	92			75-125	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Total Recoverable Hydrocarbons					Result 1	Result 2	RPD		
TRH C6-C9	S21-No59204	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH C10-C14	S21-No63066	NCP	mg/L	0.09	0.06	38	30%	Fail	Q15
TRH C15-C28	S21-No63066	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH C29-C36	S21-No63066	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
Naphthalene	S21-No59204	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
TRH C6-C10	S21-No59204	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH >C10-C16	S21-No63066	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
TRH >C16-C34	S21-No63066	NCP	mg/L	0.1	< 0.1	26	30%	Pass	
TRH >C34-C40	S21-No63066	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
BTEX					Result 1	Result 2	RPD		
Benzene	S21-No59204	NCP	mg/L	0.003	0.003	12	30%	Pass	
Toluene	S21-No59204	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Ethylbenzene	S21-No59204	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
m&p-Xylenes	S21-No59204	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
o-Xylene	S21-No59204	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Xylenes - Total*	S21-No59204	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
Duplicate									
Heavy Metals					Result 1	Result 2	RPD		
Arsenic (filtered)	S21-No58748	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Cadmium (filtered)	S21-No58748	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Chromium (filtered)	S21-No58748	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Copper (filtered)	S21-No58748	NCP	mg/L	0.001	0.001	<1	30%	Pass	
Lead (filtered)	S21-No58748	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Mercury (filtered)	S21-No58748	NCP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Nickel (filtered)	S21-No58748	NCP	mg/L	0.005	0.005	6.0	30%	Pass	
Zinc (filtered)	S21-No58748	NCP	mg/L	0.059	0.062	5.0	30%	Pass	

Comments**Sample Integrity**

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

Qualifier Codes/Comments

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

Authorised by:

Asim Khan	Analytical Services Manager
Andrew Sullivan	Senior Analyst-Organic (NSW)
John Nguyen	Senior Analyst-Metal (NSW)
Roopesh Rangarajan	Senior Analyst-Volatile (NSW)



Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

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

Measurement uncertainty of test data is available on request or please [click here](#).

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Document Revision Date: 30.06.2020

ESA-F-02 COC - Chain Of Custody (EUROFINS)


PROJECT:		DSI westmead		LABORATORY REFERENCE NO. (Lab use ONLY):												
PROJECT NUMBER - INVOICE NUMBER		21.1508														
SAMPLES DELIVERED BY:		ADE Consulting Group		RECEIVED BY:		SIGNATURE:										
		6/7 Millennium Ct, Silverwater NSW 2128														
SAMPLERS:		elisha cassidy		SAMPLES: <input type="checkbox"/>	CHILLED: <input type="checkbox"/>	PRESERVED: <input type="checkbox"/>	PRESERVATION METHOD:	CUSTODY SEAL INTACT: <input type="checkbox"/>								
TURNAROUND:		24h: <input type="checkbox"/> 48h: <input checked="" type="checkbox"/> XX 72h: <input type="checkbox"/> 5 WORKING DAYS: <input type="checkbox"/>		MINIMAL HEADSPACE: <input type="checkbox"/>		WITHIN HOLDING TIME: <input type="checkbox"/>										
SAMPLING DATE:		23.11.21; 24.11.21		DATE:		TIME:		TEMPERATURE UPON RECEIPT: °C								
AFTER TEST STORAGE:		ROOM TEMP: <input type="checkbox"/>	FRIDGE: X FREEZER: <input type="checkbox"/>	>>4 WEEKS: <input type="checkbox"/> OTHER: <input type="checkbox"/>		LIMS LOT NO.	LIMS/EXCEL SIGNATURE:			COMMENTS:						
REPORT FORMAT:		HARD COPY: <input type="checkbox"/> E-MAIL: X		ANALYSES REQUIRED								NOTES				
CONSULTANTS SIGNATURE:		CONSULTANT E-MAIL: elisha.cassidy@ade.group; mathew.lynch@ade.group		Chem Lab						Asbestos		Mould	POTENTIAL HAZARDOUS CONTAMINANTS:			
PROJECT MANAGERS SIGNATURE:		PROJECT MANAGERS E-MAIL: thesan.naidoo@ade.group											<input checked="" type="checkbox"/> ASBESTOS <input type="checkbox"/> HYDROCARBONS <input type="checkbox"/> LEAD/ARSENIC <input type="checkbox"/> NO KNOWN <input type="checkbox"/> OTHER: _____ LAB PLEASE *EMAIL COC RECEIPT: <input type="checkbox"/> Sample Comments			
SAMPLE DATA				CONTAINER DATA		6 Metal Suite 8 Metal Suite BTEX PAH OCP/OPP PCB vTRH (C6-C10) TRH (C10-C40) standard phenols VOCs/SVOCs NEPM Screen/Soil Classification suite: Fe, CEC, pH(CaCl ₂), TOC, Clay Content + pH(1:5) & EC(1:5)] Bulk Dust Dust Swab Soil 65g Soil 500g NEPM Airborne Asbestos Monitoring Mould	# 844049 Page 1 of 1									
LIMS Sample ID (Lab Use)	Sample ID (ADE)	MATRIX	SAMPLE DATE	TYPE & PRESERVATIVE	NO.			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	SR2	S	23.11.21	G	1											
	SR3	S	24.11.21	G	2			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
	TP5_0.3	S	24.11.21	G	3										<input checked="" type="checkbox"/>	
	TP5_0.7	S	24.11.21	G	4										<input checked="" type="checkbox"/>	

Comments:

Container Type and Preservative: P = Unpreserved Plastic; PN = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; PNA = Sodium Hydroxide Preserved Plastic; PC = HCl preserved Plastic; VC = Vial HCl Preserved; SP = Sulfuric Preserved Plastic;
 VB = Vial Sodium Bisulphate Preserved; VS = Vial Sulfuric Preserved; V = Unpreserved Vial; G = Amber Glass Unpreserved; SG = Sulfuric Preserved Amber Glass; F = Formaldehyde Preserved Glass; HS = HCl preserved Speciation bottle; Z = Zinc Acetate Preserved Bottle;
 E = EDTA Preserved Bottle; ST = Sterile Bottle; J = Unpreserved Glass Jar; ASS = Plastic Bag for Acid Sulfate Soils; B = Unpreserved Bag.

Eurofins Environment Testing Australia Pty Ltd

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IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

Sample Receipt Advice

Company name: ADE Consulting Group Pty Ltd
Contact name: Thesan Naidoo
Project name: DSI WESTMEAD
Project ID: 21.1508
Turnaround time: 2 Day
Date/Time received
Eurofins reference Nov 24, 2021 3:53 PM
844049

Sample Information

- ✓ A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- ✓ Sample Temperature of chilled sample on the batch as recorded by Eurofins Sample Receipt : 4.3 degrees Celsius.
- ✓ All samples have been received as described on the above COC.
- ✓ COC has been completed correctly.
- ✓ Attempt to chill was evident.
- ✓ Appropriately preserved sample containers have been used.
- ✓ All samples were received in good condition.
- ✓ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- ✓ Appropriate sample containers have been used.
- ✓ Sample containers for volatile analysis received with zero headspace.
- ✗ Split sample sent to requested external lab.
- ✗ Some samples have been subcontracted.
- N/A** Custody Seals intact (if used).

Notes

Contact

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

Asim Khan on phone : or by email: AsimKhan@eurofins.com

Results will be delivered electronically via email to Thesan Naidoo - Thesan.Naidoo@ade.group.

Note: A copy of these results will also be delivered to the general ADE Consulting Group Pty Ltd email address.



Environment Testing

web: www.eurofins.com.au

email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

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6 Monterey Road Dandenong South VIC 3175	Unit F3, Building F 16 Mars Road Lane Cove West NSW 2066	1/21 Smallwood Place Murarrie QLD 4172	4/52 Industrial Drive Mayfield East NSW 2304
Phone : +61 3 8564 5000 NATA # 1261 Site # 1254	Phone : +61 2 9900 8400 NATA # 1261 Site # 18217	Phone : +61 7 3902 4600 NATA # 1261 Site # 20794	PO Box 60 Wickham 2293 Phone : +61 2 4968 8448 NATA # 1261 Site # 25079

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	Phone : +64 9 526 45 51 IANZ # 1327

Christchurch

43 Detroit Drive Rolleston, Christchurch 7675
Phone : 0800 856 450 IANZ # 1290

Company Name: ADE Consulting Group Pty Ltd

Address: Unit 6/7 Millennium Court
Silverwater
NSW 2128Project Name: DSI WESTMEAD
Project ID: 21.1508

Order No.:

Report #: 844049
Phone: 02 9400 7711
Fax: 02 9401 0097

Received:

Nov 24, 2021 3:53 PM

Due:

Nov 26, 2021

Priority:

2 Day

Contact Name:

Thesan Naidoo

Eurofins Analytical Services Manager : Asim Khan

Sample Detail

Melbourne Laboratory - NATA # 1261 Site # 1254

Sydney Laboratory - NATA # 1261 Site # 18217

Brisbane Laboratory - NATA # 1261 Site # 20794

Mayfield Laboratory - NATA # 1261 Site # 25079

Perth Laboratory - NATA # 2377 Site # 2370

External Laboratory

No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	Eurofins Suite B7A
1	SR2	Nov 23, 2021		Soil	S21-No59702	X	X	X	X
2	SR3	Nov 23, 2021		Soil	S21-No59703	X		X	
3	SR3TP5_0.3	Nov 23, 2021		Soil	S21-No59704			X	
4	SR3TP5_0.7	Nov 23, 2021		Soil	S21-No59705			X	

Test Counts

2 1 4 2 1 1

Environment Testing

ADE Consulting Group Pty Ltd
 Unit 6/7 Millennium Court
 Silverwater
 NSW 2128

Attention: Thesan Naidoo

Report 844049-S
 Project name DSI WESTMEAD
 Project ID 21.1508
 Received Date Nov 24, 2021

Client Sample ID	LOR	Unit	SR2 Soil S21-No59702 Nov 23, 2021	SR3 Soil S21-No59703 Nov 23, 2021	SR3TP5_0.3 Soil S21-No59704 Nov 23, 2021	SR3TP5_0.7 Soil S21-No59705 Nov 23, 2021
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	-	-
TRH C10-C14	20	mg/kg	< 20	< 20	-	-
TRH C15-C28	50	mg/kg	< 50	< 50	-	-
TRH C29-C36	50	mg/kg	< 50	< 50	-	-
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	-	-
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	-	-
TRH C6-C10	20	mg/kg	< 20	< 20	-	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	-	-
TRH >C10-C16	50	mg/kg	< 50	< 50	-	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	-	-
TRH >C16-C34	100	mg/kg	< 100	< 100	-	-
TRH >C34-C40	100	mg/kg	< 100	< 100	-	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	-	-
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	-	-
Toluene	0.1	mg/kg	< 0.1	< 0.1	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	-	-
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	-	-
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	-	-
4-Bromofluorobenzene (surr.)	1	%	107	109	-	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dibromoethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-

Client Sample ID			SR2 Soil S21-No59702 Nov 23, 2021	SR3 Soil S21-No59703 Nov 23, 2021	SR3TP5_0.3 Soil S21-No59704 Nov 23, 2021	SR3TP5_0.7 Soil S21-No59705 Nov 23, 2021
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Volatile Organics						
1,3-Dichloropropane	0.5	mg/kg	< 0.5	-	-	-
1,3,5-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	-
1,4-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
2-Butanone (MEK)	0.5	mg/kg	< 0.5	-	-	-
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	-	-	-
4-Chlorotoluene	0.5	mg/kg	< 0.5	-	-	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	-	-	-
Allyl chloride	0.5	mg/kg	< 0.5	-	-	-
Benzene	0.1	mg/kg	< 0.1	-	-	-
Bromobenzene	0.5	mg/kg	< 0.5	-	-	-
Bromochloromethane	0.5	mg/kg	< 0.5	-	-	-
Bromodichloromethane	0.5	mg/kg	< 0.5	-	-	-
Bromoform	0.5	mg/kg	< 0.5	-	-	-
Bromomethane	0.5	mg/kg	< 0.5	-	-	-
Carbon disulfide	0.5	mg/kg	< 0.5	-	-	-
Carbon Tetrachloride	0.5	mg/kg	< 0.5	-	-	-
Chlorobenzene	0.5	mg/kg	< 0.5	-	-	-
Chloroethane	0.5	mg/kg	< 0.5	-	-	-
Chloroform	0.5	mg/kg	< 0.5	-	-	-
Chloromethane	0.5	mg/kg	< 0.5	-	-	-
cis-1,2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
cis-1,3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	-
Dibromochloromethane	0.5	mg/kg	< 0.5	-	-	-
Dibromomethane	0.5	mg/kg	< 0.5	-	-	-
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	-	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	-
Iodomethane	0.5	mg/kg	< 0.5	-	-	-
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	-	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	-
Methylene Chloride	0.5	mg/kg	< 0.5	-	-	-
o-Xylene	0.1	mg/kg	< 0.1	-	-	-
Styrene	0.5	mg/kg	< 0.5	-	-	-
Tetrachloroethene	0.5	mg/kg	< 0.5	-	-	-
Toluene	0.1	mg/kg	< 0.1	-	-	-
trans-1,2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
trans-1,3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	-
Trichloroethene	0.5	mg/kg	< 0.5	-	-	-
Trichlorofluoromethane	0.5	mg/kg	< 0.5	-	-	-
Vinyl chloride	0.5	mg/kg	< 0.5	-	-	-
Xylenes - Total*	0.3	mg/kg	< 0.3	-	-	-
Total MAH*	0.5	mg/kg	< 0.5	-	-	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	-	-	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	-	-	-
4-Bromofluorobenzene (surr.)	1	%	107	-	-	-
Toluene-d8 (surr.)	1	%	108	-	-	-

Client Sample ID			SR2 Soil S21-No59702	SR3 Soil S21-No59703	SR3TP5_0.3 Soil S21-No59704	SR3TP5_0.7 Soil S21-No59705
Sample Matrix						
Eurofins Sample No.						
Date Sampled			Nov 23, 2021	Nov 23, 2021	Nov 23, 2021	Nov 23, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	0.6	0.6	-	-
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	1.2	1.2	-	-
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	-	-
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	-	-
Anthracene	0.5	mg/kg	< 0.5	< 0.5	-	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	-
Chrysene	0.5	mg/kg	< 0.5	< 0.5	-	-
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	-
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	-
Fluorene	0.5	mg/kg	< 0.5	< 0.5	-	-
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	-
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	-	-
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	-	-
Pyrene	0.5	mg/kg	< 0.5	< 0.5	-	-
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	-	-
2-Fluorobiphenyl (surr.)	1	%	97	110	-	-
p-Terphenyl-d14 (surr.)	1	%	95	111	-	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	-	-
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	-	-
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	-	-
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	-	-
a-HCH	0.05	mg/kg	< 0.05	< 0.05	-	-
Aldrin	0.05	mg/kg	< 0.05	< 0.05	-	-
b-HCH	0.05	mg/kg	< 0.05	< 0.05	-	-
d-HCH	0.05	mg/kg	< 0.05	< 0.05	-	-
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	-	-
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	-	-
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	-	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	-	-
Endrin	0.05	mg/kg	< 0.05	< 0.05	-	-
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	-	-
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	-	-
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	-	-
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	-	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	-	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	-	-
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	-	-
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	-	-
Dibutylchloroendate (surr.)	1	%	88	125	-	-
Tetrachloro-m-xylene (surr.)	1	%	60	72	-	-

Client Sample ID			SR2 Soil S21-No59702	SR3 Soil S21-No59703	SR3TP5_0.3 Soil S21-No59704	SR3TP5_0.7 Soil S21-No59705
Sample Matrix						
Eurofins Sample No.						
Date Sampled			Nov 23, 2021	Nov 23, 2021	Nov 23, 2021	Nov 23, 2021
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	< 0.2	< 0.2	-	-
Bolstar	0.2	mg/kg	< 0.2	< 0.2	-	-
Chlorfenvinphos	0.2	mg/kg	< 0.2	< 0.2	-	-
Chlorpyrifos	0.2	mg/kg	< 0.2	< 0.2	-	-
Chlorpyrifos-methyl	0.2	mg/kg	< 0.2	< 0.2	-	-
Coumaphos	2	mg/kg	< 2	< 2	-	-
Demeton-S	0.2	mg/kg	< 0.2	< 0.2	-	-
Demeton-O	0.2	mg/kg	< 0.2	< 0.2	-	-
Diazinon	0.2	mg/kg	< 0.2	< 0.2	-	-
Dichlorvos	0.2	mg/kg	< 0.2	< 0.2	-	-
Dimethoate	0.2	mg/kg	< 0.2	< 0.2	-	-
Disulfoton	0.2	mg/kg	< 0.2	< 0.2	-	-
EPN	0.2	mg/kg	< 0.2	< 0.2	-	-
Ethion	0.2	mg/kg	< 0.2	< 0.2	-	-
Ethoprop	0.2	mg/kg	< 0.2	< 0.2	-	-
Ethyl parathion	0.2	mg/kg	< 0.2	< 0.2	-	-
Fenitrothion	0.2	mg/kg	< 0.2	< 0.2	-	-
Fensulfothion	0.2	mg/kg	< 0.2	< 0.2	-	-
Fenthion	0.2	mg/kg	< 0.2	< 0.2	-	-
Malathion	0.2	mg/kg	< 0.2	< 0.2	-	-
Morphos	0.2	mg/kg	< 0.2	< 0.2	-	-
Methyl parathion	0.2	mg/kg	< 0.2	< 0.2	-	-
Mevinphos	0.2	mg/kg	< 0.2	< 0.2	-	-
Monocrotophos	2	mg/kg	< 2	< 2	-	-
Naled	0.2	mg/kg	< 0.2	< 0.2	-	-
Omethoate	2	mg/kg	< 2	< 2	-	-
Phorate	0.2	mg/kg	< 0.2	< 0.2	-	-
Pirimiphos-methyl	0.2	mg/kg	< 0.2	< 0.2	-	-
Pyrazophos	0.2	mg/kg	< 0.2	< 0.2	-	-
Ronnel	0.2	mg/kg	< 0.2	< 0.2	-	-
Terbufos	0.2	mg/kg	< 0.2	< 0.2	-	-
Tetrachlorvinphos	0.2	mg/kg	< 0.2	< 0.2	-	-
Tokuthion	0.2	mg/kg	< 0.2	< 0.2	-	-
Trichloronate	0.2	mg/kg	< 0.2	< 0.2	-	-
Triphenylphosphate (surr.)	1	%	88	120	-	-
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	< 0.5	-	-	-
2,4-Dichlorophenol	0.5	mg/kg	< 0.5	-	-	-
2,4,5-Trichlorophenol	1	mg/kg	< 1	-	-	-
2,4,6-Trichlorophenol	1	mg/kg	< 1	-	-	-
2,6-Dichlorophenol	0.5	mg/kg	< 0.5	-	-	-
4-Chloro-3-methylphenol	1	mg/kg	< 1	-	-	-
Pentachlorophenol	1	mg/kg	< 1	-	-	-
Tetrachlorophenols - Total	10	mg/kg	< 10	-	-	-
Total Halogenated Phenol*	1	mg/kg	< 1	-	-	-

Client Sample ID			SR2 Soil S21-No59702	SR3 Soil S21-No59703	SR3TP5_0.3 Soil S21-No59704	SR3TP5_0.7 Soil S21-No59705
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Phenols (non-Halogenated)						
2-Cyclohexyl-4,6-dinitrophenol	20	mg/kg	< 20	-	-	-
2-Methyl-4,6-dinitrophenol	5	mg/kg	< 5	-	-	-
2-Nitrophenol	1	mg/kg	< 1	-	-	-
2,4-Dimethylphenol	0.5	mg/kg	< 0.5	-	-	-
2,4-Dinitrophenol	5	mg/kg	< 5	-	-	-
2-Methylphenol (o-Cresol)	0.2	mg/kg	< 0.2	-	-	-
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	< 0.4	-	-	-
Total cresols*	0.5	mg/kg	< 0.5	-	-	-
4-Nitrophenol	5	mg/kg	< 5	-	-	-
Dinoseb	20	mg/kg	< 20	-	-	-
Phenol	0.5	mg/kg	< 0.5	-	-	-
Phenol-d6 (surr.)	1	%	106	-	-	-
Total Non-Halogenated Phenol*	20	mg/kg	< 20	-	-	-
Heavy Metals						
Arsenic	2	mg/kg	10	9.5	-	-
Cadmium	0.4	mg/kg	2.1	< 0.4	-	-
Chromium	5	mg/kg	21	16	-	-
Copper	5	mg/kg	75	23	-	-
Iron	20	mg/kg	-	-	23000	45000
Lead	5	mg/kg	630	81	-	-
Mercury	0.1	mg/kg	1.1	< 0.1	-	-
Nickel	5	mg/kg	11	8.0	-	-
Zinc	5	mg/kg	880	70	-	-
% Moisture	1	%	20	17	3.5	22
% Clay	1	%	-	-		
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	-	-	52	43
pH (units)(1:5 soil:CaCl ₂ extract at 25°C as rec.)	0.1	pH Units	-	-	7.5	5.8
Total Organic Carbon	0.1	%	-	-		
Heavy Metals						
Iron (%)	0.01	%	-	-	2.3	4.5
Cation Exchange Capacity						
Cation Exchange Capacity	0.05	meq/100g	-	-		

Sample History

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

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

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Sydney	Nov 25, 2021	14 Days
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Sydney	Nov 25, 2021	14 Days
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Sydney	Nov 25, 2021	14 Days
BTEX - Method: LTM-ORG-2010 TRH C6-C40	Sydney	Nov 25, 2021	14 Days
Polycyclic Aromatic Hydrocarbons - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water	Sydney	Nov 25, 2021	14 Days
Phenols (Halogenated) - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water	Sydney	Nov 25, 2021	14 Days
Phenols (non-Halogenated) - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water	Sydney	Nov 25, 2021	14 Days
Metals M8 - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS	Sydney	Nov 25, 2021	28 Days
Volatile Organics - Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices	Sydney	Nov 25, 2021	7 Days
Organochlorine Pesticides - Method: LTM-ORG-2220 OCP & PCB in Soil and Water	Sydney	Nov 25, 2021	14 Days
Organophosphorus Pesticides - Method: LTM-ORG-2200 Organophosphorus Pesticides by GC-MS	Sydney	Nov 25, 2021	14 Days
NEPM Screen for Soil Classification			
Heavy Metals - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS	Sydney	Nov 25, 2021	28 Days
% Clay - Method: LTM-GEN-7040	Brisbane	Nov 25, 2021	14 Days
Conductivity (1:5 aqueous extract at 25°C as rec.) - Method: LTM-INO-4030 Conductivity	Sydney	Nov 25, 2021	7 Days
pH (units)(1:5 soil:CaCl ₂ extract at 25°C as rec.) - Method: LTM-GEN-7090 pH in soil by ISE	Sydney	Nov 26, 2021	7 Days
Total Organic Carbon - Method: LTM-INO-4060 Total Organic Carbon in water and soil	Melbourne	Nov 25, 2021	28 Days
Cation Exchange Capacity - Method: LTM-MET-3060 Cation Exchange Capacity by bases & Exchangeable Sodium Percentage	Melbourne	Nov 25, 2021	28 Days
% Moisture - Method: LTM-GEN-7080 Moisture	Sydney	Nov 25, 2021	14 Days

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Company Name: ADE Consulting Group Pty Ltd**Address:** Unit 6/7 Millennium Court
Silverwater
NSW 2128**Project Name:** DSI WESTMEAD
Project ID: 21.1508**Order No.:**

Report #: 844049
Phone: 02 9400 7711
Fax: 02 9401 0097

Received:

Nov 24, 2021 3:53 PM

Due:

Nov 26, 2021

Priority:

2 Day

Contact Name:

Thesan Naidoo

Eurofins Analytical Services Manager : Asim Khan**Sample Detail****Melbourne Laboratory - NATA # 1261 Site # 1254****Sydney Laboratory - NATA # 1261 Site # 18217****Brisbane Laboratory - NATA # 1261 Site # 20794****Mayfield Laboratory - NATA # 1261 Site # 25079****Perth Laboratory - NATA # 2377 Site # 2370****External Laboratory**

No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	Eurofins Suite B7A
1	SR2	Nov 23, 2021		Soil	S21-No59702	X	X	X	X
2	SR3	Nov 23, 2021		Soil	S21-No59703	X		X	X
3	SR3TP5_0.3	Nov 23, 2021		Soil	S21-No59704			X	X
4	SR3TP5_0.7	Nov 23, 2021		Soil	S21-No59705			X	X
Test Counts						2	1	4	2
								1	1

Internal Quality Control Review and Glossary

General

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

Holding Times

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

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

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

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

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

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

ug/L: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100mL: Most Probable Number of organisms per 100 millilitres

Terms

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

QC - Acceptance Criteria

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

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

Results <10 times the LOR : No Limit

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

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

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

Surrogate Recoveries: Recoveries must lie between 20-130% Phenols & 50-150% PFASs..

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

QC Data General Comments

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

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Volatile Organics							
1.1-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
1.1.1-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.1.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dibromoethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.3-Trichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.4-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.3.5-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.4-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
2-Butanone (MEK)	mg/kg	< 0.5			0.5	Pass	
2-Propanone (Acetone)	mg/kg	< 0.5			0.5	Pass	
4-Chlorotoluene	mg/kg	< 0.5			0.5	Pass	
4-Methyl-2-pentanone (MIBK)	mg/kg	< 0.5			0.5	Pass	
Allyl chloride	mg/kg	< 0.5			0.5	Pass	
Bromobenzene	mg/kg	< 0.5			0.5	Pass	
Bromochloromethane	mg/kg	< 0.5			0.5	Pass	
Bromodichloromethane	mg/kg	< 0.5			0.5	Pass	
Bromoform	mg/kg	< 0.5			0.5	Pass	
Bromomethane	mg/kg	< 0.5			0.5	Pass	
Carbon disulfide	mg/kg	< 0.5			0.5	Pass	
Carbon Tetrachloride	mg/kg	< 0.5			0.5	Pass	
Chlorobenzene	mg/kg	< 0.5			0.5	Pass	
Chloroethane	mg/kg	< 0.5			0.5	Pass	
Chloroform	mg/kg	< 0.5			0.5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Chloromethane	mg/kg	< 0.5			0.5	Pass	
cis-1,2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
cis-1,3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Dibromochloromethane	mg/kg	< 0.5			0.5	Pass	
Dibromomethane	mg/kg	< 0.5			0.5	Pass	
Dichlorodifluoromethane	mg/kg	< 0.5			0.5	Pass	
Iodomethane	mg/kg	< 0.5			0.5	Pass	
Isopropyl benzene (Cumene)	mg/kg	< 0.5			0.5	Pass	
Methylene Chloride	mg/kg	< 0.5			0.5	Pass	
Styrene	mg/kg	< 0.5			0.5	Pass	
Tetrachloroethene	mg/kg	< 0.5			0.5	Pass	
trans-1,2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
trans-1,3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Trichloroethene	mg/kg	< 0.5			0.5	Pass	
Trichlorofluoromethane	mg/kg	< 0.5			0.5	Pass	
Vinyl chloride	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a,h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4,4'-DDD	mg/kg	< 0.05			0.05	Pass	
4,4'-DDE	mg/kg	< 0.05			0.05	Pass	
4,4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-HCH	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-HCH	mg/kg	< 0.05			0.05	Pass	
d-HCH	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-HCH (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.05			0.05	Pass	
Toxaphene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organophosphorus Pesticides							
Azinphos-methyl	mg/kg	< 0.2			0.2	Pass	
Bolstar	mg/kg	< 0.2			0.2	Pass	
Chlorfenvinphos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos-methyl	mg/kg	< 0.2			0.2	Pass	
Coumaphos	mg/kg	< 2			2	Pass	
Demeton-S	mg/kg	< 0.2			0.2	Pass	
Demeton-O	mg/kg	< 0.2			0.2	Pass	
Diazinon	mg/kg	< 0.2			0.2	Pass	
Dichlorvos	mg/kg	< 0.2			0.2	Pass	
Dimethoate	mg/kg	< 0.2			0.2	Pass	
Disulfoton	mg/kg	< 0.2			0.2	Pass	
EPN	mg/kg	< 0.2			0.2	Pass	
Ethion	mg/kg	< 0.2			0.2	Pass	
Ethoprop	mg/kg	< 0.2			0.2	Pass	
Ethyl parathion	mg/kg	< 0.2			0.2	Pass	
Fenitrothion	mg/kg	< 0.2			0.2	Pass	
Fensulfothion	mg/kg	< 0.2			0.2	Pass	
Fenthion	mg/kg	< 0.2			0.2	Pass	
Malathion	mg/kg	< 0.2			0.2	Pass	
Merphos	mg/kg	< 0.2			0.2	Pass	
Methyl parathion	mg/kg	< 0.2			0.2	Pass	
Mevinphos	mg/kg	< 0.2			0.2	Pass	
Monocrotophos	mg/kg	< 2			2	Pass	
Naled	mg/kg	< 0.2			0.2	Pass	
Omethoate	mg/kg	< 2			2	Pass	
Phorate	mg/kg	< 0.2			0.2	Pass	
Pirimiphos-methyl	mg/kg	< 0.2			0.2	Pass	
Pyrazophos	mg/kg	< 0.2			0.2	Pass	
Ronnel	mg/kg	< 0.2			0.2	Pass	
Terbufos	mg/kg	< 0.2			0.2	Pass	
Tetrachlorvinphos	mg/kg	< 0.2			0.2	Pass	
Tokuthion	mg/kg	< 0.2			0.2	Pass	
Trichloronate	mg/kg	< 0.2			0.2	Pass	
Method Blank							
Phenols (Halogenated)							
2-Chlorophenol	mg/kg	< 0.5			0.5	Pass	
2,4-Dichlorophenol	mg/kg	< 0.5			0.5	Pass	
2,4,5-Trichlorophenol	mg/kg	< 1			1	Pass	
2,4,6-Trichlorophenol	mg/kg	< 1			1	Pass	
2,6-Dichlorophenol	mg/kg	< 0.5			0.5	Pass	
4-Chloro-3-methylphenol	mg/kg	< 1			1	Pass	
Pentachlorophenol	mg/kg	< 1			1	Pass	
Tetrachlorophenols - Total	mg/kg	< 10			10	Pass	
Method Blank							
Phenols (non-Halogenated)							
2-Cyclohexyl-4,6-dinitrophenol	mg/kg	< 20			20	Pass	
2-Methyl-4,6-dinitrophenol	mg/kg	< 5			5	Pass	
2-Nitrophenol	mg/kg	< 1			1	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
2,4-Dimethylphenol	mg/kg	< 0.5			0.5	Pass	
2,4-Dinitrophenol	mg/kg	< 5			5	Pass	
2-Methylphenol (o-Cresol)	mg/kg	< 0.2			0.2	Pass	
3&4-Methylphenol (m&p-Cresol)	mg/kg	< 0.4			0.4	Pass	
4-Nitrophenol	mg/kg	< 5			5	Pass	
Dinoseb	mg/kg	< 20			20	Pass	
Phenol	mg/kg	< 0.5			0.5	Pass	
Total Non-Halogenated Phenol*	mg/kg	< 0			20	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Iron	mg/kg	< 20			20	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
Method Blank							
Conductivity (1:5 aqueous extract at 25°C as rec.)	uS/cm	< 10			10	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	108			70-130	Pass	
TRH C10-C14	%	104			70-130	Pass	
Naphthalene	%	89			70-130	Pass	
TRH C6-C10	%	105			70-130	Pass	
TRH >C10-C16	%	101			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	120			70-130	Pass	
Toluene	%	112			70-130	Pass	
Ethylbenzene	%	104			70-130	Pass	
m&p-Xylenes	%	107			70-130	Pass	
o-Xylene	%	103			70-130	Pass	
Xylenes - Total*	%	105			70-130	Pass	
LCS - % Recovery							
Volatile Organics							
1,1-Dichloroethene	%	95			70-130	Pass	
1,1,1-Trichloroethane	%	84			70-130	Pass	
1,2-Dichlorobenzene	%	97			70-130	Pass	
1,2-Dichloroethane	%	109			70-130	Pass	
Trichloroethene	%	102			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	112			70-130	Pass	
Acenaphthylene	%	108			70-130	Pass	
Anthracene	%	103			70-130	Pass	
Benz(a)anthracene	%	109			70-130	Pass	
Benzo(a)pyrene	%	102			70-130	Pass	
Benzo(b&j)fluoranthene	%	115			70-130	Pass	
Benzo(g.h.i)perylene	%	106			70-130	Pass	
Benzo(k)fluoranthene	%	116			70-130	Pass	
Chrysene	%	105			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Dibenz(a,h)anthracene	%	102			70-130	Pass	
Fluoranthene	%	106			70-130	Pass	
Fluorene	%	101			70-130	Pass	
Indeno(1,2,3-cd)pyrene	%	107			70-130	Pass	
Naphthalene	%	107			70-130	Pass	
Phenanthrene	%	109			70-130	Pass	
Pyrene	%	106			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	106			70-130	Pass	
4,4'-DDD	%	91			70-130	Pass	
4,4'-DDE	%	91			70-130	Pass	
4,4'-DDT	%	110			70-130	Pass	
a-HCH	%	97			70-130	Pass	
Aldrin	%	87			70-130	Pass	
b-HCH	%	109			70-130	Pass	
d-HCH	%	106			70-130	Pass	
Dieldrin	%	98			70-130	Pass	
Endosulfan I	%	99			70-130	Pass	
Endosulfan II	%	102			70-130	Pass	
Endosulfan sulphate	%	100			70-130	Pass	
Endrin	%	116			70-130	Pass	
Endrin aldehyde	%	87			70-130	Pass	
Endrin ketone	%	106			70-130	Pass	
g-HCH (Lindane)	%	106			70-130	Pass	
Heptachlor	%	115			70-130	Pass	
Heptachlor epoxide	%	94			70-130	Pass	
Hexachlorobenzene	%	98			70-130	Pass	
Methoxychlor	%	111			70-130	Pass	
LCS - % Recovery							
Organophosphorus Pesticides							
Diazinon	%	83			70-130	Pass	
Dimethoate	%	76			70-130	Pass	
Ethion	%	103			70-130	Pass	
Fenitrothion	%	78			70-130	Pass	
Methyl parathion	%	97			70-130	Pass	
Mevinphos	%	108			70-130	Pass	
LCS - % Recovery							
Phenols (Halogenated)							
2-Chlorophenol	%	109			25-140	Pass	
2,4-Dichlorophenol	%	110			25-140	Pass	
2,4,5-Trichlorophenol	%	101			25-140	Pass	
2,4,6-Trichlorophenol	%	116			25-140	Pass	
2,6-Dichlorophenol	%	116			25-140	Pass	
4-Chloro-3-methylphenol	%	110			25-140	Pass	
Pentachlorophenol	%	82			25-140	Pass	
Tetrachlorophenols - Total	%	98			25-140	Pass	
LCS - % Recovery							
Phenols (non-Halogenated)							
2-Nitrophenol	%	127			25-140	Pass	
2,4-Dimethylphenol	%	111			25-140	Pass	
2-Methylphenol (o-Cresol)	%	110			25-140	Pass	
3&4-Methylphenol (m&p-Cresol)	%	107			25-140	Pass	
4-Nitrophenol	%	105			25-140	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Dinoseb	%	75			25-140	Pass	
Phenol	%	107			25-140	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	91			80-120	Pass	
Cadmium	%	91			80-120	Pass	
Chromium	%	93			80-120	Pass	
Copper	%	94			80-120	Pass	
Iron	%	96			80-120	Pass	
Lead	%	95			80-120	Pass	
Mercury	%	94			80-120	Pass	
Nickel	%	94			80-120	Pass	
Zinc	%	92			80-120	Pass	
LCS - % Recovery							
Conductivity (1:5 aqueous extract at 25°C as rec.)	%	93			70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits
Spike - % Recovery							
Total Recoverable Hydrocarbons				Result 1			
TRH C6-C9	S21-No35263	NCP	%	78			70-130
TRH C10-C14	S21-No40698	NCP	%	96			70-130
Naphthalene	S21-No35263	NCP	%	71			70-130
TRH C6-C10	S21-No35263	NCP	%	75			70-130
TRH >C10-C16	S21-No40698	NCP	%	91			70-130
Spike - % Recovery							
BTEX				Result 1			
Benzene	S21-No35263	NCP	%	74			70-130
Toluene	S21-No35263	NCP	%	84			70-130
Ethylbenzene	S21-No35263	NCP	%	83			70-130
m&p-Xylenes	S21-No35263	NCP	%	82			70-130
o-Xylene	S21-No35263	NCP	%	86			70-130
Xylenes - Total*	S21-No35263	NCP	%	83			70-130
Spike - % Recovery							
Heavy Metals				Result 1			
Arsenic	S21-No59776	NCP	%	110			75-125
Cadmium	S21-No59776	NCP	%	114			75-125
Chromium	S21-No59776	NCP	%	110			75-125
Copper	S21-No59776	NCP	%	102			75-125
Lead	S21-No59776	NCP	%	112			75-125
Mercury	S21-No59776	NCP	%	115			75-125
Nickel	S21-No59776	NCP	%	107			75-125
Zinc	W21-No43368	NCP	%	98			75-125
Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits
Duplicate							
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD	
TRH C6-C9	S21-No59702	CP	mg/kg	< 20	< 20	<1	30%
TRH C10-C14	W21-No38482	NCP	mg/kg	< 20	< 20	<1	30%
TRH C15-C28	W21-No38482	NCP	mg/kg	< 50	< 50	<1	30%
TRH C29-C36	W21-No38482	NCP	mg/kg	< 50	< 50	<1	30%
Naphthalene	S21-No59702	CP	mg/kg	< 0.5	< 0.5	<1	30%
TRH C6-C10	S21-No59702	CP	mg/kg	< 20	< 20	<1	30%
TRH >C10-C16	W21-No38482	NCP	mg/kg	< 50	< 50	<1	30%
TRH >C16-C34	W21-No38482	NCP	mg/kg	< 100	< 100	<1	30%
TRH >C34-C40	W21-No38482	NCP	mg/kg	< 100	< 100	<1	30%

Duplicate								
BTEX				Result 1	Result 2	RPD		
Benzene	S21-No59702	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Toluene	S21-No59702	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Ethylbenzene	S21-No59702	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
m&p-Xylenes	S21-No59702	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
o-Xylene	S21-No59702	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Xylenes - Total*	S21-No59702	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass
Duplicate								
Volatile Organics				Result 1	Result 2	RPD		
1.1-Dichloroethane	S21-No59702	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.1-Dichloroethene	S21-No59702	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.1.1-Trichloroethane	S21-No59702	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.1.1.2-Tetrachloroethane	S21-No59702	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.1.2-Trichloroethane	S21-No59702	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.1.2.2-Tetrachloroethane	S21-No59702	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2-Dibromoethane	S21-No59702	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2-Dichlorobenzene	S21-No59702	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2-Dichloroethane	S21-No59702	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2-Dichloropropane	S21-No59702	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2.3-Trichloropropane	S21-No59702	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2.4-Trimethylbenzene	S21-No59702	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.3-Dichlorobenzene	S21-No59702	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.3-Dichloropropane	S21-No59702	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.3.5-Trimethylbenzene	S21-No59702	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.4-Dichlorobenzene	S21-No59702	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2-Butanone (MEK)	S21-No59702	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2-Propanone (Acetone)	S21-No59702	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Chlorotoluene	S21-No59702	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Methyl-2-pentanone (MIBK)	S21-No59702	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Allyl chloride	S21-No59702	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromobenzene	S21-No59702	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromochloromethane	S21-No59702	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromodichloromethane	S21-No59702	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromoform	S21-No59702	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromomethane	S21-No59702	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Carbon disulfide	S21-No59702	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Carbon Tetrachloride	S21-No59702	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chlorobenzene	S21-No59702	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloroethane	S21-No59702	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloroform	S21-No59702	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloromethane	S21-No59702	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
cis-1,2-Dichloroethene	S21-No59702	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
cis-1,3-Dichloropropene	S21-No59702	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibromochloromethane	S21-No59702	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibromomethane	S21-No59702	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dichlorodifluoromethane	S21-No59702	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Iodomethane	S21-No59702	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Isopropyl benzene (Cumene)	S21-No59702	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Methylene Chloride	S21-No59702	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Styrene	S21-No59702	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Tetrachloroethene	S21-No59702	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
trans-1,2-Dichloroethene	S21-No59702	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
trans-1,3-Dichloropropene	S21-No59702	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Trichloroethene	S21-No59702	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Trichlorofluoromethane	S21-No59702	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Vinyl chloride	S21-No59702	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass

Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Acenaphthene	S21-No55910	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Acenaphthylene	S21-No55910	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Anthracene	S21-No55910	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benz(a)anthracene	S21-No55910	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(a)pyrene	S21-No55910	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(b&j)fluoranthene	S21-No55910	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(g.h.i)perylene	S21-No55910	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(k)fluoranthene	S21-No55910	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chrysene	S21-No55910	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibenz(a.h)anthracene	S21-No55910	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluoranthene	S21-No55910	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluorene	S21-No55910	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Indeno(1.2.3-cd)pyrene	S21-No55910	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Naphthalene	S21-No55910	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Phenanthrene	S21-No55910	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pyrene	S21-No55910	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Chlordanes - Total	S21-No55910	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
4,4'-DDD	S21-No55910	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDE	S21-No55910	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDT	S21-No55910	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
a-HCH	S21-No55910	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Aldrin	S21-No55910	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
b-HCH	S21-No55910	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
d-HCH	S21-No55910	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Dieldrin	S21-No55910	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan I	S21-No55910	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan II	S21-No55910	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan sulphate	S21-No55910	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin	S21-No55910	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin aldehyde	S21-No55910	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin ketone	S21-No55910	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
g-HCH (Lindane)	S21-No55910	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor	S21-No55910	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor epoxide	S21-No55910	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	S21-No55910	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Methoxychlor	S21-No55910	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Organophosphorus Pesticides				Result 1	Result 2	RPD		
Azinphos-methyl	S21-No55910	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Bolstar	S21-No55910	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Chlорfenvinphos	S21-No55910	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Chlorpyrifos	S21-No55910	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Chlorpyrifos-methyl	S21-No55910	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Coumaphos	S21-No55910	NCP	mg/kg	< 2	< 2	<1	30%	Pass
Demeton-S	S21-No55910	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Demeton-O	S21-No55910	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Diazinon	S21-No55910	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Dichlorvos	S21-No55910	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Dimethoate	S21-No55910	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Disulfoton	S21-No55910	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
EPN	S21-No55910	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Ethion	S21-No55910	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass

Duplicate								
Organophosphorus Pesticides				Result 1	Result 2	RPD		
Ethoprop	S21-No55910	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Ethyl parathion	S21-No55910	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Fenitrothion	S21-No55910	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Fensulfothion	S21-No55910	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Fenthion	S21-No55910	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Malathion	S21-No55910	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Merphos	S21-No55910	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Methyl parathion	S21-No55910	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Mevinphos	S21-No55910	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Monocrotophos	S21-No55910	NCP	mg/kg	< 2	< 2	<1	30%	Pass
Naled	S21-No55910	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Omethoate	S21-No55910	NCP	mg/kg	< 2	< 2	<1	30%	Pass
Phorate	S21-No55910	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Pirimiphos-methyl	S21-No55910	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Pyrazophos	S21-No55910	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Ronnel	S21-No55910	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Terbufos	S21-No55910	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Tetrachlorvinphos	S21-No55910	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Tokuthion	S21-No55910	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Trichloronate	S21-No55910	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Duplicate								
Phenols (Halogenated)				Result 1	Result 2	RPD		
2-Chlorophenol	S21-No55910	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2,4-Dichlorophenol	S21-No55910	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2,4,5-Trichlorophenol	S21-No55910	NCP	mg/kg	< 1	< 1	<1	30%	Pass
2,4,6-Trichlorophenol	S21-No55910	NCP	mg/kg	< 1	< 1	<1	30%	Pass
2,6-Dichlorophenol	S21-No55910	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Chloro-3-methylphenol	S21-No55910	NCP	mg/kg	< 1	< 1	<1	30%	Pass
Pentachlorophenol	S21-No55910	NCP	mg/kg	< 1	< 1	<1	30%	Pass
Tetrachlorophenols - Total	S21-No55910	NCP	mg/kg	< 10	< 10	<1	30%	Pass
Duplicate								
Phenols (non-Halogenated)				Result 1	Result 2	RPD		
2-Cyclohexyl-4,6-dinitrophenol	S21-No55910	NCP	mg/kg	< 20	< 20	<1	30%	Pass
2-Methyl-4,6-dinitrophenol	S21-No55910	NCP	mg/kg	< 5	< 5	<1	30%	Pass
2-Nitrophenol	S21-No55910	NCP	mg/kg	< 1	< 1	<1	30%	Pass
2,4-Dimethylphenol	S21-No55910	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2,4-Dinitrophenol	S21-No55910	NCP	mg/kg	< 5	< 5	<1	30%	Pass
2-Methylphenol (o-Cresol)	S21-No55910	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
3&4-Methylphenol (m&p-Cresol)	S21-No55910	NCP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
4-Nitrophenol	S21-No55910	NCP	mg/kg	< 5	< 5	<1	30%	Pass
Dinoseb	S21-No55910	NCP	mg/kg	< 20	< 20	<1	30%	Pass
Phenol	S21-No55910	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S21-No55829	NCP	mg/kg	3.0	3.8	26	30%	Pass
Cadmium	S21-No55829	NCP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	S21-No55829	NCP	mg/kg	8.3	7.1	16	30%	Pass
Copper	S21-No55829	NCP	mg/kg	70	67	5.0	30%	Pass
Lead	S21-No55829	NCP	mg/kg	220	230	7.0	30%	Pass
Mercury	S21-No55829	NCP	mg/kg	0.5	0.7	22	30%	Pass
Nickel	S21-No55829	NCP	mg/kg	< 5	< 5	<1	30%	Pass
Zinc	S21-No55829	NCP	mg/kg	130	160	19	30%	Pass
Duplicate								
% Moisture				Result 1	Result 2	RPD		
% Moisture	S21-No59701	NCP	%	17	18	8.0	30%	Pass

Duplicate							
Heavy Metals				Result 1	Result 2	RPD	
Iron	S21-No41914	NCP	mg/kg	< 20	< 20	<1	30% Pass
Duplicate							
Conductivity (1:5 aqueous extract at 25°C as rec.)	S21-No59704	CP	uS/cm	52	47	11	30% Pass

DRAFT

Comments**Sample Integrity**

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

Qualifier Codes/Comments

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

Authorised by:

Andrew Sullivan	Senior Analyst-Organic (NSW)
Charl Du Preez	Senior Analyst-Inorganic (NSW)
Emily Rosenberg	Senior Analyst-Metal (VIC)
John Nguyen	Senior Analyst-Metal (NSW)
Jonathon Angell	Senior Analyst-Inorganic (QLD)
Roopesh Rangarajan	Senior Analyst-Volatile (NSW)
Scott Beddoes	Senior Analyst-Inorganic (VIC)

Glenn Jackson
General Manager

- Indicates Not Requested

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

Measurement uncertainty of test data is available on request or please [click here](#).

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Appendix VIII – Lotsearch Report



Date: 10 Nov 2021 11:37:43

Reference: LS026281 EP

Address: Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145

Disclaimer:

The purpose of this report is to provide an overview of some of the site history, environmental risk and planning information available, affecting an individual address or geographical area in which the property is located. It is not a substitute for an on-site inspection or review of other available reports and records. It is not intended to be, and should not be taken to be, a rating or assessment of the desirability or market value of the property or its features. You should obtain independent advice before you make any decision based on the information within the report. The detailed terms applicable to use of this report are set out at the end of this report.

Dataset Listing

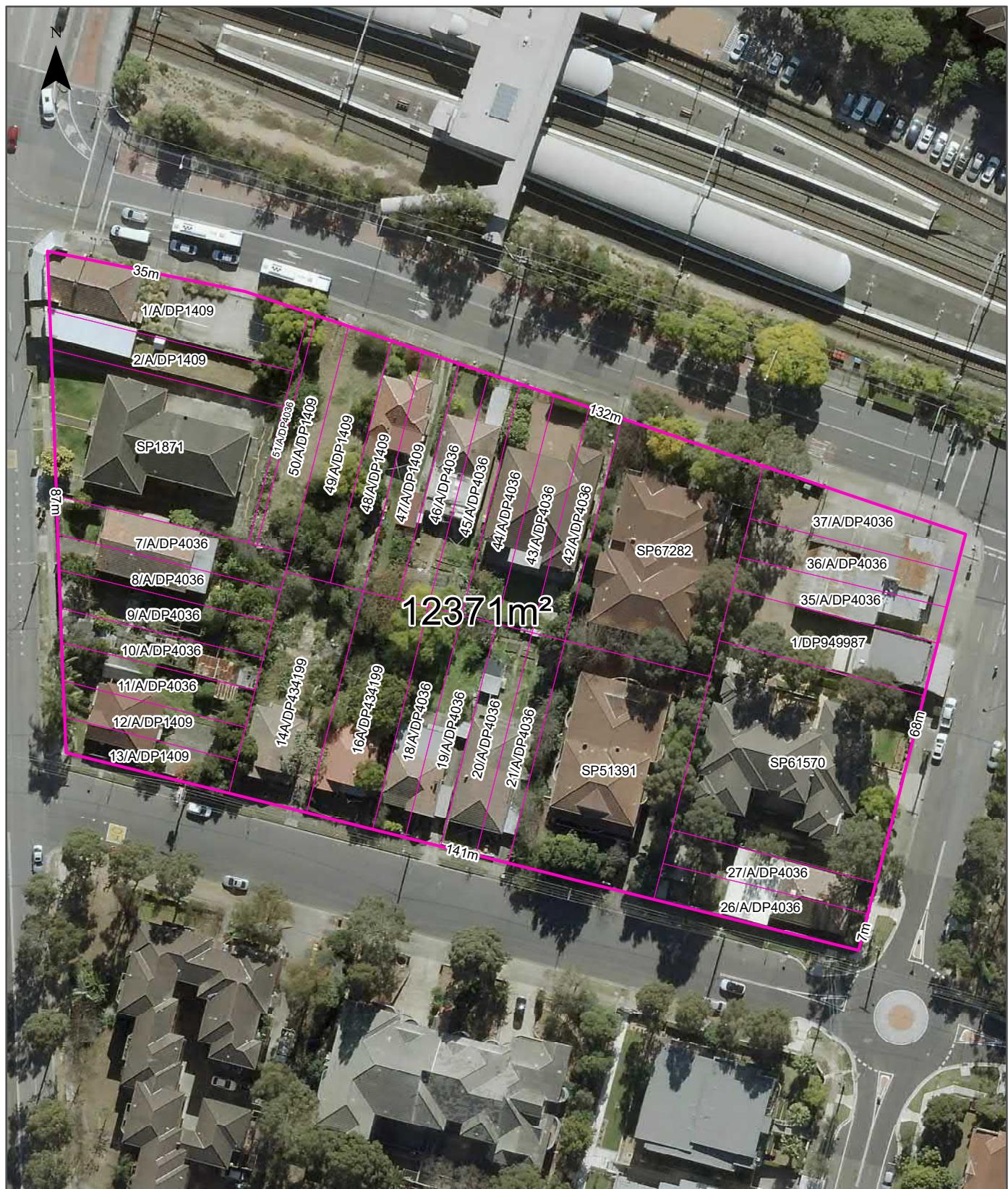
Datasets contained within this report, detailing their source and data currency:

Dataset Name	Custodian	Supply Date	Currency Date	Update Frequency	Dataset Buffer (m)	No. Features On-site	No. Features within 100m	No. Features within Buffer
Cadastre Boundaries	NSW Department of Finance, Services & Innovation	30/06/2021	30/06/2021	Quarterly	-	-	-	-
Topographic Data	NSW Department of Finance, Services & Innovation	25/06/2019	25/06/2019	As required	-	-	-	-
List of NSW contaminated sites notified to EPA	Environment Protection Authority	13/10/2021	11/10/2021	Monthly	1000m	0	0	2
Contaminated Land Records of Notice	Environment Protection Authority	08/10/2021	08/10/2021	Monthly	1000m	0	0	0
Former Gasworks	Environment Protection Authority	11/08/2021	11/10/2017	Quarterly	1000m	0	0	0
National Waste Management Facilities Database	Geoscience Australia	12/05/2021	07/03/2017	Annually	1000m	0	0	0
National Liquid Fuel Facilities	Geoscience Australia	15/02/2021	13/07/2012	Annually	1000m	0	0	0
EPA PFAS Investigation Program	Environment Protection Authority	28/10/2021	14/07/2021	Monthly	2000m	0	0	0
Defence PFAS Investigation & Management Program - Investigation Sites	Department of Defence	29/10/2021	29/10/2021	Monthly	2000m	0	0	0
Defence PFAS Investigation & Management Program - Management Sites	Department of Defence	29/10/2021	29/10/2021	Monthly	2000m	0	0	0
Airservices Australia National PFAS Management Program	Airservices Australia	08/10/2021	08/10/2021	Monthly	2000m	0	0	0
Defence 3 Year Regional Contamination Investigation Program	Department of Defence	19/08/2021	19/08/2021	Quarterly	2000m	0	0	1
EPA Other Sites with Contamination Issues	Environment Protection Authority	02/02/2021	13/12/2018	Annually	1000m	0	0	2
Licensed Activities under the POEO Act 1997	Environment Protection Authority	28/10/2021	28/10/2021	Monthly	1000m	1	2	3
Delicensed POEO Activities still regulated by the EPA	Environment Protection Authority	28/10/2021	28/10/2021	Monthly	1000m	0	0	2
Former POEO Licensed Activities now revoked or surrendered	Environment Protection Authority	28/10/2021	28/10/2021	Monthly	1000m	0	1	5
UBD Business Directories (Premise & Intersection Matches)	Hardie Grant			Not required	150m	36	99	115
UBD Business Directories (Road & Area Matches)	Hardie Grant			Not required	150m	-	70	70
UBD Business Directory Dry Cleaners & Motor Garages/Service Stations (Premise & Intersection Matches)	Hardie Grant			Not required	500m	50	50	107
UBD Business Directory Dry Cleaners & Motor Garages/Service Stations (Road & Area Matches)	Hardie Grant			Not required	500m	-	10	10
Points of Interest	NSW Department of Finance, Services & Innovation	19/08/2021	19/08/2021	Quarterly	1000m	0	4	94
Tanks (Areas)	NSW Department of Customer Service - Spatial Services	19/08/2021	19/08/2021	Quarterly	1000m	0	0	0
Tanks (Points)	NSW Department of Customer Service - Spatial Services	19/08/2021	19/08/2021	Quarterly	1000m	0	0	0
Major Easements	NSW Department of Finance, Services & Innovation	19/08/2021	19/08/2021	Quarterly	1000m	0	0	8
State Forest	Forestry Corporation of NSW	25/02/2021	14/02/2021	Annually	1000m	0	0	0
NSW National Parks and Wildlife Service Reserves	NSW Office of Environment & Heritage	22/01/2021	11/12/2020	Annually	1000m	0	0	0
Hydrogeology Map of Australia	Commonwealth of Australia (Geoscience Australia)	08/10/2014	17/03/2000	As required	1000m	1	1	1
Temporary Water Restriction (Botany Sands Groundwater Source) Order 2018	NSW Department of Planning, Industry and Environment	26/10/2020	21/02/2018	Annually	1000m	0	0	0
Groundwater Boreholes	NSW Dept. of Primary Industries - Water NSW; Commonwealth of Australia (Bureau of Meteorology)	24/07/2018	23/07/2018	Annually	2000m	0	0	25

Dataset Name	Custodian	Supply Date	Currency Date	Update Frequency	Dataset Buffer (m)	No. Features On-site	No. Features within 100m	No. Features within Buffer
Geological Units 1:100,000	NSW Department of Planning, Industry and Environment	20/08/2014		Annually	1000m	1	1	4
Geological Structures 1:100,000	NSW Department of Planning, Industry and Environment	20/08/2014		Annually	1000m	0	0	0
Naturally Occurring Asbestos Potential	NSW Dept. of Industry, Resources & Energy	04/12/2015	24/09/2015	Unknown	1000m	0	0	0
Atlas of Australian Soils	Australian Bureau of Agriculture and Resource Economics and Sciences (ABARES)	19/05/2017	17/02/2011	As required	1000m	1	1	1
Soil Landscapes of Central and Eastern NSW	NSW Department of Planning, Industry and Environment	14/10/2020	27/07/2020	Annually	1000m	1	1	2
Environmental Planning Instrument Acid Sulfate Soils	NSW Department of Planning, Industry and Environment	19/08/2021	28/06/2021	Monthly	500m	0	-	-
Atlas of Australian Acid Sulfate Soils	CSIRO	19/01/2017	21/02/2013	As required	1000m	1	1	3
Dryland Salinity - National Assessment	National Land and Water Resources Audit	18/07/2014	12/05/2013	None planned	1000m	0	0	0
Dryland Salinity Potential of Western Sydney	NSW Department of Planning, Industry and Environment	12/05/2017	01/01/2002	None planned	1000m	1	1	2
Mining Subsidence Districts	NSW Department of Customer Service - Subsidence Advisory NSW	19/08/2021	05/08/2021	Quarterly	1000m	0	0	0
Current Mining Titles	NSW Department of Industry	02/11/2021	02/11/2021	Monthly	1000m	0	0	0
Mining Title Applications	NSW Department of Industry	02/11/2021	02/11/2021	Monthly	1000m	0	0	0
Historic Mining Titles	NSW Department of Industry	02/11/2021	02/11/2021	Monthly	1000m	11	11	12
Environmental Planning Instrument SEPP State Significant Precincts	NSW Department of Planning, Industry and Environment	19/08/2021	07/12/2018	Monthly	1000m	0	0	0
Environmental Planning Instrument Land Zoning	NSW Department of Planning, Industry and Environment	19/08/2021	13/08/2021	Monthly	1000m	1	8	47
Commonwealth Heritage List	Australian Government Department of the Agriculture, Water and the Environment	18/05/2021	20/11/2019	Annually	1000m	0	0	0
National Heritage List	Australian Government Department of the Agriculture, Water and the Environment	18/05/2021	20/11/2019	Annually	1000m	0	0	1
State Heritage Register - Curtilages	NSW Department of Planning, Industry and Environment	19/08/2021	25/06/2021	Quarterly	1000m	0	0	4
Environmental Planning Instrument Local Heritage	NSW Department of Planning, Industry and Environment	19/08/2021	13/08/2021	Monthly	1000m	0	3	38
Bush Fire Prone Land	NSW Rural Fire Service	02/11/2021	19/10/2021	Weekly	1000m	0	0	0
Native Vegetation of the Sydney Metropolitan Area	NSW Office of Environment & Heritage	01/03/2017	16/12/2016	As required	1000m	0	1	12
Ramsar Wetlands of Australia	Australian Government Department of Agriculture, Water and the Environment	24/02/2021	19/03/2020	Annually	1000m	0	0	0
Groundwater Dependent Ecosystems	Bureau of Meteorology	14/08/2017	15/05/2017	Annually	1000m	0	0	3
Inflow Dependent Ecosystems Likelihood	Bureau of Meteorology	14/08/2017	15/05/2017	Unknown	1000m	0	0	4
NSW BioNet Species Sightings	NSW Office of Environment & Heritage	18/10/2021	18/10/2021	Weekly	10000m	-	-	-

Site Diagram

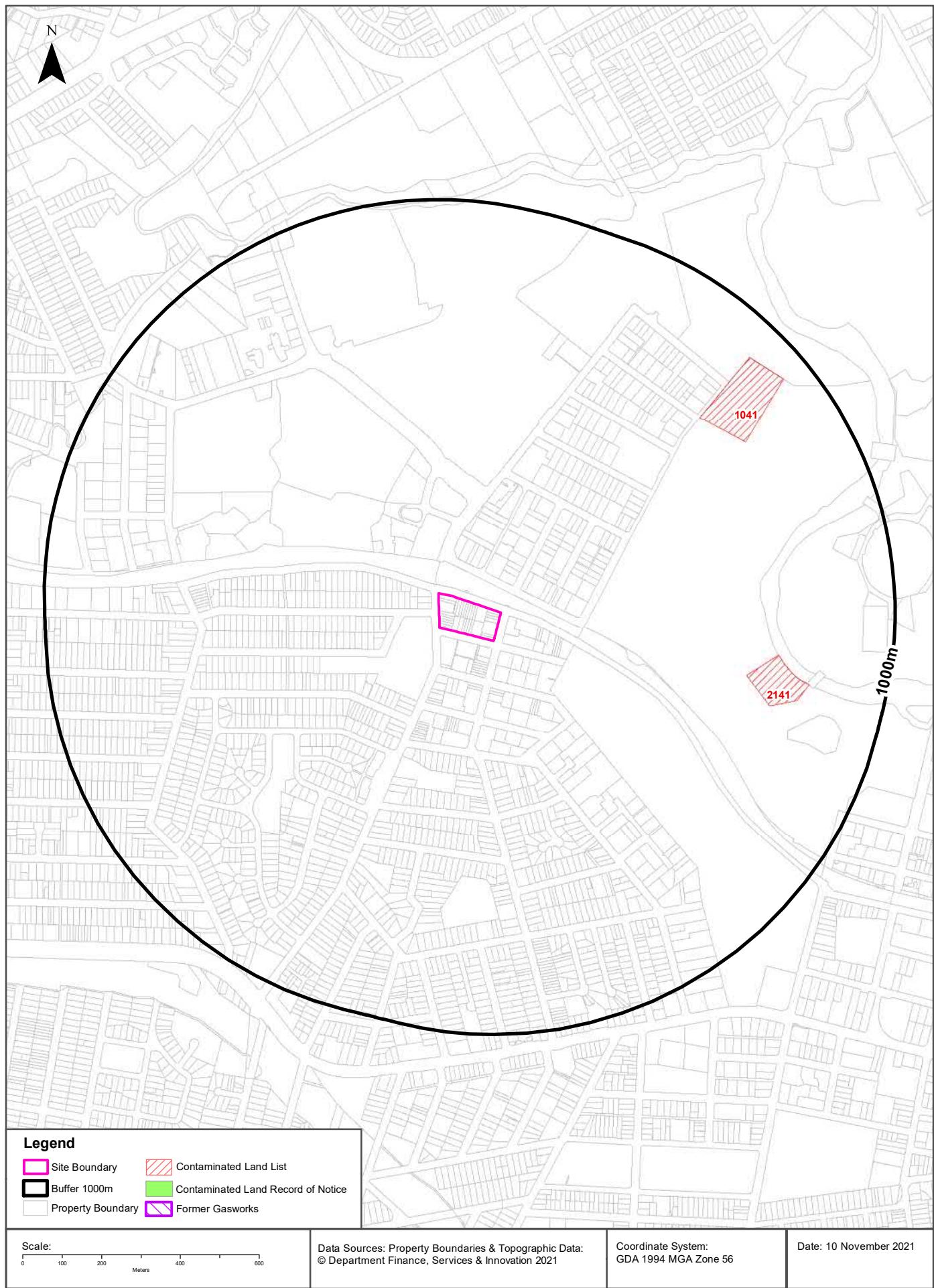
Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145



Legend	Total Area: 12371m ²	Scale:
<ul style="list-style-type: none"> ■ Site Boundary ■ Internal Parcel Boundaries 	Total Perimeter: 469m	 0 25 50 Meters
Disclaimers:		
Measurements are approximate only and may have been simplified or smaller lengths removed for readability.		
Parcels that make up a small percentage of the total site area have not been labelled for increased legibility.		Date: 10 November 2021
Data Source Aerial Imagery: © Aerometrex Pty Ltd		Coordinate System: GDA 1994 MGA Zone 56

Contaminated Land

Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145



Contaminated Land

Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145

List of NSW contaminated sites notified to EPA

Records from the NSW EPA Contaminated Land list within the dataset buffer:

Map Id	Site	Address	Suburb	Activity	Management Class	Status	Location Confidence	Dist	Direction
2141	Parramatta Park Toilet Block Demolition	The Crescent Toilet Block Parramatta Park	Parramatta	Unclassified	Regulation under CLM Act not required	Current EPA List	Premise Match	641m	East
1041	Coleman Oval Embankment	Cnr of Pitt Street and Maquarie Street	Parramatta	Unclassified	Regulation under CLM Act not required	Current EPA List	Premise Match	706m	North East

The values within the EPA site management class in the table above, are given more detailed explanations in the table below:

EPA site management class	Explanation
Contamination being managed via the planning process (EP&A Act)	The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation. The contamination of this site is managed by the consent authority under the Environmental Planning and Assessment Act 1979 (EP&A Act) planning approval process, with EPA involvement as necessary to ensure significant contamination is adequately addressed. The consent authority is typically a local council or the Department of Planning and Environment.
Contamination currently regulated under CLM Act	The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation under the Contaminated Land Management Act 1997 (CLM Act). Management of the contamination is regulated by the EPA under the CLM Act. Regulatory notices are available on the EPA's Contaminated Land Public Record of Notices.
Contamination currently regulated under POEO Act	The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation. Management of the contamination is regulated under the Protection of the Environment Operations Act 1997 (POEO Act). The EPA's regulatory actions under the POEO Act are available on the POEO public register.
Contamination formerly regulated under the CLM Act	The EPA has determined that the contamination is no longer significant enough to warrant regulation under the Contaminated Land Management Act 1997 (CLM Act). The contamination was addressed under the CLM Act.
Contamination formerly regulated under the POEO Act	The EPA has determined that the contamination is no longer significant enough to warrant regulation. The contamination was addressed under the Protection of the Environment Operations Act 1997 (POEO Act).
Contamination was addressed via the planning process (EP&A Act)	The EPA has determined that the contamination is no longer significant enough to warrant regulation. The contamination was addressed by the appropriate consent authority via the planning process under the Environmental Planning and Assessment Act 1979 (EP&A Act).
Ongoing maintenance required to manage residual contamination (CLM Act)	The EPA has determined that ongoing maintenance, under the Contaminated Land Management Act 1997 (CLM Act), is required to manage the residual contamination. Regulatory notices under the CLM Act are available on the EPA's Contaminated Land Public Record of Notices.
Regulation being finalised	The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation under the Contaminated Land Management Act 1997. A regulatory approach is being finalised.
Regulation under the CLM Act not required	The EPA has completed an assessment of the contamination and decided that regulation under the Contaminated Land Management Act 1997 is not required.
Under assessment	The contamination is being assessed by the EPA to determine whether regulation is required. The EPA may require further information to complete the assessment. For example, the completion of management actions regulated under the planning process or Protection of the Environment Operations Act 1997. Alternatively, the EPA may require information via a notice issued under s77 of the Contaminated Land Management Act 1997 or issue a Preliminary Investigation Order.

Contaminated Land

Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145

Contaminated Land: Records of Notice

Record of Notices within the dataset buffer:

Map Id	Name	Address	Suburb	Notices	Area No	Location Confidence	Distance	Direction
N/A	No records in buffer							

Contaminated Land Records of Notice Data Source: Environment Protection Authority

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Terms of use and disclaimer for Contaminated Land: Record of Notices, please visit

<http://www.epa.nsw.gov.au/clm/clmdisclaimer.htm>

Former Gasworks

Former Gasworks within the dataset buffer:

Map Id	Location	Council	Further Info	Location Confidence	Distance	Direction
N/A	No records in buffer					

Former Gasworks Data Source: Environment Protection Authority

© State of New South Wales through the Environment Protection Authority

Waste Management & Liquid Fuel Facilities

Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145

National Waste Management Site Database

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

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

Waste Management Facilities Data Source: Geoscience Australia

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National Liquid Fuel Facilities

National Liquid Fuel Facilities within the dataset buffer:

Map Id	Owner	Name	Address	Suburb	Class	Operational Status	Operator	Revision Date	Loc Conf	Dist	Direction
N/A	No records in buffer										

National Liquid Fuel Facilities Data Source: Geoscience Australia

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PFAS Investigation & Management Programs

Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145

EPA PFAS Investigation Program

Sites that are part of the EPA PFAS investigation program, within the dataset buffer:

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

EPA PFAS Investigation Program: Environment Protection Authority
© State of New South Wales through the Environment Protection Authority

Defence PFAS Investigation Program

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

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

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

Defence PFAS Management Program

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

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

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

Airservices Australia National PFAS Management Program

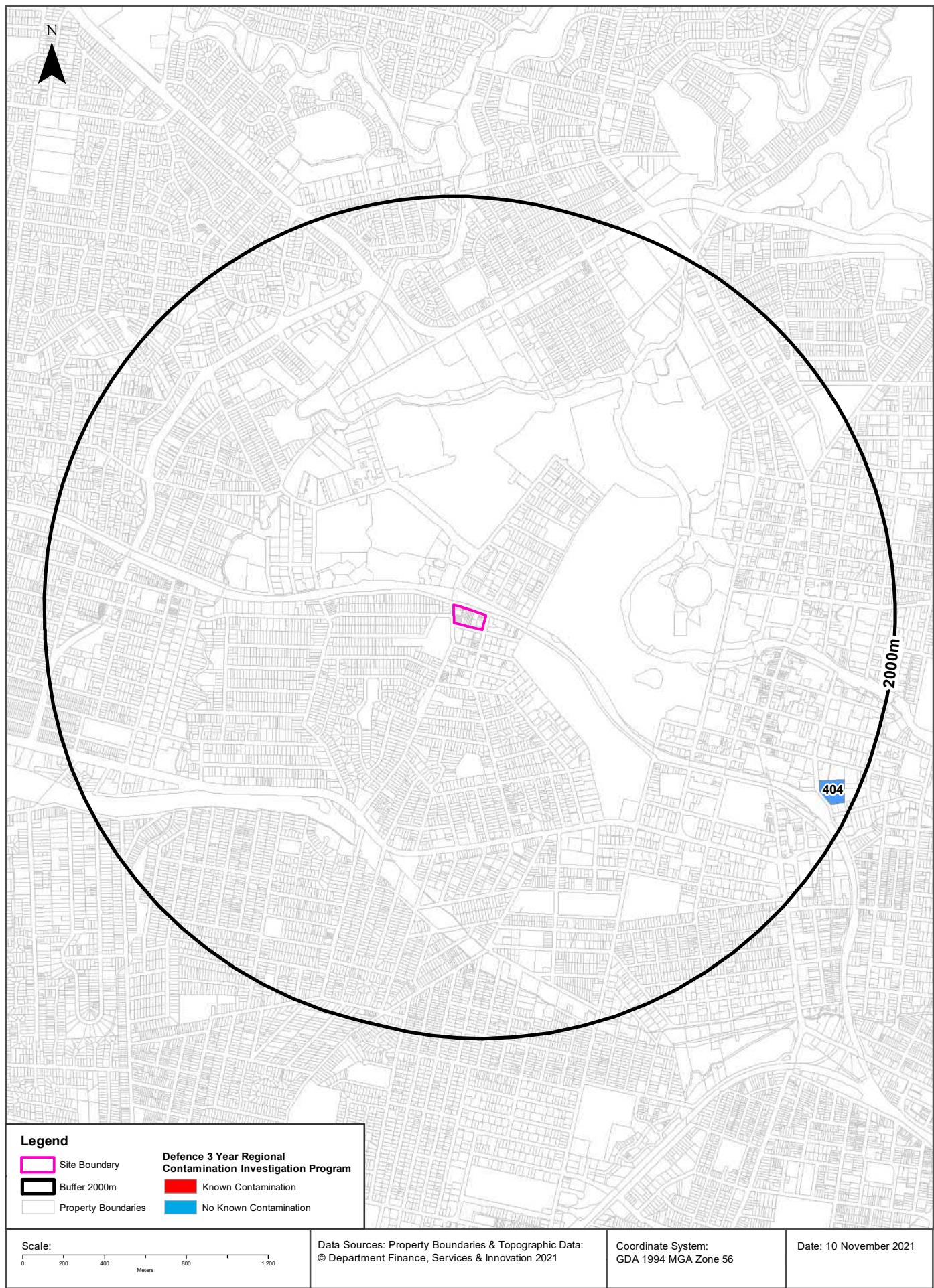
Sites being investigated or managed by Airservices Australia for PFAS contamination within the dataset buffer:

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

Airservices Australia National PFAS Management Program Data Custodian: Airservices Australia

Defence 3 Year Regional Contamination Investigation Program

Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145



Defence Sites

Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145

Defence 3 Year Regional Contamination Investigation Program

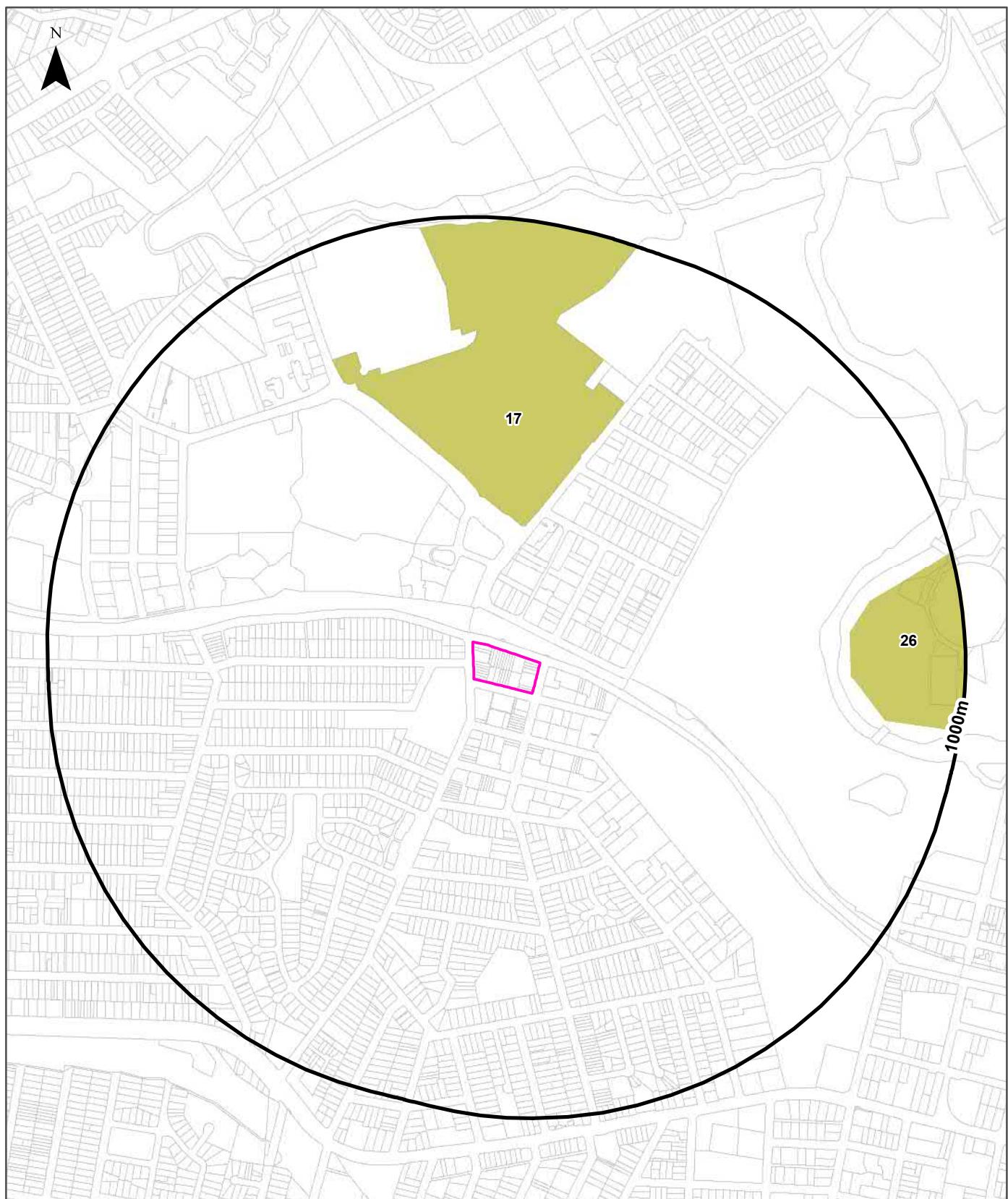
Sites which have been assessed as part of the Defence 3 Year Regional Contamination Investigation Program within the dataset buffer:

Property ID	Base Name	Address	Known Contamination	Loc Conf	Dist	Dir
404	Lancer Barracks - Parramatta	Parramatta, New South Wales	NO	Premise Match	1801m	South East

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

EPA Other Sites with Contamination Issues

Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145



Legend

Property Boundary	James Hardie Asbestos Waste Sites (Premise Match)	James Hardie Asbestos Waste Site (Area / Suburb Match - specific site location unknown)	Pasminco Lead Abatement Strategy Area
Site Boundary	James Hardie Asbestos Waste Site (Road / Road Intersection Match - specific site location currently unknown)		
Buffer 1000m		Radiological Contamination Investigation - Hunter's Hill	

Scale:

0 100 200 300 400 500 600 Meters

Data Sources: Property Boundaries & Topographic Data:
© Department Finance, Services & Innovation 2021

Coordinate System:
GDA 1994 MGA Zone 56

Date: 10 November 2021

EPA Other Sites with Contamination Issues

Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145

EPA Other Sites with Contamination Issues

This dataset contains other sites identified on the EPA website as having contamination issues. This dataset currently includes:

- James Hardie asbestos manufacturing and waste disposal sites
- Radiological investigation sites in Hunter's Hill
- Pasminco Lead Abatement Strategy Area

Sites within the dataset buffer:

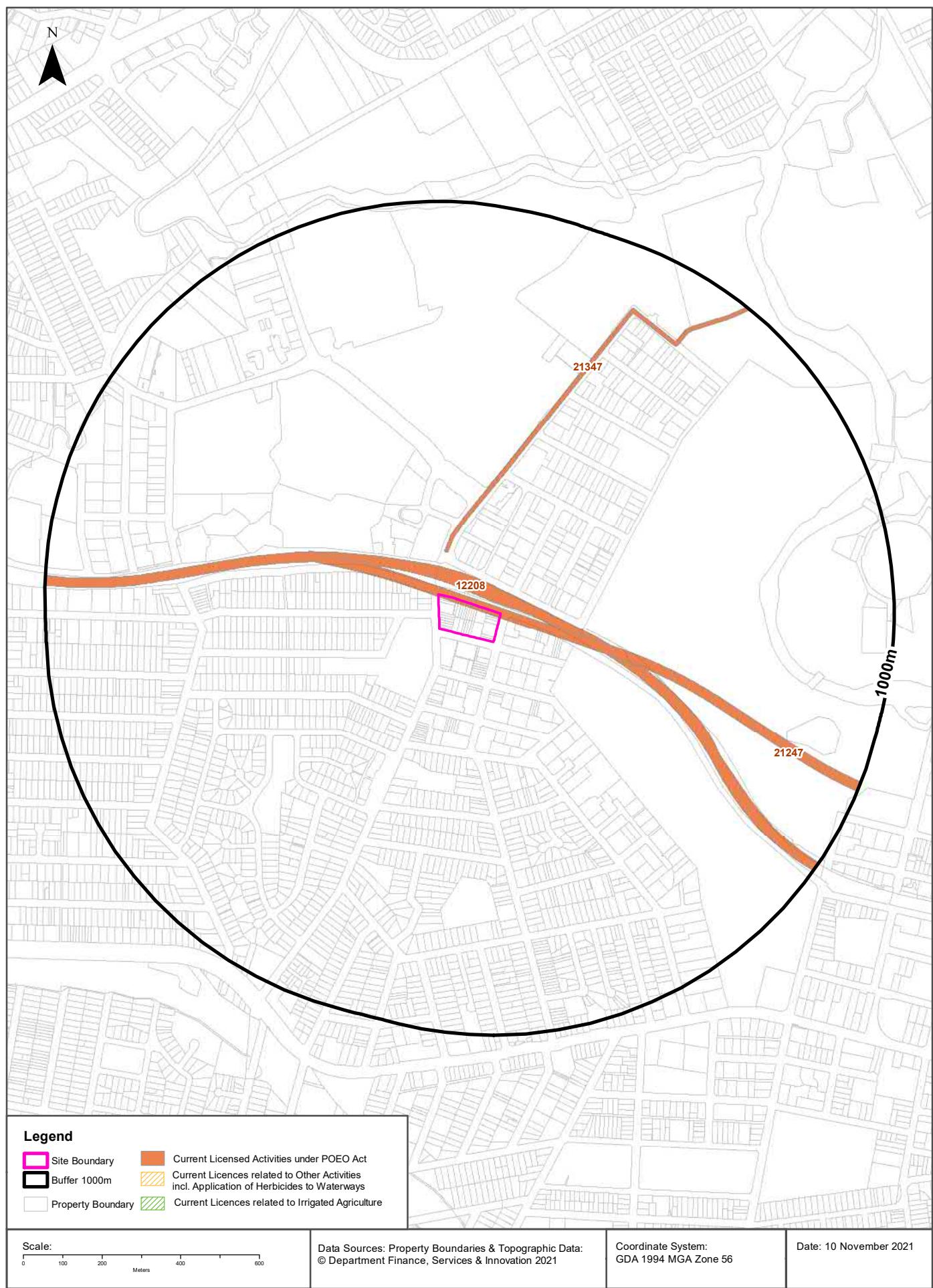
Site Id	Site Name	Site Address	Dataset	Comments	Location Confidence	Distance	Direction
17	Parramatta showground	Old Windsor Rd, Westmead	James Hardie Asbestos Waste Sites	Current Land Use: Parramatta hospital being constructed on site	Premise Match	292m	North
26	Cumberland Oval	O'Connell Street, Parramatta	James Hardie Asbestos Waste Sites	Current Land Use: Parramatta Stadium Parramatta Pool	Premise Match	728m	East

EPA Other Sites with Contamination Issues: Environment Protection Authority

© State of New South Wales through the Environment Protection Authority

Current EPA Licensed Activities

Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145



EPA Activities

Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145

Licensed Activities under the POEO Act 1997

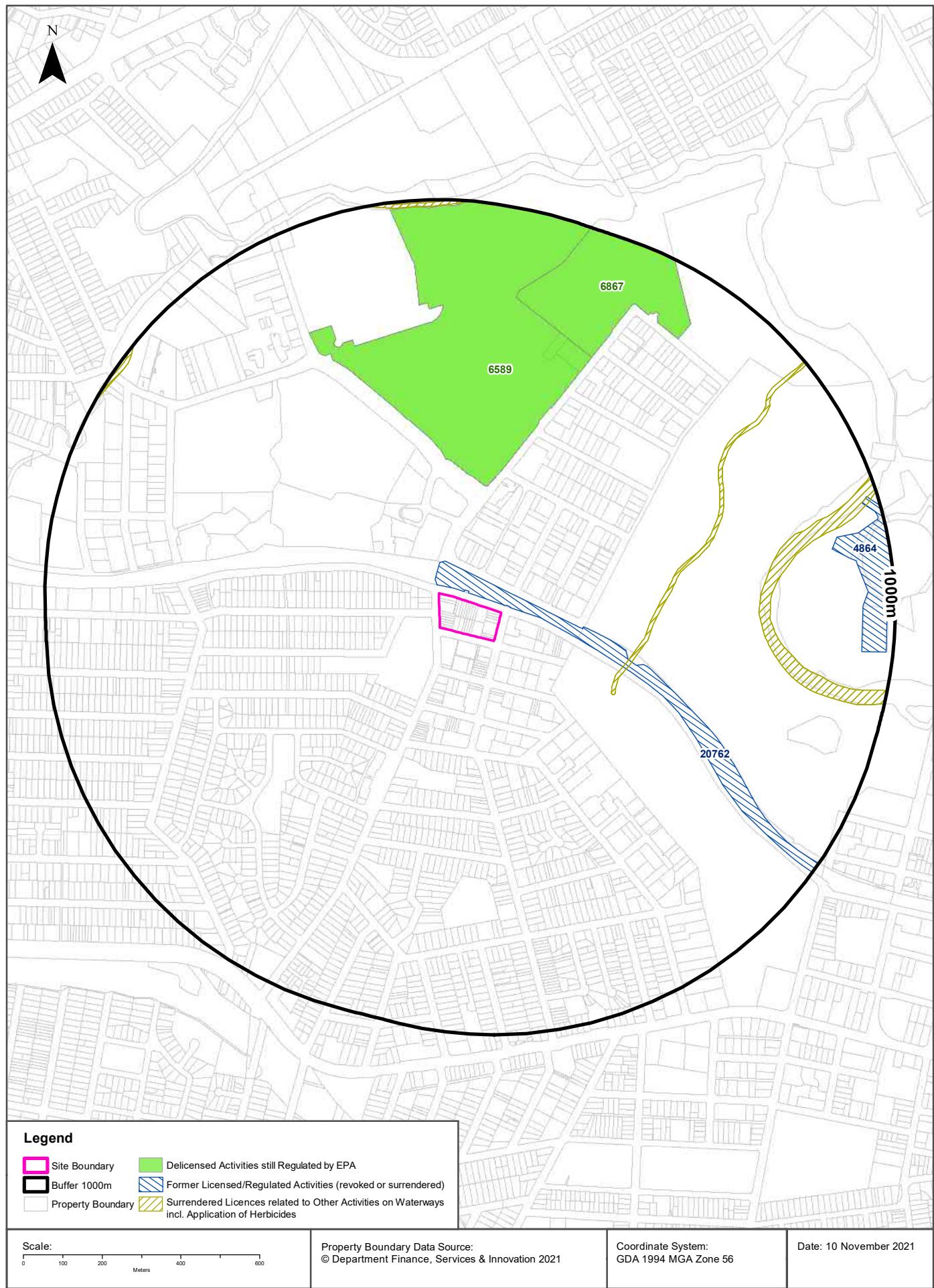
Licensed activities under the Protection of the Environment Operations Act 1997, within the dataset buffer:

EPL	Organisation	Name	Address	Suburb	Activity	Loc Conf	Distance	Direction
21247	Metro Trains Sydney Pty Ltd		SYDNEY METRO, ROUSE HILL, NSW 2155		Railway systems activities	Network of Features	0m	On-site
12208	SYDNEY TRAINS		SYDNEY TRAINS, HAYMARKET, NSW 1238		Railway systems activities	Network of Features	23m	North East
21347	CPB CONTRACTORS PTY LIMITED		PACKAGE 4, PARRAMATTA, NSW 2123		Railway infrastructure construction (>=50,000T & track to be constructed>10km & <30km)	Network of Features	108m	North East

POEO Licence Data Source: Environment Protection Authority
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Delicensed & Former Licensed EPA Activities

Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145



EPA Activities

Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145

Delicensed Activities still regulated by the EPA

Delicensed activities still regulated by the EPA, within the dataset buffer:

Licence No	Organisation	Name	Address	Suburb	Activity	Loc Conf	Distance	Direction
6589	SYDNEY WEST AREA HEALTH SERVICE	WESTMEAD HOSPITAL	CNR HAWKESBURY AND DARCY ROAD	WESTMEAD	Hazardous, Industrial or Group A Waste Generation or Storage	Premise Match	292m	North
6867	THE SYDNEY CHILDREN'S HOSPITALS NETWORK (RANDWICK AND WESTMEAD) (INCORPORATING THE ROYAL ALEXANDRA HOSPITAL FOR CHILDREN)	THE CHILDRENS HOSPITAL AT WESTMEAD	CNR HAWKESBURY ROAD & HAINSWORTH STREET	WESTMEAD	Hazardous, Industrial or Group A Waste Generation or Storage	Premise Match	688m	North East

Delicensed Activities Data Source: Environment Protection Authority
© State of New South Wales through the Environment Protection Authority

Former Licensed Activities under the POEO Act 1997, now revoked or surrendered

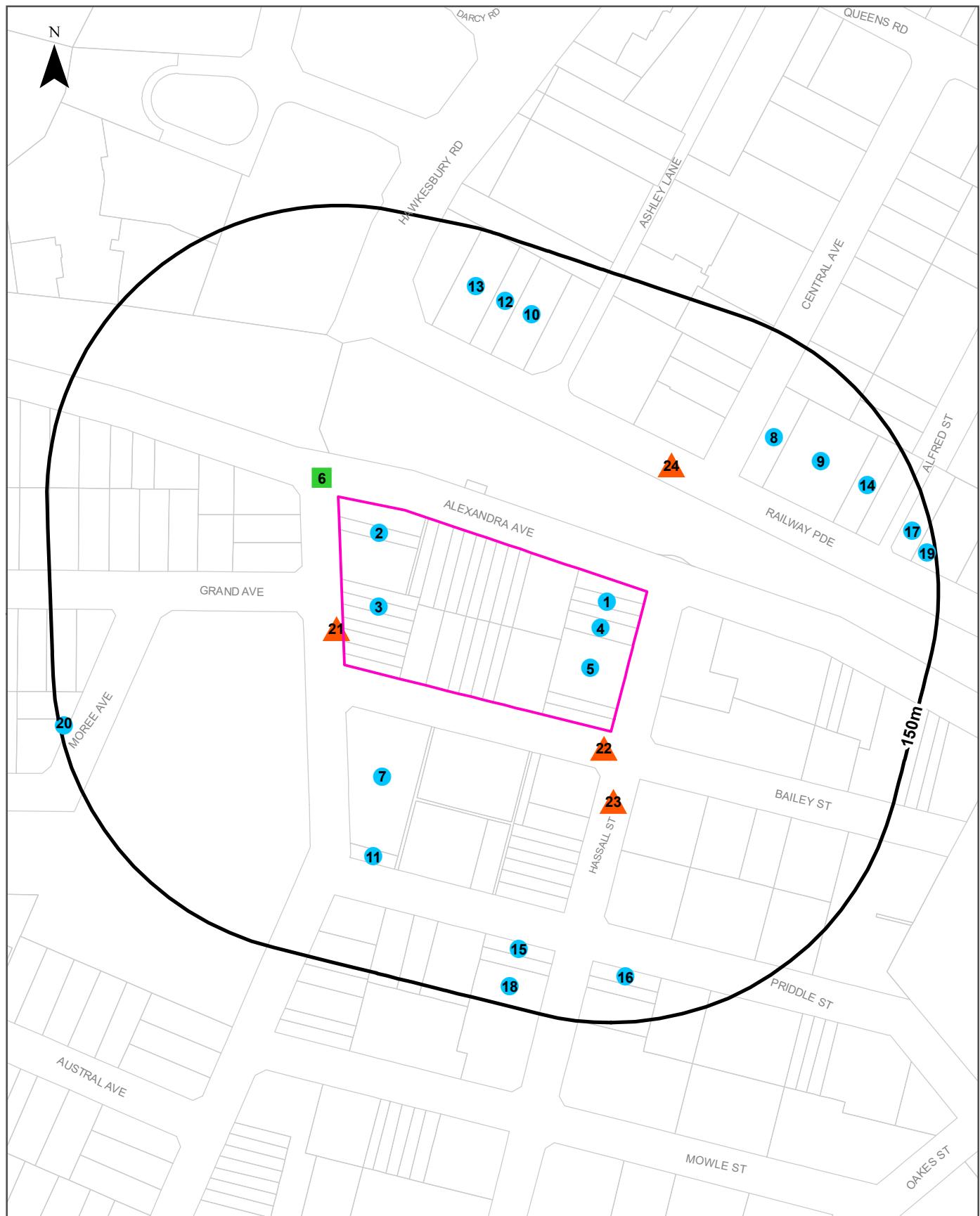
Former Licensed activities under the Protection of the Environment Operations Act 1997, now revoked or surrendered, within the dataset buffer:

Licence No	Organisation	Location	Status	Issued Date	Activity	Loc Conf	Distance	Direction
20762	Laing O'Rourke Australia Construction Pty Ltd	, within the rail corridor between Hawkesbury Rd, Westmead and Marion St, Harris Park, PARRAMATTA, NSW 2150,	Surrendered	19/04/2016	Railway systems activities	Network of Features	20m	East
4653	LUHRMANN ENVIRONMENT MANAGEMENT PTY LTD	WATERWAYS THROUGHOUT NSW	Surrendered	06/09/2000	Other Activities / Non Scheduled Activity - Application of Herbicides	Network of Features	320m	East
4838	Robert Orchard	Various Waterways throughout New South Wales - SYDNEY NSW 2000	Surrendered	07/09/2000	Other Activities / Non Scheduled Activity - Application of Herbicides	Network of Features	320m	East
6630	SYDNEY WEED & PEST MANAGEMENT PTY LTD	WATERWAYS THROUGHOUT NSW - PROSPECT, NSW, 2148	Surrendered	09/11/2000	Other Activities / Non Scheduled Activity - Application of Herbicides	Network of Features	320m	East
4864	PARRAMATTA STADIUM TRUST	O'CONNELL STREET, PARRAMATTA, NSW 2150	Surrendered	26/06/2000	Miscellaneous licensed discharge to waters (wet weather only)	Premise Match	856m	East

Former Licensed Activities Data Source: Environment Protection Authority
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Historical Business Directories

Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145



Legend

- | | |
|---------------------|--|
| ■ Site Boundary | ● Business directory records mapped to a specific premise |
| ■ Buffer 150m | ■ Business directory records mapped to a road intersection |
| ■ Property Boundary | ▲ Business directory records mapped to a road corridor |
| | ■ Business directory records mapped to a general area |

Scale:

0 30 60 90 120
Meters

Coordinate System:
GDA 1994 MGA Zone 56

Date: 10 November 2021

Data Sources: Reproduced with permission of UBD and Hardie Grant Media Pty Ltd DD 01/08/2018

Historical Business Directories

Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145

Business Directory Records 1950-1991 Premise or Road Intersection Matches

Universal Business Directory records from years 1991, 1986, 1982, 1978, 1975, 1970, 1965, 1961 & 1950, mapped to a premise or road intersection within the dataset buffer:

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
1	Motor Garages & Service Stations	Cumberland Automatics, 19 Alexandra Ave, Westmead 2145	53671	1991	Premise Match	0m	On-site
	Motor Garages & Service Stations	Westmead Service Station, Alexandria Ave., Westmead 2145	53994	1991	Premise Match	0m	On-site
	MOTOR GARAGES & SERVICE STATIONS.	Cumberland Automatics, 19 Alexandra Ave, Westmead. 2145	64527	1986	Premise Match	0m	On-site
	MOTOR GARAGES & SERVICE STATIONS.	Westmead Service Station, Alexandria Ave., Westmead. 2145	65703	1986	Premise Match	0m	On-site
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. (M6860)	Cumberland Automatics, 19 Alexandra Ave., Westmead. 2145.	56596	1982	Premise Match	0m	On-site
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. (M6860)	Westmead Service Station, Alexandria Ave., Westmead. 2145.	57836	1982	Premise Match	0m	On-site
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Westmead Service Station, Alexandra Ave., Westmead. 2145	51090	1978	Premise Match	0m	On-site
	MOTOR SERVICE STATIONS - PETROL, OIL	Westmead Service Station, Alexandra Ave., Westmead. 2145	62042	1975	Premise Match	0m	On-site
	MOTOR SERVICE STATIONS-PETROL,OIL,Etc.	Westmead Service Station., Alexandra St., WESTMEAD	341621	1970	Premise Match	0m	On-site
	Motor Accessories - Dealers	Westmead Service Station, Alexandra Ave., Westmead	119687	1965	Premise Match	0m	On-site
	Motor Service Stations - Petrol, Oil, Etc.	Westmead Service Station, Alexandra St. Westmead	126235	1965	Premise Match	0m	On-site
	MOTOR GARAGES & ENGINEERS	Westmead Service Station, Alexander Ave., WESTMEAD	348433	1961	Premise Match	0m	On-site
	MOTOR ACCESSORIES/DEALERS	Westmead Service Station, Alexandra Ave., Westmead	343852	1961	Premise Match	0m	On-site
	MOTOR SERVICE STATIONS—PETROL, OIL, Etc.	Westmead Service Station, Alexandra St., WESTMEAD	351278	1961	Premise Match	0m	On-site
2	BUTCHERS-RETAIL.	Westmead Butchery, 141 Hawkesbury Rd., Westmead.2145	10823	1986	Premise Match	0m	On-site
	BUTCHERS - RETAIL. (B8040)	Westmead Butchery, 141 Hawkesbury Rd., Westmead. 2145.	11802	1982	Premise Match	0m	On-site
	BUTCHERS-RETAIL.	Westmead Butchery. 141 Hawkesbury Rd., Westmead. 2145	10071	1978	Premise Match	0m	On-site
	BUTCHERS-RETAIL	Westmead Butchery, 141 Hawkesbury Rd., Westmead. 2145	11383	1975	Premise Match	0m	On-site
	BUTCHERS-RETAIL (B860)	McNamara, G., 141 Hawkesbury Rd., Westmead	274077	1970	Premise Match	0m	On-site
	Butchers - Retail	McNamara, G., 141 Hawkesbury Rd., Westmead	58789	1965	Premise Match	0m	On-site
	BUTCHERS-RETAIL	McNamara, G., 141 Hawkesbury Rd., Westmead	280763	1961	Premise Match	0m	On-site
3	NURSERYMEN.	Westmead Nursery, 133 Hawkesbury Rd., Westmead. 2145	70109	1986	Premise Match	0m	On-site
	NURSERYMEN (N1700)	Westmead Nursery, 133 Hawkesbury Rd., Westmead. 2145.	61253	1982	Premise Match	0m	On-site
	NURSERYMEN.	Westmead Nursery, 133 Hawkesbury Rd, Westmead 2145	54502	1978	Premise Match	0m	On-site
	NURSERYMEN	Westmead Nursery., 133 Hawkesbury Rd., Westmead. 2145	64320	1975	Premise Match	0m	On-site

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
3	NURSERYMEN (N190)	Hamiltons Display Centre., 135 Hawkesbury Rd., Westmead	344492	1970	Premise Match	0m	On-site
	Nurserymen	Westmead Nursery, 135 Hawkesbury Rd., Westmead	129212	1965	Premise Match	0m	On-site
4	REAL ESTATE AGENTS. (R2555)	Rossiter-Jones & Co., 9 Hassall St., Westmead. 2145.	69663	1982	Premise Match	0m	On-site
	REAL ESTATE AGENTS &/OR VALUERS.	Rossiter-Jones & Co, 9 Hassall St, Westmead. 2145	62203	1978	Premise Match	0m	On-site
	REAL ESTATE AGENTS &/OR VALUERS.	Rossiter. Jones & Co., 9 Hassall St., Westmead. 2145	72915	1975	Premise Match	0m	On-site
	HAIRDRESSERS (GENT.'S) /TOBACCONISTS	Wagner, W., 11 Hassall St., Westmead	322594	1961	Premise Match	0m	On-site
	HAIRDRESSERS (GENT.'S) &/OR TOBACCONISTS	Wagner, W., 11 Hassall St., Westmead	60122	1950	Premise Match	0m	On-site
5	Mixed Businesses	Hassell Street Store, 15 Hassell St., Westmead	117498	1965	Premise Match	0m	On-site
	MIXED BUSINESS	Carpenter, C. G. & E. E., 15 Hassall St., Westmead	340471	1961	Premise Match	0m	On-site
	GROCERS-RETAIL	Duncan, P., 15 Hassall St., Westmead	57188	1950	Premise Match	0m	On-site
	MIXED BUSINESSES & GENERAL STORES	Westmead General Store, 15 Hassan St., Westmead	81243	1950	Premise Match	0m	On-site
6	NEWSAGENTS-GENERAL	Westmead Post Office Store., 145 Hawkesbury Rd., Westmead. 2145	63918	1975	Road Intersection	12m	North West
	NEWSAGENTS (N100)	Auld, G. A. & J. H. (& Toys), 145 Hawkesbury Rd., Westmead	343344	1970	Road Intersection	12m	North West
	Newsagents	Auld, G. A. & J. H. (& Toys), 145 Hawkesbury Rd., Westmead	127987	1965	Road Intersection	12m	North West
	MIXED BUSINESS	Favaloro, C. G., 145 Hawkesbury Rd., Westmead	340868	1961	Road Intersection	12m	North West
7	MIXED BUSINESSES	White, A., 125 Hawkesbury Rd., Westmead. 2145	55842	1975	Premise Match	20m	South West
	MIXED BUSINESSES (M408)	White, A., 125 Hawkesbury Rd., Westmead	334176	1970	Premise Match	20m	South West
	Mixed Businesses	Rollins, J. & M., 125 Hawkesbury Rd., Westmead	118503	1965	Premise Match	20m	South West
8	Real Estate Agents	Martyn Wilde Pty. Ltd., 12 Railway Pde., Westmead 2145	60453	1991	Premise Match	76m	North East
	REAL ESTATE AGENTS.	Martyn Wilde Pty. Ltd., 12 Railway Pde., Westmead. 2145.	79860	1986	Premise Match	76m	North East
	REAL ESTATE AGENTS. (R2555)	Martyn Wilde Pty. Ltd., 12 Railway Pde., Westmead. 2145.	69388	1982	Premise Match	76m	North East
	MIXED BUSINESSES.	Sahyoun. C., 14 Railway Pde., Westmead. 2145	47018	1978	Premise Match	76m	North East
	MIXED BUSINESSES.	All Foods., 14 Railway Pde., Westmead. 2145	54415	1975	Premise Match	76m	North East
	MIXED BUSINESSES (M408)	Holland, W. & B., 14 Railway Pde., Westmead	332870	1970	Premise Match	76m	North East
	Mixed Businesses	Hyland, E. & M., 14 Railway Pde., Westmead	117630	1965	Premise Match	76m	North East
	GROCERS-RETAIL	Bentley, E. and N., 14 Railway Pde., Westmead	56440	1950	Premise Match	76m	North East
9	BEAUTY SALONS &/OR LADIES HAIRDRESSERS.	Shirley, The, 7 Railway Pde., Westmead. 2145	5947	1975	Premise Match	80m	North East
	REAL ESTATE AGENTS/VALUERS(R205)	Martyn Wilde Pty. Ltd., 8 Railway Pde., WESTMEAD	355698	1970	Premise Match	80m	North East
	STOCK/STATION AGENTS (S754)	Martyn, Wilde Pty. Ltd., 8 Railway Pde., Westmead	366082	1970	Premise Match	80m	North East
	DRAPERS-RETAIL (D540)	Owers, C., 8 Railway Pde., Westmead	290548	1970	Premise Match	80m	North East
	BEAUTY SALONS &/OR LADIES' HAIRDRESSERS (B260)	Shirley (The), 7 Railway Pde., Westmead	266635	1970	Premise Match	80m	North East
	Beauty Salons &/or Ladies Hairdressers	"Shirley" (The), 7 Railway Pde., Westmead	51202	1965	Premise Match	80m	North East
	STOCK/STATION AGENTS	Marlyn, Wilde Pty. Ltd., 8 Railway Pde., Westmead	148875	1965	Premise Match	80m	North East

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
9	Real Estate Agents/Valuers	Martyn Wilde Pty. Ltd., 8 Railway Pde., Westmead	139744	1965	Premise Match	80m	North East
	Drapers - Retail	Owers, C., 8 Railway Pde., Westmead	75229	1965	Premise Match	80m	North East
	BEAUTY SALONS & LADIES' HAIRDRESSERS	"Shirley" (The), 7 Railway Pde., Westmead	272193	1961	Premise Match	80m	North East
	DRAPERS-RETAIL	Owers, C., 8 Railway Pde., Westmead	298063	1961	Premise Match	80m	North East
10	REAL ESTATE AGENTS.	Fraser, Pat Real Estate, 24 Railway Pde., Westmead. 2145.	79441	1986	Premise Match	88m	North
	RESTAURANTS.	Trappers, 24 Railway Pde., Westmead. 2145	83063	1986	Premise Match	88m	North
11	HAIRDRESSERS-LADIES &/OR BEAUTY SALONS.	Judy's Hair Corner, 123A Hawkesbury Rd., Westmead. 2145	42514	1986	Premise Match	88m	South West
	BEAUTY SALONS &/OR LADIES HAIRDRESSERS. (B2000)	Judy's Hair Corner, 123A Hawkesbury Rd., Westmead. 2145.	5980	1982	Premise Match	88m	South West
	GROCERS-RETAIL	O'Mara, R. J., 123a Hawkesbury Rd., Westmead. 2145	34094	1978	Premise Match	88m	South West
12	HAIRDRESSERS-LADIES &/OR BEAUTY SALONS.	Andre's Hair Design, Suite 3 Railway Pde. Arcade, Westmead. 2145	41565	1986	Premise Match	90m	North
	MEDICAL PRACTITIONERS.	Farago, R. C., 16 Railway Pde. Arcade, Westmead. 2145.	54761	1986	Premise Match	90m	North
	FRUITERERS &/OR GREENGROCERS.	Fruit Bowl, 11 Railway Pde. Arcade, Westmead. 2145	35964	1986	Premise Match	90m	North
	RESTAURANTS.	Homa Restaurant, 18 Railway Pde. Arcade, Westmead, 2145	81809	1986	Premise Match	90m	North
	TAKE-AWAY FOODS.	Home Restaurant, 18 Railway Pde. Arcade, Westmead. 2145.	90981	1986	Premise Match	90m	North
	BUTCHERS-RETAIL.	Lewis Adam, 2 Railway Pde. Arcade, WestMead. 2145	10191	1986	Premise Match	90m	North
	CHEMISTS-PHARMACEUTICAL.	McBeath, P., 7 Railway Pde. Arcade, Westmead. 2145	14493	1986	Premise Match	90m	North
	BEAUTICIANS.	Monselice Beauty Clinic, 15 Railway Pde Arcade, Westmead. 2145	5800	1986	Premise Match	90m	North
	DENTISTS.	Nash, M., 16 Railway Pde. Arcade, Westmead. 2145	23083	1986	Premise Match	90m	North
	GIFT SHOPS.	Robins Nest, 9 Railway Pde Arcade, Westmead. 2145	39445	1986	Premise Match	90m	North
	NEWSAGENTS.	Robins Nest, 9 Railway Pde. Arcade, Westmead. 2145	69641	1986	Premise Match	90m	North
	GROCERS-RETAIL.	Scoop Food Market, 12 Railway Pde. Arcade, Westmead. 2145	41100	1986	Premise Match	90m	North
	LAUNDRIES &/OR LAUNDRETTES.	Village Washouse, 16 Railway Pde. Arcade, Westmead. 2145	51276	1986	Premise Match	90m	North
	TAKE-AWAY FOODS.	Westmead Foods 2000, 1 Railway Pde, Arcade, Westmead. 2145.	91948	1986	Premise Match	90m	North
	VIDEO RECORDER &/OR CASSETTE SALES &/OR HIRE &/OR SERVICE.	Westmead Video, 4 Railway Pde. Arcade, Westmead. 2145.	97894	1986	Premise Match	90m	North
	BEAUTY SALONS &/OR LADIES HAIRDRESSERS. (B2000)	Andre's Hair Design, Suite 3 Railway St. Arcade, Westmead. 2145.	5184	1982	Premise Match	90m	North
	GROCERS - RETAIL. (G7850)	Bonus Food Market, 12 Railway St. Arcade, Westmead. 2145.	37402	1982	Premise Match	90m	North
	NEWSAGENTS. (N0800)	Bowerbird, 9 Railway St. Arcade, Westmead 2145	60392	1982	Premise Match	90m	North
	GIFT SHOPS. (G3350)	Bowerbird, 9 Railway St. Arcade, Westmead. 2145.	36126	1982	Premise Match	90m	North
	FRUITERERS &/OR GREENGROCERS. (F6775)	Fruit Bowl, 11 Railway St., Arcade, Westmead. 2145.	33544	1982	Premise Match	90m	North
	CAKE SHOPS &/OR PASTRYCOOKS. (C0465)	Joy Patisserie. 3 Railway St. Arcade, Westmead. 2145.	12655	1982	Premise Match	90m	North
	BUTCHERS - RETAIL. (B8040)	Lewis Adam, 2 Railway St. Arcade, Westmead. 2145.	11131	1982	Premise Match	90m	North
	CHEMISTS - PHARMACEUTICAL.(C4110)	McBeath, P., 7 Railway St. Arcade, Westmead. 2145.	15306	1982	Premise Match	90m	North

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
12	DENTISTS. (D1800)	Nash, M., 16 Railway St. Arcade, Westmead. 2145.	20644	1982	Premise Match	90m	North
	TAKE-AWAY FOODS. (T0235)	Westmead Foods, 1 Railway St. Arcade, Westmead. 2145.	78997	1982	Premise Match	90m	North
13	MEDICAL PRACTITIONERS.	Biswas, Nick, 27 Railway Pde., Westmead. 2145	53721	1986	Premise Match	92m	North
	MEDICAL PRACTITIONERS.	Fahay, A. 27 Railway Pde., Westmead. 2145.	54747	1986	Premise Match	92m	North
	MEDICAL PRACTITIONERS.	Kuah, K. B., 27 Railway Pde., Westmead. 2145	55863	1986	Premise Match	92m	North
	MEDICAL PRACTITIONERS.	Poon, C. C. S., 27 Railway Pde., Westmead. 2145	57005	1986	Premise Match	92m	North
	MEDICAL PRACTITIONERS.	Sefton, Anne, 27 Railway Pde., Westmead. 2145	57456	1986	Premise Match	92m	North
	MEDICAL PRACTITIONERS.	Simcock, M. J., 27 Railway Pde., Westmead. 2145	57580	1986	Premise Match	92m	North
	MEDICAL PRACTITIONERS.	Wielebinski, W. M., 27 Railway Pde., Westmead. 2145	58236	1986	Premise Match	92m	North
14	VETERINARY SURGEONS.	Dickens, R. K., 5 Railway Pde., Westmead.2145	73572	1978	Premise Match	102m	East
	VETERINARY SURGEONS.	Dickens, R. K., 5 Railway Pde., Westmead. 2145	86256	1975	Premise Match	102m	East
	VETERINARY SURGEONS (V150)	Dickens, R., 5 Railway Pde., Westmead	372711	1970	Premise Match	102m	East
	Veterinary Surgeons	Dickens, R., 5 Railway Pde., Westmead	155496	1965	Premise Match	102m	East
	VETERINARY SURGEONS	Dickens, R., 5 Railway Pde., Westmead	261065	1961	Premise Match	102m	East
15	ASSOCIATIONS & SOCIETIES (A612)	Westmead United Progress Association., 41 Hassell St., Westmead.	263263	1970	Premise Match	116m	South
16	MIXED BUSINESSES.	Eshman, A. & J., 40 Hassall St., Westmead. 2145	54823	1975	Premise Match	118m	South
	MIXED BUSINESSES (M408)	Eshman, A. & J., 40 Hassall St., Westmead	332574	1970	Premise Match	118m	South
	Mixed Businesses	Eshman, A. & J., 40 Hassall St., Westmead	117212	1965	Premise Match	118m	South
	MIXED BUSINESS	Tyndall, R., 40 Hassall St., Westmead	342621	1961	Premise Match	118m	South
17	Painters Paperhanglers &/or Decorators	Clothier D, 3 Railway Pde., Westmead. 2145	56655	1991	Premise Match	128m	East
	PAINTERS, PAPERHANGERS &/OR DECORATORS.	Clothier, D., 3 Railway Pde., Westmead. 2145	71835	1986	Premise Match	128m	East
	PAINTERS, PAPERHANGERS &/OR DECORATORS. (P0900)	Clothier, D., 3 Railway Pde., Westmead. 2145.	62662	1982	Premise Match	128m	East
18	PLUMBERS, GASFITTERS & DRAINLAYERS	Eason, J. N., 53 Hassell St. WESTMEAD	360122	1961	Premise Match	130m	South
19	BUILDERS & CONTRACTORS- (M.M.B.A.)	Massey, T. H 1 Railway Pde WESTMEAD	277370	1961	Premise Match	137m	East
20	PIANO TUNERS & REPAIRERS	Siddall, C., 1 Moree Ave., Westmead	92547	1950	Premise Match	143m	West

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Business Directory Records 1950-1991 Road or Area Matches

Universal Business Directory records from years 1991, 1986, 1982, 1978, 1975, 1970, 1965, 1961 & 1950, mapped to a road or an area, within the dataset buffer. Records are mapped to the road when a building number is not supplied, cannot be found, or the road has been renumbered since the directory was published:

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
21	Coaster Mfrs &/or Dists	Westmead Printing, Hawkesbury Rd, Westmead 2145	39674	1991	Road Match	0m
	COASTER MFRS. &/OR DISTS.	Westmead Printing, Hawkesbury Rd., Westmead. 2145	19057	1986	Road Match	0m
	PRINTERS - LETTERPRESS.	Westmead Printing, Hawkesbury Rd., Westmead. 2145.	76406	1986	Road Match	0m
	PRINTERS - LITHOGRAPHIC.	Westmead Printing, Hawkesbury Rd., Westmead. 2145.	76958	1986	Road Match	0m
	COASTER MFRS. &/OR DISTS. (C5875)	Westmead Printing, Hawkesbury Rd., Westmead. 2145.	17373	1982	Road Match	0m
	PRINTERS - LETTERPRESS. (P8420)	Westmead Printing, Hawkesbury Rd., Westmead. 2145.	66338	1982	Road Match	0m
	PRINTERS - LITHOGRAPHIC (OFFSET). (P8440)	Westmead Printing, Hawkesbury Rd., Westmead. 2145.	66788	1982	Road Match	0m
	TAKE-AWAY FOODS.	Asarlogou. S., Hawkesbury Rd., Westmead. 2145	69243	1978	Road Match	0m
	NEWSAGENTS-GENERAL.	James T, 8 Hawkesbury Rd, Westmead 2145	53949	1978	Road Match	0m
	GROCERS-RETAIL	Safaris Investments Pty. Ltd., Hawkesbury Rd., Westmead. 2145	34177	1978	Road Match	0m
	HARDWARE DEALERS &/OR IRONMONGERS.	Westmead Handymans Store, Hawkesbury Rd., Westmead. 2145	35005	1978	Road Match	0m
	PRINTERS-LETTERPRESS.	Westmead Printing, Hawkesbury Rd., Westmead. 2145	59273	1978	Road Match	0m
	PRINTERS-LITHOGRAPHIC	Westmead Printing. Hawkesbury Rd., Westmead. 2145	59691	1978	Road Match	0m
	HOMES &/OR INSTITUTIONS.	Westmead Boys' Home., Hawkesbury Rd., Westmead. 2145	42396	1975	Road Match	0m
	HARDWARE DEALERS &/OR IRONMONGERS.	Westmead Hardware, Hawkesbury Rd., Westmead. 2145	41380	1975	Road Match	0m
	PRINTERS-LETTERPRESS.	Westmead Printing., Hawkesbury Rd., Westmead. 2145	69725	1975	Road Match	0m
	PRINTERS-LITHOGRAPHIC (OFFSET).	Westmead Printing., Hawkesbury Rd., Westmead. 2145	70135	1975	Road Match	0m
	HOMES & INSTITUTIONS (H490)	Westmead Boys' Home., Hawkesbury Rd., Westmead	316659	1970	Road Match	0m
	HARDWARE DEALERS/IRONMONGERS (H230)	Westmead Hardware, No. 6, Shopping Centre., Hawkesbury Rd., WESTMEAD	315369	1970	Road Match	0m
	PRINTERS-LITHOGRAPHIC (OFFSET)(P810)	Westmead Printing, Hawkesbury Rd., Westmead. 2145	352765	1970	Road Match	0m
	PRINTERS-LETTERPRESS (P806)	Westmead Printing., Hawkesbury Rd., Westmead, 2145	352416	1970	Road Match	0m
	Homes & Institutions	Westmead Boys' Home, Hawkesbury Rd., Westmead	100632	1965	Road Match	0m
	Hardware Dealers &/or Iron Mongers	Westmead Hardware, No. 6, Shopping Centre, Hawkesbury Rd. Westmead	99513	1965	Road Match	0m
	DRAPERS-RETAIL	Brierley, A. L., Hawkesbury Rd., Westmead	297782	1961	Road Match	0m
	BUTCHERS-RETAIL	Carr, J., Hawkesbury Rd., Westmead	280013	1961	Road Match	0m
	GROCERS-RETAIL	Cochrane, C. J., Hawkesbury Rd., Westmead	320282	1961	Road Match	0m
	DENTISTS	Crlchton, G., Hawkesbury Rd., Westmead	295822	1961	Road Match	0m

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
21	MILK, FRUIT JUICE BARS/CONFECTIONERS	Farquharson, W. B., Hawkesbury Rd., Westmead	339063	1961	Road Match	0m
	TOY DEALERS-RETAIL	Farquharson, W. B., Hawkesbury Rd., Westmead	258493	1961	Road Match	0m
	HAIRDRESSERS (GENT.'S) /TOBACCONISTS	Hicks, S., Hawkesbury Rd., Westmead	322132	1961	Road Match	0m
	DELICATESSENS	Hogan, W., Hawkesbury Rd., Westmead	294901	1961	Road Match	0m
	CAKE SHOPS & PASTRYCOOKS	Marsh's Cakes., Hawkesbury Rd., Westmead	283148	1961	Road Match	0m
	ACCOUNTANTS & AUDITORS	Murphy, C. F., Hawkesbury Rd., Westmead	265467	1961	Road Match	0m
	ELECTRICAL SUPPLIES/APPLIANCES RETAILERS	Pacific Electric Co., Hawkesbury Rd., Westmead	303327	1961	Road Match	0m
	ENGINEERS-ELECTRICAL	Pacific Electric Co., Hawkesbury Rd., Westmead'	305561	1961	Road Match	0m
	FRUITERERS/GREENGROCERS	Phil's, Hawkesbury Rd., Westmead	315986	1961	Road Match	0m
	CHEMISTS-PHARMACEUTICAL	Richardson, J. W., Hawkesbury Rd., Westmead	288042	1961	Road Match	0m
	ELECTRICAL CONTRACTORS-LICENSED	Samson, J., Hawkesbury Rd., WESTMEAD	302482	1961	Road Match	0m
	MIXED BUSINESS	Serbutt, I., Hawkesbury Rd., Westmead	342349	1961	Road Match	0m
	HOMES & INSTITUTIONS	Westmead Boys' Home, Hawkesbury Rd., Westmead	324541	1961	Road Match	0m
	HARDWARE DEALERS/IRONMONGERS	Westmead Hardware, No. 6, Shopping Centre, Hawkesbury Rd. WESTMEAD	323571	1961	Road Match	0m
	BEAUTY SALONS &/OR LADIES' HAIRDRESSERS	"Marilyn", Hawkesbury Rd., Westmead	6760	1950	Road Match	0m
	MIXED BUSINESSES & GENERAL STORES	"Phil's", Hawkesbury Rd., Westmead	79216	1950	Road Match	0m
	MEDICAL PRACTITIONERS	Aitkens, G. N. M., Hawkesbury Rd., Westmead	72311	1950	Road Match	0m
	CARRIERS & CARTAGE CONTRACTORS	Bourchier, W. and G. Hawkesbury Rd., Westmead	18452	1950	Road Match	0m
	DRAPERS-RETAIL	Brierley, A. L., Hawkesbury Rd., Westmead	33537	1950	Road Match	0m
	BUTCHERS-RETAIL	Carr, J., Hawkesbury Rd., Westmead	13254	1950	Road Match	0m
	GROCERS-RETAIL	Cochrane, T. J., Hawkesbury Rd., Westmead	56884	1950	Road Match	0m
	DELICATESSENS & SMALLGOODS DEALERS	Johnstone, E. R., 132 Hawkesbury Rd., Westmead	30702	1950	Road Match	0m
	CAKE SHOPS & PASTRYCOOKS	Marche's, Hawkesbury Rd., Westmead	16920	1950	Road Match	0m
	HARDWARE DEALERS &/OR IRONMONGERS	McLeary, R. L., Hawkesbury Rd., Westmead	61228	1950	Road Match	0m
	ELECTRICAL CONTRACTORS &/OR ELECTRICIANS	Pacific Electric Co., Hawkesbury Rd., Westmead	37790	1950	Road Match	0m
	ELECTRICAL ENGINEERS	Pacific Electric Co., Hawkesbury Rd., Westmead	38180	1950	Road Match	0m
	ELECTRICAL SUPPLIES & APPLIANCES RETAILERS	Pacific Electric Co., Hawkesbury Rd., Westmead	38695	1950	Road Match	0m
	RADIO SALES &/OR SERVICEMEN	Pacific Electric Co., Hawkesbury Rd., Westmead	97489	1950	Road Match	0m
	DELICATESSENS & SMALLGOODS DEALERS	Premier (The), Hawkesbury Rd., Westmead	31058	1950	Road Match	0m
	CHEMISTS-PHARMACEUTICAL	Richardson, J. W., Hawkesbury Rd., Westmead	21977	1950	Road Match	0m
	CHIROPODISTS	Richardson, J. W., Hawkesbury Rd., Westmead	22704	1950	Road Match	0m
	MIXED BUSINESSES & GENERAL STORES	Serbutt, I., Hawkesbury Rd. Westmead	80957	1950	Road Match	0m
	BUTCHERS-RETAIL	Towers, J., Hawkesbury Rd., .Westmead	14439	1950	Road Match	0m
22	MOTOR GARAGES & ENGINEERS	Mason, C. F., Bailey St. WESTMEAD	347658	1961	Road Match	0m

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
22	MOTOR GARAGES &/OR ENGINEERS	Mason, C. F., Bailey St., Westmead	84051	1950	Road Match	0m
23	MIXED BUSINESSES & GENERAL STORES	Kelly, T. G., Hassan St., Westmead	80300	1950	Road Match	0m
24	RESTAURANTS. (R5180)	Trappers, Railway Pde., Westmead. 2145	71845	1982	Road Match	55m
	GROCERS-RETAIL (G655)	Jones, G. & C., Railway Pde., Westmead	312629	1970	Road Match	55m
	Grocers - Retail	Jones, G. & C., Railway Pde., Westmead	96704	1965	Road Match	55m
	GROCERS-RETAIL	Jones, G. & C., Railway Pde., Westmead	320708	1961	Road Match	55m
	MERCERS & GENT'S OUTFITTERS	Ower, C. W., Railway St., Westmead	74555	1950	Road Match	55m
	DRAPERS-RETAIL	Owers, C. W., Railway St., Westmead	33894	1950	Road Match	55m
	BOOT & SHOE REPAIRERS	Sutton, T. C., Railway St., Westmead	10684	1950	Road Match	55m

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Dry Cleaners, Motor Garages & Service Stations

Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145



Legend

 Site Boundary

 Buffer 500m

 Property Boundary

● Business directory records mapped to a specific premise

■ Business directory records mapped to a road intersection

▲ Business directory records mapped to a road corridor

 Business directory records mapped to a general area

Scale:

0 90 180 270 360
Meters

Coordinate System:
GDA 1994 MGA Zone 56

Date: 10 November 2021

Data Sources: Reproduced with permission of UBD and Hardie Grant Media Pty Ltd DD 01/08/2018

Historical Business Directories

Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145

Dry Cleaners, Motor Garages & Service Stations 1948-1993 Premise or Road Intersection Matches

Dry Cleaners, Motor Garages & Service Stations from UBD Business Directories, mapped to a premise or road intersection, within the dataset buffer.

Note: The Universal Business Directories were published between 1948 and 1993. Dry Cleaners, Motor Garages & Service Stations have been extracted from all of these directories except the following years 1951, 1955, 1957, 1960, 1963, 1973, 1974, 1977, 1987.

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
1	MOTOR GARAGES & SERVICE STATIONS.	Cumberland Automatics, 19 Alexandra Av., Westmead. 2145	18887	1993	Premise Match	0m	On-site
	MOTOR GARAGES & SERVICE STATIONS.	Westmead Service Station, Alexandria Av., Westmead. 2145	25536	1993	Premise Match	0m	On-site
	Motor Garages & Service Stations	Cumberland Automatics, 19 Alexandra Ave, Westmead 2145	53671	1991	Premise Match	0m	On-site
	Motor Garages & Service Stations	Westmead Service Station, Alexandria Ave., Westmead 2145	53994	1991	Premise Match	0m	On-site
	MOTOR GARAGES & SERVICE STATIONS.	Cumberland Automatics, 19 Alexandra Ave., Westmead. 2145	11476	1990	Premise Match	0m	On-site
	MOTOR GARAGES & SERVICE STATIONS.	Westmead Service Station, Alexandria Ave., Westmead. 2145	18393	1990	Premise Match	0m	On-site
	MOTOR GARAGE & SERVICE STATIONS.	Cumberland Automatics., 19 Alexandra Ave., Westmead. 2145	64927	1989	Premise Match	0m	On-site
	MOTOR GARAGE & SERVICE STATIONS.	Westmead Service Station, Alexandria Ave., Westmead. 2145	5729	1989	Premise Match	0m	On-site
	MOTOR GARAGES & SERVICE STATIONS.	Cumberland Automatics, 19 Alexandra Ave., Westmead. 2145	59134	1988	Premise Match	0m	On-site
	MOTOR GARAGES & SERVICE STATIONS.	Westmead Service Station, Alexandria Ave., Westmead. 2145	64206	1988	Premise Match	0m	On-site
	MOTOR GARAGES & SERVICE STATIONS.	Cumberland Automatics, 19 Alexandra Ave., Westmead. 2145	64527	1986	Premise Match	0m	On-site
	MOTOR GARAGES & SERVICE STATIONS.	Westmead Service Station, Alexandria Ave., Westmead. 2145	65703	1986	Premise Match	0m	On-site
	MOTOR GARAGES & SERVICE STATIONS.	Cumberland Automatics., 19 Alexandra Ave., Westmead. 2145	39528	1985	Premise Match	0m	On-site
	MOTOR GARAGES & SERVICE STATIONS.	Westmead Service Station, Alexandria Ave., Westmead. 2145	45829	1985	Premise Match	0m	On-site
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Cumberland Automatics, 19 Alexandra Ave., Westmead. 2145	28111	1984	Premise Match	0m	On-site
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Westmead Service Station, Alexandria Ave., Westmead. 2145	34388	1984	Premise Match	0m	On-site
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Cumberland Automatics., 19 Alexandra Ave., Westmead. 2145	14534	1983	Premise Match	0m	On-site
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Westmead Service Station., Alexandria Ave., Westmead 2145	21833	1983	Premise Match	0m	On-site
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. (M6860)	Cumberland Automatics, 19 Alexandra Ave., Westmead. 2145.	56596	1982	Premise Match	0m	On-site

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
1	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. (M6860)	Westmead Service Station, Alexandria Ave., Westmead. 2145.	57836	1982	Premise Match	0m	On-site
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Cumberland Automatics., 19 Alexandra Ave., Westmead. 2145.	3151	1981	Premise Match	0m	On-site
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Westmead Service Station., Alexandria Ave., Westmead 2145	8415	1981	Premise Match	0m	On-site
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Cumberland Automatics., 19 Alexandra Ave., Westmead. 2145	52794	1980	Premise Match	0m	On-site
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Westmead Service Station., Alexandria Ave., Westmead. 2145	63169	1980	Premise Match	0m	On-site
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Cumberland Automatics., 19 Alexandra Ave., Westmead. 2145.	41342	1979	Premise Match	0m	On-site
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Westmead Service Station., Alexandria Ave., Westmead. 2145.	46603	1979	Premise Match	0m	On-site
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Westmead Service Station, Alexandra Ave., Westmead. 2145	51090	1978	Premise Match	0m	On-site
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Westmead Service Station., Alexandra Ave., Westmead 2145	35197	1976	Premise Match	0m	On-site
	MOTOR SERVICE STATIONS - PETROL, OIL	Westmead Service Station, Alexandra Ave., Westmead. 2145	62042	1975	Premise Match	0m	On-site
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Westmead Service Station., 19 Alexandra St Westmead	18277	1972	Premise Match	0m	On-site
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Westmead Service Station., Alexandra St Westmead	2690	1971	Premise Match	0m	On-site
	MOTOR SERVICE STATIONS-PETROL,OIL,Etc.	Westmead Service Station., Alexandra St., WESTMEAD	341621	1970	Premise Match	0m	On-site
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Westmead Service Station., Alexandra St Westmead	50867	1969	Premise Match	0m	On-site
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Westmead Service Station., Alexandra St Westmead	36949	1968	Premise Match	0m	On-site
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Westmead Service Station., Alexandra St Westmead	20412	1967	Premise Match	0m	On-site
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Westmead Service Station, Alexandra St., Westmead	1915	1966	Premise Match	0m	On-site
	Motor Service Stations - Petrol, Oil, Etc.	Westmead Service Station, Alexandra St. Westmead	126235	1965	Premise Match	0m	On-site
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Westmead Service Station., Alexandra St Westmead	52495	1964	Premise Match	0m	On-site
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Westmead Service Station., Alexandra St Westmead	42872	1962	Premise Match	0m	On-site
	MOTOR GARAGES & ENGINEERS	Westmead Service Station, Alexander Ave., WESTMEAD	348433	1961	Premise Match	0m	On-site

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
1	MOTOR SERVICE STATIONS—PETROL, OIL, Etc.	Westmead Service Station, Alexandra St., WESTMEAD	351278	1961	Premise Match	0m	On-site
	MOTOR GARAGES & ENGINEERS.	Westmead Service Station., Alexander Ave Westmead	20113	1959	Premise Match	0m	On-site
	MOTOR SERVICE STATIONS—PETROL., OIL, ETC.	Westmead Service Station., Alexandra St Westmead	24646	1959	Premise Match	0m	On-site
	MOTOR GARAGES & ENGINEERS.	Westmead Service Station., Alexandria Ave Westmead	20101	1959	Premise Match	0m	On-site
	MOTOR GARAGE/ENGINEERS.	Westmead Service Station., Alexander Ave., Westmead	9280	1958	Premise Match	0m	On-site
	MOTOR SERVICE STATIONS—PETROL, ETC.	Westmead Service Station., Alexandra St Westmead	9912	1958	Premise Match	0m	On-site
	MOTOR GARAGES &/OR ENGINEERS.	Westmead Service Station., Alexander Ave Westmead	61688	1956	Premise Match	0m	On-site
	MOTOR SERVICE STATIONS—PETROL, ETC.	Westmead Service Station., Alexandra St Westmead	102	1956	Premise Match	0m	On-site
	MOTOR GARAGES &/OR ENGINEERS.	Westmead Service Station., Alexander Ave Westmead	54309	1954	Premise Match	0m	On-site
	MOTOR SERVICE STATIONS—PETROL, ETC.	Westmead Service Station., Alexandra St Westmead	54736	1954	Premise Match	0m	On-site
2	MOTOR GARAGES & SERVICE STATIONS.	BP Westmead Service Station, 101 Hawkesbury Rd., Westmead. 2145	18706	1993	Premise Match	212m	South
	Motor Garages & Service Stations	BP Westmead Service Station, 101 Hawkesbury Rd, Westmead 2145	66584	1991	Premise Match	212m	South
	MOTOR GARAGES & SERVICE STATIONS.	BP Westmead Service Station, 101 Hawkesbury Rd., Westmead. 2145	11226	1990	Premise Match	212m	South
	MOTOR GARAGE & SERVICE STATIONS.	BP Westmead Service Station, 101 Hawkesbury Rd., Westmead. 2145	64660	1989	Premise Match	212m	South
	MOTOR GARAGES & SERVICE STATIONS.	BP Westmead Service Station, 101 Hawkesbury Rd., Westmead. 2145	53783	1988	Premise Match	212m	South
	MOTOR GARAGES & SERVICE STATIONS.	BP Westmead Service Station, 101 Hawkesbury Rd., Westmead. 2145	64252	1986	Premise Match	212m	South
	MOTOR GARAGES & SERVICE STATIONS.	BP Westmead Service Station, 101 Hawkesbury Rd, Westmead.2145	65814	1985	Premise Match	212m	South
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	BP Westmead Service Station, 101 Hawkesbury Rd., Westmead. 2145	27863	1984	Premise Match	212m	South
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	BP Westmead Service Station, 101 Hawkesbury Rd., Westmead. 2145	65755	1983	Premise Match	212m	South
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. (M6860)	BP Westmead Service Station, 101 Hawkesbury Rd., Westmead. 2145.	56325	1982	Premise Match	212m	South
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	BP Westmead Service Station., 101 Hawkesbury Rd., Westmead. 2145	64005	1981	Premise Match	212m	South
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	BP Westmead Service Station., 101 Hawkesbury Rd., Westmead. 2145	51510	1980	Premise Match	212m	South
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	BP Westmead Service Station., 101 Hawkesbury Rd., Westmead. 2145.	41112	1979	Premise Match	212m	South

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
2	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	BP Westmead Service Station, 101 Hawkesbury Rd., Westmead. 2145	49647	1978	Premise Match	212m	South
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	BP Austral Service Station., 101 Hawkesbury Rd., Westmead 2145	25214	1976	Premise Match	212m	South
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	BP Westmead Service Station., 101 Hawkesbury Rd., Westmead 2145	25366	1976	Premise Match	212m	South
	MOTOR SERVICE STATIONS - PETROL, OIL	BP Austral Service Station., 101 Hawkesbury Rd., Westmead. 2145	61469	1975	Premise Match	212m	South
	MOTOR GARAGES &/OR ENGINEERS.	BP Westmead Service Station., 101 Hawkesbury Rd., Westmead. 2145	58562	1975	Premise Match	212m	South
	MOTOR GARAGES &/OR ENGINEERS.	BP Austral Service Station., 101 Hawkesbury Rd Westmead	16265	1972	Premise Match	212m	South
	MOTOR GARAGES &/OR ENGINEERS.	BP Austral Service Station., 101 Hawkesbury Rd Westmead	62863	1971	Premise Match	212m	South
	MOTOR GARAGES & ENGINEERS(M6S6)	BP Austral Service Station., 101 Hawkesbury Rd., WESTMEAD	337357	1970	Premise Match	212m	South
	MOTOR GARAGES & ENGINEERS.	BP Austral Service Station., 101 Hawkesbury Rd Westmead	47313	1969	Premise Match	212m	South
	MOTOR GARAGES & ENGINEERS	BP Austral Service Station., 101 Hawkesbury Rd Westmead	30738	1968	Premise Match	212m	South
	MOTOR GARAGES & ENGINEERS.	Austral Service Station Ltd., 101 Hawkesbury Rd Westmead	33593	1962	Premise Match	212m	South
	MOTOR GARAGES & ENGINEERS	Austral Service Station Ltd., 101 Hawkesbury Rd. WESTMEAD	346559	1961	Premise Match	212m	South
	MOTOR GARAGES & ENGINEERS.	Austral Service Station Ltd., 101 Hawkesbury Rd Westmead	20102	1959	Premise Match	212m	South
3	MOTOR GARAGES & SERVICE STATIONS.	Ampol Westmead Service Station, 69 Hawkesbury Rd., Westmead. 2145	18538	1993	Premise Match	429m	South
	Motor Garages & Service Stations	Ampol Westmead Service Station, 69 Hawkesbury Rd, Westmead 2145	53506	1991	Premise Match	429m	South
	MOTOR GARAGES & SERVICE STATIONS.	Ampol Westmead Service Station, 69 Hawkesbury Rd., Westmead. 2145	5919	1990	Premise Match	429m	South
	MOTOR GARAGE & SERVICE STATIONS.	Ampol Westmead Service Station, 69 Hawkesbury Rd., Westmead. 2145	64409	1989	Premise Match	429m	South
	MOTOR GARAGES & SERVICE STATIONS.	Ampol Westmead Service Station, 69 Hawkesbury Rd., Westmead. 2145	53512	1988	Premise Match	429m	South
	MOTOR GARAGES & SERVICE STATIONS.	Ampol Westmead Service Station, 69 Hawkesbury Rd., Westmead. 2145	63961	1986	Premise Match	429m	South
	MOTOR GARAGES & SERVICE STATIONS.	Ampol Westmead Service Station, 69 Hawkesbury Rd., Westmead. 2145	38982	1985	Premise Match	429m	South
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Ampol Westmead Service Station, 69 Hawkesbury Rd., Westmead. 2145	27592	1984	Premise Match	429m	South
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Ampol Westmead Service Station., 69 Hawkesbury Rd., Westmead 2145	8951	1983	Premise Match	429m	South
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. (M6860)	Ampol Westmead Service Station, 69 Hawkesbury Rd., Westmead. 2145.	56036	1982	Premise Match	429m	South
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Ampol Westmead Service Station., 69 Hawkesbury Rd., Westmead. 2145	63707	1981	Premise Match	429m	South
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Ampol Westmead Service Station., 69 Hawkesbury Rd., Westmead. 2145	50180	1980	Premise Match	429m	South

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
3	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Ampol Service Station., 69 Hawkesbury Rd., Westmead. 2145.	35705	1979	Premise Match	429m	South
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Ampol Service Station, 69 Hawkesbury Rd., Westmead. 2145	49305	1978	Premise Match	429m	South
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Ampol Service Station., 69 Hawkesbury Rd., Westmead 2145	25020	1976	Premise Match	429m	South
	MOTOR GARAGES &/OR ENGINEERS.	Ampol Service Station., 69 Hawkesbury Rd., Westmead. 2145	58366	1975	Premise Match	429m	South
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Ampol Service Station., 69 Hawkesbury Rd Westmead	18271	1972	Premise Match	429m	South
	MOTOR GARAGES &/OR ENGINEERS.	Mason B., 69 Hawkesbury Rd Westmead	16267	1972	Premise Match	429m	South
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Ampol Service Sution., 69 Hawkesbury Rd Westmead	2684	1971	Premise Match	429m	South
	MOTOR GARAGES &/OR ENGINEERS.	Mason B., 69 Hawkesbury Rd Westmead	62865	1971	Premise Match	429m	South
	MOTOR SERVICE STATIONS-PETROL, PETROL,OIL,Etc.	Ampol Service Station., 69 Hawkesbury Rd., WESTMEAD	340770	1970	Premise Match	429m	South
	MOTOR GARAGES & ENGINEERS(M6S6)	Mason, B., 69 Hawkesbury Rd., WESTMEAD	338218	1970	Premise Match	429m	South
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Ampol Service Station., 69 Hawkesbury Rd Westmead	50863	1969	Premise Match	429m	South
	MOTOR GARAGES & ENGINEERS.	Mason B., 69 Hawkesbury Rd Westmead	47315	1969	Premise Match	429m	South
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Ampol Service Station., 69 Hawkesbury Rd Westmead	36946	1968	Premise Match	429m	South
	MOTOR GARAGES & ENGINEERS	Mason B., 69 Hawkesbury Rd Westmead	30740	1968	Premise Match	429m	South
4	MOTOR GARAGES & ENGINEERS.	Community Service Centre., Cnr Ralph St & Hawkesbury Rd Westmead	33595	1962	Road Intersection	484m	South West
	MOTOR GARAGES & ENGINEERS	Community Service Centre, Cnr. Ralph St. & Hawkesbury Rd. WESTMEAD	346926	1961	Road Intersection	484m	South West
	MOTOR GARAGES & ENGINEERS.	Community Service Centre., Cnr Ralph St & Hawkesbury Rd Westmead	20104	1959	Road Intersection	484m	South West
	MOTOR GARAGE/ENGINEERS.	Community Service Centre., Cnr Ralph & Hawkesbury Rd Westmead	863	1958	Road Intersection	484m	South West

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Dry Cleaners, Motor Garages & Service Stations 1948-1993 Road or Area Matches

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

Note: The Universal Business Directories were published between 1948 and 1993. Dry Cleaners, Motor Garages & Service Stations have been extracted from all of these directories except the following years 1951, 1955, 1957, 1960, 1963, 1973, 1974, 1977, 1987.

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
5	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	BP Austral., Hawkesbury Rd Westmead	18272	1972	Road Match	0m
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	BP Austral., Hawkesbury Rd Westmead	2685	1971	Road Match	0m
6	MOTOR GARAGES & ENGINEERS.	Mason C. F., Bailey St Westmead	33599	1962	Road Match	0m
	MOTOR GARAGES & ENGINEERS	Mason, C. F., Bailey St. WESTMEAD	347658	1961	Road Match	0m
	MOTOR GARAGES & ENGINEERS.	Mason C. F., Bailey St Westmead	20108	1959	Road Match	0m
	MOTOR GARAGE/ENGINEERS.	Mason C. F., Bailey St Westmead	4565	1958	Road Match	0m
	MOTOR GARAGES & OR ENGINEERS.	Mason, C.F., Bailey St., Westmead	65284	1954	Road Match	0m
	MOTOR GARAGES & OR ENGINEERS.	Mason C F., Bailey St., Westmead	40354	1953	Road Match	0m
	MOTOR GARAGES & OR ENGINEERS.	Mason C. F., Bailey St Westmead	31945	1952	Road Match	0m
	MOTOR GARAGES & OR ENGINEERS	Mason, C. F., Bailey St., Westmead	84051	1950	Road Match	0m

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Aerial Imagery 2021

Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145



Scale:

0 30 60 90 120
Meters

Data Source Aerial Imagery:
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Coordinate System:
GDA 1994 MGA Zone 56

Date: 10 November 2021

Aerial Imagery 2016

Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145



Scale:

0 30 60 90 120
Meters

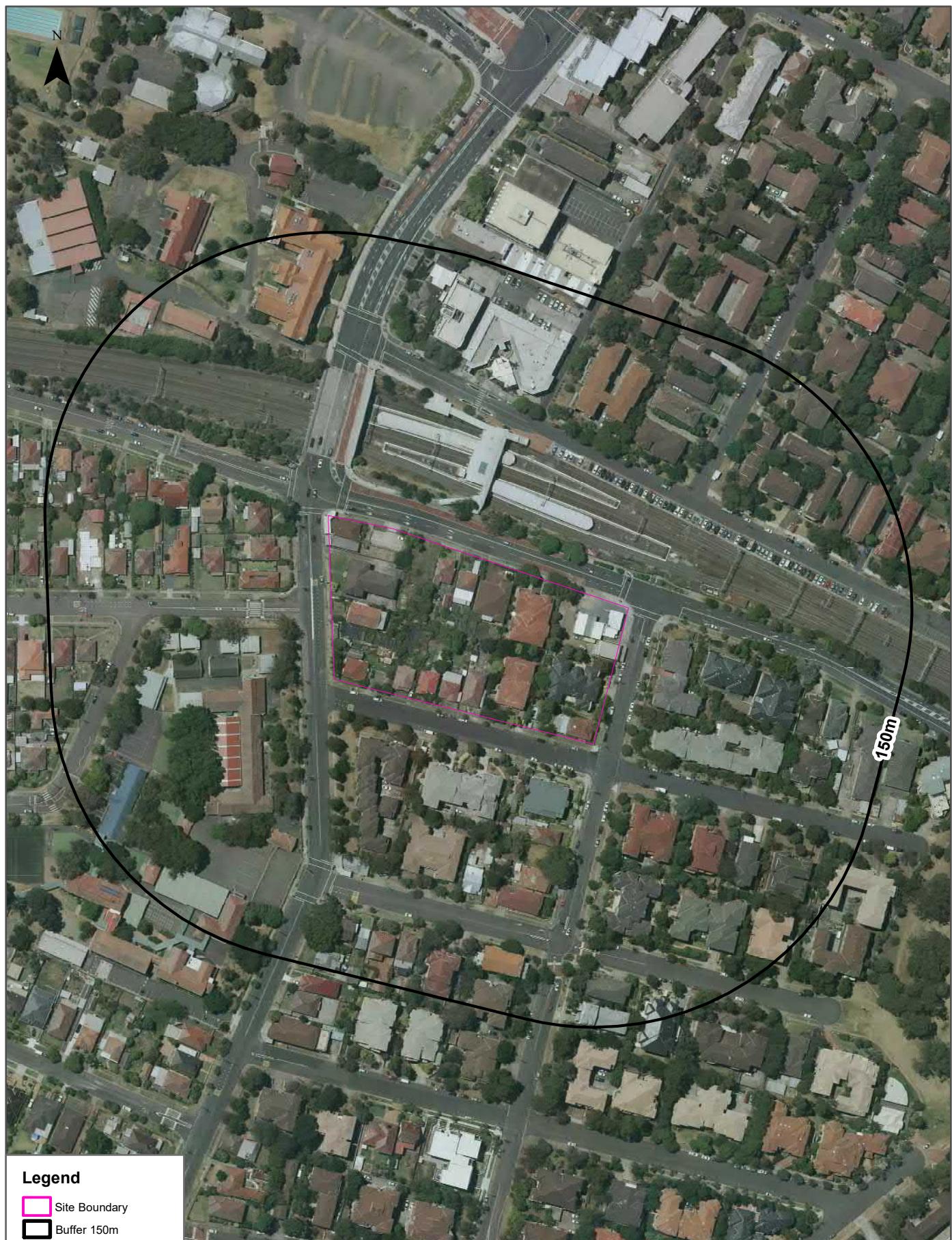
Data Source Aerial Imagery:
© Aerometrex Pty Ltd

Coordinate System:
GDA 1994 MGA Zone 56

Date: 10 November 2021

Aerial Imagery 2011

Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145



Scale:

0 30 60 90 120
Meters

Data Source Aerial Imagery:
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Coordinate System:
GDA 1994 MGA Zone 56

Date: 10 November 2021

Aerial Imagery 2005

Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145



Aerial Imagery 2000

Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145



Scale:
0 30 60 90 120
Meters

Data Source Aerial Imagery:
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Date: 10 November 2021

Aerial Imagery 1994

Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145



Aerial Imagery 1991

Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145



Scale:

0 30 60 90 120
Meters

Data Sources: Aerial Imagery:
© NSW Department of Customer Service

Coordinate System:
GDA 1994 MGA Zone 56

Date: 10 November 2021

Aerial Imagery 1986

Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145



Aerial Imagery 1982

Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145



Scale:

0 30 60 90 120
Meters

Data Sources: Aerial Imagery:
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Coordinate System:
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Date: 10 November 2021

Aerial Imagery 1978

Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145



Aerial Imagery 1970

Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145



Scale:

0 30 60 90 120
Meters

Data Sources: Aerial Imagery:
© NSW Department of Customer Service

Coordinate System:
GDA 1994 MGA Zone 56

Date: 10 November 2021

Aerial Imagery 1965

Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145



Scale: 0 30 60 90 120 Meters	Data Source Aerial Imagery: © NSW Department of Customer Service	Coordinate System: GDA 1994 MGA Zone 56	Date: 08 November 2021
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Aerial Imagery 1961

Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145



Scale:
0 30 60 90 120
Meters

Data Sources: Aerial Imagery:
© NSW Department of Customer Service

Coordinate System:
GDA 1994 MGA Zone 56

Date: 10 November 2021

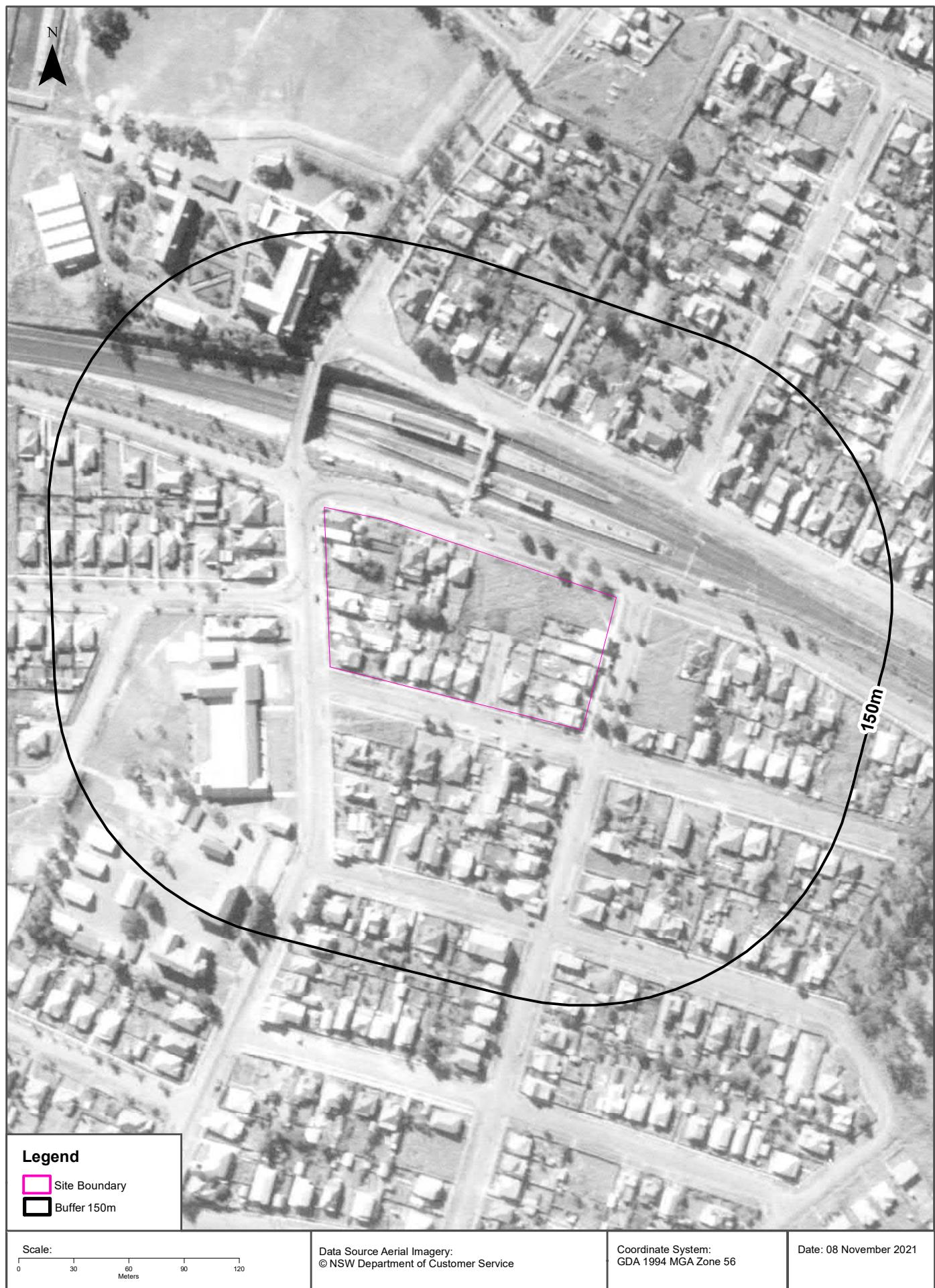
Aerial Imagery 1955, 1956

Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145



Aerial Imagery 1951

Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145



Aerial Imagery 1943

Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145



Aerial Imagery 1930

Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145



Scale:
0 30 60 90 120
Meters

Data Sources: Aerial Imagery:
© Geoscience Australia

Coordinate System:
GDA 1994 MGA Zone 56

Date: 10 November 2021

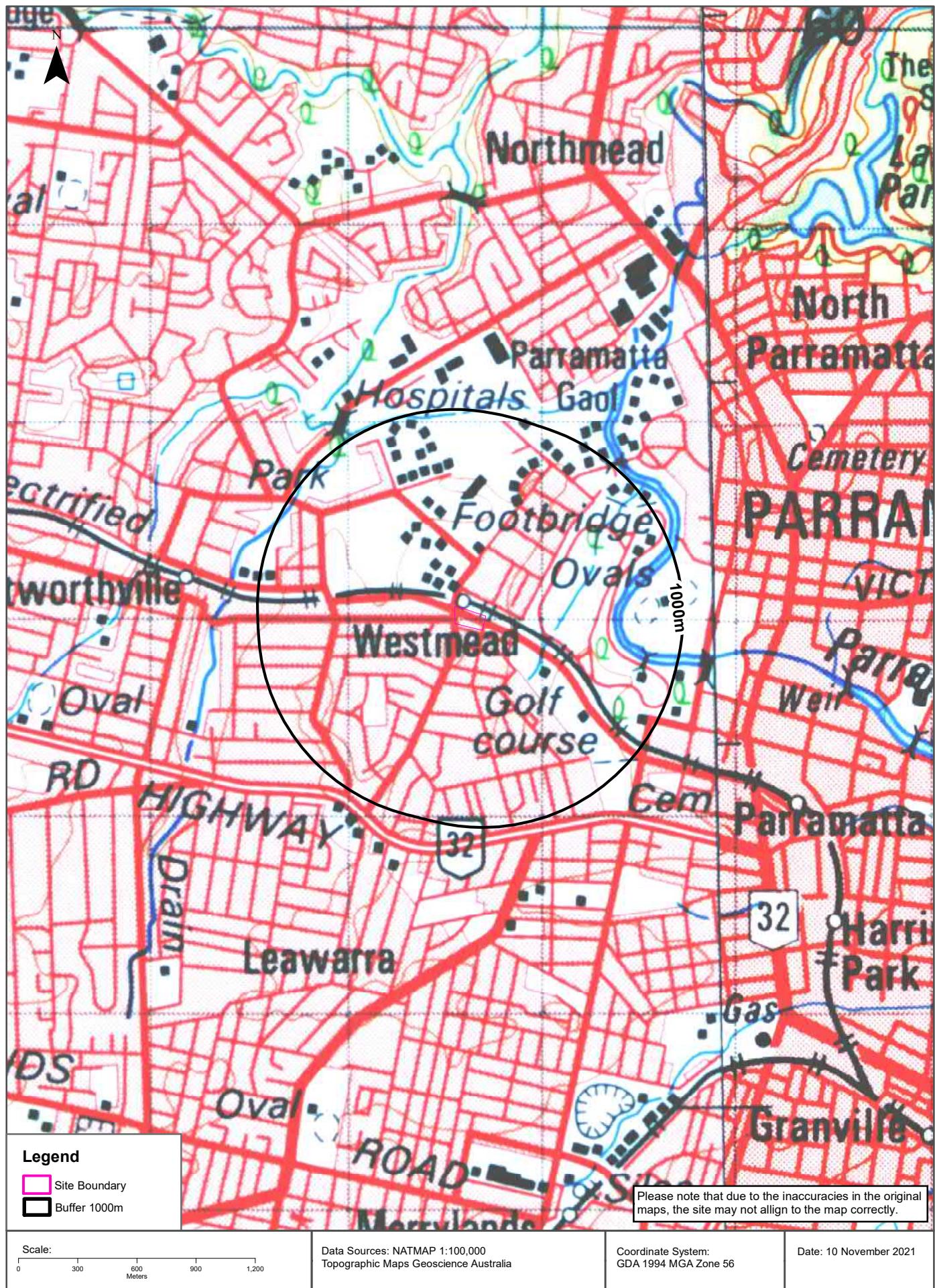
Topographic Map 2015

Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145



Historical Map 1975

Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145



Legend

- Site Boundary
- Buffer 1000m

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

Scale:

0 300 600 900 1,200
Meters

Data Sources: NATMAP 1:100,000
Topographic Maps Geoscience Australia

Coordinate System:
GDA 1994 MGA Zone 56

Date: 10 November 2021

Historical Map 1936 - 1942

Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145



Historical Map 1917 - 1929

Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145



Legend

- Site Boundary
- Buffer 1000m

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

Scale:

0 300 600 900 1,200
Meters

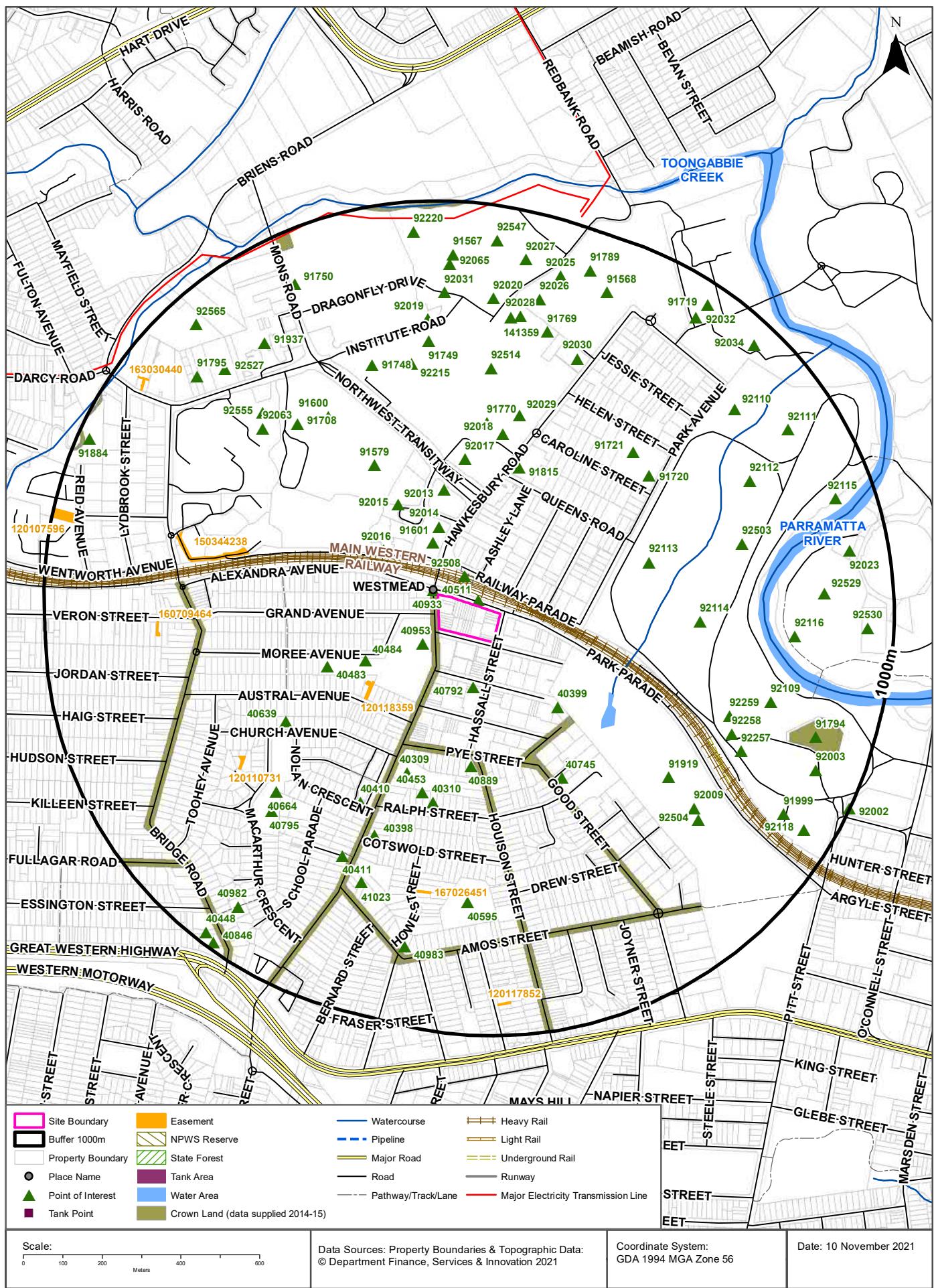
Data Sources: Australia 1:63360
Produced by Australian Section Imperial General Staff

Coordinate System:
GDA 1994 MGA Zone 56

Date: 10 November 2021

Topographic Features

Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145



Topographic Features

Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145

Points of Interest

What Points of Interest exist within the dataset buffer?

Map Id	Feature Type	Label	Distance	Direction
40511	Bus Interchange	WESTMEAD BUS INTERCHANGE	15m	North East
40933	Suburb	WESTMEAD	17m	North West
40953	Primary School	WESTMEAD PUBLIC SCHOOL	57m	South West
92508	Railway Station	WESTMEAD RAILWAY STATION	62m	North
40792	Community Facility	WESTMEAD PROGRESS HALL	123m	South
91601	University	UNIVERSITY OF WESTERN SYDNEY WESTMEAD CAMPUS	132m	North West
92014	Parking Area	Parking Area	172m	North
92016	Parking Area	Parking Area	179m	North West
40484	Parking Area	Parking Area	203m	West
40399	Park	PEMULWUY RESERVE	233m	South East
92015	Parking Area	Parking Area	250m	North West
92013	Parking Area	Parking Area	267m	North
40483	Parking Area	Parking Area	300m	West
40889	Park	PYE STREET RESERVE	320m	South
92017	Parking Area	Parking Area	350m	North
91579	High School	PARRAMATTA MARIST HIGH SCHOOL	365m	North West
91815	Place Of Worship	UNITING CHURCH	367m	North
40309	Place Of Worship	ANGLICAN CHURCH	375m	South
40745	Park	GOOMBARRA RESERVE	386m	South East
92113	Park	WEST DOMAIN	399m	East
40453	Primary School	SACRED HEART PRIMARY SCHOOL	414m	South
40310	Place Of Worship	CATHOLIC CHURCH	432m	South
92018	Parking Area	Parking Area	435m	North
91770	Helipad	Helipad	452m	North
40639	Park	AUSTRAL AVENUE RESERVE	454m	South West
40410	Park	ALLEN BRIERLEY RESERVE	484m	South West
92029	Parking Area	Parking Area	493m	North
92114	Park	CATTLE PADDOCK	507m	East
91720	Nursing Home	UNITING WESTMEAD	515m	North East
91600	High School	CATHERINE MCAULEY WESTMEAD	530m	North West
91721	Retirement Village	UNITING WESTMEAD VILLIAGE	531m	North East

Map Id	Feature Type	Label	Distance	Direction
40398	Place Of Worship	Place Of Worship	551m	South West
91708	Primary School	MOTHER TERESA PRIMARY SCHOOL	561m	North West
91919	Golf Course	PARRAMATTA GOLF COURSE	562m	South East
40664	Park	M J BENNETT RESERVE	584m	South West
92514	Post Office	WESTMEAD POST OFFICE	589m	North
92215	Court House	WESTMEAD CORONER'S COURT	589m	North
91748	Parking Area	Parking Area	607m	North
92063	Swimming Pool Facility	Swimming Pool Facility	612m	North West
40411	Park	NARANG RESERVE	626m	South West
40795	Sports Field	CRICKET GROUND	628m	South West
92259	Monument	BOER WAR MEMORIAL	629m	East
92503	Park	PARRAMATTA PARK	639m	East
92555	Sports Court	TENNIS COURTS	641m	North West
91749	Parking Area	Parking Area	645m	North
92258	Historic Site	GOVERNORS BATH HOUSE	650m	South East
92009	Parking Area	Parking Area	662m	South East
40595	Park	SYDNEY SMITH PARK	663m	South
41023	Nursing Home	BOLTON CLARKE CABRINI	674m	South
92030	Parking Area	Parking Area	677m	North East
92257	Historic Site	ASTRONOMICAL OBSERVATORY REMAINS	688m	South East
92504	Club	PARRAMATTA GOLF CLUB	690m	South East
92019	Parking Area	Parking Area	701m	North
92112	Sports Field	SALTERS FIELD	717m	North East
91769	Helipad	Helipad	717m	North
92109	Park	THE CRESCENT	721m	East
141359	General Hospital	WESTMEAD HOSPITAL	726m	North
92028	Parking Area	Parking Area	736m	North
92116	Park	Park	750m	East
92020	Parking Area	Parking Area	765m	North
92031	Parking Area	Parking Area	768m	North
91937	General Hospital	WESTMEAD PRIVATE HOSPITAL	776m	North West
92527	Retirement Village	MAYFLOWER VILLAGE WENTWORTHVILLE	788m	North West
92026	Parking Area	Parking Area	789m	North
92110	Sports Field	COLEMAN OVAL	790m	North East
40983	Park	HOWE STREET PARK	804m	South
92529	Sports Field	OLD KINGS OVAL	824m	East
91795	Retirement Village	WESTCOURT VILLAS	825m	North West

Map Id	Feature Type	Label	Distance	Direction
92065	Swimming Pool Facility	Swimming Pool Facility	839m	North
91794	Museum	OLD GOVERNMENT HOUSE	854m	East
91999	Parking Area	Parking Area	857m	South East
91568	Special School	THE CHILDRENS HOSPITAL SCHOOL	860m	North East
92025	Parking Area	Parking Area	862m	North
91567	Special School	REDBANK SCHOOL	865m	North
92111	Picnic Area	THE PICNIC GROUND	867m	North East
91750	Parking Area	Parking Area	869m	North West
40982	Park	BRIDGE ROAD RESERVE	871m	South West
92027	Parking Area	Parking Area	879m	North
92003	Parking Area	Parking Area	881m	South East
91789	Childrens Hospital	THE CHILDREN'S HOSPITAL AT WESTMEAD	899m	North
92115	Park	LITTLE COOGEE	900m	East
92023	Parking Area	Parking Area	901m	East
92032	Parking Area	Parking Area	902m	North East
92547	Park	CUMBERLAND OVAL	912m	North
92565	Park	MILSON PARK	920m	North West
92118	Park	THE BOWLING GREEN	922m	South East
92220	Special School	PALM AVENUE SCHOOL	924m	North
92530	Sports Field	GOVERNMENT FARM	933m	East
92034	Parking Area	Parking Area	938m	North East
91719	Nursing Home	WESTMEAD AGED COMMUNITY BASED TRANSITIONAL AGED CARE PROGRAM	945m	North East
91884	Park	SHANNONS PADDOCK	969m	North West
40448	Primary School	WESTMEAD CHRISTIAN GRAMMAR SCHOOL	972m	South West
40846	Place Of Worship	FOURSQUARE GOSPEL CHURCH	982m	South West
92002	Parking Area	Parking Area	998m	South East

Topographic Data Source: © Land and Property Information (2015)

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Topographic Features

Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145

Tanks (Areas)

What are the Tank Areas located within the dataset buffer?

Note. The large majority of tank features provided by LPI are derived from aerial imagery & are therefore primarily above ground tanks.

Map Id	Tank Type	Status	Name	Feature Currency	Distance	Direction
N/A	No records in buffer					

Tanks (Points)

What are the Tank Points located within the dataset buffer?

Note. The large majority of tank features provided by LPI are derived from aerial imagery & are therefore primarily above ground tanks.

Map Id	Tank Type	Status	Name	Feature Currency	Distance	Direction
N/A	No records in buffer					

Tanks Data Source: © Land and Property Information (2015)

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Major Easements

What Major Easements exist within the dataset buffer?

Note. Easements provided by LPI are not at the detail of local governments. They are limited to major easements such as Right of Carriageway, Electrical Lines (66kVa etc.), Easement to drain water & Significant subterranean pipelines (gas, water etc.).

Map Id	Easement Class	Easement Type	Easement Width	Distance	Direction
120118359	Primary	Undefined		214m	South West
150344238	Primary	Right of way	var	491m	West
120110731	Primary	Undefined		591m	South West
167026451	Primary	Right of way	Var	654m	South
160709464	Primary	Right of way	Variable	710m	West
163030440	Primary	Right of way	Variable	913m	North West
120117852	Primary	Undefined		915m	South
120107596	Primary	Undefined		938m	West

Easements Data Source: © Land and Property Information (2015)

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Topographic Features

Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145

State Forest

What State Forest exist within the dataset buffer?

State Forest Number	State Forest Name	Distance	Direction
N/A	No records in buffer		

State Forest Data Source: © NSW Department of Finance, Services & Innovation (2018)

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National Parks and Wildlife Service Reserves

What NPWS Reserves exist within the dataset buffer?

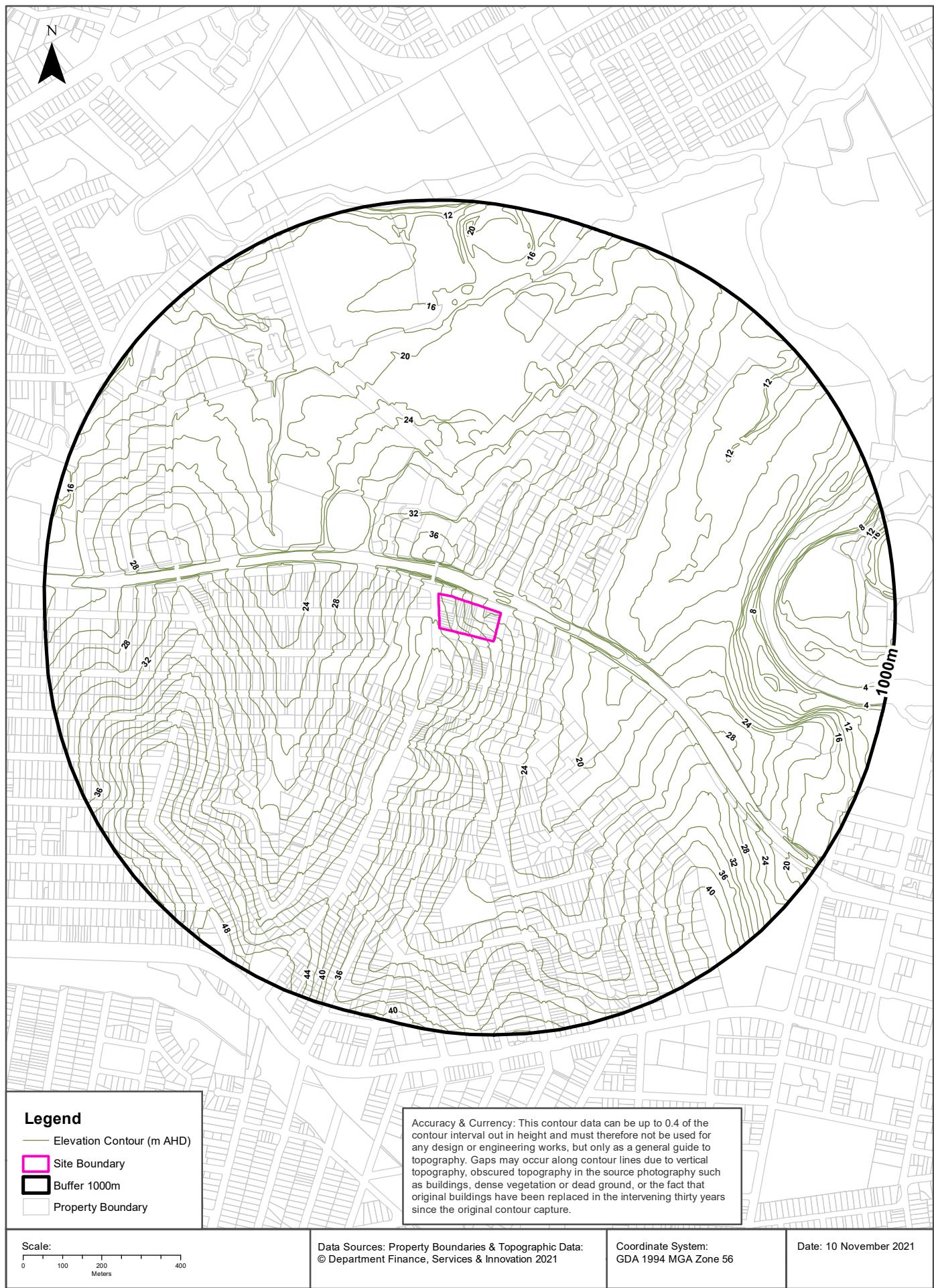
Reserve Number	Reserve Type	Reserve Name	Gazetted Date	Distance	Direction
N/A	No records in buffer				

NPWS Data Source: © NSW Department of Finance, Services & Innovation (2018)

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Elevation Contours (m AHD)

Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145



Hydrogeology & Groundwater

Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145

Hydrogeology

Description of aquifers within the dataset buffer:

Description	Distance	Direction
Porous, extensive aquifers of low to moderate productivity	0m	On-site

Hydrogeology Map of Australia : Commonwealth of Australia (Geoscience Australia)
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Temporary Water Restriction (Botany Sands Groundwater Source) Order 2018

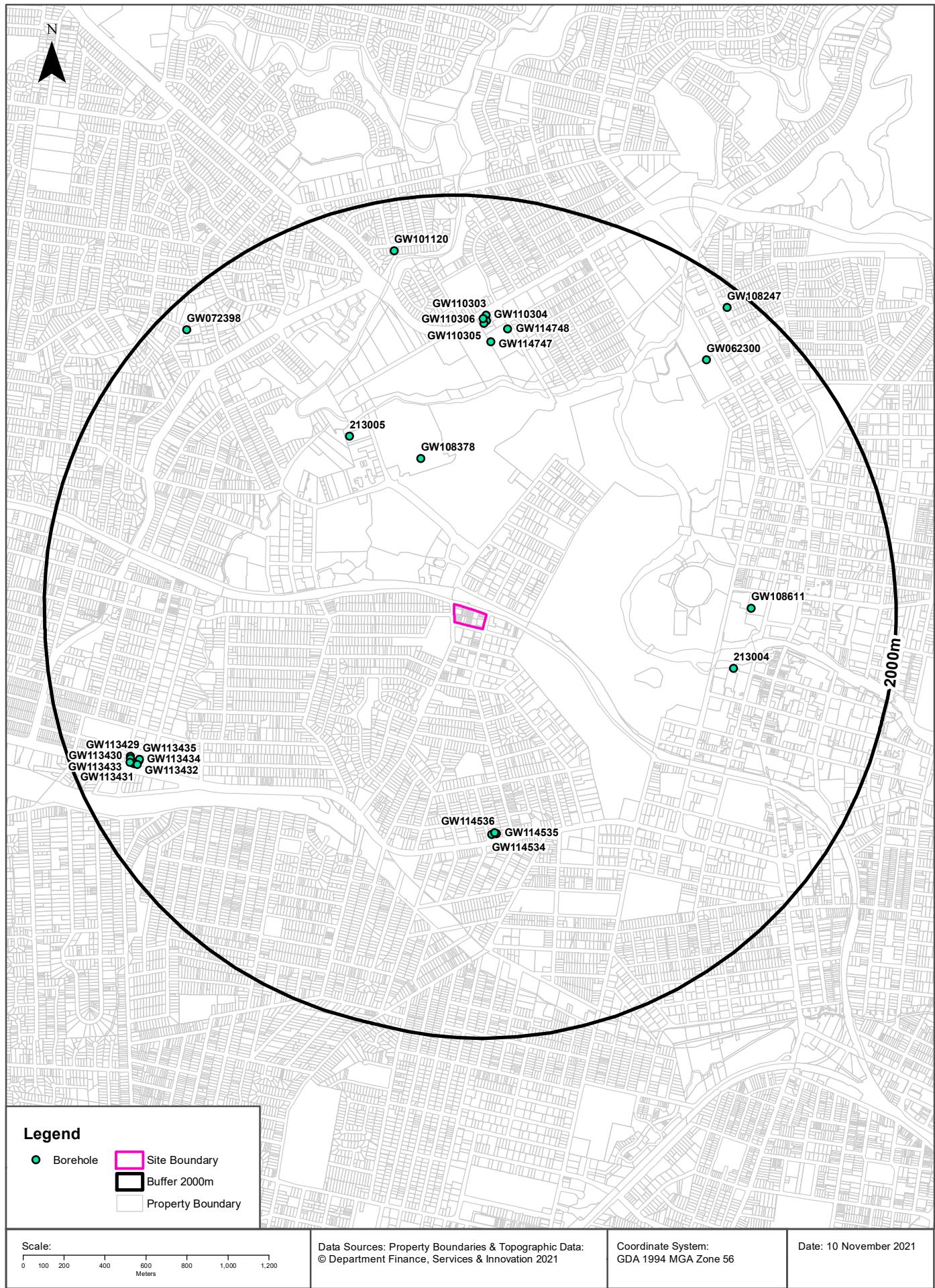
Temporary water restrictions relating to the Botany Sands aquifer within the dataset buffer:

Prohibition Area No.	Prohibition	Distance	Direction
N/A	No records in buffer		

Temporary Water Restriction (Botany Sands Groundwater Source) Order 2018 Data Source : NSW Department of Primary Industries

Groundwater Boreholes

Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145



Hydrogeology & Groundwater

Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145

Groundwater Boreholes

Boreholes within the dataset buffer:

GW No.	Licence No	Work Type	Owner Type	Authorised Purpose	Intended Purpose	Name	Complete Date	Final Depth (m)	Drilled Depth (m)	Salinity (mg/L)	SWL (m bgl)	Yield (L/s)	Elev (AHD)	Dist	Dir
GW108 378	10BL165 559, 10BL602 047, 10WA10 9505	Bore		Industrial, Test Bore	Industrial		31/01/2006	282.00	282.00			0.800		730m	North
213005					UNK								16.22	966m	North West
GW114 536	10BL604 593	Bore	Other Govt	Monitoring Bore	Monitoring Bore		12/08/2014	6.50	6.50					997m	South
GW114 535	10BL604 593	Bore	Other Govt	Monitoring Bore	Monitoring Bore		12/08/2014	7.00	7.00		4.80			1002m	South
GW114 534	10BL604 593	Bore	Other Govt	Monitoring Bore	Monitoring Bore		12/08/2014	6.90	6.90		5.00			1006m	South
213004					UNK								11.75	1235m	East
GW108 611	10BL162 941, 10WA10 8668	Bore	Private	Domestic	Domestic		20/04/2005	60.50	60.50	5300	6.20	5.500		1294m	East
GW114 747	10BL605 601	Bore	Private	Monitoring Bore	Monitoring Bore		12/05/2014	14.00	10.00	235	7.00			1295m	North
GW114 748	10BL605 601	Bore	Private	Monitoring Bore	Monitoring Bore		12/05/2014	14.00	14.50	280	7.00			1371m	North
GW110 305	10BL603 076	Well	Private	Monitoring Bore	Monitoring Bore		28/05/2009	10.00	10.00		4.80			1382m	North
GW110 304	10BL603 076	Well	Private	Monitoring Bore	Monitoring Bore		28/05/2009	10.00	10.00		3.60			1394m	North
GW110 306	10BL603 076	Well	Private	Monitoring Bore	Monitoring Bore		28/05/2009	10.00	10.00		4.30			1404m	North
GW110 303	10BL603 076	Well	Private	Monitoring Bore	Monitoring Bore		28/05/2009	10.00	10.00		3.20			1422m	North
GW062 300	10BL137 938, 10WA10 9363	Bore	Other Govt	Industrial	Industrial		01/07/1988	100.00	100.00	Fresh				1644m	North East
GW113 435	10BL600 157	Bore	Private	Monitoring Bore	Monitoring Bore	Mobil	27/03/2006	4.00	4.00					1677m	South West
GW113 434	10BL600 157	Bore	Private	Monitoring Bore	Monitoring Bore	Mobil	27/03/2006	5.00	5.00					1683m	South West
GW113 432	10BL600 157	Bore	Private	Monitoring Bore	Monitoring Bore	Mobil	27/03/2006	7.00	7.00					1693m	South West
GW113 436	10BL600 157	Bore	Private	Monitoring Bore	Monitoring Bore	Mobil	20/03/2006	4.00	4.00					1698m	South West
GW113 431	10BL600 157	Bore	Private	Monitoring Bore	Monitoring Bore	Mobil	20/03/2006	14.00	14.00					1712m	South West
GW113 429	10BL600 157	Bore	Private	Monitoring Bore	Monitoring Bore	Mobil	27/03/2006	7.70	7.70					1713m	West
GW113 430	10BL600 157	Bore	Private	Monitoring Bore	Monitoring Bore	Mobil	28/03/2006	8.00	8.00					1718m	South West
GW113 433	10BL600 157	Bore	Private	Monitoring Bore	Monitoring Bore	Mobil	28/03/2006	6.00	6.00					1726m	South West
GW101 120	10BL157 989, 10WA10 8402	Bore	Private	Domestic, Stock	Domestic, Stock		30/05/1997	60.00	60.00	Fresh				1751m	North
GW072 398	10BL156 064	Bore	Private	Test Bore	Test Bore		31/03/1995	58.00	58.00	2400		0.100		1870m	North West

GW No.	Licence No	Work Type	Owner Type	Authorised Purpose	Intended Purpose	Name	Complete Date	Final Depth (m)	Drilled Depth (m)	Salinity (mg/L)	SWL (m bgl)	Yield (L/s)	Elev (AHD)	Dist	Dir
GW108 247	10BL601 222, 10BL601 930	Bore		Industrial, Test Bore	Industrial		22/03/2007	102.00	102.00	2000	10.0 0	0.100		1906m	North East

Borehole Data Source : NSW Department of Primary Industries - Office of Water / Water Administration Ministerial Corporation for all bores prefixed with GW. All other bores © Commonwealth of Australia (Bureau of Meteorology) 2015. Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Hydrogeology & Groundwater

Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145

Driller's Logs

Drill log data relevant to the boreholes within the dataset buffer:

Groundwater No	Drillers Log	Distance	Direction
GW108378	0.00m-0.20m TOPSOIL 0.20m-2.00m CLAY 2.00m-19.00m SHALE 19.00m-62.00m SANDSTONE 62.00m-64.00m GREY SHALE 64.00m-123.00m SANDSTONE 123.00m-127.00m GREY SHALE 127.00m-164.00m SANDSTONE 164.00m-168.00m GREY SHALE 168.00m-176.00m SANDSTONE 176.00m-184.00m GREY SHALE 184.00m-226.00m SANDSTONE 226.00m-236.00m GREY SHALE 236.00m-260.00m SANDSTONE 260.00m-282.00m GREY SHALE	730m	North
GW114536	0.00m-1.20m CLAY FILL 1.20m-1.50m CEMENTED SAND / CLAY 1.50m-3.00m CLAY 3.00m-4.30m WEATHERED SANDSTONE 4.30m-6.50m SHALE	997m	South
GW114535	0.00m-1.60m CLAY FILL 1.60m-2.00m CEMENTED SAND/CLAY 2.00m-3.50m SANDY CLAY 3.50m-5.00m SANDSTONE WEATHERED 5.00m-7.00m SHALE	1002m	South
GW114534	0.00m-1.80m CLAY 1.80m-3.00m CEMENTED SAND / CLAY 3.00m-6.70m SANDSTONE WEATHERED 6.70m-6.90m SHALE	1006m	South
GW108611	0.00m-1.00m Fill 1.00m-3.00m Clay, brown 3.00m-5.50m Shale 5.50m-7.00m Sandstone, with Shale bedding 7.00m-22.00m Sandstone, grey 22.00m-23.30m Sandstone, soft 23.30m-46.10m Sandstone, grey 46.10m-46.30m Sandstone, fractured 46.30m-47.50m Sandstone, grey 47.50m-47.70m Sandstone, fractured 47.70m-56.50m Sandstone, grey 56.50m-56.60m Sandstone, fractured 56.60m-60.50m Sandstone, grey	1294m	East
GW114747	0.00m-0.80m GRAVELLY CLAY BROWN,,LOW,MEDIUM PLASTICITY 0.80m-5.70m CLAY GRAVELLY, RED AND GREY,IRONSTONE,GRAVELS 5.70m-10.00m SANDSTONE, GREY AND YELLOW,FINE-MED.GRAINED	1295m	North
GW114748	0.00m-1.50m SAND CLAYEY WITH TRACE OF ASPHALT,GRAVELS 1.50m-2.80m SANDY CLAY,ORANGE AND BROWN LOW PLASTICITY 2.80m-3.70m CLAY GRAVELLY DARK ORANGE AND BROWN,IRONSTONE AND GRAVELS 3.70m-4.50m SANDY CLAY,TRACE IRONSTONE,GRAVELS 4.50m-5.70m SANDY CLAY',IRONSTONE 5.70m-14.50m SANDSTONE WITH IRONSTONE BANDS LIGHT BANDS	1371m	North
GW110305	0.00m-0.20m CONCRETE 0.20m-0.40m FILL GRAVELLY SAND,SOME CLAY 0.40m-0.90m FILL GRAVELLY SAND,FINE TO COARSE GRAINED 0.90m-1.30m FILL, SAND,GREY,SOME GRAVEL,SOME CLAY 1.30m-2.50m CLAY SANDY,LOW TO MEDIUM PLASTICITY 2.50m-10.00m SANDSTONE,FINE TO MEDIUM GRAINED,GREY	1382m	North
GW110304	0.00m-1.00m FILL CLAYEY,SAND AND GRAVEL 1.00m-4.50m SAND CLAYEY BROWN AND RED/SANDSTONE 4.50m-10.00m SANDSTONE GREY AND BROWN	1394m	North
GW110306	0.00m-0.60m CONCRETE 0.60m-0.80m FILL, GRAVELLY SAND 0.80m-1.00m FILL, SANDSTONE 1.00m-1.20m FILL, SANDY CLAY 1.20m-5.50m CLAY SANDY,MEDIUM TO HIGH PLASTICITY 5.50m-10.00m SANDSTONE,FINE TO MEDIUM GRAINED	1404m	North

Groundwater No	Drillers Log	Distance	Direction
GW110303	0.00m-0.70m FILL BROWN,CLAYEY SAND/GRAVEL/ROCKS 0.70m-2.50m CLAY SANDY GREY AND BROWN 2.50m-3.50m CLAY GRAVELLY DARK GREY 3.50m-10.00m SANDSTONE GREY AND BROWN,WEATHERED	1422m	North
GW062300	0.00m-0.40m Topsoil 0.40m-5.60m Sandstone Some Layers 0.40m-5.60m Shale Clay 5.60m-9.50m Sandstone Yellow 9.50m-12.10m Shale 12.10m-26.80m Sandstone Grey Water Supply 26.80m-37.70m Sandstone Grey Some Shale 37.70m-38.10m Shale 38.10m-100.00m Sandstone Grey Water Supply	1644m	North East
GW101120	0.00m-0.50m Top soil 0.50m-2.60m Clay and shale 2.60m-17.50m Yellow sandstone 17.50m-24.80m Brown sandstone 24.80m-30.10m Yellow sandstone 30.10m-30.40m Grey sandstone (wb) 30.40m-36.00m Grey sandstone 36.00m-36.20m white clay 36.20m-48.50m grey sandstone 48.50m-60.00m Yellow sandstone	1751m	North
GW072398	0.00m-1.00m TOP SOIL 1.00m-2.00m RED GREY CLAY 2.00m-25.00m GREY SHALE 25.00m-32.00m GREY S/S F/G XBED SHALE 32.00m-45.00m GREY S/S F/G QUARTZ BANDS 45.00m-53.00m GREY S/S F/G 53.00m-58.00m GREY S/S F/G X BED SHALE	1870m	North West
GW108247	0.00m-3.00m SANDY CLAY 3.00m-6.00m SANDSTONE YELLOW 6.00m-10.50m SHALE 10.50m-14.50m SANDSTONE GREY 14.50m-14.80m SANDSTONE FRACTURED 14.80m-22.50m SANDSTONE GREY 22.50m-27.00m SANDSTONE QUARTZ 27.00m-29.00m SANDSTONE GREY 29.00m-30.00m SHALE 30.00m-44.00m SANDSTONE GREY 44.00m-46.50m SHALE 46.50m-55.00m SANDSTONE GREY 55.00m-57.00m SANDSTONE QUARTZ 57.00m-70.00m SANDSTONE GREY 70.00m-72.00m SANDSTONE QUARTZ 72.00m-74.00m SHALE 74.00m-76.00m SANDSTONE GREY 76.00m-77.00m SANDSTONE QUARTZ 77.00m-80.50m SANDSTONE GREY 80.50m-83.50m SANDSTONE QUARTZ 83.50m-93.00m SANDSTONE GREY 93.00m-94.50m SANDSTONE QUARTZ 94.50m-99.00m SANDSTONE GREY 99.00m-100.50m SANDSTONE QUARTZ 100.50m-102.00m SANDSTONE GREY	1906m	North East

Drill Log Data Source: NSW Department of Primary Industries - Office of Water / Water Administration Ministerial Corp
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Geology

Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145



Legend

[Pink Box]	Site Boundary	[Black Line]	Fault	[Green Line]	Metamorphic Boundary
[Black Box]	Buffer 1000m	[Dyke Symbol]	Dyke	[Orange Line]	Shear Zone
[White Box with Property Boundary]	Property Boundary	[Fold Symbol]	Fold	[Grey Line]	Structure
[Purple Line]	Marker Bed	[Black Circle]	Thrust Fault	[Blue Line]	Trend Line
					Lineament

Scale:

0 100 200 300 400 500 600 Meters

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

Date: 10 November 2021

Geology

Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145

Geological Units 1:100,000

What are the Geological Units within the dataset buffer?

Symbol	Description	Unit Name	Group	Sub Group	Age	Dom Lith	Map Sheet	Dist	Dir
Rwa	Dark-grey to black claystone-siltstone and fine sandstone -siltstone laminate	Ashfield Shale	Wianamatta Group (undifferentiated)		Middle Triassic		Penrith	0m	On-site
Rwm	Fine to medium-grained quartz-lithic sandstone	Minchinbury Sandstone	Wianamatta Group (undifferentiated)		Middle Triassic		Penrith	333m	South
Rwb	Shale, carbonaceous claystone, claystone, laminate, fine to medium-grained lithic sandstone, rare coal and tuff	Bringelly Shale	Wianamatta Group (undifferentiated)		Middle Triassic		Penrith	378m	South
Rh	Medium to very coarse-grained quartz sandstone, minor laminated mudstone and siltstone lenses	Hawkesbury Sandstone			Middle Triassic		Penrith	530m	North

Geological Structures 1:100,000

What are the Geological Structures within the dataset buffer?

Feature	Name	Description	Map Sheet	Distance	Direction
N/A	No records in buffer				

Geological Data Source : NSW Department of Industry, Resources & Energy

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Naturally Occurring Asbestos Potential

Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145

Naturally Occurring Asbestos Potential

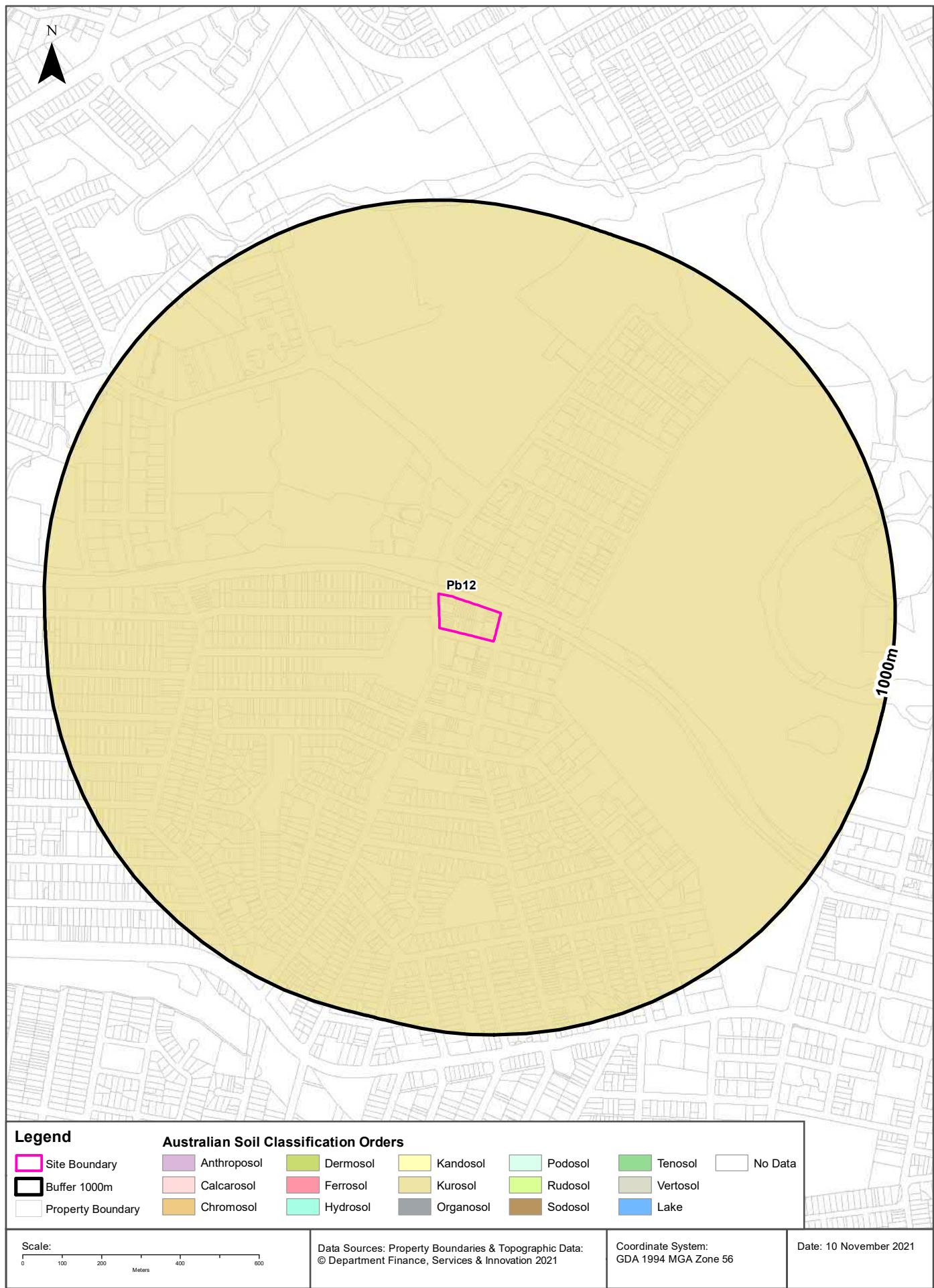
Naturally Occurring Asbestos Potential within the dataset buffer:

Potential	Sym	Strat Name	Group	Formation	Scale	Min Age	Max Age	Rock Type	Dom Lith	Description	Dist	Dir
No records in buffer												

Naturally Occurring Asbestos Potential Data Source: © State of New South Wales through NSW Department of Industry, Resources & Energy

Atlas of Australian Soils

Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145



Soils

Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145

Atlas of Australian Soils

Soil mapping units and Australian Soil Classification orders within the dataset buffer:

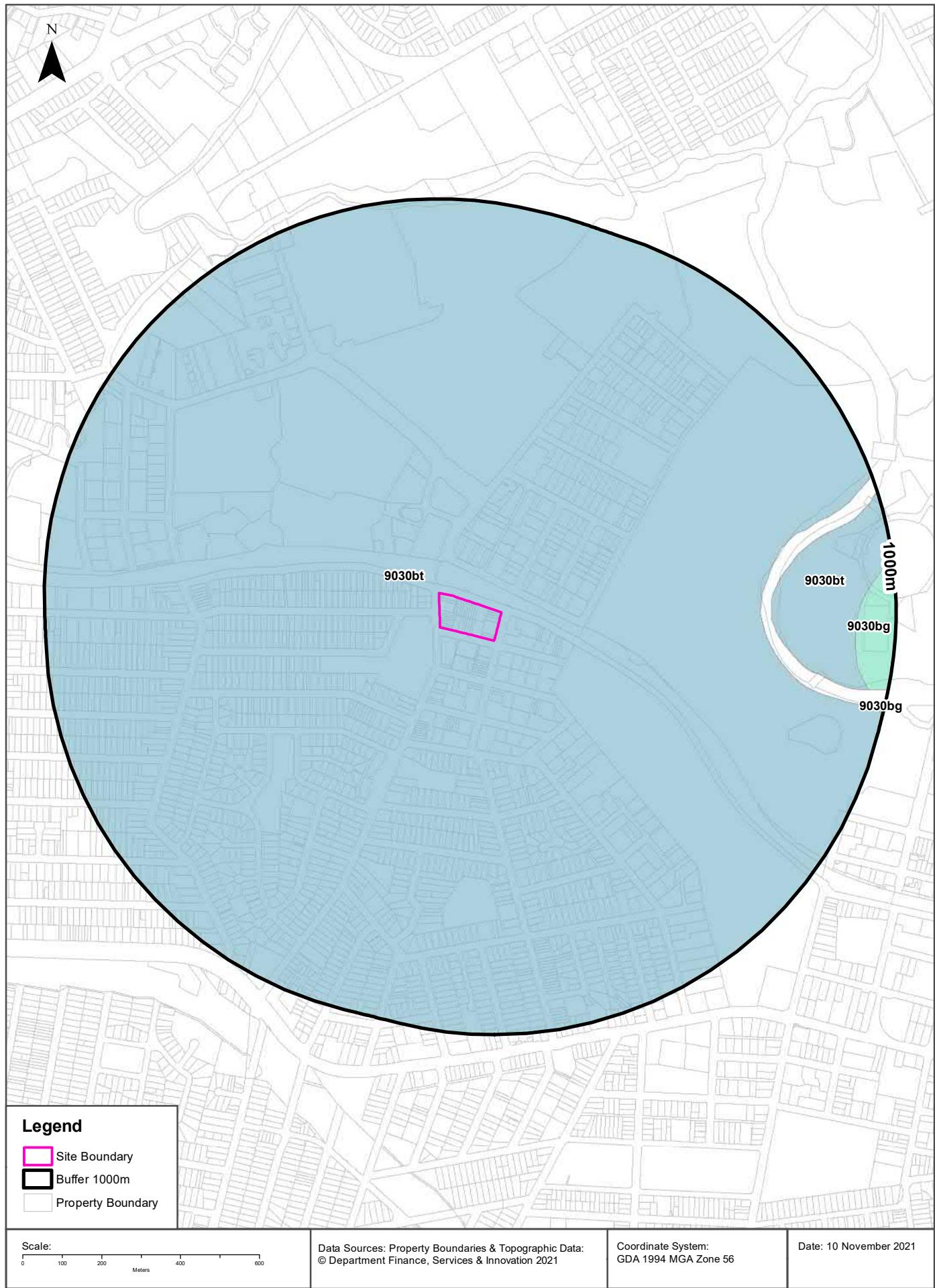
Map Unit Code	Soil Order	Map Unit Description	Distance	Direction
Pb12	Kurosol	Gently rolling to rounded hilly country with some steep slopes and broad valleys: chief soils are hard acidic red soils (Dr2.21) with hard neutral and acidic yellow mottled soils (Dy3.42 and Dy3.41) on lower slopes and in valleys. Associated are small areas of various soils including (Gn3.54) on some ridges, (Dr3.31) on some slopes; (Dr2.23) in saddles and some mid-slope positions, and some low-lying swampy areas of (Uf6) soils and (Uc1.2) soils with peaty surfaces. Small areas of other soils such as (Db1.2) are likely throughout.	0m	On-site

Atlas of Australian Soils Data Source: CSIRO

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Soil Landscapes of Central and Eastern NSW

Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145



Soils

Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145

Soil Landscapes of Central and Eastern NSW

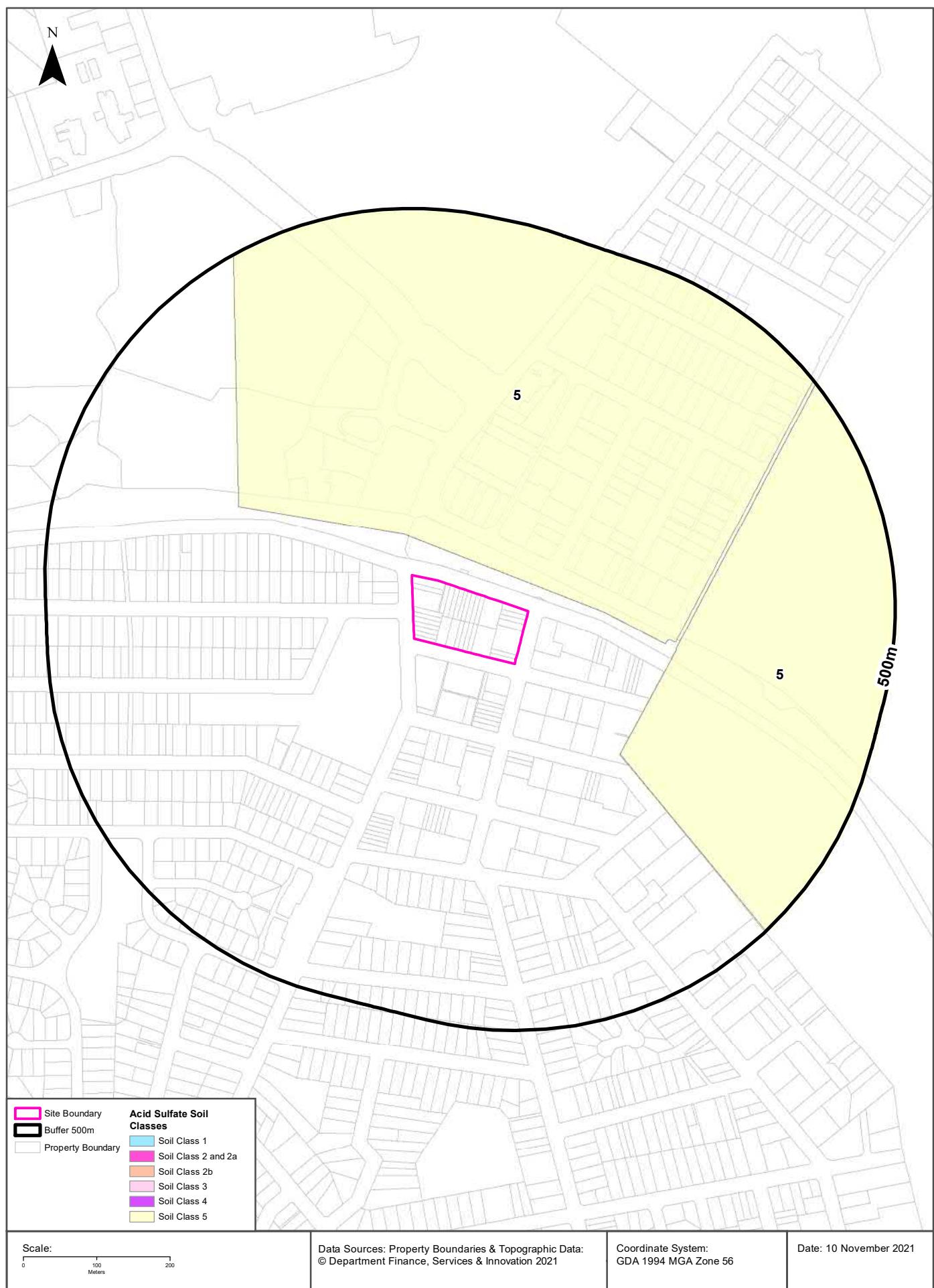
Soil Landscapes of Central and Eastern NSW within the dataset buffer:

Soil Code	Name	Distance	Direction
9030bt	Blacktown	0m	On-site
9030bg	Birrong	897m	East

Soil Landscapes of Central and Eastern NSW: NSW Department of Planning, Industry and Environment
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Acid Sulfate Soils

Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145



Acid Sulfate Soils

Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145

Environmental Planning Instrument - Acid Sulfate Soils

What is the on-site Acid Sulfate Soil Plan Class that presents the largest environmental risk?

Soil Class	Description	EPI Name
N/A		

If the on-site Soil Class is 5, what other soil classes exist within 500m?

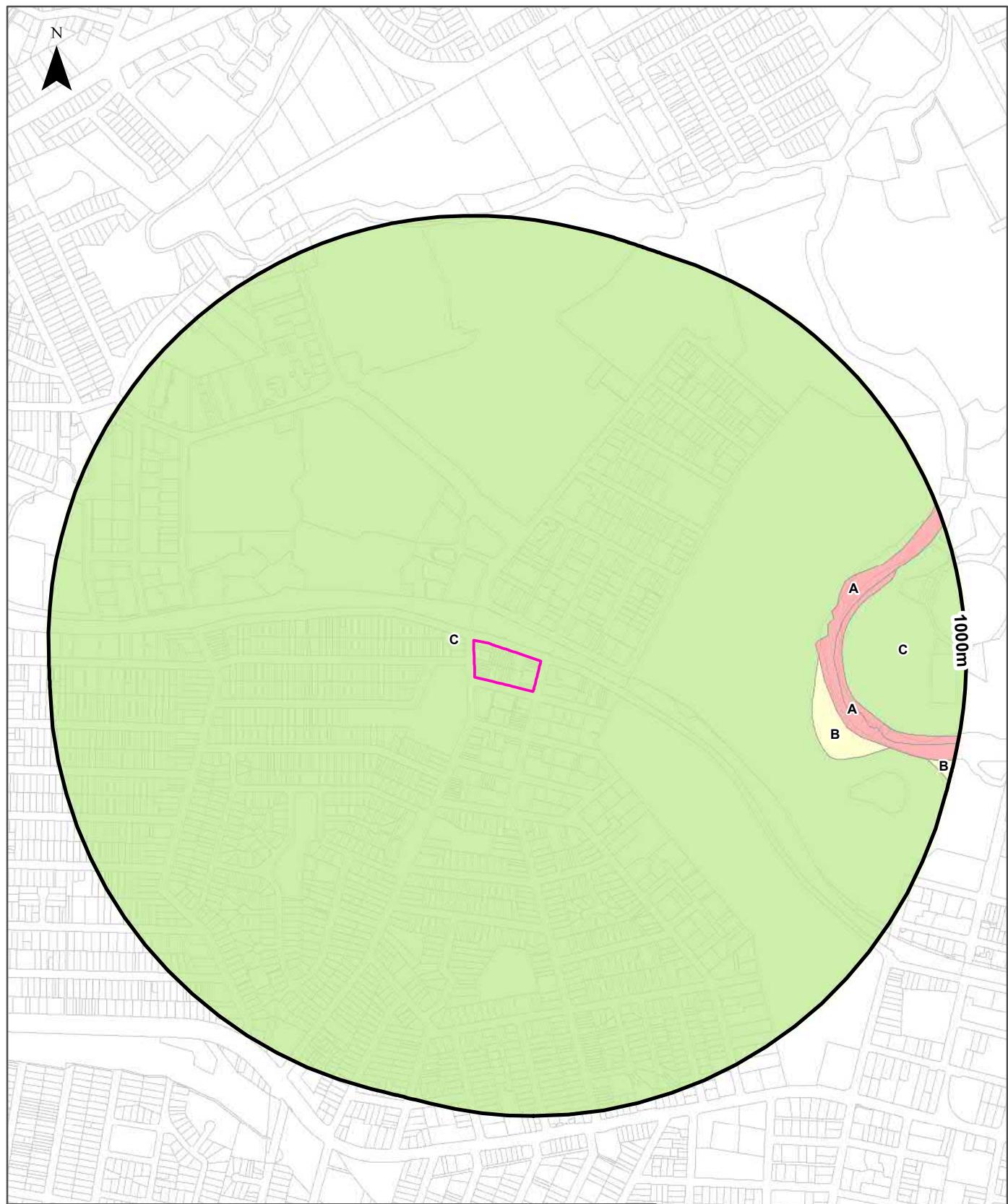
Soil Class	Description	EPI Name	Distance	Direction
N/A				

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Atlas of Australian Acid Sulfate Soils

Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145



Legend

Probability of occurrence of Acid Sulfate Soils			
■ Site Boundary	■ A. High (>70%)	■ C. Extremely Low (1-5%)	■ No Data
■ Buffer 1000m			
■ Property Boundary	■ B. Low (6-70%)	■ D. No Chance (0%)	

Scale:
0 100 200 300 400 500 600
Meters

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

Date: 10 November 2021

Acid Sulfate Soils

Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145

Atlas of Australian Acid Sulfate Soils

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

Class	Description	Distance	Direction
C	Extremely low probability of occurrence. 1-5% chance of occurrence with occurrences in small localised areas.	0m	On-site
A	High Probability of occurrence. >70% chance of occurrence.	687m	East
B	Low Probability of occurrence. 6-70% chance of occurrence.	935m	East

Atlas of Australian Acid Sulfate Soils Data Source: CSIRO

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Dryland Salinity

Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145



■ Site Boundary
■ Buffer 1000m
■ Property Boundary

Dryland Salinity - National Assessment

- Delineated risk area but no high hazard or risk rating for either 2000, 2020, 2050
- High hazard or risk in 2050 only
- High hazard or risk defined for 2050, but no assessment made for 2000 or 2020
- High hazard or risk in 2020 and 2050
- High hazard or risk in 2000 and 2050. 2020 not defined as high hazard
- High hazard or risk defined for all years: 2000, 2020, 2050

Salinity Potential of Western Sydney

- Area of Known Salinity
- Area of High Salinity Potential
- Area of Moderate Salinity Potential
- Area of Very Low Salinity Potential
- Area of Water

Scale:

0 100 200 300 400 500 600
Meters

Data Sources: Property Boundaries & Topographic Data:
© Department Finance, Services & Innovation 2021

Coordinate System:
GDA 1994 MGA Zone 56

Date: 10 November 2021

Dryland Salinity

Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145

Dryland Salinity - National Assessment

Is there Dryland Salinity - National Assessment data onsite?

No

Is there Dryland Salinity - National Assessment data within the dataset buffer?

No

What Dryland Salinity assessments are given?

Assessment 2000	Assessment 2020	Assessment 2050	Distance	Direction
N/A	N/A	N/A		

Dryland Salinity Data Source : National Land and Water Resources Audit

The Commonwealth and all suppliers of source data used to derive the maps of "Australia, Forecast Areas Containing Land of High Hazard or Risk of Dryland Salinity from 2000 to 2050" do not warrant the accuracy or completeness of information in this product. Any person using or relying upon such information does so on the basis that the Commonwealth and data suppliers shall bear no responsibility or liability whatsoever for any errors, faults, defects or omissions in the information. Any persons using this information do so at their own risk.

In many cases where a high risk is indicated, less than 100% of the area will have a high hazard or risk.

Dryland Salinity Potential of Western Sydney

Dryland Salinity Potential of Western Sydney within the dataset buffer?

Feature Id	Classification	Description	Distance	Direction
274	MODERATE	Area of Moderate Salinity Potential	0m	On-site
769	LOW	Area of Very Low Salinity Potential	530m	North

Dryland Salinity Potential of Western Sydney Data Source : NSW Office of Environment and Heritage

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Mining

Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145

Mining Subsidence Districts

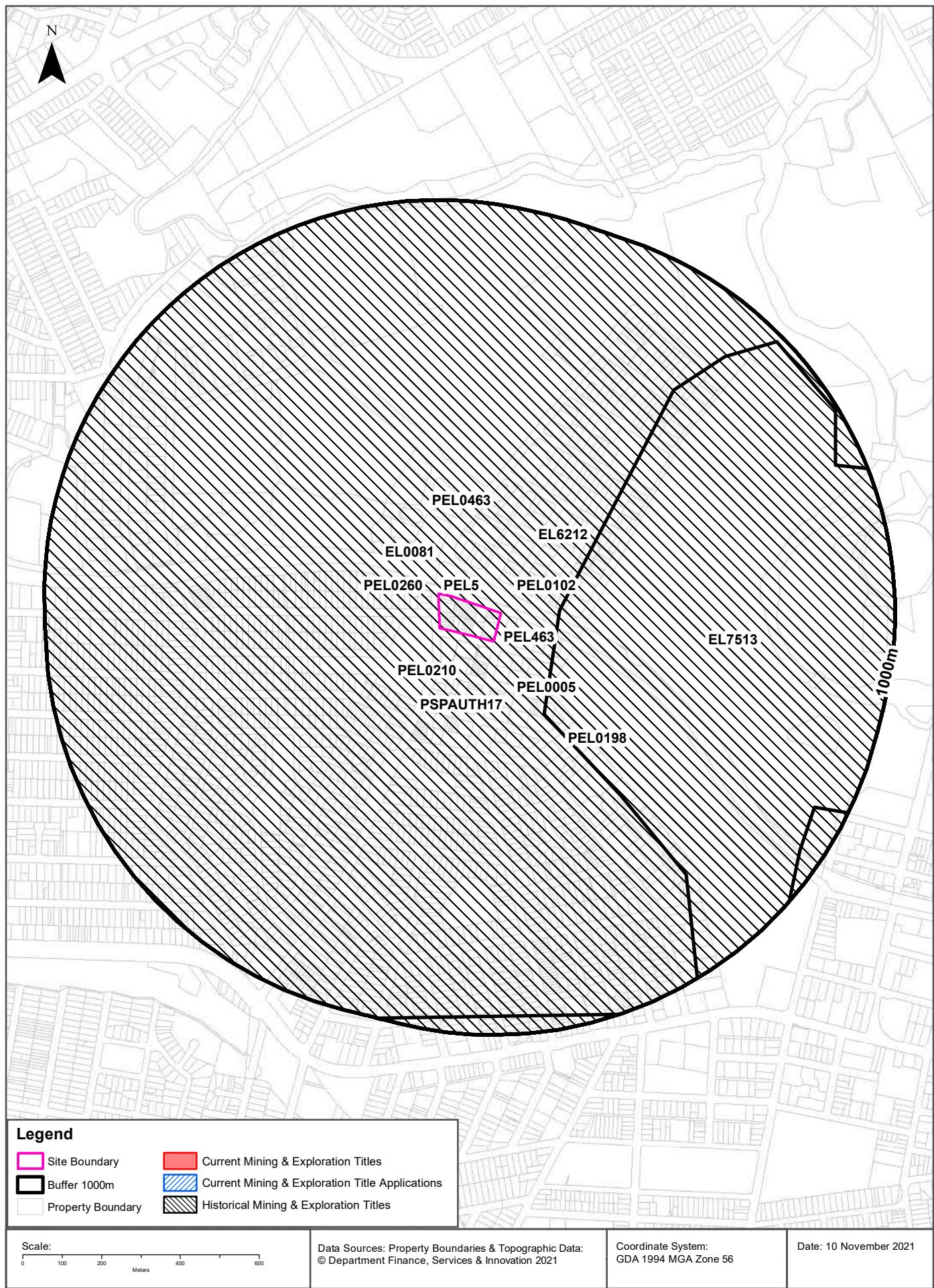
Mining Subsidence Districts within the dataset buffer:

District	Distance	Direction
There are no Mining Subsidence Districts within the report buffer		

Mining Subsidence District Data Source: © Land and Property Information (2016)
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Mining & Exploration Titles

Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145



Mining

Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145

Current Mining & Exploration Titles

Current Mining & Exploration Titles within the dataset buffer:

Title Ref	Holder	Grant Date	Expiry Date	Last Renewed	Operation	Resource	Minerals	Dist	Dir
N/A	No records in buffer								

Current Mining & Exploration Titles Data Source: © State of New South Wales through NSW Department of Industry

Current Mining & Exploration Title Applications

Current Mining & Exploration Title Applications within the dataset buffer:

Application Ref	Applicant	Application Date	Operation	Resource	Minerals	Dist	Dir
N/A	No records in buffer						

Current Mining & Exploration Title Applications Data Source: © State of New South Wales through NSW Department of Industry

Mining

Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145

Historical Mining & Exploration Titles

Historical Mining & Exploration Titles within the dataset buffer:

Title Ref	Holder	Start Date	End Date	Resource	Minerals	Dist	Dir
EL6212	HOT ROCK ENERGY PTY LTD, LONGREACH OIL LIMITED	4 Mar 2004	3 Mar 2013	MINERALS	Geothermal	0m	On-site
PEL0005	AGL UPSTREAM INVESTMENTS PTY LIMITED	11/11/1993	4/03/2015	PETROLEUM	Petroleum	0m	On-site
PSPAUTH17	MACQUARIE ENERGY PTY LTD	8/03/2007	7/03/2008	PETROLEUM	Petroleum	0m	On-site
PEL0463	DART ENERGY (APOLLO) PTY LTD	22/10/2008	6/03/2015	PETROLEUM	Petroleum	0m	On-site
EL0081	CONTINENTAL OIL CO OF AUSTRALIA LIMITED	01 Feb 1967	01 Feb 1968	MINERALS		0m	On-site
PEL0102	AUSTRALIAN OIL AND GAS CORPORATION LTD			PETROLEUM	Petroleum	0m	On-site
PEL0198	JOHN STREVENS (TERRIGAL) NL			PETROLEUM	Petroleum	0m	On-site
PEL0260	NORTH BULLI COLLIERIES PTY LTD, AGL PETROLEUM OPERATIONS PTY LTD, THE AUSTRALIAN GAS LIGHT CO.	9/09/1981	8/03/1993	PETROLEUM	Petroleum	0m	On-site
PEL0210	THE AUSTRALIAN GAS LIGHT COMPANY (AGL), NORTH BULLI COLLIERIES PTY LTD			PETROLEUM	Petroleum	0m	On-site
PEL463	DART ENERGY (APOLLO) PTY LTD			MINERALS		0m	On-site
PEL5	AGL UPSTREAM INVESTMENTS PTY LIMITED			MINERALS		0m	On-site
EL7513	GRADIENT ENERGY LIMITED	7 Apr 2010	15 Apr 2011	MINERALS	Geothermal	146m	East

Historical Mining & Exploration Titles Data Source: © State of New South Wales through NSW Department of Industry

State Environmental Planning Policy

Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145

State Significant Precincts

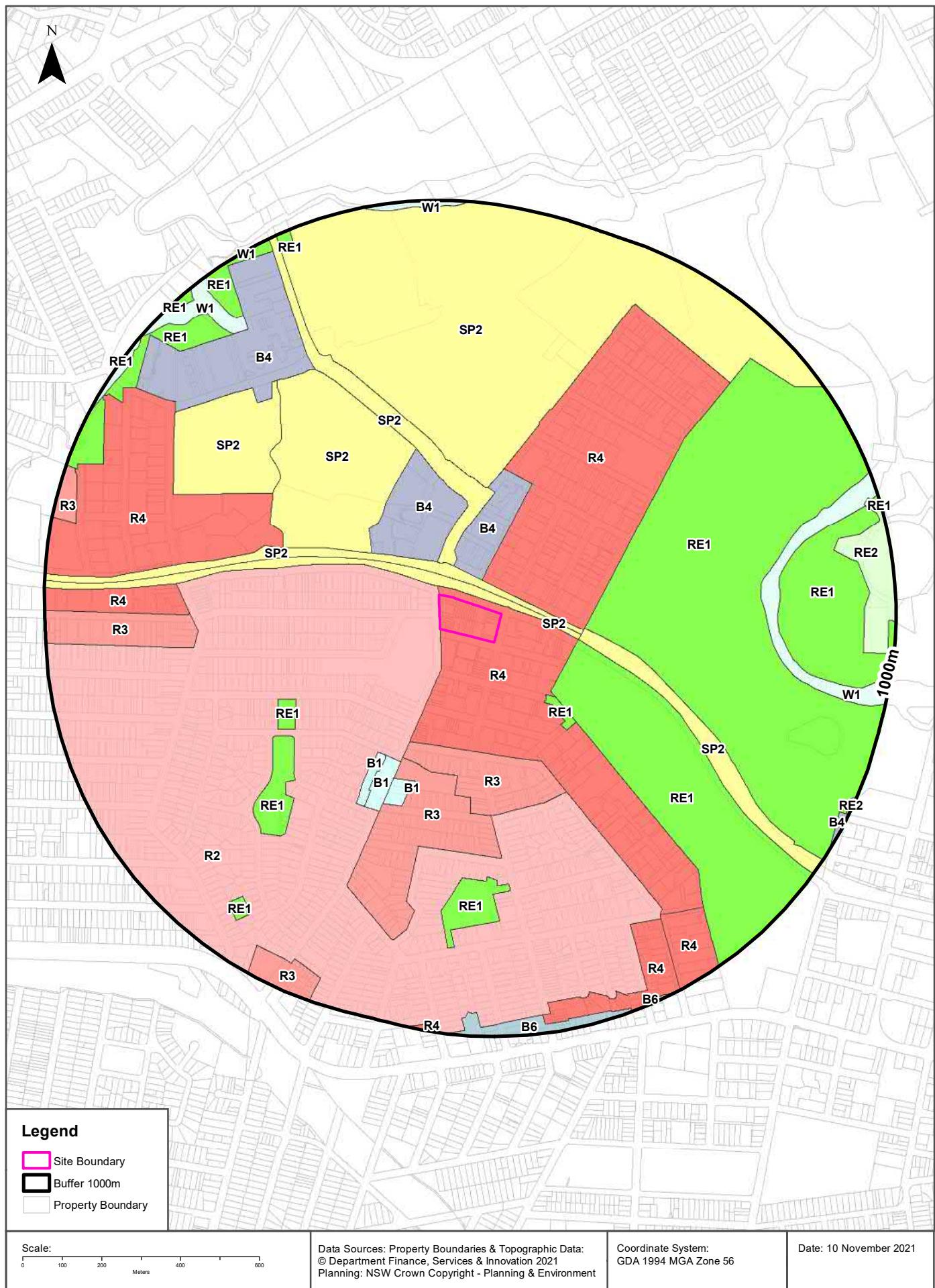
What SEPP State Significant Precincts exist within the dataset buffer?

Map Id	Precinct	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
N/A	No records in buffer							

State Environment Planning Policy Data Source: NSW Crown Copyright - Planning & Environment
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EPI Planning Zones

Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145



Environmental Planning Instrument

Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145

Land Zoning

What EPI Land Zones exist within the dataset buffer?

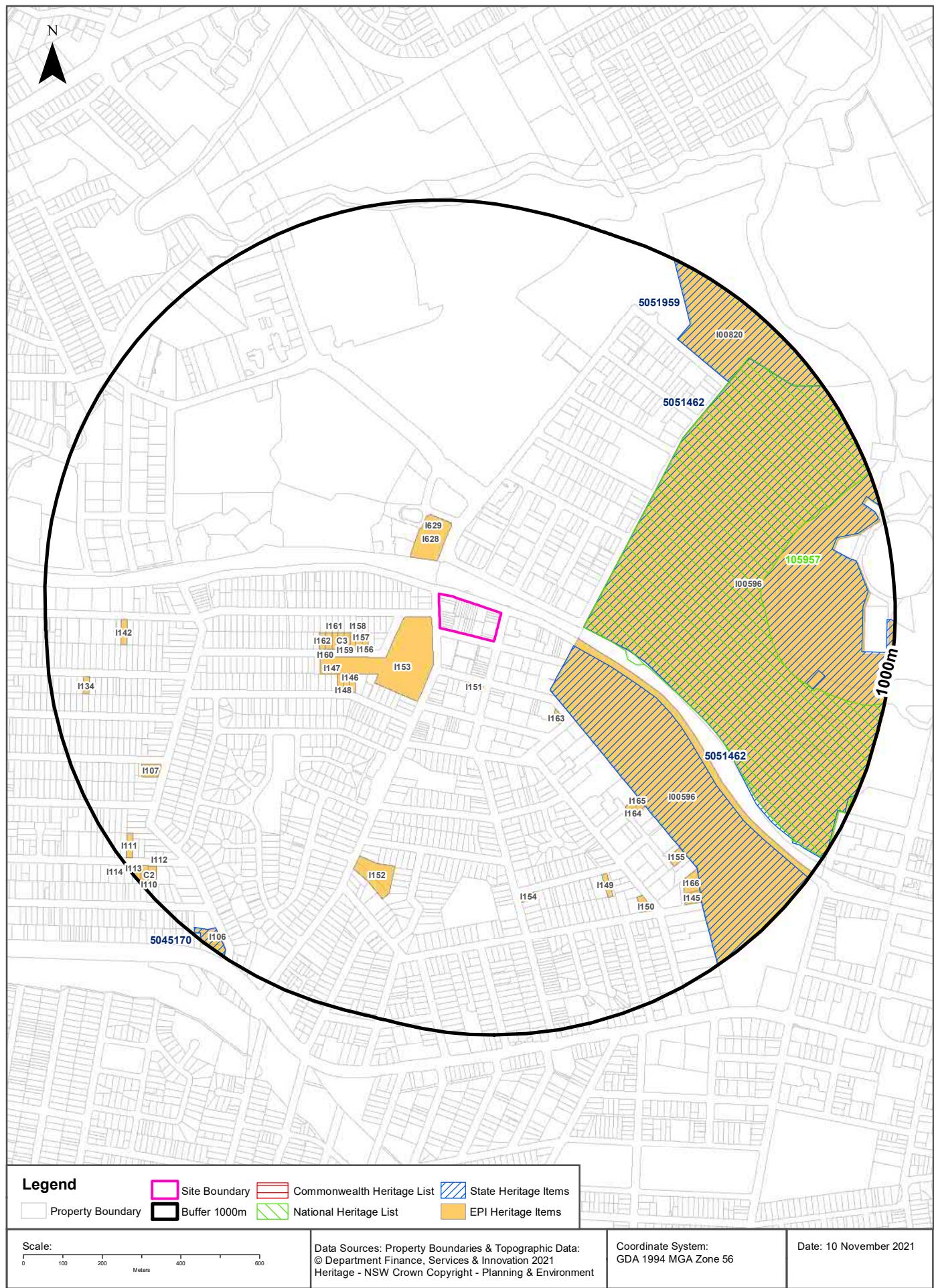
Zone	Description	Purpose	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
R4	High Density Residential		Holroyd Local Environmental Plan 2013	05/04/2013	05/08/2013	14/08/2020		0m	On-site
R2	Low Density Residential		Holroyd Local Environmental Plan 2013	05/04/2013	05/08/2013	14/08/2020		0m	South West
SP2	Infrastructure	Rail Corridor	Holroyd Local Environmental Plan 2013	05/04/2013	05/08/2013	14/08/2020		20m	West
SP2	Infrastructure	Railway Corridor	Parramatta Local Environmental Plan 2011	07/10/2011	07/10/2011	18/06/2021		39m	West
R4	High Density Residential		Parramatta Local Environmental Plan 2011	07/10/2011	07/10/2011	18/06/2021		55m	North East
B4	Mixed Use		Parramatta Local Environmental Plan 2011	07/10/2011	07/10/2011	18/06/2021		65m	North
SP2	Infrastructure	Classified Road	Parramatta Local Environmental Plan 2011	07/10/2011	07/10/2011	18/06/2021		78m	North
B4	Mixed Use		Parramatta Local Environmental Plan 2011	13/09/2013	13/09/2013	18/06/2021	Amendment No 4	84m	North West
RE1	Public Recreation		Parramatta Local Environmental Plan 2011	18/12/2015	18/12/2015	18/06/2021	Amendment No 10	184m	South East
RE1	Public Recreation		Holroyd Local Environmental Plan 2013	05/04/2013	05/08/2013	14/08/2020		185m	South East
SP2	Infrastructure	Educational Establishment	Parramatta Local Environmental Plan 2011	07/10/2011	07/10/2011	18/06/2021		201m	North West
SP2	Infrastructure	Railway Corridor	Parramatta Local Environmental Plan 2011	18/12/2015	18/12/2015	18/06/2021	Amendment No 10	203m	South East
RE1	Public Recreation		Parramatta Local Environmental Plan 2011	18/12/2015	18/12/2015	18/06/2021	Amendment No 10	212m	East
R3	Medium Density Residential		Holroyd Local Environmental Plan 2013	05/04/2013	05/08/2013	14/08/2020		281m	South
SP2	Infrastructure	Health Services Facilities	Parramatta Local Environmental Plan 2011	07/10/2011	07/10/2011	18/06/2021		292m	North
R3	Medium Density Residential		Holroyd Local Environmental Plan 2013	16/01/2015	16/01/2015	14/08/2020	Amendment No 2	340m	South
B1	Neighbourhood Centre		Holroyd Local Environmental Plan 2013	05/04/2013	05/08/2013	14/08/2020		349m	South West
B1	Neighbourhood Centre		Holroyd Local Environmental Plan 2013	09/10/2015	09/10/2015	14/08/2020	Amendment No 4	349m	South West
B1	Neighbourhood Centre		Holroyd Local Environmental Plan 2013	05/04/2013	05/08/2013	14/08/2020		390m	South
RE1	Public Recreation		Holroyd Local Environmental Plan 2013	05/04/2013	05/08/2013	14/08/2020		408m	South West
R4	High Density Residential		Parramatta Local Environmental Plan 2011	07/10/2011	07/10/2011	18/06/2021		413m	West
RE1	Public Recreation		Holroyd Local Environmental Plan 2013	05/04/2013	05/08/2013	14/08/2020		463m	South West
SP2	Infrastructure	Health Services Facilities	Parramatta Local Environmental Plan 2011	07/10/2011	07/10/2011	18/06/2021		495m	North West
RE1	Public Recreation		Holroyd Local Environmental Plan 2013	05/04/2013	05/08/2013	14/08/2020		594m	South
R3	Medium Density Residential		Holroyd Local Environmental Plan 2013	05/04/2013	05/08/2013	14/08/2020		614m	West
R4	High Density Residential		Holroyd Local Environmental Plan 2013	23/06/2017	23/06/2017	14/08/2020	Amendment No 9	634m	West
B4	Mixed Use		Parramatta Local Environmental Plan 2011	07/10/2011	07/10/2011	18/06/2021		650m	North West
W1	Natural Waterways		Parramatta Local Environmental Plan 2011	21/02/2020	21/02/2020	18/06/2021	Amendment No 40	658m	East

Zone	Description	Purpose	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
RE1	Public Recreation		Parramatta Local Environmental Plan 2011	21/02/2020	21/02/2020	18/06/2021	Amendment No 40	698m	East
R4	High Density Residential		Holroyd Local Environmental Plan 2013	05/04/2013	05/08/2013	14/08/2020		792m	South East
R4	High Density Residential		Parramatta Local Environmental Plan 2011	07/10/2011	07/10/2011	18/06/2021		806m	South East
W1	Natural Waterways		Parramatta Local Environmental Plan 2011	28/07/2017	28/07/2017	18/06/2021	Amendment No 20	829m	North West
RE1	Public Recreation		Parramatta Local Environmental Plan 2011	28/07/2017	28/07/2017	18/06/2021	Amendment No 20	841m	North West
RE1	Public Recreation		Holroyd Local Environmental Plan 2013	05/04/2013	05/08/2013	14/08/2020		843m	South West
RE2	Private Recreation		Parramatta Local Environmental Plan 2011	18/12/2015	18/12/2015	18/06/2021	Amendment No 10	856m	East
RE1	Public Recreation		Parramatta Local Environmental Plan 2011	07/10/2011	07/10/2011	18/06/2021		864m	North West
R3	Medium Density Residential		Holroyd Local Environmental Plan 2013	05/04/2013	05/08/2013	14/08/2020		915m	South West
R3	Medium Density Residential		Parramatta Local Environmental Plan 2011	07/10/2011	07/10/2011	18/06/2021		937m	West
B6	Enterprise Corridor		Holroyd Local Environmental Plan 2013	05/04/2013	05/08/2013	14/08/2020		938m	South
RE1	Public Recreation		Parramatta Local Environmental Plan 2011	07/10/2011	07/10/2011	18/06/2021		955m	North West
RE1	Public Recreation		Parramatta Local Environmental Plan 2011	07/10/2011	07/10/2011	18/06/2021		972m	North West
B4	Mixed Use		Parramatta Local Environmental Plan 2011	18/06/2021	18/06/2021	18/06/2021	Amendment No 62	973m	South East
R4	High Density Residential		Holroyd Local Environmental Plan 2013	05/04/2013	05/08/2013	14/08/2020		978m	South
RE1	Public Recreation		Parramatta Local Environmental Plan 2011	18/12/2015	18/12/2015	18/06/2021	Amendment No 10	979m	East
W1	Natural Waterways		Parramatta Local Environmental Plan 2011	07/10/2011	07/10/2011	18/06/2021		981m	North
RE2	Private Recreation		Parramatta Local Environmental Plan 2011	18/12/2015	18/12/2015	18/06/2021	Amendment No 10	984m	South East
RE1	Public Recreation		Parramatta Local Environmental Plan 2011	07/10/2011	07/10/2011	18/06/2021		998m	North West

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Heritage Items

Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145



Scale:
0 100 200 300 400 500 600
Meters

Data Sources: Property Boundaries & Topographic Data:
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Heritage - NSW Crown Copyright - Planning & Environment

Coordinate System:
GDA 1994 MGA Zone 56

Date: 10 November 2021

Heritage

Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145

Commonwealth Heritage List

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

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

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

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

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

Place Id	Name	Address	Place File No	Class	Status	Register Date	Distance	Direction
105957	Old Government House and the Government Domain	O'Connell St, Parramatta NSW	1/14/028/0109	Historic	Listed place	01/08/2007	212m	East

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

What are the State Heritage Register Items located within the dataset buffer?

Map Id	Name	Address	LGA	Listing Date	Listing No	Plan No	Distance	Direction
5051462	Parramatta Park and Old Government House	O'Connell Street, Parramatta	CITY OF PARRAMATTA	02/04/1999	00596	1547	183m	South East
5051462	Parramatta Park and Old Government House	O'Connell Street, Parramatta	CITY OF PARRAMATTA	02/04/1999	00596	1547	212m	East
5051959	Cumberland District Hospital Group	5 Fleet Street Parramatta	CITY OF PARRAMATTA	02/04/1999	00820	2253	820m	North East
5045170	Essington	2,4,6,8 Bridge Road Westmead	CUMBERLAND	02/04/1999	00204	477	951m	South West

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Environmental Planning Instrument - Heritage

What are the EPI Heritage Items located within the dataset buffer?

Map Id	Name	Classification	Significance	EPI Name	Published Date	Commenced Date	Currency Date	Distance	Direction
I153	Westmead Public School, circa 1917	Item - General	Local	Holroyd Local Environmental Plan 2013	05/04/2013	05/08/2013	09/10/2015	20m	South West
I628	University of Western Sydney	Item - General	Local	Parramatta Local Environmental Plan 2011	21/02/2020	21/02/2020	26/02/2021	84m	North West
I629	Victorian residence (in grounds of UWS)	Item - General	Local	Parramatta Local Environmental Plan 2011	21/02/2020	21/02/2020	26/02/2021	84m	North West
I151	Westmead Progress Association Hall	Item - General	Local	Holroyd Local Environmental Plan 2013	05/04/2013	05/08/2013	09/10/2015	116m	South
I156	Inter-war bungalow	Item - General	Local	Holroyd Local Environmental Plan 2013	05/04/2013	05/08/2013	09/10/2015	184m	West
C3	Toohey's Plum Estate Group Conservation Area	Conservation Area - General	Local	Holroyd Local Environmental Plan 2013	05/04/2013	05/08/2013	09/10/2015	184m	West
I00596	Parramatta Park and old government house	Item - General	State	Parramatta Local Environmental Plan 2011	18/12/2015	18/12/2015	26/02/2021	184m	South East
I157	Inter-war bungalow	Item - General	Local	Holroyd Local Environmental Plan 2013	05/04/2013	05/08/2013	09/10/2015	199m	West
I00596	Parramatta Park and old government house	Item - General	State	Parramatta Local Environmental Plan 2011	18/12/2015	18/12/2015	26/02/2021	212m	East
I158	'Silver Grove', Inter-war bungalow	Item - General	Local	Holroyd Local Environmental Plan 2013	05/04/2013	05/08/2013	09/10/2015	215m	West
I163	Federation period cottage	Item - General	Local	Holroyd Local Environmental Plan 2013	05/04/2013	05/08/2013	09/10/2015	230m	South East
I159	'Girraween', Inter-war bungalow	Item - General	Local	Holroyd Local Environmental Plan 2013	05/04/2013	05/08/2013	09/10/2015	230m	West
I160	'Maxville', Inter-war bungalow	Item - General	Local	Holroyd Local Environmental Plan 2013	05/04/2013	05/08/2013	09/10/2015	245m	West
I146	Inter-war bungalow	Item - General	Local	Holroyd Local Environmental Plan 2013	05/04/2013	05/08/2013	09/10/2015	245m	South West
I147	Inter-war bungalow	Item - General	Local	Holroyd Local Environmental Plan 2013	05/04/2013	05/08/2013	09/10/2015	258m	South West
I161	Inter-war bungalow	Item - General	Local	Holroyd Local Environmental Plan 2013	05/04/2013	05/08/2013	09/10/2015	260m	West
I148	Inter-war bungalow	Item - General	Local	Holroyd Local Environmental Plan 2013	05/04/2013	05/08/2013	09/10/2015	272m	South West
I162	Inter-war bungalow	Item - General	Local	Holroyd Local Environmental Plan 2013	05/04/2013	05/08/2013	09/10/2015	291m	West
I165	Attached residence	Item - General	Local	Holroyd Local Environmental Plan 2013	05/04/2013	05/08/2013	09/10/2015	534m	South East
I164	Attached residence	Item - General	Local	Holroyd Local Environmental Plan 2013	05/04/2013	05/08/2013	09/10/2015	551m	South East
I152	'Deskford', Cabrini Nursing Home, circa 1876'1900	Item - General	Local	Holroyd Local Environmental Plan 2013	05/04/2013	05/08/2013	09/10/2015	614m	South
I154	Victorian/Georgian cottage	Item - General	Local	Holroyd Local Environmental Plan 2013	05/04/2013	05/08/2013	09/10/2015	644m	South
I149	Late Victorian cottage	Item - General	Local	Holroyd Local Environmental Plan 2013	05/04/2013	05/08/2013	09/10/2015	651m	South East
I155	Federation residence	Item - General	Local	Holroyd Local Environmental Plan 2013	05/04/2013	05/08/2013	09/10/2015	702m	South East

Map Id	Name	Classification	Significance	EPI Name	Published Date	Commenced Date	Currency Date	Distance	Direction
I150	'The Firs', Victorian Picturesque Gothic residence	Item - General	Local	Holroyd Local Environmental Plan 2013	05/04/2013	05/08/2013	09/10/2015	742m	South East
I166	Inter-war (Mediterranean influences) apartment block	Item - General	Local	Holroyd Local Environmental Plan 2013	05/04/2013	05/08/2013	09/10/2015	771m	South East
I107	'Yoorooga', late Victorian cottage	Item - General	Local	Holroyd Local Environmental Plan 2013	05/04/2013	05/08/2013	09/10/2015	790m	South West
I142	Inter-war bungalow	Item - General	Local	Holroyd Local Environmental Plan 2013	05/04/2013	05/08/2013	09/10/2015	792m	West
I145	'Allengreen', Federation bungalow	Item - General	Local	Holroyd Local Environmental Plan 2013	05/04/2013	05/08/2013	09/10/2015	801m	South East
I00820	Cumberland Hospital including Wisteria Gardens	Item - General	State	Parramatta Local Environmental Plan 2011	07/10/2011	07/10/2011	26/02/2021	821m	North East
I134	Federation period cottage	Item - General	Local	Holroyd Local Environmental Plan 2013	05/04/2013	05/08/2013	09/10/2015	899m	West
I111	Late Victorian cottage	Item - General	Local	Holroyd Local Environmental Plan 2013	05/04/2013	05/08/2013	09/10/2015	938m	South West
I110	Inter-war bungalow	Item - General	Local	Holroyd Local Environmental Plan 2013	05/04/2013	05/08/2013	09/10/2015	941m	South West
C2	Fullagar Road Conservation Area	Conservation Area - General	Local	Holroyd Local Environmental Plan 2013	05/04/2013	05/08/2013	09/10/2015	941m	South West
I106	"Essington", late Victorian/Federation Residence, garden setting and trees	Item - General	State	Holroyd Local Environmental Plan 2013	05/04/2013	05/08/2013	09/10/2015	951m	South West
I112	Inter-war bungalow	Item - General	Local	Holroyd Local Environmental Plan 2013	05/04/2013	05/08/2013	09/10/2015	956m	South West
I113	Inter-war bungalow	Item - General	Local	Holroyd Local Environmental Plan 2013	05/04/2013	05/08/2013	09/10/2015	971m	South West
I114	Inter-war bungalow	Item - General	Local	Holroyd Local Environmental Plan 2013	05/04/2013	05/08/2013	09/10/2015	987m	South West

Heritage Data Source: NSW Crown Copyright - Planning & Environment

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Natural Hazards

Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145

Bush Fire Prone Land

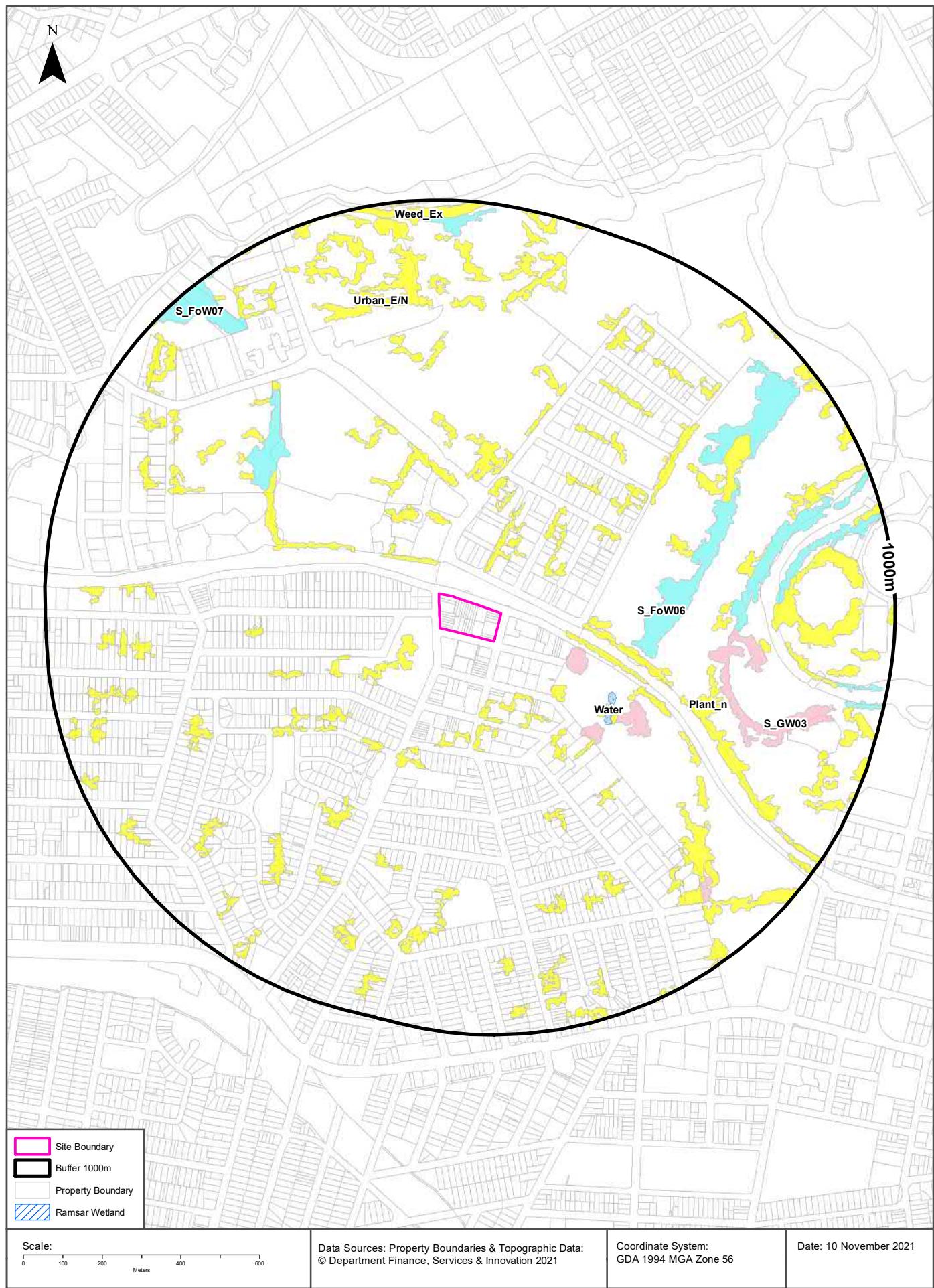
What are the nearest Bush Fire Prone Land Categories that exist within the dataset buffer?

Bush Fire Prone Land Category	Distance	Direction
No records in buffer		

NSW Bush Fire Prone Land - © NSW Rural Fire Service under Creative Commons 4.0 International Licence

Ecological Constraints - Vegetation & Ramsar Wetlands

Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145



Ecological Constraints

Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145

Native Vegetation

What native vegetation exists within the dataset buffer?

Map ID	Map Unit Name	Threatened Ecological Community NSW	Threatened Ecological Community EPBC Act	Understorey	Disturbance	Disturbance Index	Dominant Species	Dist	Dir
Urban_E/N	Urban_E/N: Urban Exotic/Native			00: Not assessed	00: Not assessed	0: Not assessed	Urban Exotic/Native	70m	North West
S_GW03	S_GW03: Cumberland Shale Plains Woodland	Cumberland Plain Woodland	Cumberland Plain Woodland/ Shale Gravel Forest (possible)	15: Grassy natives and exotics	31: Parkland open understorey	4: Very high	E.tereticornis/E.m olucannaE.crebra /E.eugeinioides	187m	East
Water	Water			00: Not assessed	00: Not assessed	0: Not assessed	Water	319m	South East
S_FoW06	S_FoW06: Cumberland Riverflat Forest	River Flat Eucalypt Forest		20: Weeds and exotics	20: Previously cleared 1943	3: High	E.tereticornis/E.a mpilifolia/A.floribunda	337m	East
Weed_Ex	Weed_Ex: Weeds and Exotics			00: Not assessed	00: Not assessed	0: Not assessed	Exotic Species >90% cover	408m	North West
Plant_n	Plant_n: Plantation (native and/or exotic)			00: Not assessed	00: Not assessed	0: Not assessed	Native or Exotic Plantations	491m	South East
S_FoW07	S_FoW07: Cumberland Swamp Oak Riparian Forest	River Flat Eucalypt Forest		15: Grassy natives and exotics	20: Previously cleared 1943	3: High	C.glauchaEucalypts	509m	North West
S_GW03	S_GW03: Cumberland Shale Plains Woodland	Cumberland Plain Woodland	Cumberland Plain Woodland/ Shale Gravel Forest (possible)	20: Weeds and exotics	20: Previously cleared 1943	3: High	E.tereticornis/E.m olucannaE.crebra /E.eugeinioides	534m	East
S_FoW06	S_FoW06: Cumberland Riverflat Forest	River Flat Eucalypt Forest		15: Grassy natives and exotics	20: Previously cleared 1943	3: High	E.tereticornis/E.a mpilifolia/A.floribunda	580m	East
S_FoW07	S_FoW07: Cumberland Swamp Oak Riparian Forest	River Flat Eucalypt Forest		20: Weeds and exotics	20: Previously cleared 1943	3: High	C.glauchaEucalypts	832m	North West
S_FoW07	S_FoW07: Cumberland Swamp Oak Riparian Forest	River Flat Eucalypt Forest		18: Swampy sedges, shrubs, ferns and herbs	13: Weeds	3: High	C.glauchaEucalypts	865m	East
S_FoW06	S_FoW06: Cumberland Riverflat Forest	River Flat Eucalypt Forest		11: Semi sheltered dry/mesic	13: Weeds	3: High	E.saligna/A.floribunda/C.glaucha	989m	North West

Native Vegetation of the Sydney Metropolitan Area : NSW Office of Environment and Heritage
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Ramsar Wetlands

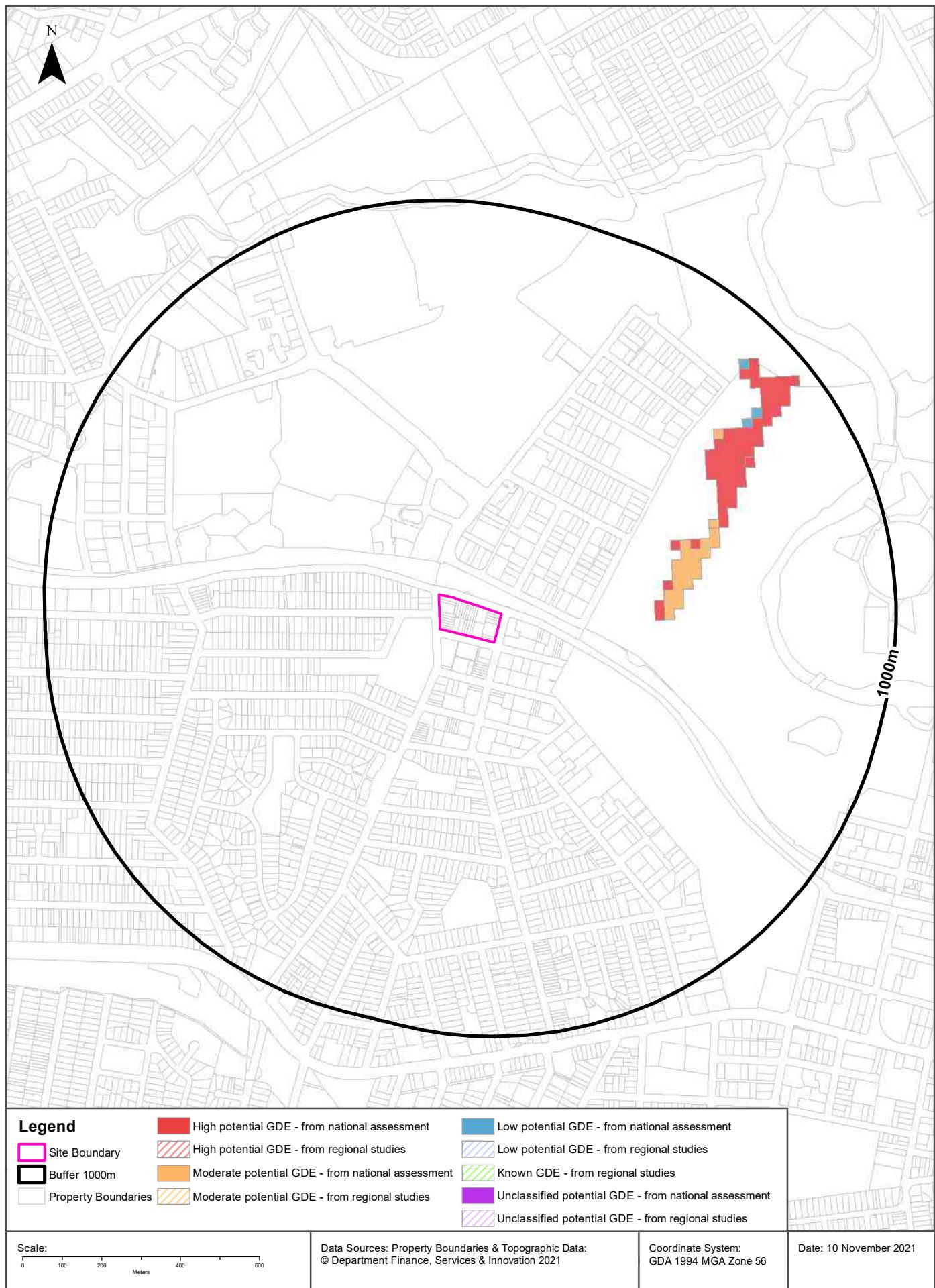
What Ramsar Wetland areas exist within the dataset buffer?

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

Ramsar Wetlands Data Source: © Commonwealth of Australia - Department of Agriculture, Water and the Environment

Ecological Constraints - Groundwater Dependent Ecosystems Atlas

Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145



Ecological Constraints

Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145

Groundwater Dependent Ecosystems Atlas

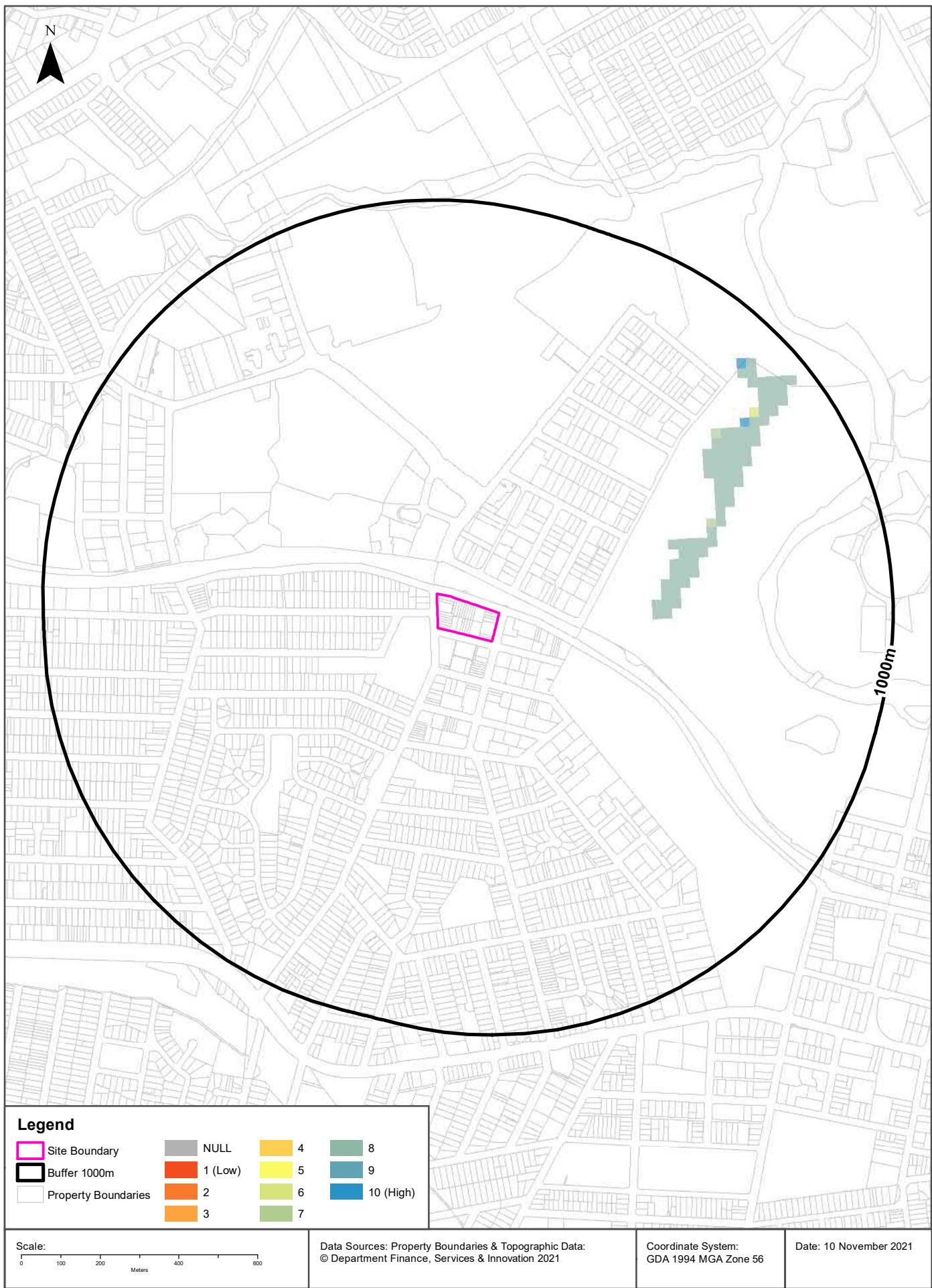
Type	GDE Potential	Geomorphology	Ecosystem Type	Aquifer Geology	Distance	Direction
Terrestrial	High potential GDE - from national assessment	Undulating to low hilly country, mainly on shale.	Vegetation	Consolidated sedimentary	387m	East
Terrestrial	Moderate potential GDE - from national assessment	Undulating to low hilly country, mainly on shale.	Vegetation	Consolidated sedimentary	412m	East
Terrestrial	Low potential GDE - from national assessment	Undulating to low hilly country, mainly on shale.	Vegetation	Consolidated sedimentary	771m	North East

Groundwater Dependent Ecosystems Atlas Data Source: The Bureau of Meteorology

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Ecological Constraints - Inflow Dependent Ecosystems Likelihood

Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145



Ecological Constraints

Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145

Inflow Dependent Ecosystems Likelihood

Type	IDE Likelihood	Geomorphology	Ecosystem Type	Aquifer Geology	Distance	Direction
Terrestrial	8	Undulating to low hilly country, mainly on shale.	Vegetation	Consolidated sedimentary	387m	East
Terrestrial	7	Undulating to low hilly country, mainly on shale.	Vegetation	Consolidated sedimentary	568m	East
Terrestrial	10	Undulating to low hilly country, mainly on shale.	Vegetation	Consolidated sedimentary	771m	North East
Terrestrial	6	Undulating to low hilly country, mainly on shale.	Vegetation	Consolidated sedimentary	806m	North East

Inflow Dependent Ecosystems Likelihood Data Source: The Bureau of Meteorology

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Ecological Constraints

Alexander Avenue, Hassall Street & Hawkesbury Road, Westmead, NSW 2145

NSW BioNet Atlas

Species on the NSW BioNet Atlas that have a NSW or federal conservation status, a NSW sensitivity status, or are listed under a migratory species agreement, and are within 10km of the site?

Kingdom	Class	Scientific	Common	NSW Conservation Status	NSW Sensitivity Class	Federal Conservation Status	Migratory Species Agreements
Animalia	Amphibia	<i>Litoria aurea</i>	Green and Golden Bell Frog	Endangered	Not Sensitive	Vulnerable	
Animalia	Amphibia	<i>Pseudophryne australis</i>	Red-crowned Toadlet	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	<i>Actitis hypoleucos</i>	Common Sandpiper	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	<i>Anseranas semipalmata</i>	Magpie Goose	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	<i>Anthochaera phrygia</i>	Regent Honeyeater	Critically Endangered	Not Sensitive	Critically Endangered	
Animalia	Aves	<i>Apus pacificus</i>	Fork-tailed Swift	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	<i>Ardenna tenuirostris</i>	Short-tailed Shearwater	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	<i>Arenaria interpres</i>	Ruddy Turnstone	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	<i>Artamus cyanopterus</i>	Dusky Woodswallow	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	<i>Botaurus poiciloptilus</i>	Australasian Bittern	Endangered	Not Sensitive	Endangered	
Animalia	Aves	<i>Calidris acuminata</i>	Sharp-tailed Sandpiper	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	<i>Calidris canutus</i>	Red Knot	Not Listed	Not Sensitive	Endangered	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	<i>Calidris ferruginea</i>	Curlew Sandpiper	Endangered	Not Sensitive	Critically Endangered	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	<i>Calidris melanotos</i>	Pectoral Sandpiper	Not Listed	Not Sensitive	Not Listed	ROKAMBA;JAMBA
Animalia	Aves	<i>Calidris ruficollis</i>	Red-necked Stint	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	<i>Calidris tenuirostris</i>	Great Knot	Vulnerable	Not Sensitive	Critically Endangered	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	<i>Callocephalon fimbriatum</i>	Gang-gang Cockatoo	Vulnerable	Category 3	Not Listed	
Animalia	Aves	<i>Callocephalon fimbriatum</i>	Gang-gang Cockatoo	Endangered Population, Vulnerable	Category 3	Not Listed	
Animalia	Aves	<i>Calyptorhynchus banksii samueli</i>	Red-tailed Black-Cockatoo (inland subspecies)	Vulnerable	Category 2	Not Listed	
Animalia	Aves	<i>Calyptorhynchus lathami</i>	Glossy Black-Cockatoo	Vulnerable	Category 2	Not Listed	
Animalia	Aves	<i>Charadrius leschenaultii</i>	Greater Sand-plover	Vulnerable	Not Sensitive	Vulnerable	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	<i>Chlidonias leucopterus</i>	White-winged Black Tern	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	<i>Circus assimilis</i>	Spotted Harrier	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	<i>Cuculus optatus</i>	Oriental Cuckoo	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	<i>Daphoenositta chrysotera</i>	Varied Sittella	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	<i>Epthianura albifrons</i>	White-fronted Chat	Endangered Population, Vulnerable	Not Sensitive	Not Listed	

Kingdom	Class	Scientific	Common	NSW Conservation Status	NSW Sensitivity Class	Federal Conservation Status	Migratory Species Agreements
Animalia	Aves	<i>Falco hypoleucus</i>	Grey Falcon	Endangered	Category 2	Not Listed	
Animalia	Aves	<i>Falco subniger</i>	Black Falcon	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	<i>Gallinago hardwickii</i>	Latham's Snipe	Not Listed	Not Sensitive	Not Listed	ROKAMBA;JAMBA
Animalia	Aves	<i>Gelochelidon nilotica</i>	Gull-billed Tern	Not Listed	Not Sensitive	Not Listed	CAMBA
Animalia	Aves	<i>Glossopsitta pusilla</i>	Little Lorikeet	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	<i>Haliaeetus leucogaster</i>	White-bellied Sea-Eagle	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	<i>Hieraetus morphnoides</i>	Little Eagle	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	<i>Hirundapus caudacutus</i>	White-throated Needletail	Not Listed	Not Sensitive	Vulnerable	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	<i>Hydroprogne caspia</i>	Caspian Tern	Not Listed	Not Sensitive	Not Listed	JAMBA
Animalia	Aves	<i>Ixobrychus flavicollis</i>	Black Bittern	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	<i>Lathamus discolor</i>	Swift Parrot	Endangered	Category 3	Critically Endangered	
Animalia	Aves	<i>Limicola falcinellus</i>	Broad-billed Sandpiper	Vulnerable	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	<i>Limosa lapponica</i>	Bar-tailed Godwit	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	<i>Limosa limosa</i>	Black-tailed Godwit	Vulnerable	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	<i>Lophoictinia isura</i>	Square-tailed Kite	Vulnerable	Category 3	Not Listed	
Animalia	Aves	<i>Motacilla flava</i>	Yellow Wagtail	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	<i>Neophema pulchella</i>	Turquoise Parrot	Vulnerable	Category 3	Not Listed	
Animalia	Aves	<i>Ninox connivens</i>	Barking Owl	Vulnerable	Category 3	Not Listed	
Animalia	Aves	<i>Ninox strenua</i>	Powerful Owl	Vulnerable	Category 3	Not Listed	
Animalia	Aves	<i>Numenius madagascariensis</i>	Eastern Curlew	Not Listed	Not Sensitive	Critically Endangered	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	<i>Numenius phaeopus</i>	Whimbrel	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	<i>Pandion cristatus</i>	Eastern Osprey	Vulnerable	Category 3	Not Listed	
Animalia	Aves	<i>Petroica boodang</i>	Scarlet Robin	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	<i>Petroica phoenicea</i>	Flame Robin	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	<i>Petroica rodinogaster</i>	Pink Robin	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	<i>Philomachus pugnax</i>	Ruff	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	<i>Pluvialis fulva</i>	Pacific Golden Plover	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	<i>Pluvialis squatarola</i>	Grey Plover	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	<i>Polytelis swainsonii</i>	Superb Parrot	Vulnerable	Category 3	Vulnerable	
Animalia	Aves	<i>Pomatostomus temporalis</i>	Grey-crowned Babbler (eastern subspecies)	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	<i>Ptilinopus superbus</i>	Superb Fruit-Dove	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	<i>Rostratula australis</i>	Australian Painted Snipe	Endangered	Not Sensitive	Endangered	
Animalia	Aves	<i>Sterna hirundo</i>	Common Tern	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	<i>Sternula albifrons</i>	Little Tern	Endangered	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA

Kingdom	Class	Scientific	Common	NSW Conservation Status	NSW Sensitivity Class	Federal Conservation Status	Migratory Species Agreements
Animalia	Aves	<i>Stictonetta naevosa</i>	Freckled Duck	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	<i>Thalasseus bergii</i>	Crested Tern	Not Listed	Not Sensitive	Not Listed	JAMBA
Animalia	Aves	<i>Tringa brevipes</i>	Grey-tailed Tattler	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	<i>Tringa glareola</i>	Wood Sandpiper	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	<i>Tringa nebularia</i>	Common Greenshank	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	<i>Tringa stagnatilis</i>	Marsh Sandpiper	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	<i>Tyto longimembris</i>	Eastern Grass Owl	Vulnerable	Category 3	Not Listed	
Animalia	Aves	<i>Tyto novaehollandiae</i>	Masked Owl	Vulnerable	Category 3	Not Listed	
Animalia	Aves	<i>Tyto tenebricosa</i>	Sooty Owl	Vulnerable	Category 3	Not Listed	
Animalia	Aves	<i>Xenus cinereus</i>	Terek Sandpiper	Vulnerable	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Gastropoda	<i>Meridolum corneovirens</i>	Cumberland Plain Land Snail	Endangered	Not Sensitive	Not Listed	
Animalia	Gastropoda	<i>Pommerhelix duralensis</i>	Dural Land Snail	Endangered	Not Sensitive	Endangered	
Animalia	Mammalia	<i>Cercartetus nanus</i>	Eastern Pygmy-possum	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	<i>Chalinolobus dwyeri</i>	Large-eared Pied Bat	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Mammalia	<i>Dasyurus maculatus</i>	Spotted-tailed Quoll	Vulnerable	Not Sensitive	Endangered	
Animalia	Mammalia	<i>Falsistrellus tasmaniensis</i>	Eastern False Pipistrelle	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	<i>Micronomus norfolkensis</i>	Eastern Coastal Free-tailed Bat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	<i>Miniopterus australis</i>	Little Bent-winged Bat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	<i>Miniopterus orianae oceanensis</i>	Large Bent-winged Bat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	<i>Myotis macropus</i>	Southern Myotis	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	<i>Petaurodes volans</i>	Greater Glider	Not Listed	Not Sensitive	Vulnerable	
Animalia	Mammalia	<i>Phascogale tapoatafa</i>	Brush-tailed Phascogale	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	<i>Phascolarctos cinereus</i>	Koala	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Mammalia	<i>Pteropus poliocephalus</i>	Grey-headed Flying-fox	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Mammalia	<i>Saccoaimus flaviventris</i>	Yellow-bellied Sheathtail-bat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	<i>Scoteanax rueppellii</i>	Greater Broad-nosed Bat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	<i>Vespadelus troughtoni</i>	Eastern Cave Bat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Reptilia	<i>Aspidites ramsayi</i>	Woma	Vulnerable	Not Sensitive	Not Listed	
Animalia	Reptilia	<i>Caretta caretta</i>	Loggerhead Turtle	Endangered	Not Sensitive	Endangered	
Animalia	Reptilia	<i>Chelonia mydas</i>	Green Turtle	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Reptilia	<i>Tiliqua occipitalis</i>	Western Blue-tongued Lizard	Vulnerable	Not Sensitive	Not Listed	
Plantae	Flora	<i>Acacia bynoeana</i>	Bynoe's Wattle	Endangered	Not Sensitive	Vulnerable	
Plantae	Flora	<i>Acacia clunies-rossiae</i>	Kanangra Wattle	Vulnerable	Not Sensitive	Not Listed	
Plantae	Flora	<i>Acacia pubescens</i>	Downy Wattle	Vulnerable	Not Sensitive	Vulnerable	

Kingdom	Class	Scientific	Common	NSW Conservation Status	NSW Sensitivity Class	Federal Conservation Status	Migratory Species Agreements
Plantae	Flora	<i>Argyroxiphium nitidulum</i>	Shining Cudweed	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	<i>Callistemon linearifolius</i>	Netted Bottle Brush	Vulnerable	Category 3	Not Listed	
Plantae	Flora	<i>Darwinia biflora</i>		Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	<i>Dillwynia tenuifolia</i>		Endangered Population, Vulnerable	Not Sensitive	Not Listed	
Plantae	Flora	<i>Dillwynia tenuifolia</i>		Vulnerable	Not Sensitive	Not Listed	
Plantae	Flora	<i>Epacris purpurascens</i> var. <i>purpurascens</i>		Vulnerable	Not Sensitive	Not Listed	
Plantae	Flora	<i>Eucalyptus leucoxylon</i> subsp. <i>pruinosa</i>	Yellow Gum	Vulnerable	Not Sensitive	Not Listed	
Plantae	Flora	<i>Eucalyptus nicholii</i>	Narrow-leaved Black Peppermint	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	<i>Eucalyptus scoparia</i>	Wallangarra White Gum	Endangered	Not Sensitive	Vulnerable	
Plantae	Flora	<i>Grammitis stenophylla</i>	Narrow-leaf Finger Fern	Endangered	Category 3	Not Listed	
Plantae	Flora	<i>Grevillea beadleana</i>	Beadle's Grevillea	Endangered	Category 3	Endangered	
Plantae	Flora	<i>Grevillea juniperina</i> subsp. <i>juniperina</i>	Juniper-leaved Grevillea	Vulnerable	Not Sensitive	Not Listed	
Plantae	Flora	<i>Hibbertia superans</i>		Endangered	Not Sensitive	Not Listed	
Plantae	Flora	<i>Isotoma fluviatilis</i> subsp. <i>fluviatilis</i>		Not Listed	Not Sensitive	Extinct	
Plantae	Flora	<i>Macadamia integrifolia</i>	Macadamia Nut	Not Listed	Not Sensitive	Vulnerable	
Plantae	Flora	<i>Macadamia tetraphylla</i>	Rough-shelled Bush Nut	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	<i>Marsdenia viridiflora</i> subsp. <i>viridiflora</i>	Native Pear	Endangered Population	Not Sensitive	Not Listed	
Plantae	Flora	<i>Persoonia hirsuta</i>	Hairy Geebung	Endangered	Category 3	Endangered	
Plantae	Flora	<i>Persoonia nutans</i>	Nodding Geebung	Endangered	Not Sensitive	Endangered	
Plantae	Flora	<i>Pimelea curviflora</i> var. <i>curviflora</i>		Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	<i>Pimelea spicata</i>	Spiked Rice-flower	Endangered	Not Sensitive	Endangered	
Plantae	Flora	<i>Pomaderris brunnea</i>	Brown Pomaderris	Endangered	Not Sensitive	Vulnerable	
Plantae	Flora	<i>Pomaderris prunifolia</i>	Plum-leaf Pomaderris	Endangered Population	Not Sensitive	Not Listed	
Plantae	Flora	<i>Pterostylis gibbosa</i>	Illawarra Greenhood	Endangered	Category 2	Endangered	
Plantae	Flora	<i>Pterostylis saxicola</i>	Sydney Plains Greenhood	Endangered	Category 2	Endangered	
Plantae	Flora	<i>Pultenaea parviflora</i>		Endangered	Not Sensitive	Vulnerable	
Plantae	Flora	<i>Pultenaea pedunculata</i>	Matted Bush-pea	Endangered	Not Sensitive	Not Listed	
Plantae	Flora	<i>Rhodamnia rubescens</i>	Scrub Turpentine	Critically Endangered	Not Sensitive	Not Listed	
Plantae	Flora	<i>Senecio behrianus</i>		Presumed Extinct	Not Sensitive	Endangered	
Plantae	Flora	<i>Syzygium paniculatum</i>	Magenta Lilly Pilly	Endangered	Not Sensitive	Vulnerable	
Plantae	Flora	<i>Tetrapetra glandulosa</i>		Vulnerable	Not Sensitive	Not Listed	
Plantae	Flora	<i>Triplarina imbricata</i>	Creek Triplarina	Endangered	Not Sensitive	Endangered	

Kingdom	Class	Scientific	Common	NSW Conservation Status	NSW Sensitivity Class	Federal Conservation Status	Migratory Species Agreements
Plantae	Flora	<i>Wahlenbergia multicaulis</i>	Tadgell's Bluebell	Endangered Population	Not Sensitive	Not Listed	
Plantae	Flora	<i>Wilsonia backhousei</i>	Narrow-leaved Wilsonia	Vulnerable	Not Sensitive	Not Listed	
Plantae	Flora	<i>Zannichellia palustris</i>		Endangered	Not Sensitive	Not Listed	

Data does not include NSW category 1 sensitive species.

NSW BioNet: © State of NSW and Office of Environment and Heritage

Location Confidences

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

LC Code	Location Confidence
Premise Match	Georeferenced to the site location / premise or part of site
Area Match	Georeferenced to an approximate or general area
Road Match	Georeferenced to a road or rail corridor
Road Intersection	Georeferenced to a road intersection
Buffered Point	A point feature buffered to x metres
Adjacent Match	Land adjacent to a georeferenced feature
Network of Features	Georeferenced to a network of features
Suburb Match	Georeferenced to a suburb boundary
As Supplied	Spatial data supplied by provider

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 - (h) the Report does not include any information relating to the actual state or condition of the Property;
 - (i) the Report should not be used or taken to indicate or exclude actual fitness or unfitness of Land or Property for any particular purpose
 - (j) the Report should not be relied upon for determining saleability or value or making any other decisions in relation to the Property and in particular should not be taken to be a rating or assessment of the desirability or market value of the property or its features; and
 - (k) the End User should undertake its own inspections of the Land or Property to satisfy itself that there are no defects or failures
2. The End User may not make the Report or any copies or extracts of the report or any part of it available to any other person. If End User wishes to provide the Report to any other person or make extracts or copies of the Report, it must contact the purchaser of the Report before doing so to ensure the proposed use is consistent with the contract terms between Lotsearch and the purchaser.
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 - (a) acknowledges that the Lotsearch (nor any of its officers, employees or agents), nor any of its Third Party Content Supplier have any liability to it under or in connection with the

- Report or these Terms;
- (b) waives any right it may have to claim against Third Party Content Supplier in connection with the Report, or the negotiation of, entry into, performance of, or termination of these Terms; and
 - (c) releases each Third Party Content Supplier from any claim it may have otherwise had in connection with the Report, or the negotiation of, entry into, performance of, or termination of these Terms.
5. The End User acknowledges that any Third Party Supplier shall be entitled to plead the benefits conferred on it under clause 4, despite not being a party to these terms.
 6. End User must not remove any copyright notices, trade marks, digital rights management information, other embedded information, disclaimers or limitations from the Report or authorise any person to do so.
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 8. To the extent permitted by law and subject to paragraph 9, all implied terms, representations and warranties whether statutory or otherwise relating to the subject matter of these Terms other than as expressly set out in these Terms are excluded.
 9. Subject to paragraph 6, Lotsearch excludes liability to End User for loss or damage of any kind, however caused, due to Lotsearch's negligence, breach of contract, breach of any law, in equity, under indemnities or otherwise, arising out of all acts, omissions and events whenever occurring.
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 - (a) any indirect, incidental, consequential, special or exemplary damages arising out of or in relation to the Report or these Terms; or
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 12. These Terms are subject to New South Wales law.

Appendix IX – Section 10.7 Certificate



APPLICANT: Lotsearch Pty Ltd
Level 3
68 Alfred Street
MILSONS POINT NSW 2061

PLANNING CERTIFICATE

Issued under section 10.7(2) Environmental Planning and Assessment Act 1979

Property: 20-22 Alexandra Avenue WESTMEAD NSW 2145
Title: SP 67282
Land No: 129297
Certificate No: PC2021/5680
Certificate Date: 18/11/2021
Applicant's Ref: LS026281

SECTION 10.7(2)

In accordance with the requirements of section 10.7(2) of the Environmental Planning and Assessment Act (1979) ("the Act"), the following prescribed matters relate to the land at the date of this certificate.

ITEM 1 - Names of relevant planning instruments and DCPs

- 1. The following environmental planning instruments apply to the carrying out of development on the land:**

Cumberland Local Environmental Plan 2021

State Environmental Planning Policy No. 19 – Bushland in Urban Areas
State Environmental Planning Policy No. 30 – Intensive Agriculture
State Environmental Planning Policy No. 33 – Hazardous and Offensive Development
State Environmental Planning Policy No. 50 – Canal Estates
State Environmental Planning Policy No. 55 – Remediation of Land
State Environmental Planning Policy No. 62 – Sustainable Aquaculture
State Environmental Planning Policy No. 64 – Advertising and Signage
State Environmental Planning Policy No. 65 – Design Quality of Residential Flat Development
State Environmental Planning Policy No. 70 – Affordable Housing (Revised Schemes)
State Environmental Planning Policy – SEPP (Housing for Seniors or People with a Disability) 2004
State Environmental Planning Policy – Building Sustainability Index: BASIX 2004
State Environmental Planning Policy – (Mining, Petroleum Production and Extractive Industries) 2007
State Environmental Planning Policy – (Infrastructure) 2007
State Environmental Planning Policy – (Temporary Structures) 2007
State Environmental Planning Policy – (Exempt and Complying Development Codes) 2008
State Environmental Planning Policy – (Repeal of Concurrence and Referral Provisions) 2008
State Environmental Planning Policy – (Affordable Rental Housing) 2009
State Environmental Planning Policy – (Vegetation in Non-Rural Areas) 2017
State Environmental Planning Policy – (Educational Establishments and Child Care Facilities) 2017
State Environmental Planning Policy – (Primary Production and Rural Development) 2019
State Environmental Planning Policy – (State and Regional Development) 2011
State Environmental Planning Policy – (Concurrences) 2018
State Environmental Planning Policy No. 21 – Caravan Parks

Sydney Regional Environmental Plan No. 9 – Extractive Industry (No. 2 – 1995)
Sydney Regional Environmental Plan (Sydney Harbour Catchment) 2005

- 2. The following proposed environmental planning instruments apply to the carrying out of development on the land and are or have been the subject of community consultation or on public exhibition under the Environmental Planning and Assessment Act 1979:**

No proposed environmental planning instruments apply

- 3. The following development control plans apply to the carrying out of development on the land:**

Cumberland Development Control Plan 2021

ITEM 2 - Zoning and land use under relevant LEPs**1. (a) Zoning details in the instruments identified in ITEM 1(1) above****Zone R4 High Density Residential****1. Objectives of zone**

- To provide for the housing needs of the community within a high density residential environment.
- To provide a variety of housing types within a high density residential environment.
- To enable other land uses that provide facilities or services to meet the day to day needs of residents.
- To ensure that non-residential land uses are located in a setting that minimises impacts on the amenity of a high density residential environment.
- To encourage residential development that maintains the amenity of the surrounding area.

2. Permitted without consent

Home occupations

3. Permitted with consent

Attached dwellings; Bed and breakfast accommodation; Boarding houses; Building identification signs; Business identification signs; Centre-based child care facilities; Community facilities; Home industries; Hostels; Kiosks; Multi dwelling housing; Neighbourhood shops; Oyster aquaculture; Places of public worship; Residential flat buildings; Respite day care centres; Roads; Seniors housing; Shop top housing; Water recycling facilities; Any other development not specified in item 2 or 4

4. Prohibited

Agriculture; Air transport facilities; Airstrips; Amusement centres; Animal boarding or training establishments; Boat building and repair facilities; Boat sheds; Camping grounds; Car parks; Caravan parks; Cemeteries; Charter and tourism boating facilities; Commercial premises; Correctional centres; Crematoria; Depots; Dwelling houses; Eco-tourist facilities; Electricity generating works; Entertainment facilities; Environmental facilities; Exhibition villages; Extractive industries; Farm buildings; Forestry; Freight transport facilities; Function centres; Heavy industrial storage establishments; Helipads; Highway service centres; Home occupations (sex services); Industrial retail outlets; Industrial training facilities; Industries; Information and education facilities; Marinas; Mooring pens; Moorings; Mortuaries; Open cut mining; Passenger transport facilities; Pond-based aquaculture; Port facilities; Recreation facilities (major); Registered clubs; Research stations; Residential accommodation; Restricted premises; Rural industries; Service stations; Sewerage systems; Sex services premises; Signage; Storage premises; Tank-based aquaculture; Tourist and visitor accommodation; Transport depots; Truck depots; Vehicle body repair workshops; Vehicle repair stations; Veterinary hospitals; Warehouse or distribution centres; Waste or resource management facilities; Water recreation structures; Water supply systems; Wharf or boating facilities; Wholesale supplies

Additional permitted uses

No additional uses apply

(b) Are there development standards applying to the land, which fix minimum land dimensions for the erection of a dwelling house on the land?

No fixed minimum land dimensions apply to this land

(c) Does the land include or comprise critical habitat?

The land does not include or comprise critical habitat

(d) Is the land within a heritage conservation area?

The land is not within a heritage conservation area

(e) Is there a heritage item situated on the land?

There are no heritage items situated on the land

2. (a) Zoning details in the instruments identified in ITEM 1(2) above

No draft zoning applies to the land

Additional permitted uses

No draft additional uses apply

(b) Are there development standards applying to the land, which fix minimum land dimensions for the erection of a dwelling house on the land?

No fixed minimum land dimensions apply to the land under a draft environmental planning instrument

(c) Does the land include or comprise critical habitat?

The land does not include or comprise critical habitat under a draft environmental planning instrument

(d) Is the land within a draft heritage conservation area?

The land is not within a draft heritage conservation area

(e) Is there a draft heritage item situated on the land?

There are no draft heritage items situated on the land

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

Is the land identified within any zone under Part 3 of State Environmental Planning Policy (Sydney Region Growth Centres) 2006, a Precinct Plan, or a Proposed Precinct Plan that is or has been the subject of community consultation or on public exhibition under the Act?

No

ITEM 3 – Complying Development Exclusions

Is the land, land on which complying development may be carried out under 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?

Complying development can be carried out subject to the land not being affected by flooding referred to in ITEM 7A(1).

Housing Code

Yes, under the Housing Code complying development may be carried out on the land.

Low Rise Housing Diversity Code

Yes, under the Low Rise Housing Diversity Code complying development may be carried out on the land.

Rural Housing Code

Yes, under the Rural Housing Code complying development may be carried out on the land.

Housing Alterations Code

Yes, under the Housing Alterations Code complying development may be carried out on the land.

General Development Code

Yes, under the General Development Code complying development may be carried out on the land.

Commercial and Industrial Alterations Code

Yes, under the General Commercial and Industrial Code complying development may be carried out on the land.

Commercial and Industrial (New Buildings and Additions) Code

Yes, under the General Commercial and Industrial (New Buildings and Additions) Code complying development may be carried out on the land.

Container Recycling Facilities Code

Yes, under the Container Recycling Facilities Code complying development may be carried out on the land.

Subdivisions Code

Yes, under the Subdivisions Code complying development may be carried out on the land.

Demolition Code

Yes, under the Demolition Code complying development may be carried out on the land.

Fire Safety Code

Yes, under the Fire Safety Code complying development may be carried out on the land.

ITEM 4 – (Repealed)

ITEM 4A – (Repealed)

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

Has the owner (or any previous owner) of the land 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

ITEM 5 – Mine subsidence

Is the land proclaimed to be in a mine subsidence district within the meaning of the Coal Mine Subsidence Compensation Act 2017?

No

ITEM 6 – Road widening and road realignment

Is the land affected by any road widening or road realignment under:

- (a) *Division 2 of Part 3 of the Roads Act 1993; or*
- (b) *Any environmental planning instrument; or*
- (c) *Any resolution of the Council?*

No

ITEM 7 – Council and other public authority policies on hazard risk restrictions

(a) Whether or not the land is affected by a policy adopted by the Council that restricts the development of the land because of the likelihood of:-

- | | | |
|-------|---------------------|----|
| (i) | land slip | No |
| (ii) | bushfire | No |
| (iii) | tidal inundation | No |
| (iv) | subsidence | No |
| (v) | acid sulphate soils | No |
| (vi) | land contamination | No |
| (vii) | Other Risk | No |

(b) Whether or not the land is affected by a policy adopted by any other public authority and notified to the Council for the express purpose of its adoption by that authority being referred to in planning certificates issued by the Council that restricts the development of the land because of the likelihood of:-

- | | | |
|-------|---------------------|----|
| (i) | land slip | No |
| (ii) | bushfire | No |
| (iii) | tidal inundation | No |
| (iv) | subsidence | No |
| (v) | acid sulphate soils | No |
| (vi) | land contamination | No |
| (vii) | Other Risk | No |

ITEM 7A – Flood related development controls information

1. *Is the land or part of the land within the flood planning area and subject to flood - related development controls.*

Yes

2. *Is the land or part of the land between the flood planning area and the probable maximum flood (PMF) and subject to flood-related development controls.*

No

3. *In this clause -*

flood planning area has the same meaning as in the Floodplain Development Manual.

Floodplain Development Manual means the Floodplain Development Manual (ISBN 0 7347 5476 0) published by the NSW Government in April 2005.

probable maximum flood has the same meaning as in the Floodplain Development Manual.

ITEM 8 – Land reserved for acquisition

Is there an environmental planning instrument, or proposed environmental planning instrument referred to in clause 1 which makes provision in relation to the acquisition of the land by a public authority, as referred to in section 3.15 of the Environmental Planning and Assessment Act 1979?

No

ITEM 9 – Contributions plans

The name of each contributions plan applying to the land is:-

Cumberland Local Infrastructure Contributions Plan 2020

ITEM 9A - Biodiversity certified land

Is the land biodiversity certified land under Part 8 of the Biodiversity Conservation Act 2016 (including land certified under Part 7AA of the Threatened Species Conservation Act 1995)?

No

ITEM 10 – Biodiversity stewardship sites

Has Council been notified by the Chief Executive of the Office of Environment and Heritage that the land is a biodiversity stewardship site under a biodiversity stewardship agreement under Part 5 of the Biodiversity Conservation Act 2016 (including biobanking agreements under Part 7A of the Threatened Species Conservation Act 1995)?

No

ITEM 10A – Native vegetation clearing set asides

Under section 60ZC of the Local Land Service Act 2013, has Council been notified by Local Land Services (or is it registered in the public register under that section) that the land contains a set aside area?

No

ITEM 11 – Bush fire prone land

- | | | |
|-----|--|-----|
| (a) | <i>All of the land is bush fire prone land.</i> | No |
| (b) | <i>Some of the land is bush fire prone land.</i> | No |
| (c) | <i>None of the land is bush fire prone land.</i> | Yes |
-

ITEM 12 – Property vegetation plans

Has Council been notified (by the person or body that approved the plan) of the existence of a property vegetation plan approved under Part 4 of the Native Vegetation Act 2003 (and that continues in force) applying to the land?

No

ITEM 13 – Orders under Trees (Disputes Between Neighbours) Act 2006

Has Council been notified that 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

ITEM 14 – Directions under Part 3A

Is there a direction by the Minister in force under section 75P (2) (c1) of the Environmental Planning and Assessment Act 1979 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

ITEM 15 – Site compatibility certificates and conditions for seniors housing

- (a) Has a current site compatibility certificate (seniors housing), of which the Council is aware, been issued under State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 in respect of proposed development on the land?

No

- (b) Have any terms of a kind referred to in clause 18(2) of State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 been imposed as a condition of consent to a development application granted after 11 October 2007 in respect of the land?

No

ITEM 16 – Site compatibility certificates for infrastructure, schools or TAFE establishments

Has a valid site compatibility certificate (infrastructure) or a site compatibility certificate (schools or TAFE establishments), of which the Council is aware, been issued?

No

ITEM 17 – Site compatibility certificates and conditions for affordable rental housing

1. *Has a current site compatibility certificate (affordable rental housing), of which the Council is aware, been issued in respect of proposed development on the land?*

No

2. *Have any terms of a kind referred to in clause 17(1) or 38(1) of State Environmental Planning Policy (Affordable Rental Housing) 2009 been imposed as a condition of consent to a development application in respect of the land?*

No

ITEM 18 – Paper subdivision information

Has a development plan been adopted that applies to the land or that is proposed to be subject to a consent ballot?

No

ITEM 19 – Site verification certificates

Has Council been made aware of a current site verification certificate that has been issued in respect of the land?

No

ITEM 20 – Loose – fill asbestos insulation

Has Council been notified that 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

ITEM 21 – Affected building notices and building product rectification orders

1. *Is any affected building notice in force in respect of the land?*

No

2. *Is any building product rectification order in force in respect of the land that has not been fully complied with?*

No

3. Has a notice of intention to make a building product rectification order been given in respect of that land that is outstanding?

No

ITEM 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.

The land is not affected.

NOTE 1 – Matters arising under the Contaminated Land Management Act 1997

Section 59(2) of the Contaminated Land Management Act 1997 prescribes the following additional matters to be specified in planning certificates:-

- (a) *At the date of this certificate, is the land (or part of the land) to which this certificate relates significantly contaminated land?*
No
- (b) *At the date of this certificate, is the land to which this certificate relates subject to a management order?*
No
- (c) *At the date of this certificate, is the land to which this certificate relates the subject of an approved voluntary management proposal?*
No
- (d) *At the date of this certificate, is the land to which this certificate relates subject to an ongoing maintenance order?*
No
- (e) *At the date of this certificate, is the land to which this certificate relates the subject of a site audit statement and a copy of such a statement has been provided to the Council?*
No

GENERAL INFORMATION

The absence of any reference to a matter affecting the land shall not imply that the land is not affected by that matter not referred to in this certificate.

Information provided under section 10.7(2) is in accordance with the matters prescribed under schedule 4 of the Environmental Planning and Assessment Regulation 2000 and is provided only to the extent that the Council has been notified by the Department of Public Works or Department of Planning.

When advice in accordance with section 10.7(5) is requested the Council is under no obligation to furnish any advice. If advice is provided Council draws your attention to section 10.7(6) and schedule 6 of the *Environmental Planning and Assessment Act 1979* which have the effect that Council shall not incur any liability in respect of advice provided in good faith pursuant to section 10.7(5), including the furnishing of advice in respect of contaminated land.

Any enquiries regarding State and Regional Environmental Planning Policies should be directed to the Department of Planning at <http://www.planning.nsw.gov.au>

Please contact Council's Strategic Planning section for further information about this Planning Certificate.

Peter J Fitzgerald
GENERAL MANAGER



APPLICANT: Lotsearch Pty Ltd
Level 3
68 Alfred Street
MILSONS POINT NSW 2061

PLANNING CERTIFICATE

Issued under section 10.7(2) Environmental Planning and Assessment Act 1979

Property: 24 Alexandra Avenue WESTMEAD NSW 2145
Title: Lot 42 Sec A DP 4036
Land No: 80082
Certificate No: PC2021/5666
Certificate Date: 18/11/2021
Applicant's Ref: LS026281

SECTION 10.7(2)

In accordance with the requirements of section 10.7(2) of the Environmental Planning and Assessment Act (1979) ("the Act"), the following prescribed matters relate to the land at the date of this certificate.

ITEM 1 - Names of relevant planning instruments and DCPs

- 1. The following environmental planning instruments apply to the carrying out of development on the land:**

Cumberland Local Environmental Plan 2021

State Environmental Planning Policy No. 19 – Bushland in Urban Areas
State Environmental Planning Policy No. 30 – Intensive Agriculture
State Environmental Planning Policy No. 33 – Hazardous and Offensive Development
State Environmental Planning Policy No. 50 – Canal Estates
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State Environmental Planning Policy No. 62 – Sustainable Aquaculture
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State Environmental Planning Policy No. 65 – Design Quality of Residential Flat Development
State Environmental Planning Policy No. 70 – Affordable Housing (Revised Schemes)
State Environmental Planning Policy – SEPP (Housing for Seniors or People with a Disability) 2004
State Environmental Planning Policy – Building Sustainability Index: BASIX 2004
State Environmental Planning Policy – (Mining, Petroleum Production and Extractive Industries) 2007
State Environmental Planning Policy – (Infrastructure) 2007
State Environmental Planning Policy – (Temporary Structures) 2007
State Environmental Planning Policy – (Exempt and Complying Development Codes) 2008
State Environmental Planning Policy – (Repeal of Concurrence and Referral Provisions) 2008
State Environmental Planning Policy – (Affordable Rental Housing) 2009
State Environmental Planning Policy – (Vegetation in Non-Rural Areas) 2017
State Environmental Planning Policy – (Educational Establishments and Child Care Facilities) 2017
State Environmental Planning Policy – (Primary Production and Rural Development) 2019
State Environmental Planning Policy – (State and Regional Development) 2011
State Environmental Planning Policy – (Concurrences) 2018
State Environmental Planning Policy No. 21 – Caravan Parks

Sydney Regional Environmental Plan No. 9 – Extractive Industry (No. 2 – 1995)
Sydney Regional Environmental Plan (Sydney Harbour Catchment) 2005

- 2. The following proposed environmental planning instruments apply to the carrying out of development on the land and are or have been the subject of community consultation or on public exhibition under the Environmental Planning and Assessment Act 1979:**

No proposed environmental planning instruments apply

- 3. The following development control plans apply to the carrying out of development on the land:**

Cumberland Development Control Plan 2021

ITEM 2 - Zoning and land use under relevant LEPs**1. (a) Zoning details in the instruments identified in ITEM 1(1) above****Zone R4 High Density Residential****1. Objectives of zone**

- To provide for the housing needs of the community within a high density residential environment.
- To provide a variety of housing types within a high density residential environment.
- To enable other land uses that provide facilities or services to meet the day to day needs of residents.
- To ensure that non-residential land uses are located in a setting that minimises impacts on the amenity of a high density residential environment.
- To encourage residential development that maintains the amenity of the surrounding area.

2. Permitted without consent

Home occupations

3. Permitted with consent

Attached dwellings; Bed and breakfast accommodation; Boarding houses; Building identification signs; Business identification signs; Centre-based child care facilities; Community facilities; Home industries; Hostels; Kiosks; Multi dwelling housing; Neighbourhood shops; Oyster aquaculture; Places of public worship; Residential flat buildings; Respite day care centres; Roads; Seniors housing; Shop top housing; Water recycling facilities; Any other development not specified in item 2 or 4

4. Prohibited

Agriculture; Air transport facilities; Airstrips; Amusement centres; Animal boarding or training establishments; Boat building and repair facilities; Boat sheds; Camping grounds; Car parks; Caravan parks; Cemeteries; Charter and tourism boating facilities; Commercial premises; Correctional centres; Crematoria; Depots; Dwelling houses; Eco-tourist facilities; Electricity generating works; Entertainment facilities; Environmental facilities; Exhibition villages; Extractive industries; Farm buildings; Forestry; Freight transport facilities; Function centres; Heavy industrial storage establishments; Helipads; Highway service centres; Home occupations (sex services); Industrial retail outlets; Industrial training facilities; Industries; Information and education facilities; Marinas; Mooring pens; Moorings; Mortuaries; Open cut mining; Passenger transport facilities; Pond-based aquaculture; Port facilities; Recreation facilities (major); Registered clubs; Research stations; Residential accommodation; Restricted premises; Rural industries; Service stations; Sewerage systems; Sex services premises; Signage; Storage premises; Tank-based aquaculture; Tourist and visitor accommodation; Transport depots; Truck depots; Vehicle body repair workshops; Vehicle repair stations; Veterinary hospitals; Warehouse or distribution centres; Waste or resource management facilities; Water recreation structures; Water supply systems; Wharf or boating facilities; Wholesale supplies

Additional permitted uses

No additional uses apply

(b) Are there development standards applying to the land, which fix minimum land dimensions for the erection of a dwelling house on the land?

No fixed minimum land dimensions apply to this land

(c) Does the land include or comprise critical habitat?

The land does not include or comprise critical habitat

(d) Is the land within a heritage conservation area?

The land is not within a heritage conservation area

(e) Is there a heritage item situated on the land?

There are no heritage items situated on the land

2. (a) Zoning details in the instruments identified in ITEM 1(2) above

No draft zoning applies to the land

Additional permitted uses

No draft additional uses apply

(b) Are there development standards applying to the land, which fix minimum land dimensions for the erection of a dwelling house on the land?

No fixed minimum land dimensions apply to the land under a draft environmental planning instrument

(c) Does the land include or comprise critical habitat?

The land does not include or comprise critical habitat under a draft environmental planning instrument

(d) Is the land within a draft heritage conservation area?

The land is not within a draft heritage conservation area

(e) Is there a draft heritage item situated on the land?

There are no draft heritage items situated on the land

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

Is the land identified within any zone under Part 3 of State Environmental Planning Policy (Sydney Region Growth Centres) 2006, a Precinct Plan, or a Proposed Precinct Plan that is or has been the subject of community consultation or on public exhibition under the Act?

No

ITEM 3 – Complying Development Exclusions

Is the land, land on which complying development may be carried out under 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?

Complying development can be carried out subject to the land not being affected by flooding referred to in ITEM 7A(1).

Housing Code

Yes, under the Housing Code complying development may be carried out on the land.

Low Rise Housing Diversity Code

Yes, under the Low Rise Housing Diversity Code complying development may be carried out on the land.

Rural Housing Code

Yes, under the Rural Housing Code complying development may be carried out on the land.

Housing Alterations Code

Yes, under the Housing Alterations Code complying development may be carried out on the land.

General Development Code

Yes, under the General Development Code complying development may be carried out on the land.

Commercial and Industrial Alterations Code

Yes, under the General Commercial and Industrial Code complying development may be carried out on the land.

Commercial and Industrial (New Buildings and Additions) Code

Yes, under the General Commercial and Industrial (New Buildings and Additions) Code complying development may be carried out on the land.

Container Recycling Facilities Code

Yes, under the Container Recycling Facilities Code complying development may be carried out on the land.

Subdivisions Code

Yes, under the Subdivisions Code complying development may be carried out on the land.

Demolition Code

Yes, under the Demolition Code complying development may be carried out on the land.

Fire Safety Code

Yes, under the Fire Safety Code complying development may be carried out on the land.

ITEM 4 – (Repealed)

ITEM 4A – (Repealed)

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

Has the owner (or any previous owner) of the land 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

ITEM 5 – Mine subsidence

Is the land proclaimed to be in a mine subsidence district within the meaning of the Coal Mine Subsidence Compensation Act 2017?

No

ITEM 6 – Road widening and road realignment

Is the land affected by any road widening or road realignment under:

- (a) *Division 2 of Part 3 of the Roads Act 1993; or*
- (b) *Any environmental planning instrument; or*
- (c) *Any resolution of the Council?*

No

ITEM 7 – Council and other public authority policies on hazard risk restrictions

(a) Whether or not the land is affected by a policy adopted by the Council that restricts the development of the land because of the likelihood of:-

- | | | |
|-------|---------------------|----|
| (i) | land slip | No |
| (ii) | bushfire | No |
| (iii) | tidal inundation | No |
| (iv) | subsidence | No |
| (v) | acid sulphate soils | No |
| (vi) | land contamination | No |
| (vii) | Other Risk | No |

(b) Whether or not the land is affected by a policy adopted by any other public authority and notified to the Council for the express purpose of its adoption by that authority being referred to in planning certificates issued by the Council that restricts the development of the land because of the likelihood of:-

- | | | |
|-------|---------------------|----|
| (i) | land slip | No |
| (ii) | bushfire | No |
| (iii) | tidal inundation | No |
| (iv) | subsidence | No |
| (v) | acid sulphate soils | No |
| (vi) | land contamination | No |
| (vii) | Other Risk | No |

ITEM 7A – Flood related development controls information

1. *Is the land or part of the land within the flood planning area and subject to flood - related development controls.*

No

2. *Is the land or part of the land between the flood planning area and the probable maximum flood (PMF) and subject to flood-related development controls.*

No

3. *In this clause -*

flood planning area has the same meaning as in the Floodplain Development Manual.

Floodplain Development Manual means the Floodplain Development Manual (ISBN 0 7347 5476 0) published by the NSW Government in April 2005.

probable maximum flood has the same meaning as in the Floodplain Development Manual.

ITEM 8 – Land reserved for acquisition

Is there an environmental planning instrument, or proposed environmental planning instrument referred to in clause 1 which makes provision in relation to the acquisition of the land by a public authority, as referred to in section 3.15 of the Environmental Planning and Assessment Act 1979?

No

ITEM 9 – Contributions plans

The name of each contributions plan applying to the land is:-

Cumberland Local Infrastructure Contributions Plan 2020

ITEM 9A - Biodiversity certified land

Is the land biodiversity certified land under Part 8 of the Biodiversity Conservation Act 2016 (including land certified under Part 7AA of the Threatened Species Conservation Act 1995)?

No

ITEM 10 – Biodiversity stewardship sites

Has Council been notified by the Chief Executive of the Office of Environment and Heritage that the land is a biodiversity stewardship site under a biodiversity stewardship agreement under Part 5 of the Biodiversity Conservation Act 2016 (including biobanking agreements under Part 7A of the Threatened Species Conservation Act 1995)?

No

ITEM 10A – Native vegetation clearing set asides

Under section 60ZC of the Local Land Service Act 2013, has Council been notified by Local Land Services (or is it registered in the public register under that section) that the land contains a set aside area?

No

ITEM 11 – Bush fire prone land

- | | | |
|-----|--|-----|
| (a) | <i>All of the land is bush fire prone land.</i> | No |
| (b) | <i>Some of the land is bush fire prone land.</i> | No |
| (c) | <i>None of the land is bush fire prone land.</i> | Yes |

ITEM 12 – Property vegetation plans

Has Council been notified (by the person or body that approved the plan) of the existence of a property vegetation plan approved under Part 4 of the Native Vegetation Act 2003 (and that continues in force) applying to the land?

No

ITEM 13 – Orders under Trees (Disputes Between Neighbours) Act 2006

Has Council been notified that 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

ITEM 14 – Directions under Part 3A

Is there a direction by the Minister in force under section 75P (2) (c1) of the Environmental Planning and Assessment Act 1979 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

ITEM 15 – Site compatibility certificates and conditions for seniors housing

- (a) Has a current site compatibility certificate (seniors housing), of which the Council is aware, been issued under State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 in respect of proposed development on the land?
- No
- (b) Have any terms of a kind referred to in clause 18(2) of State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 been imposed as a condition of consent to a development application granted after 11 October 2007 in respect of the land?
- No

ITEM 16 – Site compatibility certificates for infrastructure, schools or TAFE establishments

Has a valid site compatibility certificate (infrastructure) or a site compatibility certificate (schools or TAFE establishments), of which the Council is aware, been issued?

No

ITEM 17 – Site compatibility certificates and conditions for affordable rental housing

1. *Has a current site compatibility certificate (affordable rental housing), of which the Council is aware, been issued in respect of proposed development on the land?*

No

2. *Have any terms of a kind referred to in clause 17(1) or 38(1) of State Environmental Planning Policy (Affordable Rental Housing) 2009 been imposed as a condition of consent to a development application in respect of the land?*

No

ITEM 18 – Paper subdivision information

Has a development plan been adopted that applies to the land or that is proposed to be subject to a consent ballot?

No

ITEM 19 – Site verification certificates

Has Council been made aware of a current site verification certificate that has been issued in respect of the land?

No

ITEM 20 – Loose – fill asbestos insulation

Has Council been notified that 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

ITEM 21 – Affected building notices and building product rectification orders

1. *Is any affected building notice in force in respect of the land?*

No

2. *Is any building product rectification order in force in respect of the land that has not been fully complied with?*

No

3. Has a notice of intention to make a building product rectification order been given in respect of that land that is outstanding?

No

ITEM 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.

The land is not affected.

NOTE 1 – Matters arising under the Contaminated Land Management Act 1997

Section 59(2) of the Contaminated Land Management Act 1997 prescribes the following additional matters to be specified in planning certificates:-

- (a) *At the date of this certificate, is the land (or part of the land) to which this certificate relates significantly contaminated land?*
No
- (b) *At the date of this certificate, is the land to which this certificate relates subject to a management order?*
No
- (c) *At the date of this certificate, is the land to which this certificate relates the subject of an approved voluntary management proposal?*
No
- (d) *At the date of this certificate, is the land to which this certificate relates subject to an ongoing maintenance order?*
No
- (e) *At the date of this certificate, is the land to which this certificate relates the subject of a site audit statement and a copy of such a statement has been provided to the Council?*
No

GENERAL INFORMATION

The absence of any reference to a matter affecting the land shall not imply that the land is not affected by that matter not referred to in this certificate.

Information provided under section 10.7(2) is in accordance with the matters prescribed under schedule 4 of the Environmental Planning and Assessment Regulation 2000 and is provided only to the extent that the Council has been notified by the Department of Public Works or Department of Planning.

When advice in accordance with section 10.7(5) is requested the Council is under no obligation to furnish any advice. If advice is provided Council draws your attention to section 10.7(6) and schedule 6 of the *Environmental Planning and Assessment Act 1979* which have the effect that Council shall not incur any liability in respect of advice provided in good faith pursuant to section 10.7(5), including the furnishing of advice in respect of contaminated land.

Any enquiries regarding State and Regional Environmental Planning Policies should be directed to the Department of Planning at <http://www.planning.nsw.gov.au>

Please contact Council's Strategic Planning section for further information about this Planning Certificate.

Peter J Fitzgerald
GENERAL MANAGER



APPLICANT: Lotsearch Pty Ltd
Level 3
68 Alfred Street
MILSONS POINT NSW 2061

PLANNING CERTIFICATE

Issued under section 10.7(2) Environmental Planning and Assessment Act 1979

Property: 9-11 Hassall Street WESTMEAD NSW 2145
Title: Lot 1 DP 949987
Land No: 95614
Certificate No: PC2021/5670
Certificate Date: 18/11/2021
Applicant's Ref: LS026281

SECTION 10.7(2)

In accordance with the requirements of section 10.7(2) of the Environmental Planning and Assessment Act (1979) ("the Act"), the following prescribed matters relate to the land at the date of this certificate.

ITEM 1 - Names of relevant planning instruments and DCPs

1. ***The following environmental planning instruments apply to the carrying out of development on the land:***

Cumberland Local Environmental Plan 2021

State Environmental Planning Policy No. 19 – Bushland in Urban Areas
State Environmental Planning Policy No. 30 – Intensive Agriculture
State Environmental Planning Policy No. 33 – Hazardous and Offensive Development
State Environmental Planning Policy No. 50 – Canal Estates
State Environmental Planning Policy No. 55 – Remediation of Land
State Environmental Planning Policy No. 62 – Sustainable Aquaculture
State Environmental Planning Policy No. 64 – Advertising and Signage
State Environmental Planning Policy No. 65 – Design Quality of Residential Flat Development
State Environmental Planning Policy No. 70 – Affordable Housing (Revised Schemes)
State Environmental Planning Policy – SEPP (Housing for Seniors or People with a Disability) 2004
State Environmental Planning Policy – Building Sustainability Index: BASIX 2004
State Environmental Planning Policy – (Mining, Petroleum Production and Extractive Industries) 2007
State Environmental Planning Policy – (Infrastructure) 2007
State Environmental Planning Policy – (Temporary Structures) 2007
State Environmental Planning Policy – (Exempt and Complying Development Codes) 2008
State Environmental Planning Policy – (Repeal of Concurrence and Referral Provisions) 2008
State Environmental Planning Policy – (Affordable Rental Housing) 2009
State Environmental Planning Policy – (Vegetation in Non-Rural Areas) 2017
State Environmental Planning Policy – (Educational Establishments and Child Care Facilities) 2017
State Environmental Planning Policy – (Primary Production and Rural Development) 2019
State Environmental Planning Policy – (State and Regional Development) 2011
State Environmental Planning Policy – (Concurrences) 2018
State Environmental Planning Policy No. 21 – Caravan Parks

Sydney Regional Environmental Plan No. 9 – Extractive Industry (No. 2 – 1995)

Sydney Regional Environmental Plan (Sydney Harbour Catchment) 2005

2. ***The following proposed environmental planning instruments apply to the carrying out of development on the land and are or have been the subject of community consultation or on public exhibition under the Environmental Planning and Assessment Act 1979:***

No proposed environmental planning instruments apply

3. ***The following development control plans apply to the carrying out of development on the land:***

Cumberland Development Control Plan 2021

ITEM 2 - Zoning and land use under relevant LEPs**1. (a) Zoning details in the instruments identified in ITEM 1(1) above****Zone R4 High Density Residential****1. Objectives of zone**

- To provide for the housing needs of the community within a high density residential environment.
- To provide a variety of housing types within a high density residential environment.
- To enable other land uses that provide facilities or services to meet the day to day needs of residents.
- To ensure that non-residential land uses are located in a setting that minimises impacts on the amenity of a high density residential environment.
- To encourage residential development that maintains the amenity of the surrounding area.

2. Permitted without consent

Home occupations

3. Permitted with consent

Attached dwellings; Bed and breakfast accommodation; Boarding houses; Building identification signs; Business identification signs; Centre-based child care facilities; Community facilities; Home industries; Hostels; Kiosks; Multi dwelling housing; Neighbourhood shops; Oyster aquaculture; Places of public worship; Residential flat buildings; Respite day care centres; Roads; Seniors housing; Shop top housing; Water recycling facilities; Any other development not specified in item 2 or 4

4. Prohibited

Agriculture; Air transport facilities; Airstrips; Amusement centres; Animal boarding or training establishments; Boat building and repair facilities; Boat sheds; Camping grounds; Car parks; Caravan parks; Cemeteries; Charter and tourism boating facilities; Commercial premises; Correctional centres; Crematoria; Depots; Dwelling houses; Eco-tourist facilities; Electricity generating works; Entertainment facilities; Environmental facilities; Exhibition villages; Extractive industries; Farm buildings; Forestry; Freight transport facilities; Function centres; Heavy industrial storage establishments; Helipads; Highway service centres; Home occupations (sex services); Industrial retail outlets; Industrial training facilities; Industries; Information and education facilities; Marinas; Mooring pens; Moorings; Mortuaries; Open cut mining; Passenger transport facilities; Pond-based aquaculture; Port facilities; Recreation facilities (major); Registered clubs; Research stations; Residential accommodation; Restricted premises; Rural industries; Service stations; Sewerage systems; Sex services premises; Signage; Storage premises; Tank-based aquaculture; Tourist and visitor accommodation; Transport depots; Truck depots; Vehicle body repair workshops; Vehicle repair stations; Veterinary hospitals; Warehouse or distribution centres; Waste or resource management facilities; Water recreation structures; Water supply systems; Wharf or boating facilities; Wholesale supplies

Additional permitted uses

No additional uses apply

(b) Are there development standards applying to the land, which fix minimum land dimensions for the erection of a dwelling house on the land?

No fixed minimum land dimensions apply to this land

(c) Does the land include or comprise critical habitat?

The land does not include or comprise critical habitat

(d) Is the land within a heritage conservation area?

The land is not within a heritage conservation area

(e) Is there a heritage item situated on the land?

There are no heritage items situated on the land

2. (a) Zoning details in the instruments identified in ITEM 1(2) above

No draft zoning applies to the land

Additional permitted uses

No draft additional uses apply

(b) Are there development standards applying to the land, which fix minimum land dimensions for the erection of a dwelling house on the land?

No fixed minimum land dimensions apply to the land under a draft environmental planning instrument

(c) Does the land include or comprise critical habitat?

The land does not include or comprise critical habitat under a draft environmental planning instrument

(d) Is the land within a draft heritage conservation area?

The land is not within a draft heritage conservation area

(e) Is there a draft heritage item situated on the land?

There are no draft heritage items situated on the land

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

Is the land identified within any zone under Part 3 of State Environmental Planning Policy (Sydney Region Growth Centres) 2006, a Precinct Plan, or a Proposed Precinct Plan that is or has been the subject of community consultation or on public exhibition under the Act?

No

ITEM 3 – Complying Development Exclusions

Is the land, land on which complying development may be carried out under 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?

Complying development can be carried out subject to the land not being affected by flooding referred to in ITEM 7A(1).

Housing Code

Yes, under the Housing Code complying development may be carried out on the land.

Low Rise Housing Diversity Code

Yes, under the Low Rise Housing Diversity Code complying development may be carried out on the land.

Rural Housing Code

Yes, under the Rural Housing Code complying development may be carried out on the land.

Housing Alterations Code

Yes, under the Housing Alterations Code complying development may be carried out on the land.

General Development Code

Yes, under the General Development Code complying development may be carried out on the land.

Commercial and Industrial Alterations Code

Yes, under the General Commercial and Industrial Code complying development may be carried out on the land.

Commercial and Industrial (New Buildings and Additions) Code

Yes, under the General Commercial and Industrial (New Buildings and Additions) Code complying development may be carried out on the land.

Container Recycling Facilities Code

Yes, under the Container Recycling Facilities Code complying development may be carried out on the land.

Subdivisions Code

Yes, under the Subdivisions Code complying development may be carried out on the land.

Demolition Code

Yes, under the Demolition Code complying development may be carried out on the land.

Fire Safety Code

Yes, under the Fire Safety Code complying development may be carried out on the land.

ITEM 4 – (Repealed)

ITEM 4A – (Repealed)

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

Has the owner (or any previous owner) of the land 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

ITEM 5 – Mine subsidence

Is the land proclaimed to be in a mine subsidence district within the meaning of the Coal Mine Subsidence Compensation Act 2017?

No

ITEM 6 – Road widening and road realignment

Is the land affected by any road widening or road realignment under:

- (a) *Division 2 of Part 3 of the Roads Act 1993; or*
- (b) *Any environmental planning instrument; or*
- (c) *Any resolution of the Council?*

No

ITEM 7 – Council and other public authority policies on hazard risk restrictions

(a) Whether or not the land is affected by a policy adopted by the Council that restricts the development of the land because of the likelihood of:-

- | | | |
|-------|---------------------|----|
| (i) | land slip | No |
| (ii) | bushfire | No |
| (iii) | tidal inundation | No |
| (iv) | subsidence | No |
| (v) | acid sulphate soils | No |
| (vi) | land contamination | No |
| (vii) | Other Risk | No |

(b) Whether or not the land is affected by a policy adopted by any other public authority and notified to the Council for the express purpose of its adoption by that authority being referred to in planning certificates issued by the Council that restricts the development of the land because of the likelihood of:-

- | | | |
|-------|---------------------|----|
| (i) | land slip | No |
| (ii) | bushfire | No |
| (iii) | tidal inundation | No |
| (iv) | subsidence | No |
| (v) | acid sulphate soils | No |
| (vi) | land contamination | No |
| (vii) | Other Risk | No |

ITEM 7A – Flood related development controls information

1. *Is the land or part of the land within the flood planning area and subject to flood - related development controls.*

No

2. *Is the land or part of the land between the flood planning area and the probable maximum flood (PMF) and subject to flood-related development controls.*

Yes

3. *In this clause -*

flood planning area has the same meaning as in the Floodplain Development Manual.

Floodplain Development Manual means the Floodplain Development Manual (ISBN 0 7347 5476 0) published by the NSW Government in April 2005.

probable maximum flood has the same meaning as in the Floodplain Development Manual.

ITEM 8 – Land reserved for acquisition

Is there an environmental planning instrument, or proposed environmental planning instrument referred to in clause 1 which makes provision in relation to the acquisition of the land by a public authority, as referred to in section 3.15 of the Environmental Planning and Assessment Act 1979?

No

ITEM 9 – Contributions plans

The name of each contributions plan applying to the land is:-

Cumberland Local Infrastructure Contributions Plan 2020

ITEM 9A - Biodiversity certified land

Is the land biodiversity certified land under Part 8 of the Biodiversity Conservation Act 2016 (including land certified under Part 7AA of the Threatened Species Conservation Act 1995)?

No

ITEM 10 – Biodiversity stewardship sites

Has Council been notified by the Chief Executive of the Office of Environment and Heritage that the land is a biodiversity stewardship site under a biodiversity stewardship agreement under Part 5 of the Biodiversity Conservation Act 2016 (including biobanking agreements under Part 7A of the Threatened Species Conservation Act 1995)?

No

ITEM 10A – Native vegetation clearing set asides

Under section 60ZC of the Local Land Service Act 2013, has Council been notified by Local Land Services (or is it registered in the public register under that section) that the land contains a set aside area?

No

ITEM 11 – Bush fire prone land

- | | | |
|-----|--|-----|
| (a) | <i>All of the land is bush fire prone land.</i> | No |
| (b) | <i>Some of the land is bush fire prone land.</i> | No |
| (c) | <i>None of the land is bush fire prone land.</i> | Yes |

ITEM 12 – Property vegetation plans

Has Council been notified (by the person or body that approved the plan) of the existence of a property vegetation plan approved under Part 4 of the Native Vegetation Act 2003 (and that continues in force) applying to the land?

No

ITEM 13 – Orders under Trees (Disputes Between Neighbours) Act 2006

Has Council been notified that 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

ITEM 14 – Directions under Part 3A

Is there a direction by the Minister in force under section 75P (2) (c1) of the Environmental Planning and Assessment Act 1979 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

ITEM 15 – Site compatibility certificates and conditions for seniors housing

- (a) Has a current site compatibility certificate (seniors housing), of which the Council is aware, been issued under State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 in respect of proposed development on the land?
- No
- (b) Have any terms of a kind referred to in clause 18(2) of State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 been imposed as a condition of consent to a development application granted after 11 October 2007 in respect of the land?
- No

ITEM 16 – Site compatibility certificates for infrastructure, schools or TAFE establishments

Has a valid site compatibility certificate (infrastructure) or a site compatibility certificate (schools or TAFE establishments), of which the Council is aware, been issued?

No

ITEM 17 – Site compatibility certificates and conditions for affordable rental housing

1. *Has a current site compatibility certificate (affordable rental housing), of which the Council is aware, been issued in respect of proposed development on the land?*

No

2. *Have any terms of a kind referred to in clause 17(1) or 38(1) of State Environmental Planning Policy (Affordable Rental Housing) 2009 been imposed as a condition of consent to a development application in respect of the land?*

No

ITEM 18 – Paper subdivision information

Has a development plan been adopted that applies to the land or that is proposed to be subject to a consent ballot?

No

ITEM 19 – Site verification certificates

Has Council been made aware of a current site verification certificate that has been issued in respect of the land?

No

ITEM 20 – Loose – fill asbestos insulation

Has Council been notified that 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

ITEM 21 – Affected building notices and building product rectification orders

1. *Is any affected building notice in force in respect of the land?*

No

2. *Is any building product rectification order in force in respect of the land that has not been fully complied with?*

No

3. Has a notice of intention to make a building product rectification order been given in respect of that land that is outstanding?

No

ITEM 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.

The land is not affected.

NOTE 1 – Matters arising under the Contaminated Land Management Act 1997

Section 59(2) of the Contaminated Land Management Act 1997 prescribes the following additional matters to be specified in planning certificates:-

- (a) *At the date of this certificate, is the land (or part of the land) to which this certificate relates significantly contaminated land?*
No
- (b) *At the date of this certificate, is the land to which this certificate relates subject to a management order?*
No
- (c) *At the date of this certificate, is the land to which this certificate relates the subject of an approved voluntary management proposal?*
No
- (d) *At the date of this certificate, is the land to which this certificate relates subject to an ongoing maintenance order?*
No
- (e) *At the date of this certificate, is the land to which this certificate relates the subject of a site audit statement and a copy of such a statement has been provided to the Council?*
No

GENERAL INFORMATION

The absence of any reference to a matter affecting the land shall not imply that the land is not affected by that matter not referred to in this certificate.

Information provided under section 10.7(2) is in accordance with the matters prescribed under schedule 4 of the Environmental Planning and Assessment Regulation 2000 and is provided only to the extent that the Council has been notified by the Department of Public Works or Department of Planning.

When advice in accordance with section 10.7(5) is requested the Council is under no obligation to furnish any advice. If advice is provided Council draws your attention to section 10.7(6) and schedule 6 of the *Environmental Planning and Assessment Act 1979* which have the effect that Council shall not incur any liability in respect of advice provided in good faith pursuant to section 10.7(5), including the furnishing of advice in respect of contaminated land.

Any enquiries regarding State and Regional Environmental Planning Policies should be directed to the Department of Planning at <http://www.planning.nsw.gov.au>

Please contact Council's Strategic Planning section for further information about this Planning Certificate.

Peter J Fitzgerald
GENERAL MANAGER



APPLICANT: Lotsearch Pty Ltd
Level 3
68 Alfred Street
MILSONS POINT NSW 2061

PLANNING CERTIFICATE

Issued under section 10.7(2) Environmental Planning and Assessment Act 1979

Property: 37 Bailey Street WESTMEAD NSW 2145
Title: Lot 14A DP 434199
Land No: 80978
Certificate No: PC2021/5678
Certificate Date: 18/11/2021
Applicant's Ref: LS026281

SECTION 10.7(2)

In accordance with the requirements of section 10.7(2) of the Environmental Planning and Assessment Act (1979) ("the Act"), the following prescribed matters relate to the land at the date of this certificate.

ITEM 1 - Names of relevant planning instruments and DCPs

1. ***The following environmental planning instruments apply to the carrying out of development on the land:***

Cumberland Local Environmental Plan 2021

State Environmental Planning Policy No. 19 – Bushland in Urban Areas
State Environmental Planning Policy No. 30 – Intensive Agriculture
State Environmental Planning Policy No. 33 – Hazardous and Offensive Development
State Environmental Planning Policy No. 50 – Canal Estates
State Environmental Planning Policy No. 55 – Remediation of Land
State Environmental Planning Policy No. 62 – Sustainable Aquaculture
State Environmental Planning Policy No. 64 – Advertising and Signage
State Environmental Planning Policy No. 65 – Design Quality of Residential Flat Development
State Environmental Planning Policy No. 70 – Affordable Housing (Revised Schemes)
State Environmental Planning Policy – SEPP (Housing for Seniors or People with a Disability) 2004
State Environmental Planning Policy – Building Sustainability Index: BASIX 2004
State Environmental Planning Policy – (Mining, Petroleum Production and Extractive Industries) 2007
State Environmental Planning Policy – (Infrastructure) 2007
State Environmental Planning Policy – (Temporary Structures) 2007
State Environmental Planning Policy – (Exempt and Complying Development Codes) 2008
State Environmental Planning Policy – (Repeal of Concurrence and Referral Provisions) 2008
State Environmental Planning Policy – (Affordable Rental Housing) 2009
State Environmental Planning Policy – (Vegetation in Non-Rural Areas) 2017
State Environmental Planning Policy – (Educational Establishments and Child Care Facilities) 2017
State Environmental Planning Policy – (Primary Production and Rural Development) 2019
State Environmental Planning Policy – (State and Regional Development) 2011
State Environmental Planning Policy – (Concurrences) 2018
State Environmental Planning Policy No. 21 – Caravan Parks

Sydney Regional Environmental Plan No. 9 – Extractive Industry (No. 2 – 1995)
Sydney Regional Environmental Plan (Sydney Harbour Catchment) 2005

2. ***The following proposed environmental planning instruments apply to the carrying out of development on the land and are or have been the subject of community consultation or on public exhibition under the Environmental Planning and Assessment Act 1979:***

No proposed environmental planning instruments apply

3. ***The following development control plans apply to the carrying out of development on the land:***

Cumberland Development Control Plan 2021

ITEM 2 - Zoning and land use under relevant LEPs**1. (a) Zoning details in the instruments identified in ITEM 1(1) above****Zone R4 High Density Residential****1. Objectives of zone**

- To provide for the housing needs of the community within a high density residential environment.
- To provide a variety of housing types within a high density residential environment.
- To enable other land uses that provide facilities or services to meet the day to day needs of residents.
- To ensure that non-residential land uses are located in a setting that minimises impacts on the amenity of a high density residential environment.
- To encourage residential development that maintains the amenity of the surrounding area.

2. Permitted without consent

Home occupations

3. Permitted with consent

Attached dwellings; Bed and breakfast accommodation; Boarding houses; Building identification signs; Business identification signs; Centre-based child care facilities; Community facilities; Home industries; Hostels; Kiosks; Multi dwelling housing; Neighbourhood shops; Oyster aquaculture; Places of public worship; Residential flat buildings; Respite day care centres; Roads; Seniors housing; Shop top housing; Water recycling facilities; Any other development not specified in item 2 or 4

4. Prohibited

Agriculture; Air transport facilities; Airstrips; Amusement centres; Animal boarding or training establishments; Boat building and repair facilities; Boat sheds; Camping grounds; Car parks; Caravan parks; Cemeteries; Charter and tourism boating facilities; Commercial premises; Correctional centres; Crematoria; Depots; Dwelling houses; Eco-tourist facilities; Electricity generating works; Entertainment facilities; Environmental facilities; Exhibition villages; Extractive industries; Farm buildings; Forestry; Freight transport facilities; Function centres; Heavy industrial storage establishments; Helipads; Highway service centres; Home occupations (sex services); Industrial retail outlets; Industrial training facilities; Industries; Information and education facilities; Marinas; Mooring pens; Moorings; Mortuaries; Open cut mining; Passenger transport facilities; Pond-based aquaculture; Port facilities; Recreation facilities (major); Registered clubs; Research stations; Residential accommodation; Restricted premises; Rural industries; Service stations; Sewerage systems; Sex services premises; Signage; Storage premises; Tank-based aquaculture; Tourist and visitor accommodation; Transport depots; Truck depots; Vehicle body repair workshops; Vehicle repair stations; Veterinary hospitals; Warehouse or distribution centres; Waste or resource management facilities; Water recreation structures; Water supply systems; Wharf or boating facilities; Wholesale supplies

Additional permitted uses

No additional uses apply

(b) Are there development standards applying to the land, which fix minimum land dimensions for the erection of a dwelling house on the land?

No fixed minimum land dimensions apply to this land

(c) Does the land include or comprise critical habitat?

The land does not include or comprise critical habitat

(d) Is the land within a heritage conservation area?

The land is not within a heritage conservation area

(e) Is there a heritage item situated on the land?

There are no heritage items situated on the land

2. (a) Zoning details in the instruments identified in ITEM 1(2) above

No draft zoning applies to the land

Additional permitted uses

No draft additional uses apply

(b) Are there development standards applying to the land, which fix minimum land dimensions for the erection of a dwelling house on the land?

No fixed minimum land dimensions apply to the land under a draft environmental planning instrument

(c) Does the land include or comprise critical habitat?

The land does not include or comprise critical habitat under a draft environmental planning instrument

(d) Is the land within a draft heritage conservation area?

The land is not within a draft heritage conservation area

(e) Is there a draft heritage item situated on the land?

There are no draft heritage items situated on the land

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

Is the land identified within any zone under Part 3 of State Environmental Planning Policy (Sydney Region Growth Centres) 2006, a Precinct Plan, or a Proposed Precinct Plan that is or has been the subject of community consultation or on public exhibition under the Act?

No

ITEM 3 – Complying Development Exclusions

Is the land, land on which complying development may be carried out under 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?

Complying development can be carried out subject to the land not being affected by flooding referred to in ITEM 7A(1).

Housing Code

Yes, under the Housing Code complying development may be carried out on the land.

Low Rise Housing Diversity Code

Yes, under the Low Rise Housing Diversity Code complying development may be carried out on the land.

Rural Housing Code

Yes, under the Rural Housing Code complying development may be carried out on the land.

Housing Alterations Code

Yes, under the Housing Alterations Code complying development may be carried out on the land.

General Development Code

Yes, under the General Development Code complying development may be carried out on the land.

Commercial and Industrial Alterations Code

Yes, under the General Commercial and Industrial Code complying development may be carried out on the land.

Commercial and Industrial (New Buildings and Additions) Code

Yes, under the General Commercial and Industrial (New Buildings and Additions) Code complying development may be carried out on the land.

Container Recycling Facilities Code

Yes, under the Container Recycling Facilities Code complying development may be carried out on the land.

Subdivisions Code

Yes, under the Subdivisions Code complying development may be carried out on the land.

Demolition Code

Yes, under the Demolition Code complying development may be carried out on the land.

Fire Safety Code

Yes, under the Fire Safety Code complying development may be carried out on the land.

ITEM 4 – (Repealed)

ITEM 4A – (Repealed)

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

Has the owner (or any previous owner) of the land 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

ITEM 5 – Mine subsidence

Is the land proclaimed to be in a mine subsidence district within the meaning of the Coal Mine Subsidence Compensation Act 2017?

No

ITEM 6 – Road widening and road realignment

Is the land affected by any road widening or road realignment under:

- (a) *Division 2 of Part 3 of the Roads Act 1993; or*
- (b) *Any environmental planning instrument; or*
- (c) *Any resolution of the Council?*

No

ITEM 7 – Council and other public authority policies on hazard risk restrictions

(a) Whether or not the land is affected by a policy adopted by the Council that restricts the development of the land because of the likelihood of:-

- | | | |
|-------|---------------------|----|
| (i) | land slip | No |
| (ii) | bushfire | No |
| (iii) | tidal inundation | No |
| (iv) | subsidence | No |
| (v) | acid sulphate soils | No |
| (vi) | land contamination | No |
| (vii) | Other Risk | No |

(b) Whether or not the land is affected by a policy adopted by any other public authority and notified to the Council for the express purpose of its adoption by that authority being referred to in planning certificates issued by the Council that restricts the development of the land because of the likelihood of:-

- | | | |
|-------|---------------------|----|
| (i) | land slip | No |
| (ii) | bushfire | No |
| (iii) | tidal inundation | No |
| (iv) | subsidence | No |
| (v) | acid sulphate soils | No |
| (vi) | land contamination | No |
| (vii) | Other Risk | No |

ITEM 7A – Flood related development controls information

1. *Is the land or part of the land within the flood planning area and subject to flood - related development controls.*

No

2. *Is the land or part of the land between the flood planning area and the probable maximum flood (PMF) and subject to flood-related development controls.*

No

3. *In this clause -*

flood planning area has the same meaning as in the Floodplain Development Manual.

Floodplain Development Manual means the Floodplain Development Manual (ISBN 0 7347 5476 0) published by the NSW Government in April 2005.

probable maximum flood has the same meaning as in the Floodplain Development Manual.

ITEM 8 – Land reserved for acquisition

Is there an environmental planning instrument, or proposed environmental planning instrument referred to in clause 1 which makes provision in relation to the acquisition of the land by a public authority, as referred to in section 3.15 of the Environmental Planning and Assessment Act 1979?

No

ITEM 9 – Contributions plans

The name of each contributions plan applying to the land is:-

Cumberland Local Infrastructure Contributions Plan 2020

ITEM 9A - Biodiversity certified land

Is the land biodiversity certified land under Part 8 of the Biodiversity Conservation Act 2016 (including land certified under Part 7AA of the Threatened Species Conservation Act 1995)?

No

ITEM 10 – Biodiversity stewardship sites

Has Council been notified by the Chief Executive of the Office of Environment and Heritage that the land is a biodiversity stewardship site under a biodiversity stewardship agreement under Part 5 of the Biodiversity Conservation Act 2016 (including biobanking agreements under Part 7A of the Threatened Species Conservation Act 1995)?

No

ITEM 10A – Native vegetation clearing set asides

Under section 60ZC of the Local Land Service Act 2013, has Council been notified by Local Land Services (or is it registered in the public register under that section) that the land contains a set aside area?

No

ITEM 11 – Bush fire prone land

- | | | |
|-----|--|-----|
| (a) | <i>All of the land is bush fire prone land.</i> | No |
| (b) | <i>Some of the land is bush fire prone land.</i> | No |
| (c) | <i>None of the land is bush fire prone land.</i> | Yes |

ITEM 12 – Property vegetation plans

Has Council been notified (by the person or body that approved the plan) of the existence of a property vegetation plan approved under Part 4 of the Native Vegetation Act 2003 (and that continues in force) applying to the land?

No

ITEM 13 – Orders under Trees (Disputes Between Neighbours) Act 2006

Has Council been notified that 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

ITEM 14 – Directions under Part 3A

Is there a direction by the Minister in force under section 75P (2) (c1) of the Environmental Planning and Assessment Act 1979 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

ITEM 15 – Site compatibility certificates and conditions for seniors housing

- (a) Has a current site compatibility certificate (seniors housing), of which the Council is aware, been issued under State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 in respect of proposed development on the land?
- No
- (b) Have any terms of a kind referred to in clause 18(2) of State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 been imposed as a condition of consent to a development application granted after 11 October 2007 in respect of the land?
- No

ITEM 16 – Site compatibility certificates for infrastructure, schools or TAFE establishments

Has a valid site compatibility certificate (infrastructure) or a site compatibility certificate (schools or TAFE establishments), of which the Council is aware, been issued?

No

ITEM 17 – Site compatibility certificates and conditions for affordable rental housing

1. *Has a current site compatibility certificate (affordable rental housing), of which the Council is aware, been issued in respect of proposed development on the land?*

No

2. *Have any terms of a kind referred to in clause 17(1) or 38(1) of State Environmental Planning Policy (Affordable Rental Housing) 2009 been imposed as a condition of consent to a development application in respect of the land?*

No

ITEM 18 – Paper subdivision information

Has a development plan been adopted that applies to the land or that is proposed to be subject to a consent ballot?

No

ITEM 19 – Site verification certificates

Has Council been made aware of a current site verification certificate that has been issued in respect of the land?

No

ITEM 20 – Loose – fill asbestos insulation

Has Council been notified that 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

ITEM 21 – Affected building notices and building product rectification orders

1. *Is any affected building notice in force in respect of the land?*

No

2. *Is any building product rectification order in force in respect of the land that has not been fully complied with?*

No

3. Has a notice of intention to make a building product rectification order been given in respect of that land that is outstanding?

No

ITEM 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.

The land is not affected.

NOTE 1 – Matters arising under the Contaminated Land Management Act 1997

Section 59(2) of the Contaminated Land Management Act 1997 prescribes the following additional matters to be specified in planning certificates:-

- (a) *At the date of this certificate, is the land (or part of the land) to which this certificate relates significantly contaminated land?*
No
- (b) *At the date of this certificate, is the land to which this certificate relates subject to a management order?*
No
- (c) *At the date of this certificate, is the land to which this certificate relates the subject of an approved voluntary management proposal?*
No
- (d) *At the date of this certificate, is the land to which this certificate relates subject to an ongoing maintenance order?*
No
- (e) *At the date of this certificate, is the land to which this certificate relates the subject of a site audit statement and a copy of such a statement has been provided to the Council?*
No

GENERAL INFORMATION

The absence of any reference to a matter affecting the land shall not imply that the land is not affected by that matter not referred to in this certificate.

Information provided under section 10.7(2) is in accordance with the matters prescribed under schedule 4 of the Environmental Planning and Assessment Regulation 2000 and is provided only to the extent that the Council has been notified by the Department of Public Works or Department of Planning.

When advice in accordance with section 10.7(5) is requested the Council is under no obligation to furnish any advice. If advice is provided Council draws your attention to section 10.7(6) and schedule 6 of the *Environmental Planning and Assessment Act 1979* which have the effect that Council shall not incur any liability in respect of advice provided in good faith pursuant to section 10.7(5), including the furnishing of advice in respect of contaminated land.

Any enquiries regarding State and Regional Environmental Planning Policies should be directed to the Department of Planning at <http://www.planning.nsw.gov.au>

Please contact Council's Strategic Planning section for further information about this Planning Certificate.

Peter J Fitzgerald
GENERAL MANAGER



APPLICANT: Lotsearch Pty Ltd
Level 3
68 Alfred Street
MILSONS POINT NSW 2061

PLANNING CERTIFICATE

Issued under section 10.7(2) Environmental Planning and Assessment Act 1979

Property: 35 Bailey Street WESTMEAD NSW 2145
Title: Lot 16A DP 434199
Land No: 80977
Certificate No: PC2021/5677
Certificate Date: 18/11/2021
Applicant's Ref: LS026281

SECTION 10.7(2)

In accordance with the requirements of section 10.7(2) of the Environmental Planning and Assessment Act (1979) ("the Act"), the following prescribed matters relate to the land at the date of this certificate.

ITEM 1 - Names of relevant planning instruments and DCPs

- 1. The following environmental planning instruments apply to the carrying out of development on the land:**

Cumberland Local Environmental Plan 2021

State Environmental Planning Policy No. 19 – Bushland in Urban Areas
State Environmental Planning Policy No. 30 – Intensive Agriculture
State Environmental Planning Policy No. 33 – Hazardous and Offensive Development
State Environmental Planning Policy No. 50 – Canal Estates
State Environmental Planning Policy No. 55 – Remediation of Land
State Environmental Planning Policy No. 62 – Sustainable Aquaculture
State Environmental Planning Policy No. 64 – Advertising and Signage
State Environmental Planning Policy No. 65 – Design Quality of Residential Flat Development
State Environmental Planning Policy No. 70 – Affordable Housing (Revised Schemes)
State Environmental Planning Policy – SEPP (Housing for Seniors or People with a Disability) 2004
State Environmental Planning Policy – Building Sustainability Index: BASIX 2004
State Environmental Planning Policy – (Mining, Petroleum Production and Extractive Industries) 2007
State Environmental Planning Policy – (Infrastructure) 2007
State Environmental Planning Policy – (Temporary Structures) 2007
State Environmental Planning Policy – (Exempt and Complying Development Codes) 2008
State Environmental Planning Policy – (Repeal of Concurrence and Referral Provisions) 2008
State Environmental Planning Policy – (Affordable Rental Housing) 2009
State Environmental Planning Policy – (Vegetation in Non-Rural Areas) 2017
State Environmental Planning Policy – (Educational Establishments and Child Care Facilities) 2017
State Environmental Planning Policy – (Primary Production and Rural Development) 2019
State Environmental Planning Policy – (State and Regional Development) 2011
State Environmental Planning Policy – (Concurrences) 2018
State Environmental Planning Policy No. 21 – Caravan Parks

Sydney Regional Environmental Plan No. 9 – Extractive Industry (No. 2 – 1995)
Sydney Regional Environmental Plan (Sydney Harbour Catchment) 2005

- 2. The following proposed environmental planning instruments apply to the carrying out of development on the land and are or have been the subject of community consultation or on public exhibition under the Environmental Planning and Assessment Act 1979:**

No proposed environmental planning instruments apply

- 3. The following development control plans apply to the carrying out of development on the land:**

Cumberland Development Control Plan 2021

ITEM 2 - Zoning and land use under relevant LEPs**1. (a) Zoning details in the instruments identified in ITEM 1(1) above****Zone R4 High Density Residential****1. Objectives of zone**

- To provide for the housing needs of the community within a high density residential environment.
- To provide a variety of housing types within a high density residential environment.
- To enable other land uses that provide facilities or services to meet the day to day needs of residents.
- To ensure that non-residential land uses are located in a setting that minimises impacts on the amenity of a high density residential environment.
- To encourage residential development that maintains the amenity of the surrounding area.

2. Permitted without consent

Home occupations

3. Permitted with consent

Attached dwellings; Bed and breakfast accommodation; Boarding houses; Building identification signs; Business identification signs; Centre-based child care facilities; Community facilities; Home industries; Hostels; Kiosks; Multi dwelling housing; Neighbourhood shops; Oyster aquaculture; Places of public worship; Residential flat buildings; Respite day care centres; Roads; Seniors housing; Shop top housing; Water recycling facilities; Any other development not specified in item 2 or 4

4. Prohibited

Agriculture; Air transport facilities; Airstrips; Amusement centres; Animal boarding or training establishments; Boat building and repair facilities; Boat sheds; Camping grounds; Car parks; Caravan parks; Cemeteries; Charter and tourism boating facilities; Commercial premises; Correctional centres; Crematoria; Depots; Dwelling houses; Eco-tourist facilities; Electricity generating works; Entertainment facilities; Environmental facilities; Exhibition villages; Extractive industries; Farm buildings; Forestry; Freight transport facilities; Function centres; Heavy industrial storage establishments; Helipads; Highway service centres; Home occupations (sex services); Industrial retail outlets; Industrial training facilities; Industries; Information and education facilities; Marinas; Mooring pens; Moorings; Mortuaries; Open cut mining; Passenger transport facilities; Pond-based aquaculture; Port facilities; Recreation facilities (major); Registered clubs; Research stations; Residential accommodation; Restricted premises; Rural industries; Service stations; Sewerage systems; Sex services premises; Signage; Storage premises; Tank-based aquaculture; Tourist and visitor accommodation; Transport depots; Truck depots; Vehicle body repair workshops; Vehicle repair stations; Veterinary hospitals; Warehouse or distribution centres; Waste or resource management facilities; Water recreation structures; Water supply systems; Wharf or boating facilities; Wholesale supplies

Additional permitted uses

No additional uses apply

(b) Are there development standards applying to the land, which fix minimum land dimensions for the erection of a dwelling house on the land?

No fixed minimum land dimensions apply to this land

(c) Does the land include or comprise critical habitat?

The land does not include or comprise critical habitat

(d) Is the land within a heritage conservation area?

The land is not within a heritage conservation area

(e) Is there a heritage item situated on the land?

There are no heritage items situated on the land

2. (a) Zoning details in the instruments identified in ITEM 1(2) above

No draft zoning applies to the land

Additional permitted uses

No draft additional uses apply

(b) Are there development standards applying to the land, which fix minimum land dimensions for the erection of a dwelling house on the land?

No fixed minimum land dimensions apply to the land under a draft environmental planning instrument

(c) Does the land include or comprise critical habitat?

The land does not include or comprise critical habitat under a draft environmental planning instrument

(d) Is the land within a draft heritage conservation area?

The land is not within a draft heritage conservation area

(e) Is there a draft heritage item situated on the land?

There are no draft heritage items situated on the land

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

Is the land identified within any zone under Part 3 of State Environmental Planning Policy (Sydney Region Growth Centres) 2006, a Precinct Plan, or a Proposed Precinct Plan that is or has been the subject of community consultation or on public exhibition under the Act?

No

ITEM 3 – Complying Development Exclusions

Is the land, land on which complying development may be carried out under 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?

Complying development can be carried out subject to the land not being affected by flooding referred to in ITEM 7A(1).

Housing Code

Yes, under the Housing Code complying development may be carried out on the land.

Low Rise Housing Diversity Code

Yes, under the Low Rise Housing Diversity Code complying development may be carried out on the land.

Rural Housing Code

Yes, under the Rural Housing Code complying development may be carried out on the land.

Housing Alterations Code

Yes, under the Housing Alterations Code complying development may be carried out on the land.

General Development Code

Yes, under the General Development Code complying development may be carried out on the land.

Commercial and Industrial Alterations Code

Yes, under the General Commercial and Industrial Code complying development may be carried out on the land.

Commercial and Industrial (New Buildings and Additions) Code

Yes, under the General Commercial and Industrial (New Buildings and Additions) Code complying development may be carried out on the land.

Container Recycling Facilities Code

Yes, under the Container Recycling Facilities Code complying development may be carried out on the land.

Subdivisions Code

Yes, under the Subdivisions Code complying development may be carried out on the land.

Demolition Code

Yes, under the Demolition Code complying development may be carried out on the land.

Fire Safety Code

Yes, under the Fire Safety Code complying development may be carried out on the land.

ITEM 4 – (Repealed)

ITEM 4A – (Repealed)

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

Has the owner (or any previous owner) of the land 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

ITEM 5 – Mine subsidence

Is the land proclaimed to be in a mine subsidence district within the meaning of the Coal Mine Subsidence Compensation Act 2017?

No

ITEM 6 – Road widening and road realignment

Is the land affected by any road widening or road realignment under:

- (a) *Division 2 of Part 3 of the Roads Act 1993; or*
- (b) *Any environmental planning instrument; or*
- (c) *Any resolution of the Council?*

No

ITEM 7 – Council and other public authority policies on hazard risk restrictions

(a) Whether or not the land is affected by a policy adopted by the Council that restricts the development of the land because of the likelihood of:-

- | | | |
|-------|---------------------|----|
| (i) | land slip | No |
| (ii) | bushfire | No |
| (iii) | tidal inundation | No |
| (iv) | subsidence | No |
| (v) | acid sulphate soils | No |
| (vi) | land contamination | No |
| (vii) | Other Risk | No |

(b) Whether or not the land is affected by a policy adopted by any other public authority and notified to the Council for the express purpose of its adoption by that authority being referred to in planning certificates issued by the Council that restricts the development of the land because of the likelihood of:-

- | | | |
|-------|---------------------|----|
| (i) | land slip | No |
| (ii) | bushfire | No |
| (iii) | tidal inundation | No |
| (iv) | subsidence | No |
| (v) | acid sulphate soils | No |
| (vi) | land contamination | No |
| (vii) | Other Risk | No |

ITEM 7A – Flood related development controls information

1. *Is the land or part of the land within the flood planning area and subject to flood - related development controls.*

No

2. *Is the land or part of the land between the flood planning area and the probable maximum flood (PMF) and subject to flood-related development controls.*

No

3. *In this clause -*

flood planning area has the same meaning as in the Floodplain Development Manual.

Floodplain Development Manual means the Floodplain Development Manual (ISBN 0 7347 5476 0) published by the NSW Government in April 2005.

probable maximum flood has the same meaning as in the Floodplain Development Manual.

ITEM 8 – Land reserved for acquisition

Is there an environmental planning instrument, or proposed environmental planning instrument referred to in clause 1 which makes provision in relation to the acquisition of the land by a public authority, as referred to in section 3.15 of the Environmental Planning and Assessment Act 1979?

No

ITEM 9 – Contributions plans

The name of each contributions plan applying to the land is:-

Cumberland Local Infrastructure Contributions Plan 2020

ITEM 9A - Biodiversity certified land

Is the land biodiversity certified land under Part 8 of the Biodiversity Conservation Act 2016 (including land certified under Part 7AA of the Threatened Species Conservation Act 1995)?

No

ITEM 10 – Biodiversity stewardship sites

Has Council been notified by the Chief Executive of the Office of Environment and Heritage that the land is a biodiversity stewardship site under a biodiversity stewardship agreement under Part 5 of the Biodiversity Conservation Act 2016 (including biobanking agreements under Part 7A of the Threatened Species Conservation Act 1995)?

No

ITEM 10A – Native vegetation clearing set asides

Under section 60ZC of the Local Land Service Act 2013, has Council been notified by Local Land Services (or is it registered in the public register under that section) that the land contains a set aside area?

No

ITEM 11 – Bush fire prone land

- | | | |
|-----|--|-----|
| (a) | <i>All of the land is bush fire prone land.</i> | No |
| (b) | <i>Some of the land is bush fire prone land.</i> | No |
| (c) | <i>None of the land is bush fire prone land.</i> | Yes |
-

ITEM 12 – Property vegetation plans

Has Council been notified (by the person or body that approved the plan) of the existence of a property vegetation plan approved under Part 4 of the Native Vegetation Act 2003 (and that continues in force) applying to the land?

No

ITEM 13 – Orders under Trees (Disputes Between Neighbours) Act 2006

Has Council been notified that 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

ITEM 14 – Directions under Part 3A

Is there a direction by the Minister in force under section 75P (2) (c1) of the Environmental Planning and Assessment Act 1979 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

ITEM 15 – Site compatibility certificates and conditions for seniors housing

- (a) **Has a current site compatibility certificate (seniors housing), of which the Council is aware, been issued under State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 in respect of proposed development on the land?**

No

- (b) **Have any terms of a kind referred to in clause 18(2) of State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 been imposed as a condition of consent to a development application granted after 11 October 2007 in respect of the land?**

No

ITEM 16 – Site compatibility certificates for infrastructure, schools or TAFE establishments

Has a valid site compatibility certificate (infrastructure) or a site compatibility certificate (schools or TAFE establishments), of which the Council is aware, been issued?

No

ITEM 17 – Site compatibility certificates and conditions for affordable rental housing

1. *Has a current site compatibility certificate (affordable rental housing), of which the Council is aware, been issued in respect of proposed development on the land?*

No

2. *Have any terms of a kind referred to in clause 17(1) or 38(1) of State Environmental Planning Policy (Affordable Rental Housing) 2009 been imposed as a condition of consent to a development application in respect of the land?*

No

ITEM 18 – Paper subdivision information

Has a development plan been adopted that applies to the land or that is proposed to be subject to a consent ballot?

No

ITEM 19 – Site verification certificates

Has Council been made aware of a current site verification certificate that has been issued in respect of the land?

No

ITEM 20 – Loose – fill asbestos insulation

Has Council been notified that 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

ITEM 21 – Affected building notices and building product rectification orders

1. *Is any affected building notice in force in respect of the land?*

No

2. *Is any building product rectification order in force in respect of the land that has not been fully complied with?*

No

3. Has a notice of intention to make a building product rectification order been given in respect of that land that is outstanding?

No

ITEM 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.

The land is not affected.

NOTE 1 – Matters arising under the Contaminated Land Management Act 1997

Section 59(2) of the Contaminated Land Management Act 1997 prescribes the following additional matters to be specified in planning certificates:-

- (a) *At the date of this certificate, is the land (or part of the land) to which this certificate relates significantly contaminated land?*
No
- (b) *At the date of this certificate, is the land to which this certificate relates subject to a management order?*
No
- (c) *At the date of this certificate, is the land to which this certificate relates the subject of an approved voluntary management proposal?*
No
- (d) *At the date of this certificate, is the land to which this certificate relates subject to an ongoing maintenance order?*
No
- (e) *At the date of this certificate, is the land to which this certificate relates the subject of a site audit statement and a copy of such a statement has been provided to the Council?*
No

GENERAL INFORMATION

The absence of any reference to a matter affecting the land shall not imply that the land is not affected by that matter not referred to in this certificate.

Information provided under section 10.7(2) is in accordance with the matters prescribed under schedule 4 of the Environmental Planning and Assessment Regulation 2000 and is provided only to the extent that the Council has been notified by the Department of Public Works or Department of Planning.

When advice in accordance with section 10.7(5) is requested the Council is under no obligation to furnish any advice. If advice is provided Council draws your attention to section 10.7(6) and schedule 6 of the *Environmental Planning and Assessment Act 1979* which have the effect that Council shall not incur any liability in respect of advice provided in good faith pursuant to section 10.7(5), including the furnishing of advice in respect of contaminated land.

Any enquiries regarding State and Regional Environmental Planning Policies should be directed to the Department of Planning at <http://www.planning.nsw.gov.au>

Please contact Council's Strategic Planning section for further information about this Planning Certificate.

Peter J Fitzgerald
GENERAL MANAGER



APPLICANT: Lotsearch Pty Ltd
Level 3
68 Alfred Street
MILSONS POINT NSW 2061

PLANNING CERTIFICATE

Issued under section 10.7(2) Environmental Planning and Assessment Act 1979

Property: 33 Bailey Street WESTMEAD NSW 2145
Title: Lot 18 Sec A DP 4036
Land No: 80975
Certificate No: PC2021/5676
Certificate Date: 18/11/2021
Applicant's Ref: LS026281

SECTION 10.7(2)

In accordance with the requirements of section 10.7(2) of the Environmental Planning and Assessment Act (1979) ("the Act"), the following prescribed matters relate to the land at the date of this certificate.

ITEM 1 - Names of relevant planning instruments and DCPs

1. ***The following environmental planning instruments apply to the carrying out of development on the land:***

Cumberland Local Environmental Plan 2021

State Environmental Planning Policy No. 19 – Bushland in Urban Areas
State Environmental Planning Policy No. 30 – Intensive Agriculture
State Environmental Planning Policy No. 33 – Hazardous and Offensive Development
State Environmental Planning Policy No. 50 – Canal Estates
State Environmental Planning Policy No. 55 – Remediation of Land
State Environmental Planning Policy No. 62 – Sustainable Aquaculture
State Environmental Planning Policy No. 64 – Advertising and Signage
State Environmental Planning Policy No. 65 – Design Quality of Residential Flat Development
State Environmental Planning Policy No. 70 – Affordable Housing (Revised Schemes)
State Environmental Planning Policy – SEPP (Housing for Seniors or People with a Disability) 2004
State Environmental Planning Policy – Building Sustainability Index: BASIX 2004
State Environmental Planning Policy – (Mining, Petroleum Production and Extractive Industries) 2007
State Environmental Planning Policy – (Infrastructure) 2007
State Environmental Planning Policy – (Temporary Structures) 2007
State Environmental Planning Policy – (Exempt and Complying Development Codes) 2008
State Environmental Planning Policy – (Repeal of Concurrence and Referral Provisions) 2008
State Environmental Planning Policy – (Affordable Rental Housing) 2009
State Environmental Planning Policy – (Vegetation in Non-Rural Areas) 2017
State Environmental Planning Policy – (Educational Establishments and Child Care Facilities) 2017
State Environmental Planning Policy – (Primary Production and Rural Development) 2019
State Environmental Planning Policy – (State and Regional Development) 2011
State Environmental Planning Policy – (Concurrences) 2018
State Environmental Planning Policy No. 21 – Caravan Parks

Sydney Regional Environmental Plan No. 9 – Extractive Industry (No. 2 – 1995)
Sydney Regional Environmental Plan (Sydney Harbour Catchment) 2005

2. ***The following proposed environmental planning instruments apply to the carrying out of development on the land and are or have been the subject of community consultation or on public exhibition under the Environmental Planning and Assessment Act 1979:***

No proposed environmental planning instruments apply

3. ***The following development control plans apply to the carrying out of development on the land:***

Cumberland Development Control Plan 2021

ITEM 2 - Zoning and land use under relevant LEPs**1. (a) Zoning details in the instruments identified in ITEM 1(1) above****Zone R4 High Density Residential****1. Objectives of zone**

- To provide for the housing needs of the community within a high density residential environment.
- To provide a variety of housing types within a high density residential environment.
- To enable other land uses that provide facilities or services to meet the day to day needs of residents.
- To ensure that non-residential land uses are located in a setting that minimises impacts on the amenity of a high density residential environment.
- To encourage residential development that maintains the amenity of the surrounding area.

2. Permitted without consent

Home occupations

3. Permitted with consent

Attached dwellings; Bed and breakfast accommodation; Boarding houses; Building identification signs; Business identification signs; Centre-based child care facilities; Community facilities; Home industries; Hostels; Kiosks; Multi dwelling housing; Neighbourhood shops; Oyster aquaculture; Places of public worship; Residential flat buildings; Respite day care centres; Roads; Seniors housing; Shop top housing; Water recycling facilities; Any other development not specified in item 2 or 4

4. Prohibited

Agriculture; Air transport facilities; Airstrips; Amusement centres; Animal boarding or training establishments; Boat building and repair facilities; Boat sheds; Camping grounds; Car parks; Caravan parks; Cemeteries; Charter and tourism boating facilities; Commercial premises; Correctional centres; Crematoria; Depots; Dwelling houses; Eco-tourist facilities; Electricity generating works; Entertainment facilities; Environmental facilities; Exhibition villages; Extractive industries; Farm buildings; Forestry; Freight transport facilities; Function centres; Heavy industrial storage establishments; Helipads; Highway service centres; Home occupations (sex services); Industrial retail outlets; Industrial training facilities; Industries; Information and education facilities; Marinas; Mooring pens; Moorings; Mortuaries; Open cut mining; Passenger transport facilities; Pond-based aquaculture; Port facilities; Recreation facilities (major); Registered clubs; Research stations; Residential accommodation; Restricted premises; Rural industries; Service stations; Sewerage systems; Sex services premises; Signage; Storage premises; Tank-based aquaculture; Tourist and visitor accommodation; Transport depots; Truck depots; Vehicle body repair workshops; Vehicle repair stations; Veterinary hospitals; Warehouse or distribution centres; Waste or resource management facilities; Water recreation structures; Water supply systems; Wharf or boating facilities; Wholesale supplies

Additional permitted uses

No additional uses apply

(b) Are there development standards applying to the land, which fix minimum land dimensions for the erection of a dwelling house on the land?

No fixed minimum land dimensions apply to this land

(c) Does the land include or comprise critical habitat?

The land does not include or comprise critical habitat

(d) Is the land within a heritage conservation area?

The land is not within a heritage conservation area

(e) Is there a heritage item situated on the land?

There are no heritage items situated on the land

2. (a) Zoning details in the instruments identified in ITEM 1(2) above

No draft zoning applies to the land

Additional permitted uses

No draft additional uses apply

(b) Are there development standards applying to the land, which fix minimum land dimensions for the erection of a dwelling house on the land?

No fixed minimum land dimensions apply to the land under a draft environmental planning instrument

(c) Does the land include or comprise critical habitat?

The land does not include or comprise critical habitat under a draft environmental planning instrument

(d) Is the land within a draft heritage conservation area?

The land is not within a draft heritage conservation area

(e) Is there a draft heritage item situated on the land?

There are no draft heritage items situated on the land

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

Is the land identified within any zone under Part 3 of State Environmental Planning Policy (Sydney Region Growth Centres) 2006, a Precinct Plan, or a Proposed Precinct Plan that is or has been the subject of community consultation or on public exhibition under the Act?

No

ITEM 3 – Complying Development Exclusions

Is the land, land on which complying development may be carried out under 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?

Complying development can be carried out subject to the land not being affected by flooding referred to in ITEM 7A(1).

Housing Code

Yes, under the Housing Code complying development may be carried out on the land.

Low Rise Housing Diversity Code

Yes, under the Low Rise Housing Diversity Code complying development may be carried out on the land.

Rural Housing Code

Yes, under the Rural Housing Code complying development may be carried out on the land.

Housing Alterations Code

Yes, under the Housing Alterations Code complying development may be carried out on the land.

General Development Code

Yes, under the General Development Code complying development may be carried out on the land.

Commercial and Industrial Alterations Code

Yes, under the General Commercial and Industrial Code complying development may be carried out on the land.

Commercial and Industrial (New Buildings and Additions) Code

Yes, under the General Commercial and Industrial (New Buildings and Additions) Code complying development may be carried out on the land.

Container Recycling Facilities Code

Yes, under the Container Recycling Facilities Code complying development may be carried out on the land.

Subdivisions Code

Yes, under the Subdivisions Code complying development may be carried out on the land.

Demolition Code

Yes, under the Demolition Code complying development may be carried out on the land.

Fire Safety Code

Yes, under the Fire Safety Code complying development may be carried out on the land.

ITEM 4 – (Repealed)

ITEM 4A – (Repealed)

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

Has the owner (or any previous owner) of the land 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

ITEM 5 – Mine subsidence

Is the land proclaimed to be in a mine subsidence district within the meaning of the Coal Mine Subsidence Compensation Act 2017?

No

ITEM 6 – Road widening and road realignment

Is the land affected by any road widening or road realignment under:

- (a) *Division 2 of Part 3 of the Roads Act 1993; or*
- (b) *Any environmental planning instrument; or*
- (c) *Any resolution of the Council?*

No

ITEM 7 – Council and other public authority policies on hazard risk restrictions

(a) Whether or not the land is affected by a policy adopted by the Council that restricts the development of the land because of the likelihood of:-

- | | | |
|-------|---------------------|----|
| (i) | land slip | No |
| (ii) | bushfire | No |
| (iii) | tidal inundation | No |
| (iv) | subsidence | No |
| (v) | acid sulphate soils | No |
| (vi) | land contamination | No |
| (vii) | Other Risk | No |

(b) Whether or not the land is affected by a policy adopted by any other public authority and notified to the Council for the express purpose of its adoption by that authority being referred to in planning certificates issued by the Council that restricts the development of the land because of the likelihood of:-

- | | | |
|-------|---------------------|----|
| (i) | land slip | No |
| (ii) | bushfire | No |
| (iii) | tidal inundation | No |
| (iv) | subsidence | No |
| (v) | acid sulphate soils | No |
| (vi) | land contamination | No |
| (vii) | Other Risk | No |

ITEM 7A – Flood related development controls information

1. *Is the land or part of the land within the flood planning area and subject to flood - related development controls.*

No

2. *Is the land or part of the land between the flood planning area and the probable maximum flood (PMF) and subject to flood-related development controls.*

No

3. *In this clause -*

flood planning area has the same meaning as in the Floodplain Development Manual.

Floodplain Development Manual means the Floodplain Development Manual (ISBN 0 7347 5476 0) published by the NSW Government in April 2005.

probable maximum flood has the same meaning as in the Floodplain Development Manual.

ITEM 8 – Land reserved for acquisition

Is there an environmental planning instrument, or proposed environmental planning instrument referred to in clause 1 which makes provision in relation to the acquisition of the land by a public authority, as referred to in section 3.15 of the Environmental Planning and Assessment Act 1979?

No

ITEM 9 – Contributions plans

The name of each contributions plan applying to the land is:-

Cumberland Local Infrastructure Contributions Plan 2020

ITEM 9A - Biodiversity certified land

Is the land biodiversity certified land under Part 8 of the Biodiversity Conservation Act 2016 (including land certified under Part 7AA of the Threatened Species Conservation Act 1995)?

No

ITEM 10 – Biodiversity stewardship sites

Has Council been notified by the Chief Executive of the Office of Environment and Heritage that the land is a biodiversity stewardship site under a biodiversity stewardship agreement under Part 5 of the Biodiversity Conservation Act 2016 (including biobanking agreements under Part 7A of the Threatened Species Conservation Act 1995)?

No

ITEM 10A – Native vegetation clearing set asides

Under section 60ZC of the Local Land Service Act 2013, has Council been notified by Local Land Services (or is it registered in the public register under that section) that the land contains a set aside area?

No

ITEM 11 – Bush fire prone land

- | | | |
|-----|--|-----|
| (a) | <i>All of the land is bush fire prone land.</i> | No |
| (b) | <i>Some of the land is bush fire prone land.</i> | No |
| (c) | <i>None of the land is bush fire prone land.</i> | Yes |

ITEM 12 – Property vegetation plans

Has Council been notified (by the person or body that approved the plan) of the existence of a property vegetation plan approved under Part 4 of the Native Vegetation Act 2003 (and that continues in force) applying to the land?

No

ITEM 13 – Orders under Trees (Disputes Between Neighbours) Act 2006

Has Council been notified that 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

ITEM 14 – Directions under Part 3A

Is there a direction by the Minister in force under section 75P (2) (c1) of the Environmental Planning and Assessment Act 1979 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

ITEM 15 – Site compatibility certificates and conditions for seniors housing

- (a) Has a current site compatibility certificate (seniors housing), of which the Council is aware, been issued under State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 in respect of proposed development on the land?
- No
- (b) Have any terms of a kind referred to in clause 18(2) of State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 been imposed as a condition of consent to a development application granted after 11 October 2007 in respect of the land?
- No

ITEM 16 – Site compatibility certificates for infrastructure, schools or TAFE establishments

Has a valid site compatibility certificate (infrastructure) or a site compatibility certificate (schools or TAFE establishments), of which the Council is aware, been issued?

No

ITEM 17 – Site compatibility certificates and conditions for affordable rental housing

1. *Has a current site compatibility certificate (affordable rental housing), of which the Council is aware, been issued in respect of proposed development on the land?*

No

2. *Have any terms of a kind referred to in clause 17(1) or 38(1) of State Environmental Planning Policy (Affordable Rental Housing) 2009 been imposed as a condition of consent to a development application in respect of the land?*

No

ITEM 18 – Paper subdivision information

Has a development plan been adopted that applies to the land or that is proposed to be subject to a consent ballot?

No

ITEM 19 – Site verification certificates

Has Council been made aware of a current site verification certificate that has been issued in respect of the land?

No

ITEM 20 – Loose – fill asbestos insulation

Has Council been notified that 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

ITEM 21 – Affected building notices and building product rectification orders

1. *Is any affected building notice in force in respect of the land?*

No

2. *Is any building product rectification order in force in respect of the land that has not been fully complied with?*

No

3. Has a notice of intention to make a building product rectification order been given in respect of that land that is outstanding?

No

ITEM 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.

The land is not affected.

NOTE 1 – Matters arising under the Contaminated Land Management Act 1997

Section 59(2) of the Contaminated Land Management Act 1997 prescribes the following additional matters to be specified in planning certificates:-

- (a) *At the date of this certificate, is the land (or part of the land) to which this certificate relates significantly contaminated land?*
No
- (b) *At the date of this certificate, is the land to which this certificate relates subject to a management order?*
No
- (c) *At the date of this certificate, is the land to which this certificate relates the subject of an approved voluntary management proposal?*
No
- (d) *At the date of this certificate, is the land to which this certificate relates subject to an ongoing maintenance order?*
No
- (e) *At the date of this certificate, is the land to which this certificate relates the subject of a site audit statement and a copy of such a statement has been provided to the Council?*
No

GENERAL INFORMATION

The absence of any reference to a matter affecting the land shall not imply that the land is not affected by that matter not referred to in this certificate.

Information provided under section 10.7(2) is in accordance with the matters prescribed under schedule 4 of the Environmental Planning and Assessment Regulation 2000 and is provided only to the extent that the Council has been notified by the Department of Public Works or Department of Planning.

When advice in accordance with section 10.7(5) is requested the Council is under no obligation to furnish any advice. If advice is provided Council draws your attention to section 10.7(6) and schedule 6 of the *Environmental Planning and Assessment Act 1979* which have the effect that Council shall not incur any liability in respect of advice provided in good faith pursuant to section 10.7(5), including the furnishing of advice in respect of contaminated land.

Any enquiries regarding State and Regional Environmental Planning Policies should be directed to the Department of Planning at <http://www.planning.nsw.gov.au>

Please contact Council's Strategic Planning section for further information about this Planning Certificate.

Peter J Fitzgerald
GENERAL MANAGER



APPLICANT: Lotsearch Pty Ltd
Level 3
68 Alfred Street
MILSONS POINT NSW 2061

PLANNING CERTIFICATE

Issued under section 10.7(2) Environmental Planning and Assessment Act 1979

Property: 33 Bailey Street WESTMEAD NSW 2145
Title: Lot 19 Sec A DP 4036
Land No: 80976
Certificate No: PC2021/5675
Certificate Date: 18/11/2021
Applicant's Ref: LS026281

SECTION 10.7(2)

In accordance with the requirements of section 10.7(2) of the Environmental Planning and Assessment Act (1979) ("the Act"), the following prescribed matters relate to the land at the date of this certificate.

ITEM 1 - Names of relevant planning instruments and DCPs

- 1. The following environmental planning instruments apply to the carrying out of development on the land:**

Cumberland Local Environmental Plan 2021

State Environmental Planning Policy No. 19 – Bushland in Urban Areas
State Environmental Planning Policy No. 30 – Intensive Agriculture
State Environmental Planning Policy No. 33 – Hazardous and Offensive Development
State Environmental Planning Policy No. 50 – Canal Estates
State Environmental Planning Policy No. 55 – Remediation of Land
State Environmental Planning Policy No. 62 – Sustainable Aquaculture
State Environmental Planning Policy No. 64 – Advertising and Signage
State Environmental Planning Policy No. 65 – Design Quality of Residential Flat Development
State Environmental Planning Policy No. 70 – Affordable Housing (Revised Schemes)
State Environmental Planning Policy – SEPP (Housing for Seniors or People with a Disability) 2004
State Environmental Planning Policy – Building Sustainability Index: BASIX 2004
State Environmental Planning Policy – (Mining, Petroleum Production and Extractive Industries) 2007
State Environmental Planning Policy – (Infrastructure) 2007
State Environmental Planning Policy – (Temporary Structures) 2007
State Environmental Planning Policy – (Exempt and Complying Development Codes) 2008
State Environmental Planning Policy – (Repeal of Concurrence and Referral Provisions) 2008
State Environmental Planning Policy – (Affordable Rental Housing) 2009
State Environmental Planning Policy – (Vegetation in Non-Rural Areas) 2017
State Environmental Planning Policy – (Educational Establishments and Child Care Facilities) 2017
State Environmental Planning Policy – (Primary Production and Rural Development) 2019
State Environmental Planning Policy – (State and Regional Development) 2011
State Environmental Planning Policy – (Concurrences) 2018
State Environmental Planning Policy No. 21 – Caravan Parks

Sydney Regional Environmental Plan No. 9 – Extractive Industry (No. 2 – 1995)
Sydney Regional Environmental Plan (Sydney Harbour Catchment) 2005

- 2. The following proposed environmental planning instruments apply to the carrying out of development on the land and are or have been the subject of community consultation or on public exhibition under the Environmental Planning and Assessment Act 1979:**

No proposed environmental planning instruments apply

- 3. The following development control plans apply to the carrying out of development on the land:**

Cumberland Development Control Plan 2021

ITEM 2 - Zoning and land use under relevant LEPs**1. (a) Zoning details in the instruments identified in ITEM 1(1) above****Zone R4 High Density Residential****1. Objectives of zone**

- To provide for the housing needs of the community within a high density residential environment.
- To provide a variety of housing types within a high density residential environment.
- To enable other land uses that provide facilities or services to meet the day to day needs of residents.
- To ensure that non-residential land uses are located in a setting that minimises impacts on the amenity of a high density residential environment.
- To encourage residential development that maintains the amenity of the surrounding area.

2. Permitted without consent

Home occupations

3. Permitted with consent

Attached dwellings; Bed and breakfast accommodation; Boarding houses; Building identification signs; Business identification signs; Centre-based child care facilities; Community facilities; Home industries; Hostels; Kiosks; Multi dwelling housing; Neighbourhood shops; Oyster aquaculture; Places of public worship; Residential flat buildings; Respite day care centres; Roads; Seniors housing; Shop top housing; Water recycling facilities; Any other development not specified in item 2 or 4

4. Prohibited

Agriculture; Air transport facilities; Airstrips; Amusement centres; Animal boarding or training establishments; Boat building and repair facilities; Boat sheds; Camping grounds; Car parks; Caravan parks; Cemeteries; Charter and tourism boating facilities; Commercial premises; Correctional centres; Crematoria; Depots; Dwelling houses; Eco-tourist facilities; Electricity generating works; Entertainment facilities; Environmental facilities; Exhibition villages; Extractive industries; Farm buildings; Forestry; Freight transport facilities; Function centres; Heavy industrial storage establishments; Helipads; Highway service centres; Home occupations (sex services); Industrial retail outlets; Industrial training facilities; Industries; Information and education facilities; Marinas; Mooring pens; Moorings; Mortuaries; Open cut mining; Passenger transport facilities; Pond-based aquaculture; Port facilities; Recreation facilities (major); Registered clubs; Research stations; Residential accommodation; Restricted premises; Rural industries; Service stations; Sewerage systems; Sex services premises; Signage; Storage premises; Tank-based aquaculture; Tourist and visitor accommodation; Transport depots; Truck depots; Vehicle body repair workshops; Vehicle repair stations; Veterinary hospitals; Warehouse or distribution centres; Waste or resource management facilities; Water recreation structures; Water supply systems; Wharf or boating facilities; Wholesale supplies

Additional permitted uses

No additional uses apply

(b) Are there development standards applying to the land, which fix minimum land dimensions for the erection of a dwelling house on the land?

No fixed minimum land dimensions apply to this land

(c) Does the land include or comprise critical habitat?

The land does not include or comprise critical habitat

(d) Is the land within a heritage conservation area?

The land is not within a heritage conservation area

(e) Is there a heritage item situated on the land?

There are no heritage items situated on the land

2. (a) Zoning details in the instruments identified in ITEM 1(2) above

No draft zoning applies to the land

Additional permitted uses

No draft additional uses apply

(b) Are there development standards applying to the land, which fix minimum land dimensions for the erection of a dwelling house on the land?

No fixed minimum land dimensions apply to the land under a draft environmental planning instrument

(c) Does the land include or comprise critical habitat?

The land does not include or comprise critical habitat under a draft environmental planning instrument

(d) Is the land within a draft heritage conservation area?

The land is not within a draft heritage conservation area

(e) Is there a draft heritage item situated on the land?

There are no draft heritage items situated on the land

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

Is the land identified within any zone under Part 3 of State Environmental Planning Policy (Sydney Region Growth Centres) 2006, a Precinct Plan, or a Proposed Precinct Plan that is or has been the subject of community consultation or on public exhibition under the Act?

No

ITEM 3 – Complying Development Exclusions

Is the land, land on which complying development may be carried out under 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?

Complying development can be carried out subject to the land not being affected by flooding referred to in ITEM 7A(1).

Housing Code

Yes, under the Housing Code complying development may be carried out on the land.

Low Rise Housing Diversity Code

Yes, under the Low Rise Housing Diversity Code complying development may be carried out on the land.

Rural Housing Code

Yes, under the Rural Housing Code complying development may be carried out on the land.

Housing Alterations Code

Yes, under the Housing Alterations Code complying development may be carried out on the land.

General Development Code

Yes, under the General Development Code complying development may be carried out on the land.

Commercial and Industrial Alterations Code

Yes, under the General Commercial and Industrial Code complying development may be carried out on the land.

Commercial and Industrial (New Buildings and Additions) Code

Yes, under the General Commercial and Industrial (New Buildings and Additions) Code complying development may be carried out on the land.

Container Recycling Facilities Code

Yes, under the Container Recycling Facilities Code complying development may be carried out on the land.

Subdivisions Code

Yes, under the Subdivisions Code complying development may be carried out on the land.

Demolition Code

Yes, under the Demolition Code complying development may be carried out on the land.

Fire Safety Code

Yes, under the Fire Safety Code complying development may be carried out on the land.

ITEM 4 – (Repealed)

ITEM 4A – (Repealed)

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

Has the owner (or any previous owner) of the land 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

ITEM 5 – Mine subsidence

Is the land proclaimed to be in a mine subsidence district within the meaning of the Coal Mine Subsidence Compensation Act 2017?

No

ITEM 6 – Road widening and road realignment

Is the land affected by any road widening or road realignment under:

- (a) *Division 2 of Part 3 of the Roads Act 1993; or*
- (b) *Any environmental planning instrument; or*
- (c) *Any resolution of the Council?*

No

ITEM 7 – Council and other public authority policies on hazard risk restrictions

(a) Whether or not the land is affected by a policy adopted by the Council that restricts the development of the land because of the likelihood of:-

- | | | |
|-------|---------------------|----|
| (i) | land slip | No |
| (ii) | bushfire | No |
| (iii) | tidal inundation | No |
| (iv) | subsidence | No |
| (v) | acid sulphate soils | No |
| (vi) | land contamination | No |
| (vii) | Other Risk | No |

(b) Whether or not the land is affected by a policy adopted by any other public authority and notified to the Council for the express purpose of its adoption by that authority being referred to in planning certificates issued by the Council that restricts the development of the land because of the likelihood of:-

- | | | |
|-------|---------------------|----|
| (i) | land slip | No |
| (ii) | bushfire | No |
| (iii) | tidal inundation | No |
| (iv) | subsidence | No |
| (v) | acid sulphate soils | No |
| (vi) | land contamination | No |
| (vii) | Other Risk | No |

ITEM 7A – Flood related development controls information

1. *Is the land or part of the land within the flood planning area and subject to flood - related development controls.*

No

2. *Is the land or part of the land between the flood planning area and the probable maximum flood (PMF) and subject to flood-related development controls.*

No

3. *In this clause -*

flood planning area has the same meaning as in the Floodplain Development Manual.

Floodplain Development Manual means the Floodplain Development Manual (ISBN 0 7347 5476 0) published by the NSW Government in April 2005.

probable maximum flood has the same meaning as in the Floodplain Development Manual.

ITEM 8 – Land reserved for acquisition

Is there an environmental planning instrument, or proposed environmental planning instrument referred to in clause 1 which makes provision in relation to the acquisition of the land by a public authority, as referred to in section 3.15 of the Environmental Planning and Assessment Act 1979?

No

ITEM 9 – Contributions plans

The name of each contributions plan applying to the land is:-

Cumberland Local Infrastructure Contributions Plan 2020

ITEM 9A - Biodiversity certified land

Is the land biodiversity certified land under Part 8 of the Biodiversity Conservation Act 2016 (including land certified under Part 7AA of the Threatened Species Conservation Act 1995)?

No

ITEM 10 – Biodiversity stewardship sites

Has Council been notified by the Chief Executive of the Office of Environment and Heritage that the land is a biodiversity stewardship site under a biodiversity stewardship agreement under Part 5 of the Biodiversity Conservation Act 2016 (including biobanking agreements under Part 7A of the Threatened Species Conservation Act 1995)?

No

ITEM 10A – Native vegetation clearing set asides

Under section 60ZC of the Local Land Service Act 2013, has Council been notified by Local Land Services (or is it registered in the public register under that section) that the land contains a set aside area?

No

ITEM 11 – Bush fire prone land

- | | | |
|-----|--|-----|
| (a) | <i>All of the land is bush fire prone land.</i> | No |
| (b) | <i>Some of the land is bush fire prone land.</i> | No |
| (c) | <i>None of the land is bush fire prone land.</i> | Yes |

ITEM 12 – Property vegetation plans

Has Council been notified (by the person or body that approved the plan) of the existence of a property vegetation plan approved under Part 4 of the Native Vegetation Act 2003 (and that continues in force) applying to the land?

No

ITEM 13 – Orders under Trees (Disputes Between Neighbours) Act 2006

Has Council been notified that 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

ITEM 14 – Directions under Part 3A

Is there a direction by the Minister in force under section 75P (2) (c1) of the Environmental Planning and Assessment Act 1979 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

ITEM 15 – Site compatibility certificates and conditions for seniors housing

- (a) Has a current site compatibility certificate (seniors housing), of which the Council is aware, been issued under State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 in respect of proposed development on the land?
- No
- (b) Have any terms of a kind referred to in clause 18(2) of State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 been imposed as a condition of consent to a development application granted after 11 October 2007 in respect of the land?
- No

ITEM 16 – Site compatibility certificates for infrastructure, schools or TAFE establishments

Has a valid site compatibility certificate (infrastructure) or a site compatibility certificate (schools or TAFE establishments), of which the Council is aware, been issued?

No

ITEM 17 – Site compatibility certificates and conditions for affordable rental housing

1. *Has a current site compatibility certificate (affordable rental housing), of which the Council is aware, been issued in respect of proposed development on the land?*

No

2. *Have any terms of a kind referred to in clause 17(1) or 38(1) of State Environmental Planning Policy (Affordable Rental Housing) 2009 been imposed as a condition of consent to a development application in respect of the land?*

No

ITEM 18 – Paper subdivision information

Has a development plan been adopted that applies to the land or that is proposed to be subject to a consent ballot?

No

ITEM 19 – Site verification certificates

Has Council been made aware of a current site verification certificate that has been issued in respect of the land?

No

ITEM 20 – Loose – fill asbestos insulation

Has Council been notified that 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

ITEM 21 – Affected building notices and building product rectification orders

1. *Is any affected building notice in force in respect of the land?*

No

2. *Is any building product rectification order in force in respect of the land that has not been fully complied with?*

No

3. Has a notice of intention to make a building product rectification order been given in respect of that land that is outstanding?

No

ITEM 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.

The land is not affected.

NOTE 1 – Matters arising under the Contaminated Land Management Act 1997

Section 59(2) of the Contaminated Land Management Act 1997 prescribes the following additional matters to be specified in planning certificates:-

- (a) *At the date of this certificate, is the land (or part of the land) to which this certificate relates significantly contaminated land?*
No
- (b) *At the date of this certificate, is the land to which this certificate relates subject to a management order?*
No
- (c) *At the date of this certificate, is the land to which this certificate relates the subject of an approved voluntary management proposal?*
No
- (d) *At the date of this certificate, is the land to which this certificate relates subject to an ongoing maintenance order?*
No
- (e) *At the date of this certificate, is the land to which this certificate relates the subject of a site audit statement and a copy of such a statement has been provided to the Council?*
No

GENERAL INFORMATION

The absence of any reference to a matter affecting the land shall not imply that the land is not affected by that matter not referred to in this certificate.

Information provided under section 10.7(2) is in accordance with the matters prescribed under schedule 4 of the Environmental Planning and Assessment Regulation 2000 and is provided only to the extent that the Council has been notified by the Department of Public Works or Department of Planning.

When advice in accordance with section 10.7(5) is requested the Council is under no obligation to furnish any advice. If advice is provided Council draws your attention to section 10.7(6) and schedule 6 of the *Environmental Planning and Assessment Act 1979* which have the effect that Council shall not incur any liability in respect of advice provided in good faith pursuant to section 10.7(5), including the furnishing of advice in respect of contaminated land.

Any enquiries regarding State and Regional Environmental Planning Policies should be directed to the Department of Planning at <http://www.planning.nsw.gov.au>

Please contact Council's Strategic Planning section for further information about this Planning Certificate.

Peter J Fitzgerald
GENERAL MANAGER



APPLICANT: Lotsearch Pty Ltd
Level 3
68 Alfred Street
MILSONS POINT NSW 2061

PLANNING CERTIFICATE

Issued under section 10.7(2) Environmental Planning and Assessment Act 1979

Property: 31 Bailey Street WESTMEAD NSW 2145
Title: Lot 20 Sec A DP 4036
Land No: 80973
Certificate No: PC2021/5674
Certificate Date: 18/11/2021
Applicant's Ref: LS026281

SECTION 10.7(2)

In accordance with the requirements of section 10.7(2) of the Environmental Planning and Assessment Act (1979) ("the Act"), the following prescribed matters relate to the land at the date of this certificate.

ITEM 1 - Names of relevant planning instruments and DCPs

1. ***The following environmental planning instruments apply to the carrying out of development on the land:***

Cumberland Local Environmental Plan 2021

State Environmental Planning Policy No. 19 – Bushland in Urban Areas
State Environmental Planning Policy No. 30 – Intensive Agriculture
State Environmental Planning Policy No. 33 – Hazardous and Offensive Development
State Environmental Planning Policy No. 50 – Canal Estates
State Environmental Planning Policy No. 55 – Remediation of Land
State Environmental Planning Policy No. 62 – Sustainable Aquaculture
State Environmental Planning Policy No. 64 – Advertising and Signage
State Environmental Planning Policy No. 65 – Design Quality of Residential Flat Development
State Environmental Planning Policy No. 70 – Affordable Housing (Revised Schemes)
State Environmental Planning Policy – SEPP (Housing for Seniors or People with a Disability) 2004
State Environmental Planning Policy – Building Sustainability Index: BASIX 2004
State Environmental Planning Policy – (Mining, Petroleum Production and Extractive Industries) 2007
State Environmental Planning Policy – (Infrastructure) 2007
State Environmental Planning Policy – (Temporary Structures) 2007
State Environmental Planning Policy – (Exempt and Complying Development Codes) 2008
State Environmental Planning Policy – (Repeal of Concurrence and Referral Provisions) 2008
State Environmental Planning Policy – (Affordable Rental Housing) 2009
State Environmental Planning Policy – (Vegetation in Non-Rural Areas) 2017
State Environmental Planning Policy – (Educational Establishments and Child Care Facilities) 2017
State Environmental Planning Policy – (Primary Production and Rural Development) 2019
State Environmental Planning Policy – (State and Regional Development) 2011
State Environmental Planning Policy – (Concurrences) 2018
State Environmental Planning Policy No. 21 – Caravan Parks

Sydney Regional Environmental Plan No. 9 – Extractive Industry (No. 2 – 1995)
Sydney Regional Environmental Plan (Sydney Harbour Catchment) 2005

2. ***The following proposed environmental planning instruments apply to the carrying out of development on the land and are or have been the subject of community consultation or on public exhibition under the Environmental Planning and Assessment Act 1979:***

No proposed environmental planning instruments apply

3. ***The following development control plans apply to the carrying out of development on the land:***

Cumberland Development Control Plan 2021

ITEM 2 - Zoning and land use under relevant LEPs**1. (a) Zoning details in the instruments identified in ITEM 1(1) above****Zone R4 High Density Residential****1. Objectives of zone**

- To provide for the housing needs of the community within a high density residential environment.
- To provide a variety of housing types within a high density residential environment.
- To enable other land uses that provide facilities or services to meet the day to day needs of residents.
- To ensure that non-residential land uses are located in a setting that minimises impacts on the amenity of a high density residential environment.
- To encourage residential development that maintains the amenity of the surrounding area.

2. Permitted without consent

Home occupations

3. Permitted with consent

Attached dwellings; Bed and breakfast accommodation; Boarding houses; Building identification signs; Business identification signs; Centre-based child care facilities; Community facilities; Home industries; Hostels; Kiosks; Multi dwelling housing; Neighbourhood shops; Oyster aquaculture; Places of public worship; Residential flat buildings; Respite day care centres; Roads; Seniors housing; Shop top housing; Water recycling facilities; Any other development not specified in item 2 or 4

4. Prohibited

Agriculture; Air transport facilities; Airstrips; Amusement centres; Animal boarding or training establishments; Boat building and repair facilities; Boat sheds; Camping grounds; Car parks; Caravan parks; Cemeteries; Charter and tourism boating facilities; Commercial premises; Correctional centres; Crematoria; Depots; Dwelling houses; Eco-tourist facilities; Electricity generating works; Entertainment facilities; Environmental facilities; Exhibition villages; Extractive industries; Farm buildings; Forestry; Freight transport facilities; Function centres; Heavy industrial storage establishments; Helipads; Highway service centres; Home occupations (sex services); Industrial retail outlets; Industrial training facilities; Industries; Information and education facilities; Marinas; Mooring pens; Moorings; Mortuaries; Open cut mining; Passenger transport facilities; Pond-based aquaculture; Port facilities; Recreation facilities (major); Registered clubs; Research stations; Residential accommodation; Restricted premises; Rural industries; Service stations; Sewerage systems; Sex services premises; Signage; Storage premises; Tank-based aquaculture; Tourist and visitor accommodation; Transport depots; Truck depots; Vehicle body repair workshops; Vehicle repair stations; Veterinary hospitals; Warehouse or distribution centres; Waste or resource management facilities; Water recreation structures; Water supply systems; Wharf or boating facilities; Wholesale supplies

Additional permitted uses

No additional uses apply

(b) Are there development standards applying to the land, which fix minimum land dimensions for the erection of a dwelling house on the land?

No fixed minimum land dimensions apply to this land

(c) Does the land include or comprise critical habitat?

The land does not include or comprise critical habitat

(d) Is the land within a heritage conservation area?

The land is not within a heritage conservation area

(e) Is there a heritage item situated on the land?

There are no heritage items situated on the land

2. (a) Zoning details in the instruments identified in ITEM 1(2) above

No draft zoning applies to the land

Additional permitted uses

No draft additional uses apply

(b) Are there development standards applying to the land, which fix minimum land dimensions for the erection of a dwelling house on the land?

No fixed minimum land dimensions apply to the land under a draft environmental planning instrument

(c) Does the land include or comprise critical habitat?

The land does not include or comprise critical habitat under a draft environmental planning instrument

(d) Is the land within a draft heritage conservation area?

The land is not within a draft heritage conservation area

(e) Is there a draft heritage item situated on the land?

There are no draft heritage items situated on the land

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

Is the land identified within any zone under Part 3 of State Environmental Planning Policy (Sydney Region Growth Centres) 2006, a Precinct Plan, or a Proposed Precinct Plan that is or has been the subject of community consultation or on public exhibition under the Act?

No

ITEM 3 – Complying Development Exclusions

Is the land, land on which complying development may be carried out under 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?

Complying development can be carried out subject to the land not being affected by flooding referred to in ITEM 7A(1).

Housing Code

Yes, under the Housing Code complying development may be carried out on the land.

Low Rise Housing Diversity Code

Yes, under the Low Rise Housing Diversity Code complying development may be carried out on the land.

Rural Housing Code

Yes, under the Rural Housing Code complying development may be carried out on the land.

Housing Alterations Code

Yes, under the Housing Alterations Code complying development may be carried out on the land.

General Development Code

Yes, under the General Development Code complying development may be carried out on the land.

Commercial and Industrial Alterations Code

Yes, under the General Commercial and Industrial Code complying development may be carried out on the land.

Commercial and Industrial (New Buildings and Additions) Code

Yes, under the General Commercial and Industrial (New Buildings and Additions) Code complying development may be carried out on the land.

Container Recycling Facilities Code

Yes, under the Container Recycling Facilities Code complying development may be carried out on the land.

Subdivisions Code

Yes, under the Subdivisions Code complying development may be carried out on the land.

Demolition Code

Yes, under the Demolition Code complying development may be carried out on the land.

Fire Safety Code

Yes, under the Fire Safety Code complying development may be carried out on the land.

ITEM 4 – (Repealed)

ITEM 4A – (Repealed)

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

Has the owner (or any previous owner) of the land 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

ITEM 5 – Mine subsidence

Is the land proclaimed to be in a mine subsidence district within the meaning of the Coal Mine Subsidence Compensation Act 2017?

No

ITEM 6 – Road widening and road realignment

Is the land affected by any road widening or road realignment under:

- (a) *Division 2 of Part 3 of the Roads Act 1993; or*
- (b) *Any environmental planning instrument; or*
- (c) *Any resolution of the Council?*

No

ITEM 7 – Council and other public authority policies on hazard risk restrictions

(a) Whether or not the land is affected by a policy adopted by the Council that restricts the development of the land because of the likelihood of:-

- | | | |
|-------|---------------------|----|
| (i) | land slip | No |
| (ii) | bushfire | No |
| (iii) | tidal inundation | No |
| (iv) | subsidence | No |
| (v) | acid sulphate soils | No |
| (vi) | land contamination | No |
| (vii) | Other Risk | No |

(b) Whether or not the land is affected by a policy adopted by any other public authority and notified to the Council for the express purpose of its adoption by that authority being referred to in planning certificates issued by the Council that restricts the development of the land because of the likelihood of:-

- | | | |
|-------|---------------------|----|
| (i) | land slip | No |
| (ii) | bushfire | No |
| (iii) | tidal inundation | No |
| (iv) | subsidence | No |
| (v) | acid sulphate soils | No |
| (vi) | land contamination | No |
| (vii) | Other Risk | No |

ITEM 7A – Flood related development controls information

1. *Is the land or part of the land within the flood planning area and subject to flood - related development controls.*

No

2. *Is the land or part of the land between the flood planning area and the probable maximum flood (PMF) and subject to flood-related development controls.*

No

3. *In this clause -*

flood planning area has the same meaning as in the Floodplain Development Manual.

Floodplain Development Manual means the Floodplain Development Manual (ISBN 0 7347 5476 0) published by the NSW Government in April 2005.

probable maximum flood has the same meaning as in the Floodplain Development Manual.

ITEM 8 – Land reserved for acquisition

Is there an environmental planning instrument, or proposed environmental planning instrument referred to in clause 1 which makes provision in relation to the acquisition of the land by a public authority, as referred to in section 3.15 of the Environmental Planning and Assessment Act 1979?

No

ITEM 9 – Contributions plans

The name of each contributions plan applying to the land is:-

Cumberland Local Infrastructure Contributions Plan 2020

ITEM 9A - Biodiversity certified land

Is the land biodiversity certified land under Part 8 of the Biodiversity Conservation Act 2016 (including land certified under Part 7AA of the Threatened Species Conservation Act 1995)?

No

ITEM 10 – Biodiversity stewardship sites

Has Council been notified by the Chief Executive of the Office of Environment and Heritage that the land is a biodiversity stewardship site under a biodiversity stewardship agreement under Part 5 of the Biodiversity Conservation Act 2016 (including biobanking agreements under Part 7A of the Threatened Species Conservation Act 1995)?

No

ITEM 10A – Native vegetation clearing set asides

Under section 60ZC of the Local Land Service Act 2013, has Council been notified by Local Land Services (or is it registered in the public register under that section) that the land contains a set aside area?

No

ITEM 11 – Bush fire prone land

- | | | |
|-----|--|-----|
| (a) | <i>All of the land is bush fire prone land.</i> | No |
| (b) | <i>Some of the land is bush fire prone land.</i> | No |
| (c) | <i>None of the land is bush fire prone land.</i> | Yes |

ITEM 12 – Property vegetation plans

Has Council been notified (by the person or body that approved the plan) of the existence of a property vegetation plan approved under Part 4 of the Native Vegetation Act 2003 (and that continues in force) applying to the land?

No

ITEM 13 – Orders under Trees (Disputes Between Neighbours) Act 2006

Has Council been notified that 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

ITEM 14 – Directions under Part 3A

Is there a direction by the Minister in force under section 75P (2) (c1) of the Environmental Planning and Assessment Act 1979 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

ITEM 15 – Site compatibility certificates and conditions for seniors housing

- (a) Has a current site compatibility certificate (seniors housing), of which the Council is aware, been issued under State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 in respect of proposed development on the land?
- No
- (b) Have any terms of a kind referred to in clause 18(2) of State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 been imposed as a condition of consent to a development application granted after 11 October 2007 in respect of the land?
- No

ITEM 16 – Site compatibility certificates for infrastructure, schools or TAFE establishments

Has a valid site compatibility certificate (infrastructure) or a site compatibility certificate (schools or TAFE establishments), of which the Council is aware, been issued?

No

ITEM 17 – Site compatibility certificates and conditions for affordable rental housing

1. *Has a current site compatibility certificate (affordable rental housing), of which the Council is aware, been issued in respect of proposed development on the land?*

No

2. *Have any terms of a kind referred to in clause 17(1) or 38(1) of State Environmental Planning Policy (Affordable Rental Housing) 2009 been imposed as a condition of consent to a development application in respect of the land?*

No

ITEM 18 – Paper subdivision information

Has a development plan been adopted that applies to the land or that is proposed to be subject to a consent ballot?

No

ITEM 19 – Site verification certificates

Has Council been made aware of a current site verification certificate that has been issued in respect of the land?

No

ITEM 20 – Loose – fill asbestos insulation

Has Council been notified that 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

ITEM 21 – Affected building notices and building product rectification orders

1. *Is any affected building notice in force in respect of the land?*

No

2. *Is any building product rectification order in force in respect of the land that has not been fully complied with?*

No

3. Has a notice of intention to make a building product rectification order been given in respect of that land that is outstanding?

No

ITEM 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.

The land is not affected.

NOTE 1 – Matters arising under the Contaminated Land Management Act 1997

Section 59(2) of the Contaminated Land Management Act 1997 prescribes the following additional matters to be specified in planning certificates:-

- (a) *At the date of this certificate, is the land (or part of the land) to which this certificate relates significantly contaminated land?*
No
- (b) *At the date of this certificate, is the land to which this certificate relates subject to a management order?*
No
- (c) *At the date of this certificate, is the land to which this certificate relates the subject of an approved voluntary management proposal?*
No
- (d) *At the date of this certificate, is the land to which this certificate relates subject to an ongoing maintenance order?*
No
- (e) *At the date of this certificate, is the land to which this certificate relates the subject of a site audit statement and a copy of such a statement has been provided to the Council?*
No

GENERAL INFORMATION

The absence of any reference to a matter affecting the land shall not imply that the land is not affected by that matter not referred to in this certificate.

Information provided under section 10.7(2) is in accordance with the matters prescribed under schedule 4 of the Environmental Planning and Assessment Regulation 2000 and is provided only to the extent that the Council has been notified by the Department of Public Works or Department of Planning.

When advice in accordance with section 10.7(5) is requested the Council is under no obligation to furnish any advice. If advice is provided Council draws your attention to section 10.7(6) and schedule 6 of the *Environmental Planning and Assessment Act 1979* which have the effect that Council shall not incur any liability in respect of advice provided in good faith pursuant to section 10.7(5), including the furnishing of advice in respect of contaminated land.

Any enquiries regarding State and Regional Environmental Planning Policies should be directed to the Department of Planning at <http://www.planning.nsw.gov.au>

Please contact Council's Strategic Planning section for further information about this Planning Certificate.

Peter J Fitzgerald
GENERAL MANAGER



APPLICANT: Lotsearch Pty Ltd
Level 3
68 Alfred Street
MILSONS POINT NSW 2061

PLANNING CERTIFICATE

Issued under section 10.7(2) Environmental Planning and Assessment Act 1979

Property: 31 Bailey Street WESTMEAD NSW 2145
Title: Lot 21 Sec A DP 4036
Land No: 80974
Certificate No: PC2021/5673
Certificate Date: 18/11/2021
Applicant's Ref: LS026281

SECTION 10.7(2)

In accordance with the requirements of section 10.7(2) of the Environmental Planning and Assessment Act (1979) ("the Act"), the following prescribed matters relate to the land at the date of this certificate.

ITEM 1 - Names of relevant planning instruments and DCPs

1. ***The following environmental planning instruments apply to the carrying out of development on the land:***

Cumberland Local Environmental Plan 2021

State Environmental Planning Policy No. 19 – Bushland in Urban Areas
State Environmental Planning Policy No. 30 – Intensive Agriculture
State Environmental Planning Policy No. 33 – Hazardous and Offensive Development
State Environmental Planning Policy No. 50 – Canal Estates
State Environmental Planning Policy No. 55 – Remediation of Land
State Environmental Planning Policy No. 62 – Sustainable Aquaculture
State Environmental Planning Policy No. 64 – Advertising and Signage
State Environmental Planning Policy No. 65 – Design Quality of Residential Flat Development
State Environmental Planning Policy No. 70 – Affordable Housing (Revised Schemes)
State Environmental Planning Policy – SEPP (Housing for Seniors or People with a Disability) 2004
State Environmental Planning Policy – Building Sustainability Index: BASIX 2004
State Environmental Planning Policy – (Mining, Petroleum Production and Extractive Industries) 2007
State Environmental Planning Policy – (Infrastructure) 2007
State Environmental Planning Policy – (Temporary Structures) 2007
State Environmental Planning Policy – (Exempt and Complying Development Codes) 2008
State Environmental Planning Policy – (Repeal of Concurrence and Referral Provisions) 2008
State Environmental Planning Policy – (Affordable Rental Housing) 2009
State Environmental Planning Policy – (Vegetation in Non-Rural Areas) 2017
State Environmental Planning Policy – (Educational Establishments and Child Care Facilities) 2017
State Environmental Planning Policy – (Primary Production and Rural Development) 2019
State Environmental Planning Policy – (State and Regional Development) 2011
State Environmental Planning Policy – (Concurrences) 2018
State Environmental Planning Policy No. 21 – Caravan Parks

Sydney Regional Environmental Plan No. 9 – Extractive Industry (No. 2 – 1995)
Sydney Regional Environmental Plan (Sydney Harbour Catchment) 2005

2. ***The following proposed environmental planning instruments apply to the carrying out of development on the land and are or have been the subject of community consultation or on public exhibition under the Environmental Planning and Assessment Act 1979:***

No proposed environmental planning instruments apply

3. ***The following development control plans apply to the carrying out of development on the land:***

Cumberland Development Control Plan 2021

ITEM 2 - Zoning and land use under relevant LEPs**1. (a) Zoning details in the instruments identified in ITEM 1(1) above****Zone R4 High Density Residential****1. Objectives of zone**

- To provide for the housing needs of the community within a high density residential environment.
- To provide a variety of housing types within a high density residential environment.
- To enable other land uses that provide facilities or services to meet the day to day needs of residents.
- To ensure that non-residential land uses are located in a setting that minimises impacts on the amenity of a high density residential environment.
- To encourage residential development that maintains the amenity of the surrounding area.

2. Permitted without consent

Home occupations

3. Permitted with consent

Attached dwellings; Bed and breakfast accommodation; Boarding houses; Building identification signs; Business identification signs; Centre-based child care facilities; Community facilities; Home industries; Hostels; Kiosks; Multi dwelling housing; Neighbourhood shops; Oyster aquaculture; Places of public worship; Residential flat buildings; Respite day care centres; Roads; Seniors housing; Shop top housing; Water recycling facilities; Any other development not specified in item 2 or 4

4. Prohibited

Agriculture; Air transport facilities; Airstrips; Amusement centres; Animal boarding or training establishments; Boat building and repair facilities; Boat sheds; Camping grounds; Car parks; Caravan parks; Cemeteries; Charter and tourism boating facilities; Commercial premises; Correctional centres; Crematoria; Depots; Dwelling houses; Eco-tourist facilities; Electricity generating works; Entertainment facilities; Environmental facilities; Exhibition villages; Extractive industries; Farm buildings; Forestry; Freight transport facilities; Function centres; Heavy industrial storage establishments; Helipads; Highway service centres; Home occupations (sex services); Industrial retail outlets; Industrial training facilities; Industries; Information and education facilities; Marinas; Mooring pens; Moorings; Mortuaries; Open cut mining; Passenger transport facilities; Pond-based aquaculture; Port facilities; Recreation facilities (major); Registered clubs; Research stations; Residential accommodation; Restricted premises; Rural industries; Service stations; Sewerage systems; Sex services premises; Signage; Storage premises; Tank-based aquaculture; Tourist and visitor accommodation; Transport depots; Truck depots; Vehicle body repair workshops; Vehicle repair stations; Veterinary hospitals; Warehouse or distribution centres; Waste or resource management facilities; Water recreation structures; Water supply systems; Wharf or boating facilities; Wholesale supplies

Additional permitted uses

No additional uses apply

(b) Are there development standards applying to the land, which fix minimum land dimensions for the erection of a dwelling house on the land?

No fixed minimum land dimensions apply to this land

(c) Does the land include or comprise critical habitat?

The land does not include or comprise critical habitat

(d) Is the land within a heritage conservation area?

The land is not within a heritage conservation area

(e) Is there a heritage item situated on the land?

There are no heritage items situated on the land

2. (a) Zoning details in the instruments identified in ITEM 1(2) above

No draft zoning applies to the land

Additional permitted uses

No draft additional uses apply

(b) Are there development standards applying to the land, which fix minimum land dimensions for the erection of a dwelling house on the land?

No fixed minimum land dimensions apply to the land under a draft environmental planning instrument

(c) Does the land include or comprise critical habitat?

The land does not include or comprise critical habitat under a draft environmental planning instrument

(d) Is the land within a draft heritage conservation area?

The land is not within a draft heritage conservation area

(e) Is there a draft heritage item situated on the land?

There are no draft heritage items situated on the land

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

Is the land identified within any zone under Part 3 of State Environmental Planning Policy (Sydney Region Growth Centres) 2006, a Precinct Plan, or a Proposed Precinct Plan that is or has been the subject of community consultation or on public exhibition under the Act?

No

ITEM 3 – Complying Development Exclusions

Is the land, land on which complying development may be carried out under 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?

Complying development can be carried out subject to the land not being affected by flooding referred to in ITEM 7A(1).

Housing Code

Yes, under the Housing Code complying development may be carried out on the land.

Low Rise Housing Diversity Code

Yes, under the Low Rise Housing Diversity Code complying development may be carried out on the land.

Rural Housing Code

Yes, under the Rural Housing Code complying development may be carried out on the land.

Housing Alterations Code

Yes, under the Housing Alterations Code complying development may be carried out on the land.

General Development Code

Yes, under the General Development Code complying development may be carried out on the land.

Commercial and Industrial Alterations Code

Yes, under the General Commercial and Industrial Code complying development may be carried out on the land.

Commercial and Industrial (New Buildings and Additions) Code

Yes, under the General Commercial and Industrial (New Buildings and Additions) Code complying development may be carried out on the land.

Container Recycling Facilities Code

Yes, under the Container Recycling Facilities Code complying development may be carried out on the land.

Subdivisions Code

Yes, under the Subdivisions Code complying development may be carried out on the land.

Demolition Code

Yes, under the Demolition Code complying development may be carried out on the land.

Fire Safety Code

Yes, under the Fire Safety Code complying development may be carried out on the land.

ITEM 4 – (Repealed)

ITEM 4A – (Repealed)

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

Has the owner (or any previous owner) of the land 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

ITEM 5 – Mine subsidence

Is the land proclaimed to be in a mine subsidence district within the meaning of the Coal Mine Subsidence Compensation Act 2017?

No

ITEM 6 – Road widening and road realignment

Is the land affected by any road widening or road realignment under:

- (a) *Division 2 of Part 3 of the Roads Act 1993; or*
- (b) *Any environmental planning instrument; or*
- (c) *Any resolution of the Council?*

No

ITEM 7 – Council and other public authority policies on hazard risk restrictions

(a) Whether or not the land is affected by a policy adopted by the Council that restricts the development of the land because of the likelihood of:-

- | | | |
|-------|---------------------|----|
| (i) | land slip | No |
| (ii) | bushfire | No |
| (iii) | tidal inundation | No |
| (iv) | subsidence | No |
| (v) | acid sulphate soils | No |
| (vi) | land contamination | No |
| (vii) | Other Risk | No |

(b) Whether or not the land is affected by a policy adopted by any other public authority and notified to the Council for the express purpose of its adoption by that authority being referred to in planning certificates issued by the Council that restricts the development of the land because of the likelihood of:-

- | | | |
|-------|---------------------|----|
| (i) | land slip | No |
| (ii) | bushfire | No |
| (iii) | tidal inundation | No |
| (iv) | subsidence | No |
| (v) | acid sulphate soils | No |
| (vi) | land contamination | No |
| (vii) | Other Risk | No |

ITEM 7A – Flood related development controls information

1. *Is the land or part of the land within the flood planning area and subject to flood - related development controls.*

No

2. *Is the land or part of the land between the flood planning area and the probable maximum flood (PMF) and subject to flood-related development controls.*

No

3. *In this clause -*

flood planning area has the same meaning as in the Floodplain Development Manual.

Floodplain Development Manual means the Floodplain Development Manual (ISBN 0 7347 5476 0) published by the NSW Government in April 2005.

probable maximum flood has the same meaning as in the Floodplain Development Manual.

ITEM 8 – Land reserved for acquisition

Is there an environmental planning instrument, or proposed environmental planning instrument referred to in clause 1 which makes provision in relation to the acquisition of the land by a public authority, as referred to in section 3.15 of the Environmental Planning and Assessment Act 1979?

No

ITEM 9 – Contributions plans

The name of each contributions plan applying to the land is:-

Cumberland Local Infrastructure Contributions Plan 2020

ITEM 9A - Biodiversity certified land

Is the land biodiversity certified land under Part 8 of the Biodiversity Conservation Act 2016 (including land certified under Part 7AA of the Threatened Species Conservation Act 1995)?

No

ITEM 10 – Biodiversity stewardship sites

Has Council been notified by the Chief Executive of the Office of Environment and Heritage that the land is a biodiversity stewardship site under a biodiversity stewardship agreement under Part 5 of the Biodiversity Conservation Act 2016 (including biobanking agreements under Part 7A of the Threatened Species Conservation Act 1995)?

No

ITEM 10A – Native vegetation clearing set asides

Under section 60ZC of the Local Land Service Act 2013, has Council been notified by Local Land Services (or is it registered in the public register under that section) that the land contains a set aside area?

No

ITEM 11 – Bush fire prone land

- | | | |
|-----|--|-----|
| (a) | <i>All of the land is bush fire prone land.</i> | No |
| (b) | <i>Some of the land is bush fire prone land.</i> | No |
| (c) | <i>None of the land is bush fire prone land.</i> | Yes |

ITEM 12 – Property vegetation plans

Has Council been notified (by the person or body that approved the plan) of the existence of a property vegetation plan approved under Part 4 of the Native Vegetation Act 2003 (and that continues in force) applying to the land?

No

ITEM 13 – Orders under Trees (Disputes Between Neighbours) Act 2006

Has Council been notified that 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

ITEM 14 – Directions under Part 3A

Is there a direction by the Minister in force under section 75P (2) (c1) of the Environmental Planning and Assessment Act 1979 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

ITEM 15 – Site compatibility certificates and conditions for seniors housing

- (a) Has a current site compatibility certificate (seniors housing), of which the Council is aware, been issued under State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 in respect of proposed development on the land?
- No
- (b) Have any terms of a kind referred to in clause 18(2) of State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 been imposed as a condition of consent to a development application granted after 11 October 2007 in respect of the land?
- No

ITEM 16 – Site compatibility certificates for infrastructure, schools or TAFE establishments

Has a valid site compatibility certificate (infrastructure) or a site compatibility certificate (schools or TAFE establishments), of which the Council is aware, been issued?

No

ITEM 17 – Site compatibility certificates and conditions for affordable rental housing

1. *Has a current site compatibility certificate (affordable rental housing), of which the Council is aware, been issued in respect of proposed development on the land?*

No

2. *Have any terms of a kind referred to in clause 17(1) or 38(1) of State Environmental Planning Policy (Affordable Rental Housing) 2009 been imposed as a condition of consent to a development application in respect of the land?*

No

ITEM 18 – Paper subdivision information

Has a development plan been adopted that applies to the land or that is proposed to be subject to a consent ballot?

No

ITEM 19 – Site verification certificates

Has Council been made aware of a current site verification certificate that has been issued in respect of the land?

No

ITEM 20 – Loose – fill asbestos insulation

Has Council been notified that 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

ITEM 21 – Affected building notices and building product rectification orders

1. *Is any affected building notice in force in respect of the land?*

No

2. *Is any building product rectification order in force in respect of the land that has not been fully complied with?*

No

3. Has a notice of intention to make a building product rectification order been given in respect of that land that is outstanding?

No

ITEM 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.

The land is not affected.

NOTE 1 – Matters arising under the Contaminated Land Management Act 1997

Section 59(2) of the Contaminated Land Management Act 1997 prescribes the following additional matters to be specified in planning certificates:-

- (a) *At the date of this certificate, is the land (or part of the land) to which this certificate relates significantly contaminated land?*
No
- (b) *At the date of this certificate, is the land to which this certificate relates subject to a management order?*
No
- (c) *At the date of this certificate, is the land to which this certificate relates the subject of an approved voluntary management proposal?*
No
- (d) *At the date of this certificate, is the land to which this certificate relates subject to an ongoing maintenance order?*
No
- (e) *At the date of this certificate, is the land to which this certificate relates the subject of a site audit statement and a copy of such a statement has been provided to the Council?*
No

GENERAL INFORMATION

The absence of any reference to a matter affecting the land shall not imply that the land is not affected by that matter not referred to in this certificate.

Information provided under section 10.7(2) is in accordance with the matters prescribed under schedule 4 of the Environmental Planning and Assessment Regulation 2000 and is provided only to the extent that the Council has been notified by the Department of Public Works or Department of Planning.

When advice in accordance with section 10.7(5) is requested the Council is under no obligation to furnish any advice. If advice is provided Council draws your attention to section 10.7(6) and schedule 6 of the *Environmental Planning and Assessment Act 1979* which have the effect that Council shall not incur any liability in respect of advice provided in good faith pursuant to section 10.7(5), including the furnishing of advice in respect of contaminated land.

Any enquiries regarding State and Regional Environmental Planning Policies should be directed to the Department of Planning at <http://www.planning.nsw.gov.au>

Please contact Council's Strategic Planning section for further information about this Planning Certificate.

Peter J Fitzgerald
GENERAL MANAGER



APPLICANT: Lotsearch Pty Ltd
Level 3
68 Alfred Street
MILSONS POINT NSW 2061

PLANNING CERTIFICATE

Issued under section 10.7(2) Environmental Planning and Assessment Act 1979

Property: 21 Hassall Street WESTMEAD NSW 2145
Title: Lot 26 Sec A DP 4036
Land No: 95619
Certificate No: PC2021/5672
Certificate Date: 18/11/2021
Applicant's Ref: LS026281

SECTION 10.7(2)

In accordance with the requirements of section 10.7(2) of the Environmental Planning and Assessment Act (1979) ("the Act"), the following prescribed matters relate to the land at the date of this certificate.

ITEM 1 - Names of relevant planning instruments and DCPs

1. ***The following environmental planning instruments apply to the carrying out of development on the land:***

Cumberland Local Environmental Plan 2021

State Environmental Planning Policy No. 19 – Bushland in Urban Areas
State Environmental Planning Policy No. 30 – Intensive Agriculture
State Environmental Planning Policy No. 33 – Hazardous and Offensive Development
State Environmental Planning Policy No. 50 – Canal Estates
State Environmental Planning Policy No. 55 – Remediation of Land
State Environmental Planning Policy No. 62 – Sustainable Aquaculture
State Environmental Planning Policy No. 64 – Advertising and Signage
State Environmental Planning Policy No. 65 – Design Quality of Residential Flat Development
State Environmental Planning Policy No. 70 – Affordable Housing (Revised Schemes)
State Environmental Planning Policy – SEPP (Housing for Seniors or People with a Disability) 2004
State Environmental Planning Policy – Building Sustainability Index: BASIX 2004
State Environmental Planning Policy – (Mining, Petroleum Production and Extractive Industries) 2007
State Environmental Planning Policy – (Infrastructure) 2007
State Environmental Planning Policy – (Temporary Structures) 2007
State Environmental Planning Policy – (Exempt and Complying Development Codes) 2008
State Environmental Planning Policy – (Repeal of Concurrence and Referral Provisions) 2008
State Environmental Planning Policy – (Affordable Rental Housing) 2009
State Environmental Planning Policy – (Vegetation in Non-Rural Areas) 2017
State Environmental Planning Policy – (Educational Establishments and Child Care Facilities) 2017
State Environmental Planning Policy – (Primary Production and Rural Development) 2019
State Environmental Planning Policy – (State and Regional Development) 2011
State Environmental Planning Policy – (Concurrences) 2018
State Environmental Planning Policy No. 21 – Caravan Parks

Sydney Regional Environmental Plan No. 9 – Extractive Industry (No. 2 – 1995)
Sydney Regional Environmental Plan (Sydney Harbour Catchment) 2005

2. ***The following proposed environmental planning instruments apply to the carrying out of development on the land and are or have been the subject of community consultation or on public exhibition under the Environmental Planning and Assessment Act 1979:***

No proposed environmental planning instruments apply

3. ***The following development control plans apply to the carrying out of development on the land:***

Cumberland Development Control Plan 2021

ITEM 2 - Zoning and land use under relevant LEPs

1. (a) Zoning details in the instruments identified in ITEM 1(1) above

Zone R4 High Density Residential

1. Objectives of zone

- To provide for the housing needs of the community within a high density residential environment.
- To provide a variety of housing types within a high density residential environment.
- To enable other land uses that provide facilities or services to meet the day to day needs of residents.
- To ensure that non-residential land uses are located in a setting that minimises impacts on the amenity of a high density residential environment.
- To encourage residential development that maintains the amenity of the surrounding area.

2. Permitted without consent

Home occupations

3. Permitted with consent

Attached dwellings; Bed and breakfast accommodation; Boarding houses; Building identification signs; Business identification signs; Centre-based child care facilities; Community facilities; Home industries; Hostels; Kiosks; Multi dwelling housing; Neighbourhood shops; Oyster aquaculture; Places of public worship; Residential flat buildings; Respite day care centres; Roads; Seniors housing; Shop top housing; Water recycling facilities; Any other development not specified in item 2 or 4

4. Prohibited

Agriculture; Air transport facilities; Airstrips; Amusement centres; Animal boarding or training establishments; Boat building and repair facilities; Boat sheds; Camping grounds; Car parks; Caravan parks; Cemeteries; Charter and tourism boating facilities; Commercial premises; Correctional centres; Crematoria; Depots; Dwelling houses; Eco-tourist facilities; Electricity generating works; Entertainment facilities; Environmental facilities; Exhibition villages; Extractive industries; Farm buildings; Forestry; Freight transport facilities; Function centres; Heavy industrial storage establishments; Helipads; Highway service centres; Home occupations (sex services); Industrial retail outlets; Industrial training facilities; Industries; Information and education facilities; Marinas; Mooring pens; Moorings; Mortuaries; Open cut mining; Passenger transport facilities; Pond-based aquaculture; Port facilities; Recreation facilities (major); Registered clubs; Research stations; Residential accommodation; Restricted premises; Rural industries; Service stations; Sewerage systems; Sex services premises; Signage; Storage premises; Tank-based aquaculture; Tourist and visitor accommodation; Transport depots; Truck depots; Vehicle body repair workshops; Vehicle repair stations; Veterinary hospitals; Warehouse or distribution centres; Waste or resource management facilities; Water recreation structures; Water supply systems; Wharf or boating facilities; Wholesale supplies

Additional permitted uses

No additional uses apply

(b) Are there development standards applying to the land, which fix minimum land dimensions for the erection of a dwelling house on the land?

No fixed minimum land dimensions apply to this land

(c) Does the land include or comprise critical habitat?

The land does not include or comprise critical habitat

(d) Is the land within a heritage conservation area?

The land is not within a heritage conservation area

(e) Is there a heritage item situated on the land?

There are no heritage items situated on the land

2. (a) Zoning details in the instruments identified in ITEM 1(2) above

No draft zoning applies to the land

Additional permitted uses

No draft additional uses apply

(b) Are there development standards applying to the land, which fix minimum land dimensions for the erection of a dwelling house on the land?

No fixed minimum land dimensions apply to the land under a draft environmental planning instrument

(c) Does the land include or comprise critical habitat?

The land does not include or comprise critical habitat under a draft environmental planning instrument

(d) Is the land within a draft heritage conservation area?

The land is not within a draft heritage conservation area

(e) Is there a draft heritage item situated on the land?

There are no draft heritage items situated on the land

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

Is the land identified within any zone under Part 3 of State Environmental Planning Policy (Sydney Region Growth Centres) 2006, a Precinct Plan, or a Proposed Precinct Plan that is or has been the subject of community consultation or on public exhibition under the Act?

No

ITEM 3 – Complying Development Exclusions

Is the land, land on which complying development may be carried out under 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?

Complying development can be carried out subject to the land not being affected by flooding referred to in ITEM 7A(1).

Housing Code

Yes, under the Housing Code complying development may be carried out on the land.

Low Rise Housing Diversity Code

Yes, under the Low Rise Housing Diversity Code complying development may be carried out on the land.

Rural Housing Code

Yes, under the Rural Housing Code complying development may be carried out on the land.

Housing Alterations Code

Yes, under the Housing Alterations Code complying development may be carried out on the land.

General Development Code

Yes, under the General Development Code complying development may be carried out on the land.

Commercial and Industrial Alterations Code

Yes, under the General Commercial and Industrial Code complying development may be carried out on the land.

Commercial and Industrial (New Buildings and Additions) Code

Yes, under the General Commercial and Industrial (New Buildings and Additions) Code complying development may be carried out on the land.

Container Recycling Facilities Code

Yes, under the Container Recycling Facilities Code complying development may be carried out on the land.

Subdivisions Code

Yes, under the Subdivisions Code complying development may be carried out on the land.

Demolition Code

Yes, under the Demolition Code complying development may be carried out on the land.

Fire Safety Code

Yes, under the Fire Safety Code complying development may be carried out on the land.

ITEM 4 – (Repealed)

ITEM 4A – (Repealed)

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

Has the owner (or any previous owner) of the land 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

ITEM 5 – Mine subsidence

Is the land proclaimed to be in a mine subsidence district within the meaning of the Coal Mine Subsidence Compensation Act 2017?

No

ITEM 6 – Road widening and road realignment

Is the land affected by any road widening or road realignment under:

- (a) *Division 2 of Part 3 of the Roads Act 1993; or*
- (b) *Any environmental planning instrument; or*
- (c) *Any resolution of the Council?*

No

ITEM 7 – Council and other public authority policies on hazard risk restrictions

(a) Whether or not the land is affected by a policy adopted by the Council that restricts the development of the land because of the likelihood of:-

- | | | |
|-------|---------------------|----|
| (i) | land slip | No |
| (ii) | bushfire | No |
| (iii) | tidal inundation | No |
| (iv) | subsidence | No |
| (v) | acid sulphate soils | No |
| (vi) | land contamination | No |
| (vii) | Other Risk | No |

(b) Whether or not the land is affected by a policy adopted by any other public authority and notified to the Council for the express purpose of its adoption by that authority being referred to in planning certificates issued by the Council that restricts the development of the land because of the likelihood of:-

- | | | |
|-------|---------------------|----|
| (i) | land slip | No |
| (ii) | bushfire | No |
| (iii) | tidal inundation | No |
| (iv) | subsidence | No |
| (v) | acid sulphate soils | No |
| (vi) | land contamination | No |
| (vii) | Other Risk | No |

ITEM 7A – Flood related development controls information

1. *Is the land or part of the land within the flood planning area and subject to flood - related development controls.*

No

2. *Is the land or part of the land between the flood planning area and the probable maximum flood (PMF) and subject to flood-related development controls.*

Yes

3. *In this clause -*

flood planning area has the same meaning as in the Floodplain Development Manual.

Floodplain Development Manual means the Floodplain Development Manual (ISBN 0 7347 5476 0) published by the NSW Government in April 2005.

probable maximum flood has the same meaning as in the Floodplain Development Manual.

ITEM 8 – Land reserved for acquisition

Is there an environmental planning instrument, or proposed environmental planning instrument referred to in clause 1 which makes provision in relation to the acquisition of the land by a public authority, as referred to in section 3.15 of the Environmental Planning and Assessment Act 1979?

No

ITEM 9 – Contributions plans

The name of each contributions plan applying to the land is:-

Cumberland Local Infrastructure Contributions Plan 2020

ITEM 9A - Biodiversity certified land

Is the land biodiversity certified land under Part 8 of the Biodiversity Conservation Act 2016 (including land certified under Part 7AA of the Threatened Species Conservation Act 1995)?

No

ITEM 10 – Biodiversity stewardship sites

Has Council been notified by the Chief Executive of the Office of Environment and Heritage that the land is a biodiversity stewardship site under a biodiversity stewardship agreement under Part 5 of the Biodiversity Conservation Act 2016 (including biobanking agreements under Part 7A of the Threatened Species Conservation Act 1995)?

No

ITEM 10A – Native vegetation clearing set asides

Under section 60ZC of the Local Land Service Act 2013, has Council been notified by Local Land Services (or is it registered in the public register under that section) that the land contains a set aside area?

No

ITEM 11 – Bush fire prone land

- | | | |
|-----|--|-----|
| (a) | <i>All of the land is bush fire prone land.</i> | No |
| (b) | <i>Some of the land is bush fire prone land.</i> | No |
| (c) | <i>None of the land is bush fire prone land.</i> | Yes |

ITEM 12 – Property vegetation plans

Has Council been notified (by the person or body that approved the plan) of the existence of a property vegetation plan approved under Part 4 of the Native Vegetation Act 2003 (and that continues in force) applying to the land?

No

ITEM 13 – Orders under Trees (Disputes Between Neighbours) Act 2006

Has Council been notified that 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

ITEM 14 – Directions under Part 3A

Is there a direction by the Minister in force under section 75P (2) (c1) of the Environmental Planning and Assessment Act 1979 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

ITEM 15 – Site compatibility certificates and conditions for seniors housing

- (a) Has a current site compatibility certificate (seniors housing), of which the Council is aware, been issued under State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 in respect of proposed development on the land?

No

- (b) Have any terms of a kind referred to in clause 18(2) of State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 been imposed as a condition of consent to a development application granted after 11 October 2007 in respect of the land?

No

ITEM 16 – Site compatibility certificates for infrastructure, schools or TAFE establishments

Has a valid site compatibility certificate (infrastructure) or a site compatibility certificate (schools or TAFE establishments), of which the Council is aware, been issued?

No

ITEM 17 – Site compatibility certificates and conditions for affordable rental housing

1. *Has a current site compatibility certificate (affordable rental housing), of which the Council is aware, been issued in respect of proposed development on the land?*

No

2. *Have any terms of a kind referred to in clause 17(1) or 38(1) of State Environmental Planning Policy (Affordable Rental Housing) 2009 been imposed as a condition of consent to a development application in respect of the land?*

No

ITEM 18 – Paper subdivision information

Has a development plan been adopted that applies to the land or that is proposed to be subject to a consent ballot?

No

ITEM 19 – Site verification certificates

Has Council been made aware of a current site verification certificate that has been issued in respect of the land?

No

ITEM 20 – Loose – fill asbestos insulation

Has Council been notified that 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

ITEM 21 – Affected building notices and building product rectification orders

1. *Is any affected building notice in force in respect of the land?*

No

2. *Is any building product rectification order in force in respect of the land that has not been fully complied with?*

No

3. Has a notice of intention to make a building product rectification order been given in respect of that land that is outstanding?

No

ITEM 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.

The land is not affected.

NOTE 1 – Matters arising under the Contaminated Land Management Act 1997

Section 59(2) of the Contaminated Land Management Act 1997 prescribes the following additional matters to be specified in planning certificates:-

- (a) *At the date of this certificate, is the land (or part of the land) to which this certificate relates significantly contaminated land?*
No
- (b) *At the date of this certificate, is the land to which this certificate relates subject to a management order?*
No
- (c) *At the date of this certificate, is the land to which this certificate relates the subject of an approved voluntary management proposal?*
No
- (d) *At the date of this certificate, is the land to which this certificate relates subject to an ongoing maintenance order?*
No
- (e) *At the date of this certificate, is the land to which this certificate relates the subject of a site audit statement and a copy of such a statement has been provided to the Council?*
No

GENERAL INFORMATION

The absence of any reference to a matter affecting the land shall not imply that the land is not affected by that matter not referred to in this certificate.

Information provided under section 10.7(2) is in accordance with the matters prescribed under schedule 4 of the Environmental Planning and Assessment Regulation 2000 and is provided only to the extent that the Council has been notified by the Department of Public Works or Department of Planning.

When advice in accordance with section 10.7(5) is requested the Council is under no obligation to furnish any advice. If advice is provided Council draws your attention to section 10.7(6) and schedule 6 of the *Environmental Planning and Assessment Act 1979* which have the effect that Council shall not incur any liability in respect of advice provided in good faith pursuant to section 10.7(5), including the furnishing of advice in respect of contaminated land.

Any enquiries regarding State and Regional Environmental Planning Policies should be directed to the Department of Planning at <http://www.planning.nsw.gov.au>

Please contact Council's Strategic Planning section for further information about this Planning Certificate.

Peter J Fitzgerald
GENERAL MANAGER



APPLICANT: Lotsearch Pty Ltd
Level 3
68 Alfred Street
MILSONS POINT NSW 2061

PLANNING CERTIFICATE

Issued under section 10.7(2) Environmental Planning and Assessment Act 1979

Property: 21 Hassall Street WESTMEAD NSW 2145
Title: Lot 27 Sec A DP 4036
Land No: 93852
Certificate No: PC2021/5671
Certificate Date: 18/11/2021
Applicant's Ref: LS026281

SECTION 10.7(2)

In accordance with the requirements of section 10.7(2) of the Environmental Planning and Assessment Act (1979) ("the Act"), the following prescribed matters relate to the land at the date of this certificate.

ITEM 1 - Names of relevant planning instruments and DCPs

1. ***The following environmental planning instruments apply to the carrying out of development on the land:***

Cumberland Local Environmental Plan 2021

State Environmental Planning Policy No. 19 – Bushland in Urban Areas
State Environmental Planning Policy No. 30 – Intensive Agriculture
State Environmental Planning Policy No. 33 – Hazardous and Offensive Development
State Environmental Planning Policy No. 50 – Canal Estates
State Environmental Planning Policy No. 55 – Remediation of Land
State Environmental Planning Policy No. 62 – Sustainable Aquaculture
State Environmental Planning Policy No. 64 – Advertising and Signage
State Environmental Planning Policy No. 65 – Design Quality of Residential Flat Development
State Environmental Planning Policy No. 70 – Affordable Housing (Revised Schemes)
State Environmental Planning Policy – SEPP (Housing for Seniors or People with a Disability) 2004
State Environmental Planning Policy – Building Sustainability Index: BASIX 2004
State Environmental Planning Policy – (Mining, Petroleum Production and Extractive Industries) 2007
State Environmental Planning Policy – (Infrastructure) 2007
State Environmental Planning Policy – (Temporary Structures) 2007
State Environmental Planning Policy – (Exempt and Complying Development Codes) 2008
State Environmental Planning Policy – (Repeal of Concurrence and Referral Provisions) 2008
State Environmental Planning Policy – (Affordable Rental Housing) 2009
State Environmental Planning Policy – (Vegetation in Non-Rural Areas) 2017
State Environmental Planning Policy – (Educational Establishments and Child Care Facilities) 2017
State Environmental Planning Policy – (Primary Production and Rural Development) 2019
State Environmental Planning Policy – (State and Regional Development) 2011
State Environmental Planning Policy – (Concurrences) 2018
State Environmental Planning Policy No. 21 – Caravan Parks

Sydney Regional Environmental Plan No. 9 – Extractive Industry (No. 2 – 1995)
Sydney Regional Environmental Plan (Sydney Harbour Catchment) 2005

2. ***The following proposed environmental planning instruments apply to the carrying out of development on the land and are or have been the subject of community consultation or on public exhibition under the Environmental Planning and Assessment Act 1979:***

No proposed environmental planning instruments apply

3. ***The following development control plans apply to the carrying out of development on the land:***

Cumberland Development Control Plan 2021

ITEM 2 - Zoning and land use under relevant LEPs

1. (a) Zoning details in the instruments identified in ITEM 1(1) above

Zone R4 High Density Residential

1. Objectives of zone

- To provide for the housing needs of the community within a high density residential environment.
- To provide a variety of housing types within a high density residential environment.
- To enable other land uses that provide facilities or services to meet the day to day needs of residents.
- To ensure that non-residential land uses are located in a setting that minimises impacts on the amenity of a high density residential environment.
- To encourage residential development that maintains the amenity of the surrounding area.

2. Permitted without consent

Home occupations

3. Permitted with consent

Attached dwellings; Bed and breakfast accommodation; Boarding houses; Building identification signs; Business identification signs; Centre-based child care facilities; Community facilities; Home industries; Hostels; Kiosks; Multi dwelling housing; Neighbourhood shops; Oyster aquaculture; Places of public worship; Residential flat buildings; Respite day care centres; Roads; Seniors housing; Shop top housing; Water recycling facilities; Any other development not specified in item 2 or 4

4. Prohibited

Agriculture; Air transport facilities; Airstrips; Amusement centres; Animal boarding or training establishments; Boat building and repair facilities; Boat sheds; Camping grounds; Car parks; Caravan parks; Cemeteries; Charter and tourism boating facilities; Commercial premises; Correctional centres; Crematoria; Depots; Dwelling houses; Eco-tourist facilities; Electricity generating works; Entertainment facilities; Environmental facilities; Exhibition villages; Extractive industries; Farm buildings; Forestry; Freight transport facilities; Function centres; Heavy industrial storage establishments; Helipads; Highway service centres; Home occupations (sex services); Industrial retail outlets; Industrial training facilities; Industries; Information and education facilities; Marinas; Mooring pens; Moorings; Mortuaries; Open cut mining; Passenger transport facilities; Pond-based aquaculture; Port facilities; Recreation facilities (major); Registered clubs; Research stations; Residential accommodation; Restricted premises; Rural industries; Service stations; Sewerage systems; Sex services premises; Signage; Storage premises; Tank-based aquaculture; Tourist and visitor accommodation; Transport depots; Truck depots; Vehicle body repair workshops; Vehicle repair stations; Veterinary hospitals; Warehouse or distribution centres; Waste or resource management facilities; Water recreation structures; Water supply systems; Wharf or boating facilities; Wholesale supplies

Additional permitted uses

No additional uses apply

(b) Are there development standards applying to the land, which fix minimum land dimensions for the erection of a dwelling house on the land?

No fixed minimum land dimensions apply to this land

(c) Does the land include or comprise critical habitat?

The land does not include or comprise critical habitat

(d) Is the land within a heritage conservation area?

The land is not within a heritage conservation area

(e) Is there a heritage item situated on the land?

There are no heritage items situated on the land

2. (a) Zoning details in the instruments identified in ITEM 1(2) above

No draft zoning applies to the land

Additional permitted uses

No draft additional uses apply

(b) Are there development standards applying to the land, which fix minimum land dimensions for the erection of a dwelling house on the land?

No fixed minimum land dimensions apply to the land under a draft environmental planning instrument

(c) Does the land include or comprise critical habitat?

The land does not include or comprise critical habitat under a draft environmental planning instrument

(d) Is the land within a draft heritage conservation area?

The land is not within a draft heritage conservation area

(e) Is there a draft heritage item situated on the land?

There are no draft heritage items situated on the land

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

Is the land identified within any zone under Part 3 of State Environmental Planning Policy (Sydney Region Growth Centres) 2006, a Precinct Plan, or a Proposed Precinct Plan that is or has been the subject of community consultation or on public exhibition under the Act?

No

ITEM 3 – Complying Development Exclusions

Is the land, land on which complying development may be carried out under 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?

Complying development can be carried out subject to the land not being affected by flooding referred to in ITEM 7A(1).

Housing Code

Yes, under the Housing Code complying development may be carried out on the land.

Low Rise Housing Diversity Code

Yes, under the Low Rise Housing Diversity Code complying development may be carried out on the land.

Rural Housing Code

Yes, under the Rural Housing Code complying development may be carried out on the land.

Housing Alterations Code

Yes, under the Housing Alterations Code complying development may be carried out on the land.

General Development Code

Yes, under the General Development Code complying development may be carried out on the land.

Commercial and Industrial Alterations Code

Yes, under the General Commercial and Industrial Code complying development may be carried out on the land.

Commercial and Industrial (New Buildings and Additions) Code

Yes, under the General Commercial and Industrial (New Buildings and Additions) Code complying development may be carried out on the land.

Container Recycling Facilities Code

Yes, under the Container Recycling Facilities Code complying development may be carried out on the land.

Subdivisions Code

Yes, under the Subdivisions Code complying development may be carried out on the land.

Demolition Code

Yes, under the Demolition Code complying development may be carried out on the land.

Fire Safety Code

Yes, under the Fire Safety Code complying development may be carried out on the land.

ITEM 4 – (Repealed)

ITEM 4A – (Repealed)

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

Has the owner (or any previous owner) of the land 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

ITEM 5 – Mine subsidence

Is the land proclaimed to be in a mine subsidence district within the meaning of the Coal Mine Subsidence Compensation Act 2017?

No

ITEM 6 – Road widening and road realignment

Is the land affected by any road widening or road realignment under:

- (a) *Division 2 of Part 3 of the Roads Act 1993; or*
- (b) *Any environmental planning instrument; or*
- (c) *Any resolution of the Council?*

No

ITEM 7 – Council and other public authority policies on hazard risk restrictions

(a) Whether or not the land is affected by a policy adopted by the Council that restricts the development of the land because of the likelihood of:-

- | | | |
|-------|---------------------|----|
| (i) | land slip | No |
| (ii) | bushfire | No |
| (iii) | tidal inundation | No |
| (iv) | subsidence | No |
| (v) | acid sulphate soils | No |
| (vi) | land contamination | No |
| (vii) | Other Risk | No |

(b) Whether or not the land is affected by a policy adopted by any other public authority and notified to the Council for the express purpose of its adoption by that authority being referred to in planning certificates issued by the Council that restricts the development of the land because of the likelihood of:-

- | | | |
|-------|---------------------|----|
| (i) | land slip | No |
| (ii) | bushfire | No |
| (iii) | tidal inundation | No |
| (iv) | subsidence | No |
| (v) | acid sulphate soils | No |
| (vi) | land contamination | No |
| (vii) | Other Risk | No |

ITEM 7A – Flood related development controls information

1. *Is the land or part of the land within the flood planning area and subject to flood - related development controls.*

No

2. *Is the land or part of the land between the flood planning area and the probable maximum flood (PMF) and subject to flood-related development controls.*

No

3. *In this clause -*

flood planning area has the same meaning as in the Floodplain Development Manual.

Floodplain Development Manual means the Floodplain Development Manual (ISBN 0 7347 5476 0) published by the NSW Government in April 2005.

probable maximum flood has the same meaning as in the Floodplain Development Manual.

ITEM 8 – Land reserved for acquisition

Is there an environmental planning instrument, or proposed environmental planning instrument referred to in clause 1 which makes provision in relation to the acquisition of the land by a public authority, as referred to in section 3.15 of the Environmental Planning and Assessment Act 1979?

No

ITEM 9 – Contributions plans

The name of each contributions plan applying to the land is:-

Cumberland Local Infrastructure Contributions Plan 2020

ITEM 9A - Biodiversity certified land

Is the land biodiversity certified land under Part 8 of the Biodiversity Conservation Act 2016 (including land certified under Part 7AA of the Threatened Species Conservation Act 1995)?

No

ITEM 10 – Biodiversity stewardship sites

Has Council been notified by the Chief Executive of the Office of Environment and Heritage that the land is a biodiversity stewardship site under a biodiversity stewardship agreement under Part 5 of the Biodiversity Conservation Act 2016 (including biobanking agreements under Part 7A of the Threatened Species Conservation Act 1995)?

No

ITEM 10A – Native vegetation clearing set asides

Under section 60ZC of the Local Land Service Act 2013, has Council been notified by Local Land Services (or is it registered in the public register under that section) that the land contains a set aside area?

No

ITEM 11 – Bush fire prone land

- | | | |
|-----|--|-----|
| (a) | <i>All of the land is bush fire prone land.</i> | No |
| (b) | <i>Some of the land is bush fire prone land.</i> | No |
| (c) | <i>None of the land is bush fire prone land.</i> | Yes |

ITEM 12 – Property vegetation plans

Has Council been notified (by the person or body that approved the plan) of the existence of a property vegetation plan approved under Part 4 of the Native Vegetation Act 2003 (and that continues in force) applying to the land?

No

ITEM 13 – Orders under Trees (Disputes Between Neighbours) Act 2006

Has Council been notified that 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

ITEM 14 – Directions under Part 3A

Is there a direction by the Minister in force under section 75P (2) (c1) of the Environmental Planning and Assessment Act 1979 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

ITEM 15 – Site compatibility certificates and conditions for seniors housing

- (a) Has a current site compatibility certificate (seniors housing), of which the Council is aware, been issued under State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 in respect of proposed development on the land?
- No
- (b) Have any terms of a kind referred to in clause 18(2) of State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 been imposed as a condition of consent to a development application granted after 11 October 2007 in respect of the land?
- No

ITEM 16 – Site compatibility certificates for infrastructure, schools or TAFE establishments

Has a valid site compatibility certificate (infrastructure) or a site compatibility certificate (schools or TAFE establishments), of which the Council is aware, been issued?

No

ITEM 17 – Site compatibility certificates and conditions for affordable rental housing

1. *Has a current site compatibility certificate (affordable rental housing), of which the Council is aware, been issued in respect of proposed development on the land?*

No

2. *Have any terms of a kind referred to in clause 17(1) or 38(1) of State Environmental Planning Policy (Affordable Rental Housing) 2009 been imposed as a condition of consent to a development application in respect of the land?*

No

ITEM 18 – Paper subdivision information

Has a development plan been adopted that applies to the land or that is proposed to be subject to a consent ballot?

No

ITEM 19 – Site verification certificates

Has Council been made aware of a current site verification certificate that has been issued in respect of the land?

No

ITEM 20 – Loose – fill asbestos insulation

Has Council been notified that 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

ITEM 21 – Affected building notices and building product rectification orders

1. *Is any affected building notice in force in respect of the land?*

No

2. *Is any building product rectification order in force in respect of the land that has not been fully complied with?*

No

3. Has a notice of intention to make a building product rectification order been given in respect of that land that is outstanding?

No

ITEM 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.

The land is not affected.

NOTE 1 – Matters arising under the Contaminated Land Management Act 1997

Section 59(2) of the Contaminated Land Management Act 1997 prescribes the following additional matters to be specified in planning certificates:-

- (a) *At the date of this certificate, is the land (or part of the land) to which this certificate relates significantly contaminated land?*
No
- (b) *At the date of this certificate, is the land to which this certificate relates subject to a management order?*
No
- (c) *At the date of this certificate, is the land to which this certificate relates the subject of an approved voluntary management proposal?*
No
- (d) *At the date of this certificate, is the land to which this certificate relates subject to an ongoing maintenance order?*
No
- (e) *At the date of this certificate, is the land to which this certificate relates the subject of a site audit statement and a copy of such a statement has been provided to the Council?*
No

GENERAL INFORMATION

The absence of any reference to a matter affecting the land shall not imply that the land is not affected by that matter not referred to in this certificate.

Information provided under section 10.7(2) is in accordance with the matters prescribed under schedule 4 of the Environmental Planning and Assessment Regulation 2000 and is provided only to the extent that the Council has been notified by the Department of Public Works or Department of Planning.

When advice in accordance with section 10.7(5) is requested the Council is under no obligation to furnish any advice. If advice is provided Council draws your attention to section 10.7(6) and schedule 6 of the *Environmental Planning and Assessment Act 1979* which have the effect that Council shall not incur any liability in respect of advice provided in good faith pursuant to section 10.7(5), including the furnishing of advice in respect of contaminated land.

Any enquiries regarding State and Regional Environmental Planning Policies should be directed to the Department of Planning at <http://www.planning.nsw.gov.au>

Please contact Council's Strategic Planning section for further information about this Planning Certificate.

Peter J Fitzgerald
GENERAL MANAGER



APPLICANT: Lotsearch Pty Ltd
Level 3
68 Alfred Street
MILSONS POINT NSW 2061

PLANNING CERTIFICATE

Issued under section 10.7(2) Environmental Planning and Assessment Act 1979

Property: 3 Hassall Street WESTMEAD NSW 2145
Title: Lot 35 Sec A DP 4036
Land No: 95611
Certificate No: PC2021/5669
Certificate Date: 18/11/2021
Applicant's Ref: LS026281

SECTION 10.7(2)

In accordance with the requirements of section 10.7(2) of the Environmental Planning and Assessment Act (1979) ("the Act"), the following prescribed matters relate to the land at the date of this certificate.

ITEM 1 - Names of relevant planning instruments and DCPs

- 1. The following environmental planning instruments apply to the carrying out of development on the land:**

Cumberland Local Environmental Plan 2021

State Environmental Planning Policy No. 19 – Bushland in Urban Areas
State Environmental Planning Policy No. 30 – Intensive Agriculture
State Environmental Planning Policy No. 33 – Hazardous and Offensive Development
State Environmental Planning Policy No. 50 – Canal Estates
State Environmental Planning Policy No. 55 – Remediation of Land
State Environmental Planning Policy No. 62 – Sustainable Aquaculture
State Environmental Planning Policy No. 64 – Advertising and Signage
State Environmental Planning Policy No. 65 – Design Quality of Residential Flat Development
State Environmental Planning Policy No. 70 – Affordable Housing (Revised Schemes)
State Environmental Planning Policy – SEPP (Housing for Seniors or People with a Disability) 2004
State Environmental Planning Policy – Building Sustainability Index: BASIX 2004
State Environmental Planning Policy – (Mining, Petroleum Production and Extractive Industries) 2007
State Environmental Planning Policy – (Infrastructure) 2007
State Environmental Planning Policy – (Temporary Structures) 2007
State Environmental Planning Policy – (Exempt and Complying Development Codes) 2008
State Environmental Planning Policy – (Repeal of Concurrence and Referral Provisions) 2008
State Environmental Planning Policy – (Affordable Rental Housing) 2009
State Environmental Planning Policy – (Vegetation in Non-Rural Areas) 2017
State Environmental Planning Policy – (Educational Establishments and Child Care Facilities) 2017
State Environmental Planning Policy – (Primary Production and Rural Development) 2019
State Environmental Planning Policy – (State and Regional Development) 2011
State Environmental Planning Policy – (Concurrences) 2018
State Environmental Planning Policy No. 21 – Caravan Parks

Sydney Regional Environmental Plan No. 9 – Extractive Industry (No. 2 – 1995)
Sydney Regional Environmental Plan (Sydney Harbour Catchment) 2005

- 2. The following proposed environmental planning instruments apply to the carrying out of development on the land and are or have been the subject of community consultation or on public exhibition under the Environmental Planning and Assessment Act 1979:**

No proposed environmental planning instruments apply

- 3. The following development control plans apply to the carrying out of development on the land:**

Cumberland Development Control Plan 2021

ITEM 2 - Zoning and land use under relevant LEPs**1. (a) Zoning details in the instruments identified in ITEM 1(1) above****Zone R4 High Density Residential****1. Objectives of zone**

- To provide for the housing needs of the community within a high density residential environment.
- To provide a variety of housing types within a high density residential environment.
- To enable other land uses that provide facilities or services to meet the day to day needs of residents.
- To ensure that non-residential land uses are located in a setting that minimises impacts on the amenity of a high density residential environment.
- To encourage residential development that maintains the amenity of the surrounding area.

2. Permitted without consent

Home occupations

3. Permitted with consent

Attached dwellings; Bed and breakfast accommodation; Boarding houses; Building identification signs; Business identification signs; Centre-based child care facilities; Community facilities; Home industries; Hostels; Kiosks; Multi dwelling housing; Neighbourhood shops; Oyster aquaculture; Places of public worship; Residential flat buildings; Respite day care centres; Roads; Seniors housing; Shop top housing; Water recycling facilities; Any other development not specified in item 2 or 4

4. Prohibited

Agriculture; Air transport facilities; Airstrips; Amusement centres; Animal boarding or training establishments; Boat building and repair facilities; Boat sheds; Camping grounds; Car parks; Caravan parks; Cemeteries; Charter and tourism boating facilities; Commercial premises; Correctional centres; Crematoria; Depots; Dwelling houses; Eco-tourist facilities; Electricity generating works; Entertainment facilities; Environmental facilities; Exhibition villages; Extractive industries; Farm buildings; Forestry; Freight transport facilities; Function centres; Heavy industrial storage establishments; Helipads; Highway service centres; Home occupations (sex services); Industrial retail outlets; Industrial training facilities; Industries; Information and education facilities; Marinas; Mooring pens; Moorings; Mortuaries; Open cut mining; Passenger transport facilities; Pond-based aquaculture; Port facilities; Recreation facilities (major); Registered clubs; Research stations; Residential accommodation; Restricted premises; Rural industries; Service stations; Sewerage systems; Sex services premises; Signage; Storage premises; Tank-based aquaculture; Tourist and visitor accommodation; Transport depots; Truck depots; Vehicle body repair workshops; Vehicle repair stations; Veterinary hospitals; Warehouse or distribution centres; Waste or resource management facilities; Water recreation structures; Water supply systems; Wharf or boating facilities; Wholesale supplies

Additional permitted uses

No additional uses apply

(b) Are there development standards applying to the land, which fix minimum land dimensions for the erection of a dwelling house on the land?

No fixed minimum land dimensions apply to this land

(c) Does the land include or comprise critical habitat?

The land does not include or comprise critical habitat

(d) Is the land within a heritage conservation area?

The land is not within a heritage conservation area

(e) Is there a heritage item situated on the land?

There are no heritage items situated on the land

2. (a) Zoning details in the instruments identified in ITEM 1(2) above

No draft zoning applies to the land

Additional permitted uses

No draft additional uses apply

(b) Are there development standards applying to the land, which fix minimum land dimensions for the erection of a dwelling house on the land?

No fixed minimum land dimensions apply to the land under a draft environmental planning instrument

(c) Does the land include or comprise critical habitat?

The land does not include or comprise critical habitat under a draft environmental planning instrument

(d) Is the land within a draft heritage conservation area?

The land is not within a draft heritage conservation area

(e) Is there a draft heritage item situated on the land?

There are no draft heritage items situated on the land

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

Is the land identified within any zone under Part 3 of State Environmental Planning Policy (Sydney Region Growth Centres) 2006, a Precinct Plan, or a Proposed Precinct Plan that is or has been the subject of community consultation or on public exhibition under the Act?

No

ITEM 3 – Complying Development Exclusions

Is the land, land on which complying development may be carried out under 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?

Complying development can be carried out subject to the land not being affected by flooding referred to in ITEM 7A(1).

Housing Code

Yes, under the Housing Code complying development may be carried out on the land.

Low Rise Housing Diversity Code

Yes, under the Low Rise Housing Diversity Code complying development may be carried out on the land.

Rural Housing Code

Yes, under the Rural Housing Code complying development may be carried out on the land.

Housing Alterations Code

Yes, under the Housing Alterations Code complying development may be carried out on the land.

General Development Code

Yes, under the General Development Code complying development may be carried out on the land.

Commercial and Industrial Alterations Code

Yes, under the General Commercial and Industrial Code complying development may be carried out on the land.

Commercial and Industrial (New Buildings and Additions) Code

Yes, under the General Commercial and Industrial (New Buildings and Additions) Code complying development may be carried out on the land.

Container Recycling Facilities Code

Yes, under the Container Recycling Facilities Code complying development may be carried out on the land.

Subdivisions Code

Yes, under the Subdivisions Code complying development may be carried out on the land.

Demolition Code

Yes, under the Demolition Code complying development may be carried out on the land.

Fire Safety Code

Yes, under the Fire Safety Code complying development may be carried out on the land.

ITEM 4 – (Repealed)

ITEM 4A – (Repealed)

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

Has the owner (or any previous owner) of the land 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

ITEM 5 – Mine subsidence

Is the land proclaimed to be in a mine subsidence district within the meaning of the Coal Mine Subsidence Compensation Act 2017?

No

ITEM 6 – Road widening and road realignment

Is the land affected by any road widening or road realignment under:

- (a) *Division 2 of Part 3 of the Roads Act 1993; or*
- (b) *Any environmental planning instrument; or*
- (c) *Any resolution of the Council?*

No

ITEM 7 – Council and other public authority policies on hazard risk restrictions

(a) Whether or not the land is affected by a policy adopted by the Council that restricts the development of the land because of the likelihood of:-

- | | | |
|-------|---------------------|----|
| (i) | land slip | No |
| (ii) | bushfire | No |
| (iii) | tidal inundation | No |
| (iv) | subsidence | No |
| (v) | acid sulphate soils | No |
| (vi) | land contamination | No |
| (vii) | Other Risk | No |

(b) Whether or not the land is affected by a policy adopted by any other public authority and notified to the Council for the express purpose of its adoption by that authority being referred to in planning certificates issued by the Council that restricts the development of the land because of the likelihood of:-

- | | | |
|-------|---------------------|----|
| (i) | land slip | No |
| (ii) | bushfire | No |
| (iii) | tidal inundation | No |
| (iv) | subsidence | No |
| (v) | acid sulphate soils | No |
| (vi) | land contamination | No |
| (vii) | Other Risk | No |

ITEM 7A – Flood related development controls information

1. *Is the land or part of the land within the flood planning area and subject to flood - related development controls.*

No

2. *Is the land or part of the land between the flood planning area and the probable maximum flood (PMF) and subject to flood-related development controls.*

No

3. *In this clause -*

flood planning area has the same meaning as in the Floodplain Development Manual.

Floodplain Development Manual means the Floodplain Development Manual (ISBN 0 7347 5476 0) published by the NSW Government in April 2005.

probable maximum flood has the same meaning as in the Floodplain Development Manual.

ITEM 8 – Land reserved for acquisition

Is there an environmental planning instrument, or proposed environmental planning instrument referred to in clause 1 which makes provision in relation to the acquisition of the land by a public authority, as referred to in section 3.15 of the Environmental Planning and Assessment Act 1979?

No

ITEM 9 – Contributions plans

The name of each contributions plan applying to the land is:-

Cumberland Local Infrastructure Contributions Plan 2020

ITEM 9A - Biodiversity certified land

Is the land biodiversity certified land under Part 8 of the Biodiversity Conservation Act 2016 (including land certified under Part 7AA of the Threatened Species Conservation Act 1995)?

No

ITEM 10 – Biodiversity stewardship sites

Has Council been notified by the Chief Executive of the Office of Environment and Heritage that the land is a biodiversity stewardship site under a biodiversity stewardship agreement under Part 5 of the Biodiversity Conservation Act 2016 (including biobanking agreements under Part 7A of the Threatened Species Conservation Act 1995)?

No

ITEM 10A – Native vegetation clearing set asides

Under section 60ZC of the Local Land Service Act 2013, has Council been notified by Local Land Services (or is it registered in the public register under that section) that the land contains a set aside area?

No

ITEM 11 – Bush fire prone land

- | | | |
|-----|--|-----|
| (a) | <i>All of the land is bush fire prone land.</i> | No |
| (b) | <i>Some of the land is bush fire prone land.</i> | No |
| (c) | <i>None of the land is bush fire prone land.</i> | Yes |
-

ITEM 12 – Property vegetation plans

Has Council been notified (by the person or body that approved the plan) of the existence of a property vegetation plan approved under Part 4 of the Native Vegetation Act 2003 (and that continues in force) applying to the land?

No

ITEM 13 – Orders under Trees (Disputes Between Neighbours) Act 2006

Has Council been notified that 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

ITEM 14 – Directions under Part 3A

Is there a direction by the Minister in force under section 75P (2) (c1) of the Environmental Planning and Assessment Act 1979 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

ITEM 15 – Site compatibility certificates and conditions for seniors housing

- (a) **Has a current site compatibility certificate (seniors housing), of which the Council is aware, been issued under State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 in respect of proposed development on the land?**

No

- (b) **Have any terms of a kind referred to in clause 18(2) of State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 been imposed as a condition of consent to a development application granted after 11 October 2007 in respect of the land?**

No

ITEM 16 – Site compatibility certificates for infrastructure, schools or TAFE establishments

Has a valid site compatibility certificate (infrastructure) or a site compatibility certificate (schools or TAFE establishments), of which the Council is aware, been issued?

No

ITEM 17 – Site compatibility certificates and conditions for affordable rental housing

1. *Has a current site compatibility certificate (affordable rental housing), of which the Council is aware, been issued in respect of proposed development on the land?*

No

2. *Have any terms of a kind referred to in clause 17(1) or 38(1) of State Environmental Planning Policy (Affordable Rental Housing) 2009 been imposed as a condition of consent to a development application in respect of the land?*

No

ITEM 18 – Paper subdivision information

Has a development plan been adopted that applies to the land or that is proposed to be subject to a consent ballot?

No

ITEM 19 – Site verification certificates

Has Council been made aware of a current site verification certificate that has been issued in respect of the land?

No

ITEM 20 – Loose – fill asbestos insulation

Has Council been notified that 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

ITEM 21 – Affected building notices and building product rectification orders

1. *Is any affected building notice in force in respect of the land?*

No

2. *Is any building product rectification order in force in respect of the land that has not been fully complied with?*

No

3. Has a notice of intention to make a building product rectification order been given in respect of that land that is outstanding?

No

ITEM 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.

The land is not affected.

NOTE 1 – Matters arising under the Contaminated Land Management Act 1997

Section 59(2) of the Contaminated Land Management Act 1997 prescribes the following additional matters to be specified in planning certificates:-

- (a) *At the date of this certificate, is the land (or part of the land) to which this certificate relates significantly contaminated land?*
No
- (b) *At the date of this certificate, is the land to which this certificate relates subject to a management order?*
No
- (c) *At the date of this certificate, is the land to which this certificate relates the subject of an approved voluntary management proposal?*
No
- (d) *At the date of this certificate, is the land to which this certificate relates subject to an ongoing maintenance order?*
No
- (e) *At the date of this certificate, is the land to which this certificate relates the subject of a site audit statement and a copy of such a statement has been provided to the Council?*
No

GENERAL INFORMATION

The absence of any reference to a matter affecting the land shall not imply that the land is not affected by that matter not referred to in this certificate.

Information provided under section 10.7(2) is in accordance with the matters prescribed under schedule 4 of the Environmental Planning and Assessment Regulation 2000 and is provided only to the extent that the Council has been notified by the Department of Public Works or Department of Planning.

When advice in accordance with section 10.7(5) is requested the Council is under no obligation to furnish any advice. If advice is provided Council draws your attention to section 10.7(6) and schedule 6 of the *Environmental Planning and Assessment Act 1979* which have the effect that Council shall not incur any liability in respect of advice provided in good faith pursuant to section 10.7(5), including the furnishing of advice in respect of contaminated land.

Any enquiries regarding State and Regional Environmental Planning Policies should be directed to the Department of Planning at <http://www.planning.nsw.gov.au>

Please contact Council's Strategic Planning section for further information about this Planning Certificate.

Peter J Fitzgerald
GENERAL MANAGER



APPLICANT: Lotsearch Pty Ltd
Level 3
68 Alfred Street
MILSONS POINT NSW 2061

PLANNING CERTIFICATE

Issued under section 10.7(2) Environmental Planning and Assessment Act 1979

Property: 3 Hassall Street WESTMEAD NSW 2145
Title: Lot 36 Sec A DP 4036
Land No: 95612
Certificate No: PC2021/5668
Certificate Date: 18/11/2021
Applicant's Ref: LS026281

SECTION 10.7(2)

In accordance with the requirements of section 10.7(2) of the Environmental Planning and Assessment Act (1979) ("the Act"), the following prescribed matters relate to the land at the date of this certificate.

ITEM 1 - Names of relevant planning instruments and DCPs

- 1. The following environmental planning instruments apply to the carrying out of development on the land:**

Cumberland Local Environmental Plan 2021

State Environmental Planning Policy No. 19 – Bushland in Urban Areas
State Environmental Planning Policy No. 30 – Intensive Agriculture
State Environmental Planning Policy No. 33 – Hazardous and Offensive Development
State Environmental Planning Policy No. 50 – Canal Estates
State Environmental Planning Policy No. 55 – Remediation of Land
State Environmental Planning Policy No. 62 – Sustainable Aquaculture
State Environmental Planning Policy No. 64 – Advertising and Signage
State Environmental Planning Policy No. 65 – Design Quality of Residential Flat Development
State Environmental Planning Policy No. 70 – Affordable Housing (Revised Schemes)
State Environmental Planning Policy – SEPP (Housing for Seniors or People with a Disability) 2004
State Environmental Planning Policy – Building Sustainability Index: BASIX 2004
State Environmental Planning Policy – (Mining, Petroleum Production and Extractive Industries) 2007
State Environmental Planning Policy – (Infrastructure) 2007
State Environmental Planning Policy – (Temporary Structures) 2007
State Environmental Planning Policy – (Exempt and Complying Development Codes) 2008
State Environmental Planning Policy – (Repeal of Concurrence and Referral Provisions) 2008
State Environmental Planning Policy – (Affordable Rental Housing) 2009
State Environmental Planning Policy – (Vegetation in Non-Rural Areas) 2017
State Environmental Planning Policy – (Educational Establishments and Child Care Facilities) 2017
State Environmental Planning Policy – (Primary Production and Rural Development) 2019
State Environmental Planning Policy – (State and Regional Development) 2011
State Environmental Planning Policy – (Concurrences) 2018
State Environmental Planning Policy No. 21 – Caravan Parks

Sydney Regional Environmental Plan No. 9 – Extractive Industry (No. 2 – 1995)
Sydney Regional Environmental Plan (Sydney Harbour Catchment) 2005

- 2. The following proposed environmental planning instruments apply to the carrying out of development on the land and are or have been the subject of community consultation or on public exhibition under the Environmental Planning and Assessment Act 1979:**

No proposed environmental planning instruments apply

- 3. The following development control plans apply to the carrying out of development on the land:**

Cumberland Development Control Plan 2021

ITEM 2 - Zoning and land use under relevant LEPs**1. (a) Zoning details in the instruments identified in ITEM 1(1) above****Zone R4 High Density Residential****1. Objectives of zone**

- To provide for the housing needs of the community within a high density residential environment.
- To provide a variety of housing types within a high density residential environment.
- To enable other land uses that provide facilities or services to meet the day to day needs of residents.
- To ensure that non-residential land uses are located in a setting that minimises impacts on the amenity of a high density residential environment.
- To encourage residential development that maintains the amenity of the surrounding area.

2. Permitted without consent

Home occupations

3. Permitted with consent

Attached dwellings; Bed and breakfast accommodation; Boarding houses; Building identification signs; Business identification signs; Centre-based child care facilities; Community facilities; Home industries; Hostels; Kiosks; Multi dwelling housing; Neighbourhood shops; Oyster aquaculture; Places of public worship; Residential flat buildings; Respite day care centres; Roads; Seniors housing; Shop top housing; Water recycling facilities; Any other development not specified in item 2 or 4

4. Prohibited

Agriculture; Air transport facilities; Airstrips; Amusement centres; Animal boarding or training establishments; Boat building and repair facilities; Boat sheds; Camping grounds; Car parks; Caravan parks; Cemeteries; Charter and tourism boating facilities; Commercial premises; Correctional centres; Crematoria; Depots; Dwelling houses; Eco-tourist facilities; Electricity generating works; Entertainment facilities; Environmental facilities; Exhibition villages; Extractive industries; Farm buildings; Forestry; Freight transport facilities; Function centres; Heavy industrial storage establishments; Helipads; Highway service centres; Home occupations (sex services); Industrial retail outlets; Industrial training facilities; Industries; Information and education facilities; Marinas; Mooring pens; Moorings; Mortuaries; Open cut mining; Passenger transport facilities; Pond-based aquaculture; Port facilities; Recreation facilities (major); Registered clubs; Research stations; Residential accommodation; Restricted premises; Rural industries; Service stations; Sewerage systems; Sex services premises; Signage; Storage premises; Tank-based aquaculture; Tourist and visitor accommodation; Transport depots; Truck depots; Vehicle body repair workshops; Vehicle repair stations; Veterinary hospitals; Warehouse or distribution centres; Waste or resource management facilities; Water recreation structures; Water supply systems; Wharf or boating facilities; Wholesale supplies

Additional permitted uses

No additional uses apply

(b) Are there development standards applying to the land, which fix minimum land dimensions for the erection of a dwelling house on the land?

No fixed minimum land dimensions apply to this land

(c) Does the land include or comprise critical habitat?

The land does not include or comprise critical habitat

(d) Is the land within a heritage conservation area?

The land is not within a heritage conservation area

(e) Is there a heritage item situated on the land?

There are no heritage items situated on the land

2. (a) Zoning details in the instruments identified in ITEM 1(2) above

No draft zoning applies to the land

Additional permitted uses

No draft additional uses apply

(b) Are there development standards applying to the land, which fix minimum land dimensions for the erection of a dwelling house on the land?

No fixed minimum land dimensions apply to the land under a draft environmental planning instrument

(c) Does the land include or comprise critical habitat?

The land does not include or comprise critical habitat under a draft environmental planning instrument

(d) Is the land within a draft heritage conservation area?

The land is not within a draft heritage conservation area

(e) Is there a draft heritage item situated on the land?

There are no draft heritage items situated on the land

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

Is the land identified within any zone under Part 3 of State Environmental Planning Policy (Sydney Region Growth Centres) 2006, a Precinct Plan, or a Proposed Precinct Plan that is or has been the subject of community consultation or on public exhibition under the Act?

No

ITEM 3 – Complying Development Exclusions

Is the land, land on which complying development may be carried out under 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?

Complying development can be carried out subject to the land not being affected by flooding referred to in ITEM 7A(1).

Housing Code

Yes, under the Housing Code complying development may be carried out on the land.

Low Rise Housing Diversity Code

Yes, under the Low Rise Housing Diversity Code complying development may be carried out on the land.

Rural Housing Code

Yes, under the Rural Housing Code complying development may be carried out on the land.

Housing Alterations Code

Yes, under the Housing Alterations Code complying development may be carried out on the land.

General Development Code

Yes, under the General Development Code complying development may be carried out on the land.

Commercial and Industrial Alterations Code

Yes, under the General Commercial and Industrial Code complying development may be carried out on the land.

Commercial and Industrial (New Buildings and Additions) Code

Yes, under the General Commercial and Industrial (New Buildings and Additions) Code complying development may be carried out on the land.

Container Recycling Facilities Code

Yes, under the Container Recycling Facilities Code complying development may be carried out on the land.

Subdivisions Code

Yes, under the Subdivisions Code complying development may be carried out on the land.

Demolition Code

Yes, under the Demolition Code complying development may be carried out on the land.

Fire Safety Code

Yes, under the Fire Safety Code complying development may be carried out on the land.

ITEM 4 – (Repealed)

ITEM 4A – (Repealed)

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

Has the owner (or any previous owner) of the land 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

ITEM 5 – Mine subsidence

Is the land proclaimed to be in a mine subsidence district within the meaning of the Coal Mine Subsidence Compensation Act 2017?

No

ITEM 6 – Road widening and road realignment

Is the land affected by any road widening or road realignment under:

- (a) *Division 2 of Part 3 of the Roads Act 1993; or*
- (b) *Any environmental planning instrument; or*
- (c) *Any resolution of the Council?*

No

ITEM 7 – Council and other public authority policies on hazard risk restrictions

(a) Whether or not the land is affected by a policy adopted by the Council that restricts the development of the land because of the likelihood of:-

- | | | |
|-------|---------------------|----|
| (i) | land slip | No |
| (ii) | bushfire | No |
| (iii) | tidal inundation | No |
| (iv) | subsidence | No |
| (v) | acid sulphate soils | No |
| (vi) | land contamination | No |
| (vii) | Other Risk | No |

(b) Whether or not the land is affected by a policy adopted by any other public authority and notified to the Council for the express purpose of its adoption by that authority being referred to in planning certificates issued by the Council that restricts the development of the land because of the likelihood of:-

- | | | |
|-------|---------------------|----|
| (i) | land slip | No |
| (ii) | bushfire | No |
| (iii) | tidal inundation | No |
| (iv) | subsidence | No |
| (v) | acid sulphate soils | No |
| (vi) | land contamination | No |
| (vii) | Other Risk | No |

ITEM 7A – Flood related development controls information

1. *Is the land or part of the land within the flood planning area and subject to flood - related development controls.*

No

2. *Is the land or part of the land between the flood planning area and the probable maximum flood (PMF) and subject to flood-related development controls.*

No

3. *In this clause -*

flood planning area has the same meaning as in the Floodplain Development Manual.

Floodplain Development Manual means the Floodplain Development Manual (ISBN 0 7347 5476 0) published by the NSW Government in April 2005.

probable maximum flood has the same meaning as in the Floodplain Development Manual.

ITEM 8 – Land reserved for acquisition

Is there an environmental planning instrument, or proposed environmental planning instrument referred to in clause 1 which makes provision in relation to the acquisition of the land by a public authority, as referred to in section 3.15 of the Environmental Planning and Assessment Act 1979?

No

ITEM 9 – Contributions plans

The name of each contributions plan applying to the land is:-

Cumberland Local Infrastructure Contributions Plan 2020

ITEM 9A - Biodiversity certified land

Is the land biodiversity certified land under Part 8 of the Biodiversity Conservation Act 2016 (including land certified under Part 7AA of the Threatened Species Conservation Act 1995)?

No

ITEM 10 – Biodiversity stewardship sites

Has Council been notified by the Chief Executive of the Office of Environment and Heritage that the land is a biodiversity stewardship site under a biodiversity stewardship agreement under Part 5 of the Biodiversity Conservation Act 2016 (including biobanking agreements under Part 7A of the Threatened Species Conservation Act 1995)?

No

ITEM 10A – Native vegetation clearing set asides

Under section 60ZC of the Local Land Service Act 2013, has Council been notified by Local Land Services (or is it registered in the public register under that section) that the land contains a set aside area?

No

ITEM 11 – Bush fire prone land

- | | | |
|-----|--|-----|
| (a) | <i>All of the land is bush fire prone land.</i> | No |
| (b) | <i>Some of the land is bush fire prone land.</i> | No |
| (c) | <i>None of the land is bush fire prone land.</i> | Yes |
-

ITEM 12 – Property vegetation plans

Has Council been notified (by the person or body that approved the plan) of the existence of a property vegetation plan approved under Part 4 of the Native Vegetation Act 2003 (and that continues in force) applying to the land?

No

ITEM 13 – Orders under Trees (Disputes Between Neighbours) Act 2006

Has Council been notified that 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

ITEM 14 – Directions under Part 3A

Is there a direction by the Minister in force under section 75P (2) (c1) of the Environmental Planning and Assessment Act 1979 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

ITEM 15 – Site compatibility certificates and conditions for seniors housing

- (a) **Has a current site compatibility certificate (seniors housing), of which the Council is aware, been issued under State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 in respect of proposed development on the land?**

No

- (b) **Have any terms of a kind referred to in clause 18(2) of State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 been imposed as a condition of consent to a development application granted after 11 October 2007 in respect of the land?**

No

ITEM 16 – Site compatibility certificates for infrastructure, schools or TAFE establishments

Has a valid site compatibility certificate (infrastructure) or a site compatibility certificate (schools or TAFE establishments), of which the Council is aware, been issued?

No

ITEM 17 – Site compatibility certificates and conditions for affordable rental housing

1. *Has a current site compatibility certificate (affordable rental housing), of which the Council is aware, been issued in respect of proposed development on the land?*

No

2. *Have any terms of a kind referred to in clause 17(1) or 38(1) of State Environmental Planning Policy (Affordable Rental Housing) 2009 been imposed as a condition of consent to a development application in respect of the land?*

No

ITEM 18 – Paper subdivision information

Has a development plan been adopted that applies to the land or that is proposed to be subject to a consent ballot?

No

ITEM 19 – Site verification certificates

Has Council been made aware of a current site verification certificate that has been issued in respect of the land?

No

ITEM 20 – Loose – fill asbestos insulation

Has Council been notified that 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

ITEM 21 – Affected building notices and building product rectification orders

1. *Is any affected building notice in force in respect of the land?*

No

2. *Is any building product rectification order in force in respect of the land that has not been fully complied with?*

No

3. Has a notice of intention to make a building product rectification order been given in respect of that land that is outstanding?

No

ITEM 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.

The land is not affected.

NOTE 1 – Matters arising under the Contaminated Land Management Act 1997

Section 59(2) of the Contaminated Land Management Act 1997 prescribes the following additional matters to be specified in planning certificates:-

- (a) *At the date of this certificate, is the land (or part of the land) to which this certificate relates significantly contaminated land?*
No
- (b) *At the date of this certificate, is the land to which this certificate relates subject to a management order?*
No
- (c) *At the date of this certificate, is the land to which this certificate relates the subject of an approved voluntary management proposal?*
No
- (d) *At the date of this certificate, is the land to which this certificate relates subject to an ongoing maintenance order?*
No
- (e) *At the date of this certificate, is the land to which this certificate relates the subject of a site audit statement and a copy of such a statement has been provided to the Council?*
No

GENERAL INFORMATION

The absence of any reference to a matter affecting the land shall not imply that the land is not affected by that matter not referred to in this certificate.

Information provided under section 10.7(2) is in accordance with the matters prescribed under schedule 4 of the Environmental Planning and Assessment Regulation 2000 and is provided only to the extent that the Council has been notified by the Department of Public Works or Department of Planning.

When advice in accordance with section 10.7(5) is requested the Council is under no obligation to furnish any advice. If advice is provided Council draws your attention to section 10.7(6) and schedule 6 of the *Environmental Planning and Assessment Act 1979* which have the effect that Council shall not incur any liability in respect of advice provided in good faith pursuant to section 10.7(5), including the furnishing of advice in respect of contaminated land.

Any enquiries regarding State and Regional Environmental Planning Policies should be directed to the Department of Planning at <http://www.planning.nsw.gov.au>

Please contact Council's Strategic Planning section for further information about this Planning Certificate.

Peter J Fitzgerald
GENERAL MANAGER



APPLICANT: Lotsearch Pty Ltd
Level 3
68 Alfred Street
MILSONS POINT NSW 2061

PLANNING CERTIFICATE

Issued under section 10.7(2) Environmental Planning and Assessment Act 1979

Property: 3 Hassall Street WESTMEAD NSW 2145
Title: Lot 37 Sec A DP 4036
Land No: 95613
Certificate No: PC2021/5667
Certificate Date: 18/11/2021
Applicant's Ref: LS026281

SECTION 10.7(2)

In accordance with the requirements of section 10.7(2) of the Environmental Planning and Assessment Act (1979) ("the Act"), the following prescribed matters relate to the land at the date of this certificate.

ITEM 1 - Names of relevant planning instruments and DCPs

1. ***The following environmental planning instruments apply to the carrying out of development on the land:***

Cumberland Local Environmental Plan 2021

State Environmental Planning Policy No. 19 – Bushland in Urban Areas
State Environmental Planning Policy No. 30 – Intensive Agriculture
State Environmental Planning Policy No. 33 – Hazardous and Offensive Development
State Environmental Planning Policy No. 50 – Canal Estates
State Environmental Planning Policy No. 55 – Remediation of Land
State Environmental Planning Policy No. 62 – Sustainable Aquaculture
State Environmental Planning Policy No. 64 – Advertising and Signage
State Environmental Planning Policy No. 65 – Design Quality of Residential Flat Development
State Environmental Planning Policy No. 70 – Affordable Housing (Revised Schemes)
State Environmental Planning Policy – SEPP (Housing for Seniors or People with a Disability) 2004
State Environmental Planning Policy – Building Sustainability Index: BASIX 2004
State Environmental Planning Policy – (Mining, Petroleum Production and Extractive Industries) 2007
State Environmental Planning Policy – (Infrastructure) 2007
State Environmental Planning Policy – (Temporary Structures) 2007
State Environmental Planning Policy – (Exempt and Complying Development Codes) 2008
State Environmental Planning Policy – (Repeal of Concurrence and Referral Provisions) 2008
State Environmental Planning Policy – (Affordable Rental Housing) 2009
State Environmental Planning Policy – (Vegetation in Non-Rural Areas) 2017
State Environmental Planning Policy – (Educational Establishments and Child Care Facilities) 2017
State Environmental Planning Policy – (Primary Production and Rural Development) 2019
State Environmental Planning Policy – (State and Regional Development) 2011
State Environmental Planning Policy – (Concurrences) 2018
State Environmental Planning Policy No. 21 – Caravan Parks

Sydney Regional Environmental Plan No. 9 – Extractive Industry (No. 2 – 1995)
Sydney Regional Environmental Plan (Sydney Harbour Catchment) 2005

2. ***The following proposed environmental planning instruments apply to the carrying out of development on the land and are or have been the subject of community consultation or on public exhibition under the Environmental Planning and Assessment Act 1979:***

No proposed environmental planning instruments apply

3. ***The following development control plans apply to the carrying out of development on the land:***

Cumberland Development Control Plan 2021

ITEM 2 - Zoning and land use under relevant LEPs**1. (a) Zoning details in the instruments identified in ITEM 1(1) above****Zone R4 High Density Residential****1. Objectives of zone**

- To provide for the housing needs of the community within a high density residential environment.
- To provide a variety of housing types within a high density residential environment.
- To enable other land uses that provide facilities or services to meet the day to day needs of residents.
- To ensure that non-residential land uses are located in a setting that minimises impacts on the amenity of a high density residential environment.
- To encourage residential development that maintains the amenity of the surrounding area.

2. Permitted without consent

Home occupations

3. Permitted with consent

Attached dwellings; Bed and breakfast accommodation; Boarding houses; Building identification signs; Business identification signs; Centre-based child care facilities; Community facilities; Home industries; Hostels; Kiosks; Multi dwelling housing; Neighbourhood shops; Oyster aquaculture; Places of public worship; Residential flat buildings; Respite day care centres; Roads; Seniors housing; Shop top housing; Water recycling facilities; Any other development not specified in item 2 or 4

4. Prohibited

Agriculture; Air transport facilities; Airstrips; Amusement centres; Animal boarding or training establishments; Boat building and repair facilities; Boat sheds; Camping grounds; Car parks; Caravan parks; Cemeteries; Charter and tourism boating facilities; Commercial premises; Correctional centres; Crematoria; Depots; Dwelling houses; Eco-tourist facilities; Electricity generating works; Entertainment facilities; Environmental facilities; Exhibition villages; Extractive industries; Farm buildings; Forestry; Freight transport facilities; Function centres; Heavy industrial storage establishments; Helipads; Highway service centres; Home occupations (sex services); Industrial retail outlets; Industrial training facilities; Industries; Information and education facilities; Marinas; Mooring pens; Moorings; Mortuaries; Open cut mining; Passenger transport facilities; Pond-based aquaculture; Port facilities; Recreation facilities (major); Registered clubs; Research stations; Residential accommodation; Restricted premises; Rural industries; Service stations; Sewerage systems; Sex services premises; Signage; Storage premises; Tank-based aquaculture; Tourist and visitor accommodation; Transport depots; Truck depots; Vehicle body repair workshops; Vehicle repair stations; Veterinary hospitals; Warehouse or distribution centres; Waste or resource management facilities; Water recreation structures; Water supply systems; Wharf or boating facilities; Wholesale supplies

Additional permitted uses

No additional uses apply

(b) Are there development standards applying to the land, which fix minimum land dimensions for the erection of a dwelling house on the land?

No fixed minimum land dimensions apply to this land

(c) Does the land include or comprise critical habitat?

The land does not include or comprise critical habitat

(d) Is the land within a heritage conservation area?

The land is not within a heritage conservation area

(e) Is there a heritage item situated on the land?

There are no heritage items situated on the land

2. (a) Zoning details in the instruments identified in ITEM 1(2) above

No draft zoning applies to the land

Additional permitted uses

No draft additional uses apply

(b) Are there development standards applying to the land, which fix minimum land dimensions for the erection of a dwelling house on the land?

No fixed minimum land dimensions apply to the land under a draft environmental planning instrument

(c) Does the land include or comprise critical habitat?

The land does not include or comprise critical habitat under a draft environmental planning instrument

(d) Is the land within a draft heritage conservation area?

The land is not within a draft heritage conservation area

(e) Is there a draft heritage item situated on the land?

There are no draft heritage items situated on the land

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

Is the land identified within any zone under Part 3 of State Environmental Planning Policy (Sydney Region Growth Centres) 2006, a Precinct Plan, or a Proposed Precinct Plan that is or has been the subject of community consultation or on public exhibition under the Act?

No

ITEM 3 – Complying Development Exclusions

Is the land, land on which complying development may be carried out under 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?

Complying development can be carried out subject to the land not being affected by flooding referred to in ITEM 7A(1).

Housing Code

Yes, under the Housing Code complying development may be carried out on the land.

Low Rise Housing Diversity Code

Yes, under the Low Rise Housing Diversity Code complying development may be carried out on the land.

Rural Housing Code

Yes, under the Rural Housing Code complying development may be carried out on the land.

Housing Alterations Code

Yes, under the Housing Alterations Code complying development may be carried out on the land.

General Development Code

Yes, under the General Development Code complying development may be carried out on the land.

Commercial and Industrial Alterations Code

Yes, under the General Commercial and Industrial Code complying development may be carried out on the land.

Commercial and Industrial (New Buildings and Additions) Code

Yes, under the General Commercial and Industrial (New Buildings and Additions) Code complying development may be carried out on the land.

Container Recycling Facilities Code

Yes, under the Container Recycling Facilities Code complying development may be carried out on the land.

Subdivisions Code

Yes, under the Subdivisions Code complying development may be carried out on the land.

Demolition Code

Yes, under the Demolition Code complying development may be carried out on the land.

Fire Safety Code

Yes, under the Fire Safety Code complying development may be carried out on the land.

ITEM 4 – (Repealed)

ITEM 4A – (Repealed)

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

Has the owner (or any previous owner) of the land 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

ITEM 5 – Mine subsidence

Is the land proclaimed to be in a mine subsidence district within the meaning of the Coal Mine Subsidence Compensation Act 2017?

No

ITEM 6 – Road widening and road realignment

Is the land affected by any road widening or road realignment under:

- (a) *Division 2 of Part 3 of the Roads Act 1993; or*
- (b) *Any environmental planning instrument; or*
- (c) *Any resolution of the Council?*

No

ITEM 7 – Council and other public authority policies on hazard risk restrictions

(a) Whether or not the land is affected by a policy adopted by the Council that restricts the development of the land because of the likelihood of:-

- | | | |
|-------|---------------------|----|
| (i) | land slip | No |
| (ii) | bushfire | No |
| (iii) | tidal inundation | No |
| (iv) | subsidence | No |
| (v) | acid sulphate soils | No |
| (vi) | land contamination | No |
| (vii) | Other Risk | No |

(b) Whether or not the land is affected by a policy adopted by any other public authority and notified to the Council for the express purpose of its adoption by that authority being referred to in planning certificates issued by the Council that restricts the development of the land because of the likelihood of:-

- | | | |
|-------|---------------------|----|
| (i) | land slip | No |
| (ii) | bushfire | No |
| (iii) | tidal inundation | No |
| (iv) | subsidence | No |
| (v) | acid sulphate soils | No |
| (vi) | land contamination | No |
| (vii) | Other Risk | No |

ITEM 7A – Flood related development controls information

1. *Is the land or part of the land within the flood planning area and subject to flood - related development controls.*

No

2. *Is the land or part of the land between the flood planning area and the probable maximum flood (PMF) and subject to flood-related development controls.*

Yes

3. *In this clause -*

flood planning area has the same meaning as in the Floodplain Development Manual.

Floodplain Development Manual means the Floodplain Development Manual (ISBN 0 7347 5476 0) published by the NSW Government in April 2005.

probable maximum flood has the same meaning as in the Floodplain Development Manual.

ITEM 8 – Land reserved for acquisition

Is there an environmental planning instrument, or proposed environmental planning instrument referred to in clause 1 which makes provision in relation to the acquisition of the land by a public authority, as referred to in section 3.15 of the Environmental Planning and Assessment Act 1979?

No

ITEM 9 – Contributions plans

The name of each contributions plan applying to the land is:-

Cumberland Local Infrastructure Contributions Plan 2020

ITEM 9A - Biodiversity certified land

Is the land biodiversity certified land under Part 8 of the Biodiversity Conservation Act 2016 (including land certified under Part 7AA of the Threatened Species Conservation Act 1995)?

No

ITEM 10 – Biodiversity stewardship sites

Has Council been notified by the Chief Executive of the Office of Environment and Heritage that the land is a biodiversity stewardship site under a biodiversity stewardship agreement under Part 5 of the Biodiversity Conservation Act 2016 (including biobanking agreements under Part 7A of the Threatened Species Conservation Act 1995)?

No

ITEM 10A – Native vegetation clearing set asides

Under section 60ZC of the Local Land Service Act 2013, has Council been notified by Local Land Services (or is it registered in the public register under that section) that the land contains a set aside area?

No

ITEM 11 – Bush fire prone land

- | | | |
|-----|--|-----|
| (a) | <i>All of the land is bush fire prone land.</i> | No |
| (b) | <i>Some of the land is bush fire prone land.</i> | No |
| (c) | <i>None of the land is bush fire prone land.</i> | Yes |

ITEM 12 – Property vegetation plans

Has Council been notified (by the person or body that approved the plan) of the existence of a property vegetation plan approved under Part 4 of the Native Vegetation Act 2003 (and that continues in force) applying to the land?

No

ITEM 13 – Orders under Trees (Disputes Between Neighbours) Act 2006

Has Council been notified that 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

ITEM 14 – Directions under Part 3A

Is there a direction by the Minister in force under section 75P (2) (c1) of the Environmental Planning and Assessment Act 1979 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

ITEM 15 – Site compatibility certificates and conditions for seniors housing

- (a) Has a current site compatibility certificate (seniors housing), of which the Council is aware, been issued under State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 in respect of proposed development on the land?
- No
- (b) Have any terms of a kind referred to in clause 18(2) of State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 been imposed as a condition of consent to a development application granted after 11 October 2007 in respect of the land?
- No

ITEM 16 – Site compatibility certificates for infrastructure, schools or TAFE establishments

Has a valid site compatibility certificate (infrastructure) or a site compatibility certificate (schools or TAFE establishments), of which the Council is aware, been issued?

No

ITEM 17 – Site compatibility certificates and conditions for affordable rental housing

1. *Has a current site compatibility certificate (affordable rental housing), of which the Council is aware, been issued in respect of proposed development on the land?*

No

2. *Have any terms of a kind referred to in clause 17(1) or 38(1) of State Environmental Planning Policy (Affordable Rental Housing) 2009 been imposed as a condition of consent to a development application in respect of the land?*

No

ITEM 18 – Paper subdivision information

Has a development plan been adopted that applies to the land or that is proposed to be subject to a consent ballot?

No

ITEM 19 – Site verification certificates

Has Council been made aware of a current site verification certificate that has been issued in respect of the land?

No

ITEM 20 – Loose – fill asbestos insulation

Has Council been notified that 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

ITEM 21 – Affected building notices and building product rectification orders

1. *Is any affected building notice in force in respect of the land?*

No

2. *Is any building product rectification order in force in respect of the land that has not been fully complied with?*

No

3. Has a notice of intention to make a building product rectification order been given in respect of that land that is outstanding?

No

ITEM 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.

The land is not affected.

NOTE 1 – Matters arising under the Contaminated Land Management Act 1997

Section 59(2) of the Contaminated Land Management Act 1997 prescribes the following additional matters to be specified in planning certificates:-

- (a) *At the date of this certificate, is the land (or part of the land) to which this certificate relates significantly contaminated land?*
No
- (b) *At the date of this certificate, is the land to which this certificate relates subject to a management order?*
No
- (c) *At the date of this certificate, is the land to which this certificate relates the subject of an approved voluntary management proposal?*
No
- (d) *At the date of this certificate, is the land to which this certificate relates subject to an ongoing maintenance order?*
No
- (e) *At the date of this certificate, is the land to which this certificate relates the subject of a site audit statement and a copy of such a statement has been provided to the Council?*
No

GENERAL INFORMATION

The absence of any reference to a matter affecting the land shall not imply that the land is not affected by that matter not referred to in this certificate.

Information provided under section 10.7(2) is in accordance with the matters prescribed under schedule 4 of the Environmental Planning and Assessment Regulation 2000 and is provided only to the extent that the Council has been notified by the Department of Public Works or Department of Planning.

When advice in accordance with section 10.7(5) is requested the Council is under no obligation to furnish any advice. If advice is provided Council draws your attention to section 10.7(6) and schedule 6 of the *Environmental Planning and Assessment Act 1979* which have the effect that Council shall not incur any liability in respect of advice provided in good faith pursuant to section 10.7(5), including the furnishing of advice in respect of contaminated land.

Any enquiries regarding State and Regional Environmental Planning Policies should be directed to the Department of Planning at <http://www.planning.nsw.gov.au>

Please contact Council's Strategic Planning section for further information about this Planning Certificate.

Peter J Fitzgerald
GENERAL MANAGER



APPLICANT: Lotsearch Pty Ltd
Level 3
68 Alfred Street
MILSONS POINT NSW 2061

PLANNING CERTIFICATE

Issued under section 10.7(2) Environmental Planning and Assessment Act 1979

Property: 24 Alexandra Avenue WESTMEAD NSW 2145
Title: Lot 43 Sec A DP 4036
Land No: 80083
Certificate No: PC2021/5665
Certificate Date: 18/11/2021
Applicant's Ref: LS026281

SECTION 10.7(2)

In accordance with the requirements of section 10.7(2) of the Environmental Planning and Assessment Act (1979) ("the Act"), the following prescribed matters relate to the land at the date of this certificate.

ITEM 1 - Names of relevant planning instruments and DCPs

- 1. The following environmental planning instruments apply to the carrying out of development on the land:**

Cumberland Local Environmental Plan 2021

State Environmental Planning Policy No. 19 – Bushland in Urban Areas
State Environmental Planning Policy No. 30 – Intensive Agriculture
State Environmental Planning Policy No. 33 – Hazardous and Offensive Development
State Environmental Planning Policy No. 50 – Canal Estates
State Environmental Planning Policy No. 55 – Remediation of Land
State Environmental Planning Policy No. 62 – Sustainable Aquaculture
State Environmental Planning Policy No. 64 – Advertising and Signage
State Environmental Planning Policy No. 65 – Design Quality of Residential Flat Development
State Environmental Planning Policy No. 70 – Affordable Housing (Revised Schemes)
State Environmental Planning Policy – SEPP (Housing for Seniors or People with a Disability) 2004
State Environmental Planning Policy – Building Sustainability Index: BASIX 2004
State Environmental Planning Policy – (Mining, Petroleum Production and Extractive Industries) 2007
State Environmental Planning Policy – (Infrastructure) 2007
State Environmental Planning Policy – (Temporary Structures) 2007
State Environmental Planning Policy – (Exempt and Complying Development Codes) 2008
State Environmental Planning Policy – (Repeal of Concurrence and Referral Provisions) 2008
State Environmental Planning Policy – (Affordable Rental Housing) 2009
State Environmental Planning Policy – (Vegetation in Non-Rural Areas) 2017
State Environmental Planning Policy – (Educational Establishments and Child Care Facilities) 2017
State Environmental Planning Policy – (Primary Production and Rural Development) 2019
State Environmental Planning Policy – (State and Regional Development) 2011
State Environmental Planning Policy – (Concurrences) 2018
State Environmental Planning Policy No. 21 – Caravan Parks

Sydney Regional Environmental Plan No. 9 – Extractive Industry (No. 2 – 1995)
Sydney Regional Environmental Plan (Sydney Harbour Catchment) 2005

- 2. The following proposed environmental planning instruments apply to the carrying out of development on the land and are or have been the subject of community consultation or on public exhibition under the Environmental Planning and Assessment Act 1979:**

No proposed environmental planning instruments apply

- 3. The following development control plans apply to the carrying out of development on the land:**

Cumberland Development Control Plan 2021

ITEM 2 - Zoning and land use under relevant LEPs**1. (a) Zoning details in the instruments identified in ITEM 1(1) above****Zone R4 High Density Residential****1. Objectives of zone**

- To provide for the housing needs of the community within a high density residential environment.
- To provide a variety of housing types within a high density residential environment.
- To enable other land uses that provide facilities or services to meet the day to day needs of residents.
- To ensure that non-residential land uses are located in a setting that minimises impacts on the amenity of a high density residential environment.
- To encourage residential development that maintains the amenity of the surrounding area.

2. Permitted without consent

Home occupations

3. Permitted with consent

Attached dwellings; Bed and breakfast accommodation; Boarding houses; Building identification signs; Business identification signs; Centre-based child care facilities; Community facilities; Home industries; Hostels; Kiosks; Multi dwelling housing; Neighbourhood shops; Oyster aquaculture; Places of public worship; Residential flat buildings; Respite day care centres; Roads; Seniors housing; Shop top housing; Water recycling facilities; Any other development not specified in item 2 or 4

4. Prohibited

Agriculture; Air transport facilities; Airstrips; Amusement centres; Animal boarding or training establishments; Boat building and repair facilities; Boat sheds; Camping grounds; Car parks; Caravan parks; Cemeteries; Charter and tourism boating facilities; Commercial premises; Correctional centres; Crematoria; Depots; Dwelling houses; Eco-tourist facilities; Electricity generating works; Entertainment facilities; Environmental facilities; Exhibition villages; Extractive industries; Farm buildings; Forestry; Freight transport facilities; Function centres; Heavy industrial storage establishments; Helipads; Highway service centres; Home occupations (sex services); Industrial retail outlets; Industrial training facilities; Industries; Information and education facilities; Marinas; Mooring pens; Moorings; Mortuaries; Open cut mining; Passenger transport facilities; Pond-based aquaculture; Port facilities; Recreation facilities (major); Registered clubs; Research stations; Residential accommodation; Restricted premises; Rural industries; Service stations; Sewerage systems; Sex services premises; Signage; Storage premises; Tank-based aquaculture; Tourist and visitor accommodation; Transport depots; Truck depots; Vehicle body repair workshops; Vehicle repair stations; Veterinary hospitals; Warehouse or distribution centres; Waste or resource management facilities; Water recreation structures; Water supply systems; Wharf or boating facilities; Wholesale supplies

Additional permitted uses

No additional uses apply

(b) Are there development standards applying to the land, which fix minimum land dimensions for the erection of a dwelling house on the land?

No fixed minimum land dimensions apply to this land

(c) Does the land include or comprise critical habitat?

The land does not include or comprise critical habitat

(d) Is the land within a heritage conservation area?

The land is not within a heritage conservation area

(e) Is there a heritage item situated on the land?

There are no heritage items situated on the land

2. (a) Zoning details in the instruments identified in ITEM 1(2) above

No draft zoning applies to the land

Additional permitted uses

No draft additional uses apply

(b) Are there development standards applying to the land, which fix minimum land dimensions for the erection of a dwelling house on the land?

No fixed minimum land dimensions apply to the land under a draft environmental planning instrument

(c) Does the land include or comprise critical habitat?

The land does not include or comprise critical habitat under a draft environmental planning instrument

(d) Is the land within a draft heritage conservation area?

The land is not within a draft heritage conservation area

(e) Is there a draft heritage item situated on the land?

There are no draft heritage items situated on the land

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

Is the land identified within any zone under Part 3 of State Environmental Planning Policy (Sydney Region Growth Centres) 2006, a Precinct Plan, or a Proposed Precinct Plan that is or has been the subject of community consultation or on public exhibition under the Act?

No

ITEM 3 – Complying Development Exclusions

Is the land, land on which complying development may be carried out under 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?

Complying development can be carried out subject to the land not being affected by flooding referred to in ITEM 7A(1).

Housing Code

Yes, under the Housing Code complying development may be carried out on the land.

Low Rise Housing Diversity Code

Yes, under the Low Rise Housing Diversity Code complying development may be carried out on the land.

Rural Housing Code

Yes, under the Rural Housing Code complying development may be carried out on the land.

Housing Alterations Code

Yes, under the Housing Alterations Code complying development may be carried out on the land.

General Development Code

Yes, under the General Development Code complying development may be carried out on the land.

Commercial and Industrial Alterations Code

Yes, under the General Commercial and Industrial Code complying development may be carried out on the land.

Commercial and Industrial (New Buildings and Additions) Code

Yes, under the General Commercial and Industrial (New Buildings and Additions) Code complying development may be carried out on the land.

Container Recycling Facilities Code

Yes, under the Container Recycling Facilities Code complying development may be carried out on the land.

Subdivisions Code

Yes, under the Subdivisions Code complying development may be carried out on the land.

Demolition Code

Yes, under the Demolition Code complying development may be carried out on the land.

Fire Safety Code

Yes, under the Fire Safety Code complying development may be carried out on the land.

ITEM 4 – (Repealed)

ITEM 4A – (Repealed)

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

Has the owner (or any previous owner) of the land 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

ITEM 5 – Mine subsidence

Is the land proclaimed to be in a mine subsidence district within the meaning of the Coal Mine Subsidence Compensation Act 2017?

No

ITEM 6 – Road widening and road realignment

Is the land affected by any road widening or road realignment under:

- (a) *Division 2 of Part 3 of the Roads Act 1993; or*
- (b) *Any environmental planning instrument; or*
- (c) *Any resolution of the Council?*

No

ITEM 7 – Council and other public authority policies on hazard risk restrictions

(a) Whether or not the land is affected by a policy adopted by the Council that restricts the development of the land because of the likelihood of:-

- | | | |
|-------|---------------------|----|
| (i) | land slip | No |
| (ii) | bushfire | No |
| (iii) | tidal inundation | No |
| (iv) | subsidence | No |
| (v) | acid sulphate soils | No |
| (vi) | land contamination | No |
| (vii) | Other Risk | No |

(b) Whether or not the land is affected by a policy adopted by any other public authority and notified to the Council for the express purpose of its adoption by that authority being referred to in planning certificates issued by the Council that restricts the development of the land because of the likelihood of:-

- | | | |
|-------|---------------------|----|
| (i) | land slip | No |
| (ii) | bushfire | No |
| (iii) | tidal inundation | No |
| (iv) | subsidence | No |
| (v) | acid sulphate soils | No |
| (vi) | land contamination | No |
| (vii) | Other Risk | No |

ITEM 7A – Flood related development controls information

1. *Is the land or part of the land within the flood planning area and subject to flood - related development controls.*

No

2. *Is the land or part of the land between the flood planning area and the probable maximum flood (PMF) and subject to flood-related development controls.*

No

3. *In this clause -*

flood planning area has the same meaning as in the Floodplain Development Manual.

Floodplain Development Manual means the Floodplain Development Manual (ISBN 0 7347 5476 0) published by the NSW Government in April 2005.

probable maximum flood has the same meaning as in the Floodplain Development Manual.

ITEM 8 – Land reserved for acquisition

Is there an environmental planning instrument, or proposed environmental planning instrument referred to in clause 1 which makes provision in relation to the acquisition of the land by a public authority, as referred to in section 3.15 of the Environmental Planning and Assessment Act 1979?

No

ITEM 9 – Contributions plans

The name of each contributions plan applying to the land is:-

Cumberland Local Infrastructure Contributions Plan 2020

ITEM 9A - Biodiversity certified land

Is the land biodiversity certified land under Part 8 of the Biodiversity Conservation Act 2016 (including land certified under Part 7AA of the Threatened Species Conservation Act 1995)?

No

ITEM 10 – Biodiversity stewardship sites

Has Council been notified by the Chief Executive of the Office of Environment and Heritage that the land is a biodiversity stewardship site under a biodiversity stewardship agreement under Part 5 of the Biodiversity Conservation Act 2016 (including biobanking agreements under Part 7A of the Threatened Species Conservation Act 1995)?

No

ITEM 10A – Native vegetation clearing set asides

Under section 60ZC of the Local Land Service Act 2013, has Council been notified by Local Land Services (or is it registered in the public register under that section) that the land contains a set aside area?

No

ITEM 11 – Bush fire prone land

- | | | |
|-----|--|-----|
| (a) | <i>All of the land is bush fire prone land.</i> | No |
| (b) | <i>Some of the land is bush fire prone land.</i> | No |
| (c) | <i>None of the land is bush fire prone land.</i> | Yes |

ITEM 12 – Property vegetation plans

Has Council been notified (by the person or body that approved the plan) of the existence of a property vegetation plan approved under Part 4 of the Native Vegetation Act 2003 (and that continues in force) applying to the land?

No

ITEM 13 – Orders under Trees (Disputes Between Neighbours) Act 2006

Has Council been notified that 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

ITEM 14 – Directions under Part 3A

Is there a direction by the Minister in force under section 75P (2) (c1) of the Environmental Planning and Assessment Act 1979 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

ITEM 15 – Site compatibility certificates and conditions for seniors housing

- (a) Has a current site compatibility certificate (seniors housing), of which the Council is aware, been issued under State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 in respect of proposed development on the land?
- No
- (b) Have any terms of a kind referred to in clause 18(2) of State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 been imposed as a condition of consent to a development application granted after 11 October 2007 in respect of the land?
- No

ITEM 16 – Site compatibility certificates for infrastructure, schools or TAFE establishments

Has a valid site compatibility certificate (infrastructure) or a site compatibility certificate (schools or TAFE establishments), of which the Council is aware, been issued?

No

ITEM 17 – Site compatibility certificates and conditions for affordable rental housing

1. *Has a current site compatibility certificate (affordable rental housing), of which the Council is aware, been issued in respect of proposed development on the land?*

No

2. *Have any terms of a kind referred to in clause 17(1) or 38(1) of State Environmental Planning Policy (Affordable Rental Housing) 2009 been imposed as a condition of consent to a development application in respect of the land?*

No

ITEM 18 – Paper subdivision information

Has a development plan been adopted that applies to the land or that is proposed to be subject to a consent ballot?

No

ITEM 19 – Site verification certificates

Has Council been made aware of a current site verification certificate that has been issued in respect of the land?

No

ITEM 20 – Loose – fill asbestos insulation

Has Council been notified that 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

ITEM 21 – Affected building notices and building product rectification orders

1. *Is any affected building notice in force in respect of the land?*

No

2. *Is any building product rectification order in force in respect of the land that has not been fully complied with?*

No

3. Has a notice of intention to make a building product rectification order been given in respect of that land that is outstanding?

No

ITEM 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.

The land is not affected.

NOTE 1 – Matters arising under the Contaminated Land Management Act 1997

Section 59(2) of the Contaminated Land Management Act 1997 prescribes the following additional matters to be specified in planning certificates:-

- (a) *At the date of this certificate, is the land (or part of the land) to which this certificate relates significantly contaminated land?*
No
- (b) *At the date of this certificate, is the land to which this certificate relates subject to a management order?*
No
- (c) *At the date of this certificate, is the land to which this certificate relates the subject of an approved voluntary management proposal?*
No
- (d) *At the date of this certificate, is the land to which this certificate relates subject to an ongoing maintenance order?*
No
- (e) *At the date of this certificate, is the land to which this certificate relates the subject of a site audit statement and a copy of such a statement has been provided to the Council?*
No

GENERAL INFORMATION

The absence of any reference to a matter affecting the land shall not imply that the land is not affected by that matter not referred to in this certificate.

Information provided under section 10.7(2) is in accordance with the matters prescribed under schedule 4 of the Environmental Planning and Assessment Regulation 2000 and is provided only to the extent that the Council has been notified by the Department of Public Works or Department of Planning.

When advice in accordance with section 10.7(5) is requested the Council is under no obligation to furnish any advice. If advice is provided Council draws your attention to section 10.7(6) and schedule 6 of the *Environmental Planning and Assessment Act 1979* which have the effect that Council shall not incur any liability in respect of advice provided in good faith pursuant to section 10.7(5), including the furnishing of advice in respect of contaminated land.

Any enquiries regarding State and Regional Environmental Planning Policies should be directed to the Department of Planning at <http://www.planning.nsw.gov.au>

Please contact Council's Strategic Planning section for further information about this Planning Certificate.

Peter J Fitzgerald
GENERAL MANAGER



APPLICANT: Lotsearch Pty Ltd
Level 3
68 Alfred Street
MILSONS POINT NSW 2061

PLANNING CERTIFICATE

Issued under section 10.7(2) Environmental Planning and Assessment Act 1979

Property: 24 Alexandra Avenue WESTMEAD NSW 2145
Title: Lot 44 Sec A DP 4036
Land No: 80084
Certificate No: PC2021/5664
Certificate Date: 18/11/2021
Applicant's Ref: LS026281

SECTION 10.7(2)

In accordance with the requirements of section 10.7(2) of the Environmental Planning and Assessment Act (1979) ("the Act"), the following prescribed matters relate to the land at the date of this certificate.

ITEM 1 - Names of relevant planning instruments and DCPs

1. ***The following environmental planning instruments apply to the carrying out of development on the land:***

Cumberland Local Environmental Plan 2021

State Environmental Planning Policy No. 19 – Bushland in Urban Areas
State Environmental Planning Policy No. 30 – Intensive Agriculture
State Environmental Planning Policy No. 33 – Hazardous and Offensive Development
State Environmental Planning Policy No. 50 – Canal Estates
State Environmental Planning Policy No. 55 – Remediation of Land
State Environmental Planning Policy No. 62 – Sustainable Aquaculture
State Environmental Planning Policy No. 64 – Advertising and Signage
State Environmental Planning Policy No. 65 – Design Quality of Residential Flat Development
State Environmental Planning Policy No. 70 – Affordable Housing (Revised Schemes)
State Environmental Planning Policy – SEPP (Housing for Seniors or People with a Disability) 2004
State Environmental Planning Policy – Building Sustainability Index: BASIX 2004
State Environmental Planning Policy – (Mining, Petroleum Production and Extractive Industries) 2007
State Environmental Planning Policy – (Infrastructure) 2007
State Environmental Planning Policy – (Temporary Structures) 2007
State Environmental Planning Policy – (Exempt and Complying Development Codes) 2008
State Environmental Planning Policy – (Repeal of Concurrence and Referral Provisions) 2008
State Environmental Planning Policy – (Affordable Rental Housing) 2009
State Environmental Planning Policy – (Vegetation in Non-Rural Areas) 2017
State Environmental Planning Policy – (Educational Establishments and Child Care Facilities) 2017
State Environmental Planning Policy – (Primary Production and Rural Development) 2019
State Environmental Planning Policy – (State and Regional Development) 2011
State Environmental Planning Policy – (Concurrences) 2018
State Environmental Planning Policy No. 21 – Caravan Parks

Sydney Regional Environmental Plan No. 9 – Extractive Industry (No. 2 – 1995)
Sydney Regional Environmental Plan (Sydney Harbour Catchment) 2005

2. ***The following proposed environmental planning instruments apply to the carrying out of development on the land and are or have been the subject of community consultation or on public exhibition under the Environmental Planning and Assessment Act 1979:***

No proposed environmental planning instruments apply

3. ***The following development control plans apply to the carrying out of development on the land:***

Cumberland Development Control Plan 2021

ITEM 2 - Zoning and land use under relevant LEPs**1. (a) Zoning details in the instruments identified in ITEM 1(1) above****Zone R4 High Density Residential****1. Objectives of zone**

- To provide for the housing needs of the community within a high density residential environment.
- To provide a variety of housing types within a high density residential environment.
- To enable other land uses that provide facilities or services to meet the day to day needs of residents.
- To ensure that non-residential land uses are located in a setting that minimises impacts on the amenity of a high density residential environment.
- To encourage residential development that maintains the amenity of the surrounding area.

2. Permitted without consent

Home occupations

3. Permitted with consent

Attached dwellings; Bed and breakfast accommodation; Boarding houses; Building identification signs; Business identification signs; Centre-based child care facilities; Community facilities; Home industries; Hostels; Kiosks; Multi dwelling housing; Neighbourhood shops; Oyster aquaculture; Places of public worship; Residential flat buildings; Respite day care centres; Roads; Seniors housing; Shop top housing; Water recycling facilities; Any other development not specified in item 2 or 4

4. Prohibited

Agriculture; Air transport facilities; Airstrips; Amusement centres; Animal boarding or training establishments; Boat building and repair facilities; Boat sheds; Camping grounds; Car parks; Caravan parks; Cemeteries; Charter and tourism boating facilities; Commercial premises; Correctional centres; Crematoria; Depots; Dwelling houses; Eco-tourist facilities; Electricity generating works; Entertainment facilities; Environmental facilities; Exhibition villages; Extractive industries; Farm buildings; Forestry; Freight transport facilities; Function centres; Heavy industrial storage establishments; Helipads; Highway service centres; Home occupations (sex services); Industrial retail outlets; Industrial training facilities; Industries; Information and education facilities; Marinas; Mooring pens; Moorings; Mortuaries; Open cut mining; Passenger transport facilities; Pond-based aquaculture; Port facilities; Recreation facilities (major); Registered clubs; Research stations; Residential accommodation; Restricted premises; Rural industries; Service stations; Sewerage systems; Sex services premises; Signage; Storage premises; Tank-based aquaculture; Tourist and visitor accommodation; Transport depots; Truck depots; Vehicle body repair workshops; Vehicle repair stations; Veterinary hospitals; Warehouse or distribution centres; Waste or resource management facilities; Water recreation structures; Water supply systems; Wharf or boating facilities; Wholesale supplies

Additional permitted uses

No additional uses apply

(b) Are there development standards applying to the land, which fix minimum land dimensions for the erection of a dwelling house on the land?

No fixed minimum land dimensions apply to this land

(c) Does the land include or comprise critical habitat?

The land does not include or comprise critical habitat

(d) Is the land within a heritage conservation area?

The land is not within a heritage conservation area

(e) Is there a heritage item situated on the land?

There are no heritage items situated on the land

2. (a) Zoning details in the instruments identified in ITEM 1(2) above

No draft zoning applies to the land

Additional permitted uses

No draft additional uses apply

(b) Are there development standards applying to the land, which fix minimum land dimensions for the erection of a dwelling house on the land?

No fixed minimum land dimensions apply to the land under a draft environmental planning instrument

(c) Does the land include or comprise critical habitat?

The land does not include or comprise critical habitat under a draft environmental planning instrument

(d) Is the land within a draft heritage conservation area?

The land is not within a draft heritage conservation area

(e) Is there a draft heritage item situated on the land?

There are no draft heritage items situated on the land

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

Is the land identified within any zone under Part 3 of State Environmental Planning Policy (Sydney Region Growth Centres) 2006, a Precinct Plan, or a Proposed Precinct Plan that is or has been the subject of community consultation or on public exhibition under the Act?

No

ITEM 3 – Complying Development Exclusions

Is the land, land on which complying development may be carried out under 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?

Complying development can be carried out subject to the land not being affected by flooding referred to in ITEM 7A(1).

Housing Code

Yes, under the Housing Code complying development may be carried out on the land.

Low Rise Housing Diversity Code

Yes, under the Low Rise Housing Diversity Code complying development may be carried out on the land.

Rural Housing Code

Yes, under the Rural Housing Code complying development may be carried out on the land.

Housing Alterations Code

Yes, under the Housing Alterations Code complying development may be carried out on the land.

General Development Code

Yes, under the General Development Code complying development may be carried out on the land.

Commercial and Industrial Alterations Code

Yes, under the General Commercial and Industrial Code complying development may be carried out on the land.

Commercial and Industrial (New Buildings and Additions) Code

Yes, under the General Commercial and Industrial (New Buildings and Additions) Code complying development may be carried out on the land.

Container Recycling Facilities Code

Yes, under the Container Recycling Facilities Code complying development may be carried out on the land.

Subdivisions Code

Yes, under the Subdivisions Code complying development may be carried out on the land.

Demolition Code

Yes, under the Demolition Code complying development may be carried out on the land.

Fire Safety Code

Yes, under the Fire Safety Code complying development may be carried out on the land.

ITEM 4 – (Repealed)

ITEM 4A – (Repealed)

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

Has the owner (or any previous owner) of the land 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

ITEM 5 – Mine subsidence

Is the land proclaimed to be in a mine subsidence district within the meaning of the Coal Mine Subsidence Compensation Act 2017?

No

ITEM 6 – Road widening and road realignment

Is the land affected by any road widening or road realignment under:

- (a) *Division 2 of Part 3 of the Roads Act 1993; or*
- (b) *Any environmental planning instrument; or*
- (c) *Any resolution of the Council?*

No

ITEM 7 – Council and other public authority policies on hazard risk restrictions

- (a) ***Whether or not the land is affected by a policy adopted by the Council that restricts the development of the land because of the likelihood of:-***

(i)	land slip	No
(ii)	bushfire	No
(iii)	tidal inundation	No
(iv)	subsidence	No
(v)	acid sulphate soils	No
(vi)	land contamination	No
(vii)	Other Risk	No

- (b) ***Whether or not the land is affected by a policy adopted by any other public authority and notified to the Council for the express purpose of its adoption by that authority being referred to in planning certificates issued by the Council that restricts the development of the land because of the likelihood of:-***

(i)	land slip	No
(ii)	bushfire	No
(iii)	tidal inundation	No
(iv)	subsidence	No
(v)	acid sulphate soils	No
(vi)	land contamination	No
(vii)	Other Risk	No

ITEM 7A – Flood related development controls information

1. *Is the land or part of the land within the flood planning area and subject to flood - related development controls.*

No

2. *Is the land or part of the land between the flood planning area and the probable maximum flood (PMF) and subject to flood-related development controls.*

No

3. *In this clause -*

flood planning area has the same meaning as in the Floodplain Development Manual.

Floodplain Development Manual means the Floodplain Development Manual (ISBN 0 7347 5476 0) published by the NSW Government in April 2005.

probable maximum flood has the same meaning as in the Floodplain Development Manual.

ITEM 8 – Land reserved for acquisition

Is there an environmental planning instrument, or proposed environmental planning instrument referred to in clause 1 which makes provision in relation to the acquisition of the land by a public authority, as referred to in section 3.15 of the Environmental Planning and Assessment Act 1979?

No

ITEM 9 – Contributions plans

The name of each contributions plan applying to the land is:-

Cumberland Local Infrastructure Contributions Plan 2020

ITEM 9A - Biodiversity certified land

Is the land biodiversity certified land under Part 8 of the Biodiversity Conservation Act 2016 (including land certified under Part 7AA of the Threatened Species Conservation Act 1995)?

No

ITEM 10 – Biodiversity stewardship sites

Has Council been notified by the Chief Executive of the Office of Environment and Heritage that the land is a biodiversity stewardship site under a biodiversity stewardship agreement under Part 5 of the Biodiversity Conservation Act 2016 (including biobanking agreements under Part 7A of the Threatened Species Conservation Act 1995)?

No

ITEM 10A – Native vegetation clearing set asides

Under section 60ZC of the Local Land Service Act 2013, has Council been notified by Local Land Services (or is it registered in the public register under that section) that the land contains a set aside area?

No

ITEM 11 – Bush fire prone land

- | | | |
|-----|--|-----|
| (a) | <i>All of the land is bush fire prone land.</i> | No |
| (b) | <i>Some of the land is bush fire prone land.</i> | No |
| (c) | <i>None of the land is bush fire prone land.</i> | Yes |
-

ITEM 12 – Property vegetation plans

Has Council been notified (by the person or body that approved the plan) of the existence of a property vegetation plan approved under Part 4 of the Native Vegetation Act 2003 (and that continues in force) applying to the land?

No

ITEM 13 – Orders under Trees (Disputes Between Neighbours) Act 2006

Has Council been notified that 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

ITEM 14 – Directions under Part 3A

Is there a direction by the Minister in force under section 75P (2) (c1) of the Environmental Planning and Assessment Act 1979 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

ITEM 15 – Site compatibility certificates and conditions for seniors housing

- (a) **Has a current site compatibility certificate (seniors housing), of which the Council is aware, been issued under State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 in respect of proposed development on the land?**

No

- (b) **Have any terms of a kind referred to in clause 18(2) of State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 been imposed as a condition of consent to a development application granted after 11 October 2007 in respect of the land?**

No

ITEM 16 – Site compatibility certificates for infrastructure, schools or TAFE establishments

Has a valid site compatibility certificate (infrastructure) or a site compatibility certificate (schools or TAFE establishments), of which the Council is aware, been issued?

No

ITEM 17 – Site compatibility certificates and conditions for affordable rental housing

1. *Has a current site compatibility certificate (affordable rental housing), of which the Council is aware, been issued in respect of proposed development on the land?*

No

2. *Have any terms of a kind referred to in clause 17(1) or 38(1) of State Environmental Planning Policy (Affordable Rental Housing) 2009 been imposed as a condition of consent to a development application in respect of the land?*

No

ITEM 18 – Paper subdivision information

Has a development plan been adopted that applies to the land or that is proposed to be subject to a consent ballot?

No

ITEM 19 – Site verification certificates

Has Council been made aware of a current site verification certificate that has been issued in respect of the land?

No

ITEM 20 – Loose – fill asbestos insulation

Has Council been notified that 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

ITEM 21 – Affected building notices and building product rectification orders

1. *Is any affected building notice in force in respect of the land?*

No

2. *Is any building product rectification order in force in respect of the land that has not been fully complied with?*

No

3. Has a notice of intention to make a building product rectification order been given in respect of that land that is outstanding?

No

ITEM 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.

The land is not affected.

NOTE 1 – Matters arising under the Contaminated Land Management Act 1997

Section 59(2) of the Contaminated Land Management Act 1997 prescribes the following additional matters to be specified in planning certificates:-

- (a) *At the date of this certificate, is the land (or part of the land) to which this certificate relates significantly contaminated land?*
No
- (b) *At the date of this certificate, is the land to which this certificate relates subject to a management order?*
No
- (c) *At the date of this certificate, is the land to which this certificate relates the subject of an approved voluntary management proposal?*
No
- (d) *At the date of this certificate, is the land to which this certificate relates subject to an ongoing maintenance order?*
No
- (e) *At the date of this certificate, is the land to which this certificate relates the subject of a site audit statement and a copy of such a statement has been provided to the Council?*
No

GENERAL INFORMATION

The absence of any reference to a matter affecting the land shall not imply that the land is not affected by that matter not referred to in this certificate.

Information provided under section 10.7(2) is in accordance with the matters prescribed under schedule 4 of the Environmental Planning and Assessment Regulation 2000 and is provided only to the extent that the Council has been notified by the Department of Public Works or Department of Planning.

When advice in accordance with section 10.7(5) is requested the Council is under no obligation to furnish any advice. If advice is provided Council draws your attention to section 10.7(6) and schedule 6 of the *Environmental Planning and Assessment Act 1979* which have the effect that Council shall not incur any liability in respect of advice provided in good faith pursuant to section 10.7(5), including the furnishing of advice in respect of contaminated land.

Any enquiries regarding State and Regional Environmental Planning Policies should be directed to the Department of Planning at <http://www.planning.nsw.gov.au>

Please contact Council's Strategic Planning section for further information about this Planning Certificate.

Peter J Fitzgerald
GENERAL MANAGER



APPLICANT: Lotsearch Pty Ltd
Level 3
68 Alfred Street
MILSONS POINT NSW 2061

PLANNING CERTIFICATE

Issued under section 10.7(2) Environmental Planning and Assessment Act 1979

Property: 26 Alexandra Avenue WESTMEAD NSW 2145
Title: Lot 45 Sec A DP 4036
Land No: 104594
Certificate No: PC2021/5663
Certificate Date: 18/11/2021
Applicant's Ref: LS026281

SECTION 10.7(2)

In accordance with the requirements of section 10.7(2) of the Environmental Planning and Assessment Act (1979) ("the Act"), the following prescribed matters relate to the land at the date of this certificate.

ITEM 1 - Names of relevant planning instruments and DCPs

- 1. The following environmental planning instruments apply to the carrying out of development on the land:**

Cumberland Local Environmental Plan 2021

State Environmental Planning Policy No. 19 – Bushland in Urban Areas
State Environmental Planning Policy No. 30 – Intensive Agriculture
State Environmental Planning Policy No. 33 – Hazardous and Offensive Development
State Environmental Planning Policy No. 50 – Canal Estates
State Environmental Planning Policy No. 55 – Remediation of Land
State Environmental Planning Policy No. 62 – Sustainable Aquaculture
State Environmental Planning Policy No. 64 – Advertising and Signage
State Environmental Planning Policy No. 65 – Design Quality of Residential Flat Development
State Environmental Planning Policy No. 70 – Affordable Housing (Revised Schemes)
State Environmental Planning Policy – SEPP (Housing for Seniors or People with a Disability) 2004
State Environmental Planning Policy – Building Sustainability Index: BASIX 2004
State Environmental Planning Policy – (Mining, Petroleum Production and Extractive Industries) 2007
State Environmental Planning Policy – (Infrastructure) 2007
State Environmental Planning Policy – (Temporary Structures) 2007
State Environmental Planning Policy – (Exempt and Complying Development Codes) 2008
State Environmental Planning Policy – (Repeal of Concurrence and Referral Provisions) 2008
State Environmental Planning Policy – (Affordable Rental Housing) 2009
State Environmental Planning Policy – (Vegetation in Non-Rural Areas) 2017
State Environmental Planning Policy – (Educational Establishments and Child Care Facilities) 2017
State Environmental Planning Policy – (Primary Production and Rural Development) 2019
State Environmental Planning Policy – (State and Regional Development) 2011
State Environmental Planning Policy – (Concurrences) 2018
State Environmental Planning Policy No. 21 – Caravan Parks

Sydney Regional Environmental Plan No. 9 – Extractive Industry (No. 2 – 1995)
Sydney Regional Environmental Plan (Sydney Harbour Catchment) 2005

- 2. The following proposed environmental planning instruments apply to the carrying out of development on the land and are or have been the subject of community consultation or on public exhibition under the Environmental Planning and Assessment Act 1979:**

No proposed environmental planning instruments apply

- 3. The following development control plans apply to the carrying out of development on the land:**

Cumberland Development Control Plan 2021

ITEM 2 - Zoning and land use under relevant LEPs**1. (a) Zoning details in the instruments identified in ITEM 1(1) above****Zone R4 High Density Residential****1. Objectives of zone**

- To provide for the housing needs of the community within a high density residential environment.
- To provide a variety of housing types within a high density residential environment.
- To enable other land uses that provide facilities or services to meet the day to day needs of residents.
- To ensure that non-residential land uses are located in a setting that minimises impacts on the amenity of a high density residential environment.
- To encourage residential development that maintains the amenity of the surrounding area.

2. Permitted without consent

Home occupations

3. Permitted with consent

Attached dwellings; Bed and breakfast accommodation; Boarding houses; Building identification signs; Business identification signs; Centre-based child care facilities; Community facilities; Home industries; Hostels; Kiosks; Multi dwelling housing; Neighbourhood shops; Oyster aquaculture; Places of public worship; Residential flat buildings; Respite day care centres; Roads; Seniors housing; Shop top housing; Water recycling facilities; Any other development not specified in item 2 or 4

4. Prohibited

Agriculture; Air transport facilities; Airstrips; Amusement centres; Animal boarding or training establishments; Boat building and repair facilities; Boat sheds; Camping grounds; Car parks; Caravan parks; Cemeteries; Charter and tourism boating facilities; Commercial premises; Correctional centres; Crematoria; Depots; Dwelling houses; Eco-tourist facilities; Electricity generating works; Entertainment facilities; Environmental facilities; Exhibition villages; Extractive industries; Farm buildings; Forestry; Freight transport facilities; Function centres; Heavy industrial storage establishments; Helipads; Highway service centres; Home occupations (sex services); Industrial retail outlets; Industrial training facilities; Industries; Information and education facilities; Marinas; Mooring pens; Moorings; Mortuaries; Open cut mining; Passenger transport facilities; Pond-based aquaculture; Port facilities; Recreation facilities (major); Registered clubs; Research stations; Residential accommodation; Restricted premises; Rural industries; Service stations; Sewerage systems; Sex services premises; Signage; Storage premises; Tank-based aquaculture; Tourist and visitor accommodation; Transport depots; Truck depots; Vehicle body repair workshops; Vehicle repair stations; Veterinary hospitals; Warehouse or distribution centres; Waste or resource management facilities; Water recreation structures; Water supply systems; Wharf or boating facilities; Wholesale supplies

Additional permitted uses

No additional uses apply

(b) Are there development standards applying to the land, which fix minimum land dimensions for the erection of a dwelling house on the land?

No fixed minimum land dimensions apply to this land

(c) Does the land include or comprise critical habitat?

The land does not include or comprise critical habitat

(d) Is the land within a heritage conservation area?

The land is not within a heritage conservation area

(e) Is there a heritage item situated on the land?

There are no heritage items situated on the land

2. (a) Zoning details in the instruments identified in ITEM 1(2) above

No draft zoning applies to the land

Additional permitted uses

No draft additional uses apply

(b) Are there development standards applying to the land, which fix minimum land dimensions for the erection of a dwelling house on the land?

No fixed minimum land dimensions apply to the land under a draft environmental planning instrument

(c) Does the land include or comprise critical habitat?

The land does not include or comprise critical habitat under a draft environmental planning instrument

(d) Is the land within a draft heritage conservation area?

The land is not within a draft heritage conservation area

(e) Is there a draft heritage item situated on the land?

There are no draft heritage items situated on the land

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

Is the land identified within any zone under Part 3 of State Environmental Planning Policy (Sydney Region Growth Centres) 2006, a Precinct Plan, or a Proposed Precinct Plan that is or has been the subject of community consultation or on public exhibition under the Act?

No

ITEM 3 – Complying Development Exclusions

Is the land, land on which complying development may be carried out under 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?

Complying development can be carried out subject to the land not being affected by flooding referred to in ITEM 7A(1).

Housing Code

Yes, under the Housing Code complying development may be carried out on the land.

Low Rise Housing Diversity Code

Yes, under the Low Rise Housing Diversity Code complying development may be carried out on the land.

Rural Housing Code

Yes, under the Rural Housing Code complying development may be carried out on the land.

Housing Alterations Code

Yes, under the Housing Alterations Code complying development may be carried out on the land.

General Development Code

Yes, under the General Development Code complying development may be carried out on the land.

Commercial and Industrial Alterations Code

Yes, under the General Commercial and Industrial Code complying development may be carried out on the land.

Commercial and Industrial (New Buildings and Additions) Code

Yes, under the General Commercial and Industrial (New Buildings and Additions) Code complying development may be carried out on the land.

Container Recycling Facilities Code

Yes, under the Container Recycling Facilities Code complying development may be carried out on the land.

Subdivisions Code

Yes, under the Subdivisions Code complying development may be carried out on the land.

Demolition Code

Yes, under the Demolition Code complying development may be carried out on the land.

Fire Safety Code

Yes, under the Fire Safety Code complying development may be carried out on the land.

ITEM 4 – (Repealed)

ITEM 4A – (Repealed)

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

Has the owner (or any previous owner) of the land 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

ITEM 5 – Mine subsidence

Is the land proclaimed to be in a mine subsidence district within the meaning of the Coal Mine Subsidence Compensation Act 2017?

No

ITEM 6 – Road widening and road realignment

Is the land affected by any road widening or road realignment under:

- (a) *Division 2 of Part 3 of the Roads Act 1993; or*
- (b) *Any environmental planning instrument; or*
- (c) *Any resolution of the Council?*

No

ITEM 7 – Council and other public authority policies on hazard risk restrictions

(a) Whether or not the land is affected by a policy adopted by the Council that restricts the development of the land because of the likelihood of:-

- | | | |
|-------|---------------------|----|
| (i) | land slip | No |
| (ii) | bushfire | No |
| (iii) | tidal inundation | No |
| (iv) | subsidence | No |
| (v) | acid sulphate soils | No |
| (vi) | land contamination | No |
| (vii) | Other Risk | No |

(b) Whether or not the land is affected by a policy adopted by any other public authority and notified to the Council for the express purpose of its adoption by that authority being referred to in planning certificates issued by the Council that restricts the development of the land because of the likelihood of:-

- | | | |
|-------|---------------------|----|
| (i) | land slip | No |
| (ii) | bushfire | No |
| (iii) | tidal inundation | No |
| (iv) | subsidence | No |
| (v) | acid sulphate soils | No |
| (vi) | land contamination | No |
| (vii) | Other Risk | No |

ITEM 7A – Flood related development controls information

1. *Is the land or part of the land within the flood planning area and subject to flood - related development controls.*

No

2. *Is the land or part of the land between the flood planning area and the probable maximum flood (PMF) and subject to flood-related development controls.*

No

3. *In this clause -*

flood planning area has the same meaning as in the Floodplain Development Manual.

Floodplain Development Manual means the Floodplain Development Manual (ISBN 0 7347 5476 0) published by the NSW Government in April 2005.

probable maximum flood has the same meaning as in the Floodplain Development Manual.

ITEM 8 – Land reserved for acquisition

Is there an environmental planning instrument, or proposed environmental planning instrument referred to in clause 1 which makes provision in relation to the acquisition of the land by a public authority, as referred to in section 3.15 of the Environmental Planning and Assessment Act 1979?

No

ITEM 9 – Contributions plans

The name of each contributions plan applying to the land is:-

Cumberland Local Infrastructure Contributions Plan 2020

ITEM 9A - Biodiversity certified land

Is the land biodiversity certified land under Part 8 of the Biodiversity Conservation Act 2016 (including land certified under Part 7AA of the Threatened Species Conservation Act 1995)?

No

ITEM 10 – Biodiversity stewardship sites

Has Council been notified by the Chief Executive of the Office of Environment and Heritage that the land is a biodiversity stewardship site under a biodiversity stewardship agreement under Part 5 of the Biodiversity Conservation Act 2016 (including biobanking agreements under Part 7A of the Threatened Species Conservation Act 1995)?

No

ITEM 10A – Native vegetation clearing set asides

Under section 60ZC of the Local Land Service Act 2013, has Council been notified by Local Land Services (or is it registered in the public register under that section) that the land contains a set aside area?

No

ITEM 11 – Bush fire prone land

- | | | |
|-----|--|-----|
| (a) | <i>All of the land is bush fire prone land.</i> | No |
| (b) | <i>Some of the land is bush fire prone land.</i> | No |
| (c) | <i>None of the land is bush fire prone land.</i> | Yes |

ITEM 12 – Property vegetation plans

Has Council been notified (by the person or body that approved the plan) of the existence of a property vegetation plan approved under Part 4 of the Native Vegetation Act 2003 (and that continues in force) applying to the land?

No

ITEM 13 – Orders under Trees (Disputes Between Neighbours) Act 2006

Has Council been notified that 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

ITEM 14 – Directions under Part 3A

Is there a direction by the Minister in force under section 75P (2) (c1) of the Environmental Planning and Assessment Act 1979 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

ITEM 15 – Site compatibility certificates and conditions for seniors housing

- (a) Has a current site compatibility certificate (seniors housing), of which the Council is aware, been issued under State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 in respect of proposed development on the land?
- No
- (b) Have any terms of a kind referred to in clause 18(2) of State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 been imposed as a condition of consent to a development application granted after 11 October 2007 in respect of the land?
- No

ITEM 16 – Site compatibility certificates for infrastructure, schools or TAFE establishments

Has a valid site compatibility certificate (infrastructure) or a site compatibility certificate (schools or TAFE establishments), of which the Council is aware, been issued?

No

ITEM 17 – Site compatibility certificates and conditions for affordable rental housing

1. *Has a current site compatibility certificate (affordable rental housing), of which the Council is aware, been issued in respect of proposed development on the land?*

No

2. *Have any terms of a kind referred to in clause 17(1) or 38(1) of State Environmental Planning Policy (Affordable Rental Housing) 2009 been imposed as a condition of consent to a development application in respect of the land?*

No

ITEM 18 – Paper subdivision information

Has a development plan been adopted that applies to the land or that is proposed to be subject to a consent ballot?

No

ITEM 19 – Site verification certificates

Has Council been made aware of a current site verification certificate that has been issued in respect of the land?

No

ITEM 20 – Loose – fill asbestos insulation

Has Council been notified that 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

ITEM 21 – Affected building notices and building product rectification orders

1. *Is any affected building notice in force in respect of the land?*

No

2. *Is any building product rectification order in force in respect of the land that has not been fully complied with?*

No

3. Has a notice of intention to make a building product rectification order been given in respect of that land that is outstanding?

No

ITEM 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.

The land is not affected.

NOTE 1 – Matters arising under the Contaminated Land Management Act 1997

Section 59(2) of the Contaminated Land Management Act 1997 prescribes the following additional matters to be specified in planning certificates:-

- (a) *At the date of this certificate, is the land (or part of the land) to which this certificate relates significantly contaminated land?*
No
- (b) *At the date of this certificate, is the land to which this certificate relates subject to a management order?*
No
- (c) *At the date of this certificate, is the land to which this certificate relates the subject of an approved voluntary management proposal?*
No
- (d) *At the date of this certificate, is the land to which this certificate relates subject to an ongoing maintenance order?*
No
- (e) *At the date of this certificate, is the land to which this certificate relates the subject of a site audit statement and a copy of such a statement has been provided to the Council?*
No

GENERAL INFORMATION

The absence of any reference to a matter affecting the land shall not imply that the land is not affected by that matter not referred to in this certificate.

Information provided under section 10.7(2) is in accordance with the matters prescribed under schedule 4 of the Environmental Planning and Assessment Regulation 2000 and is provided only to the extent that the Council has been notified by the Department of Public Works or Department of Planning.

When advice in accordance with section 10.7(5) is requested the Council is under no obligation to furnish any advice. If advice is provided Council draws your attention to section 10.7(6) and schedule 6 of the *Environmental Planning and Assessment Act 1979* which have the effect that Council shall not incur any liability in respect of advice provided in good faith pursuant to section 10.7(5), including the furnishing of advice in respect of contaminated land.

Any enquiries regarding State and Regional Environmental Planning Policies should be directed to the Department of Planning at <http://www.planning.nsw.gov.au>

Please contact Council's Strategic Planning section for further information about this Planning Certificate.

Peter J Fitzgerald
GENERAL MANAGER



APPLICANT: Lotsearch Pty Ltd
Level 3
68 Alfred Street
MILSONS POINT NSW 2061

PLANNING CERTIFICATE

Issued under section 10.7(2) Environmental Planning and Assessment Act 1979

Property: 139 Hawkesbury Road WESTMEAD NSW 2145
Title: SP 1871
Land No: 129263
Certificate No: PC2021/5682
Certificate Date: 18/11/2021
Applicant's Ref: LS026281

SECTION 10.7(2)

In accordance with the requirements of section 10.7(2) of the Environmental Planning and Assessment Act (1979) ("the Act"), the following prescribed matters relate to the land at the date of this certificate.

ITEM 1 - Names of relevant planning instruments and DCPs

- 1. The following environmental planning instruments apply to the carrying out of development on the land:**

Cumberland Local Environmental Plan 2021

State Environmental Planning Policy No. 19 – Bushland in Urban Areas
State Environmental Planning Policy No. 30 – Intensive Agriculture
State Environmental Planning Policy No. 33 – Hazardous and Offensive Development
State Environmental Planning Policy No. 50 – Canal Estates
State Environmental Planning Policy No. 55 – Remediation of Land
State Environmental Planning Policy No. 62 – Sustainable Aquaculture
State Environmental Planning Policy No. 64 – Advertising and Signage
State Environmental Planning Policy No. 65 – Design Quality of Residential Flat Development
State Environmental Planning Policy No. 70 – Affordable Housing (Revised Schemes)
State Environmental Planning Policy – SEPP (Housing for Seniors or People with a Disability) 2004
State Environmental Planning Policy – Building Sustainability Index: BASIX 2004
State Environmental Planning Policy – (Mining, Petroleum Production and Extractive Industries) 2007
State Environmental Planning Policy – (Infrastructure) 2007
State Environmental Planning Policy – (Temporary Structures) 2007
State Environmental Planning Policy – (Exempt and Complying Development Codes) 2008
State Environmental Planning Policy – (Repeal of Concurrence and Referral Provisions) 2008
State Environmental Planning Policy – (Affordable Rental Housing) 2009
State Environmental Planning Policy – (Vegetation in Non-Rural Areas) 2017
State Environmental Planning Policy – (Educational Establishments and Child Care Facilities) 2017
State Environmental Planning Policy – (Primary Production and Rural Development) 2019
State Environmental Planning Policy – (State and Regional Development) 2011
State Environmental Planning Policy – (Concurrences) 2018
State Environmental Planning Policy No. 21 – Caravan Parks

Sydney Regional Environmental Plan No. 9 – Extractive Industry (No. 2 – 1995)
Sydney Regional Environmental Plan (Sydney Harbour Catchment) 2005

- 2. The following proposed environmental planning instruments apply to the carrying out of development on the land and are or have been the subject of community consultation or on public exhibition under the Environmental Planning and Assessment Act 1979:**

No proposed environmental planning instruments apply

- 3. The following development control plans apply to the carrying out of development on the land:**

Cumberland Development Control Plan 2021

ITEM 2 - Zoning and land use under relevant LEPs**1. (a) Zoning details in the instruments identified in ITEM 1(1) above****Zone R4 High Density Residential****1. Objectives of zone**

- To provide for the housing needs of the community within a high density residential environment.
- To provide a variety of housing types within a high density residential environment.
- To enable other land uses that provide facilities or services to meet the day to day needs of residents.
- To ensure that non-residential land uses are located in a setting that minimises impacts on the amenity of a high density residential environment.
- To encourage residential development that maintains the amenity of the surrounding area.

2. Permitted without consent

Home occupations

3. Permitted with consent

Attached dwellings; Bed and breakfast accommodation; Boarding houses; Building identification signs; Business identification signs; Centre-based child care facilities; Community facilities; Home industries; Hostels; Kiosks; Multi dwelling housing; Neighbourhood shops; Oyster aquaculture; Places of public worship; Residential flat buildings; Respite day care centres; Roads; Seniors housing; Shop top housing; Water recycling facilities; Any other development not specified in item 2 or 4

4. Prohibited

Agriculture; Air transport facilities; Airstrips; Amusement centres; Animal boarding or training establishments; Boat building and repair facilities; Boat sheds; Camping grounds; Car parks; Caravan parks; Cemeteries; Charter and tourism boating facilities; Commercial premises; Correctional centres; Crematoria; Depots; Dwelling houses; Eco-tourist facilities; Electricity generating works; Entertainment facilities; Environmental facilities; Exhibition villages; Extractive industries; Farm buildings; Forestry; Freight transport facilities; Function centres; Heavy industrial storage establishments; Helipads; Highway service centres; Home occupations (sex services); Industrial retail outlets; Industrial training facilities; Industries; Information and education facilities; Marinas; Mooring pens; Moorings; Mortuaries; Open cut mining; Passenger transport facilities; Pond-based aquaculture; Port facilities; Recreation facilities (major); Registered clubs; Research stations; Residential accommodation; Restricted premises; Rural industries; Service stations; Sewerage systems; Sex services premises; Signage; Storage premises; Tank-based aquaculture; Tourist and visitor accommodation; Transport depots; Truck depots; Vehicle body repair workshops; Vehicle repair stations; Veterinary hospitals; Warehouse or distribution centres; Waste or resource management facilities; Water recreation structures; Water supply systems; Wharf or boating facilities; Wholesale supplies

Additional permitted uses

No additional uses apply

(b) Are there development standards applying to the land, which fix minimum land dimensions for the erection of a dwelling house on the land?

No fixed minimum land dimensions apply to this land

(c) Does the land include or comprise critical habitat?

The land does not include or comprise critical habitat

(d) Is the land within a heritage conservation area?

The land is not within a heritage conservation area

(e) Is there a heritage item situated on the land?

There are no heritage items situated on the land

2. (a) Zoning details in the instruments identified in ITEM 1(2) above

No draft zoning applies to the land

Additional permitted uses

No draft additional uses apply

(b) Are there development standards applying to the land, which fix minimum land dimensions for the erection of a dwelling house on the land?

No fixed minimum land dimensions apply to the land under a draft environmental planning instrument

(c) Does the land include or comprise critical habitat?

The land does not include or comprise critical habitat under a draft environmental planning instrument

(d) Is the land within a draft heritage conservation area?

The land is not within a draft heritage conservation area

(e) Is there a draft heritage item situated on the land?

There are no draft heritage items situated on the land

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

Is the land identified within any zone under Part 3 of State Environmental Planning Policy (Sydney Region Growth Centres) 2006, a Precinct Plan, or a Proposed Precinct Plan that is or has been the subject of community consultation or on public exhibition under the Act?

No

ITEM 3 – Complying Development Exclusions

Is the land, land on which complying development may be carried out under 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?

Complying development can be carried out subject to the land not being affected by flooding referred to in ITEM 7A(1).

Housing Code

Yes, under the Housing Code complying development may be carried out on the land.

Low Rise Housing Diversity Code

Yes, under the Low Rise Housing Diversity Code complying development may be carried out on the land.

Rural Housing Code

Yes, under the Rural Housing Code complying development may be carried out on the land.

Housing Alterations Code

Yes, under the Housing Alterations Code complying development may be carried out on the land.

General Development Code

Yes, under the General Development Code complying development may be carried out on the land.

Commercial and Industrial Alterations Code

Yes, under the General Commercial and Industrial Code complying development may be carried out on the land.

Commercial and Industrial (New Buildings and Additions) Code

Yes, under the General Commercial and Industrial (New Buildings and Additions) Code complying development may be carried out on the land.

Container Recycling Facilities Code

Yes, under the Container Recycling Facilities Code complying development may be carried out on the land.

Subdivisions Code

Yes, under the Subdivisions Code complying development may be carried out on the land.

Demolition Code

Yes, under the Demolition Code complying development may be carried out on the land.

Fire Safety Code

Yes, under the Fire Safety Code complying development may be carried out on the land.

ITEM 4 – (Repealed)

ITEM 4A – (Repealed)

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

Has the owner (or any previous owner) of the land 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

ITEM 5 – Mine subsidence

Is the land proclaimed to be in a mine subsidence district within the meaning of the Coal Mine Subsidence Compensation Act 2017?

No

ITEM 6 – Road widening and road realignment

Is the land affected by any road widening or road realignment under:

- (a) *Division 2 of Part 3 of the Roads Act 1993; or*
- (b) *Any environmental planning instrument; or*
- (c) *Any resolution of the Council?*

No

ITEM 7 – Council and other public authority policies on hazard risk restrictions

(a) Whether or not the land is affected by a policy adopted by the Council that restricts the development of the land because of the likelihood of:-

- | | | |
|-------|---------------------|----|
| (i) | land slip | No |
| (ii) | bushfire | No |
| (iii) | tidal inundation | No |
| (iv) | subsidence | No |
| (v) | acid sulphate soils | No |
| (vi) | land contamination | No |
| (vii) | Other Risk | No |

(b) Whether or not the land is affected by a policy adopted by any other public authority and notified to the Council for the express purpose of its adoption by that authority being referred to in planning certificates issued by the Council that restricts the development of the land because of the likelihood of:-

- | | | |
|-------|---------------------|----|
| (i) | land slip | No |
| (ii) | bushfire | No |
| (iii) | tidal inundation | No |
| (iv) | subsidence | No |
| (v) | acid sulphate soils | No |
| (vi) | land contamination | No |
| (vii) | Other Risk | No |

ITEM 7A – Flood related development controls information

1. *Is the land or part of the land within the flood planning area and subject to flood - related development controls.*

No

2. *Is the land or part of the land between the flood planning area and the probable maximum flood (PMF) and subject to flood-related development controls.*

No

3. *In this clause -*

flood planning area has the same meaning as in the Floodplain Development Manual.

Floodplain Development Manual means the Floodplain Development Manual (ISBN 0 7347 5476 0) published by the NSW Government in April 2005.

probable maximum flood has the same meaning as in the Floodplain Development Manual.

ITEM 8 – Land reserved for acquisition

Is there an environmental planning instrument, or proposed environmental planning instrument referred to in clause 1 which makes provision in relation to the acquisition of the land by a public authority, as referred to in section 3.15 of the Environmental Planning and Assessment Act 1979?

No

ITEM 9 – Contributions plans

The name of each contributions plan applying to the land is:-

Cumberland Local Infrastructure Contributions Plan 2020

ITEM 9A - Biodiversity certified land

Is the land biodiversity certified land under Part 8 of the Biodiversity Conservation Act 2016 (including land certified under Part 7AA of the Threatened Species Conservation Act 1995)?

No

ITEM 10 – Biodiversity stewardship sites

Has Council been notified by the Chief Executive of the Office of Environment and Heritage that the land is a biodiversity stewardship site under a biodiversity stewardship agreement under Part 5 of the Biodiversity Conservation Act 2016 (including biobanking agreements under Part 7A of the Threatened Species Conservation Act 1995)?

No

ITEM 10A – Native vegetation clearing set asides

Under section 60ZC of the Local Land Service Act 2013, has Council been notified by Local Land Services (or is it registered in the public register under that section) that the land contains a set aside area?

No

ITEM 11 – Bush fire prone land

- | | | |
|-----|--|-----|
| (a) | <i>All of the land is bush fire prone land.</i> | No |
| (b) | <i>Some of the land is bush fire prone land.</i> | No |
| (c) | <i>None of the land is bush fire prone land.</i> | Yes |

ITEM 12 – Property vegetation plans

Has Council been notified (by the person or body that approved the plan) of the existence of a property vegetation plan approved under Part 4 of the Native Vegetation Act 2003 (and that continues in force) applying to the land?

No

ITEM 13 – Orders under Trees (Disputes Between Neighbours) Act 2006

Has Council been notified that 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

ITEM 14 – Directions under Part 3A

Is there a direction by the Minister in force under section 75P (2) (c1) of the Environmental Planning and Assessment Act 1979 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

ITEM 15 – Site compatibility certificates and conditions for seniors housing

- (a) Has a current site compatibility certificate (seniors housing), of which the Council is aware, been issued under State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 in respect of proposed development on the land?
- No
- (b) Have any terms of a kind referred to in clause 18(2) of State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 been imposed as a condition of consent to a development application granted after 11 October 2007 in respect of the land?
- No

ITEM 16 – Site compatibility certificates for infrastructure, schools or TAFE establishments

Has a valid site compatibility certificate (infrastructure) or a site compatibility certificate (schools or TAFE establishments), of which the Council is aware, been issued?

No

ITEM 17 – Site compatibility certificates and conditions for affordable rental housing

1. *Has a current site compatibility certificate (affordable rental housing), of which the Council is aware, been issued in respect of proposed development on the land?*

No

2. *Have any terms of a kind referred to in clause 17(1) or 38(1) of State Environmental Planning Policy (Affordable Rental Housing) 2009 been imposed as a condition of consent to a development application in respect of the land?*

No

ITEM 18 – Paper subdivision information

Has a development plan been adopted that applies to the land or that is proposed to be subject to a consent ballot?

No

ITEM 19 – Site verification certificates

Has Council been made aware of a current site verification certificate that has been issued in respect of the land?

No

ITEM 20 – Loose – fill asbestos insulation

Has Council been notified that 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

ITEM 21 – Affected building notices and building product rectification orders

1. *Is any affected building notice in force in respect of the land?*

No

2. *Is any building product rectification order in force in respect of the land that has not been fully complied with?*

No

3. Has a notice of intention to make a building product rectification order been given in respect of that land that is outstanding?

No

ITEM 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.

The land is not affected.

NOTE 1 – Matters arising under the Contaminated Land Management Act 1997

Section 59(2) of the Contaminated Land Management Act 1997 prescribes the following additional matters to be specified in planning certificates:-

- (a) *At the date of this certificate, is the land (or part of the land) to which this certificate relates significantly contaminated land?*
No
- (b) *At the date of this certificate, is the land to which this certificate relates subject to a management order?*
No
- (c) *At the date of this certificate, is the land to which this certificate relates the subject of an approved voluntary management proposal?*
No
- (d) *At the date of this certificate, is the land to which this certificate relates subject to an ongoing maintenance order?*
No
- (e) *At the date of this certificate, is the land to which this certificate relates the subject of a site audit statement and a copy of such a statement has been provided to the Council?*
No

GENERAL INFORMATION

The absence of any reference to a matter affecting the land shall not imply that the land is not affected by that matter not referred to in this certificate.

Information provided under section 10.7(2) is in accordance with the matters prescribed under schedule 4 of the Environmental Planning and Assessment Regulation 2000 and is provided only to the extent that the Council has been notified by the Department of Public Works or Department of Planning.

When advice in accordance with section 10.7(5) is requested the Council is under no obligation to furnish any advice. If advice is provided Council draws your attention to section 10.7(6) and schedule 6 of the *Environmental Planning and Assessment Act 1979* which have the effect that Council shall not incur any liability in respect of advice provided in good faith pursuant to section 10.7(5), including the furnishing of advice in respect of contaminated land.

Any enquiries regarding State and Regional Environmental Planning Policies should be directed to the Department of Planning at <http://www.planning.nsw.gov.au>

Please contact Council's Strategic Planning section for further information about this Planning Certificate.

Peter J Fitzgerald
GENERAL MANAGER



APPLICANT: Lotsearch Pty Ltd
Level 3
68 Alfred Street
MILSONS POINT NSW 2061

PLANNING CERTIFICATE

Issued under section 10.7(2) Environmental Planning and Assessment Act 1979

Property: 27-29 Bailey Street WESTMEAD NSW 2145
Title: SP 51391
Land No: 122548
Certificate No: PC2021/5679
Certificate Date: 18/11/2021
Applicant's Ref: LS026281

SECTION 10.7(2)

In accordance with the requirements of section 10.7(2) of the Environmental Planning and Assessment Act (1979) ("the Act"), the following prescribed matters relate to the land at the date of this certificate.

ITEM 1 - Names of relevant planning instruments and DCPs

1. ***The following environmental planning instruments apply to the carrying out of development on the land:***

Cumberland Local Environmental Plan 2021

State Environmental Planning Policy No. 19 – Bushland in Urban Areas
State Environmental Planning Policy No. 30 – Intensive Agriculture
State Environmental Planning Policy No. 33 – Hazardous and Offensive Development
State Environmental Planning Policy No. 50 – Canal Estates
State Environmental Planning Policy No. 55 – Remediation of Land
State Environmental Planning Policy No. 62 – Sustainable Aquaculture
State Environmental Planning Policy No. 64 – Advertising and Signage
State Environmental Planning Policy No. 65 – Design Quality of Residential Flat Development
State Environmental Planning Policy No. 70 – Affordable Housing (Revised Schemes)
State Environmental Planning Policy – SEPP (Housing for Seniors or People with a Disability) 2004
State Environmental Planning Policy – Building Sustainability Index: BASIX 2004
State Environmental Planning Policy – (Mining, Petroleum Production and Extractive Industries) 2007
State Environmental Planning Policy – (Infrastructure) 2007
State Environmental Planning Policy – (Temporary Structures) 2007
State Environmental Planning Policy – (Exempt and Complying Development Codes) 2008
State Environmental Planning Policy – (Repeal of Concurrence and Referral Provisions) 2008
State Environmental Planning Policy – (Affordable Rental Housing) 2009
State Environmental Planning Policy – (Vegetation in Non-Rural Areas) 2017
State Environmental Planning Policy – (Educational Establishments and Child Care Facilities) 2017
State Environmental Planning Policy – (Primary Production and Rural Development) 2019
State Environmental Planning Policy – (State and Regional Development) 2011
State Environmental Planning Policy – (Concurrences) 2018
State Environmental Planning Policy No. 21 – Caravan Parks

Sydney Regional Environmental Plan No. 9 – Extractive Industry (No. 2 – 1995)
Sydney Regional Environmental Plan (Sydney Harbour Catchment) 2005

2. ***The following proposed environmental planning instruments apply to the carrying out of development on the land and are or have been the subject of community consultation or on public exhibition under the Environmental Planning and Assessment Act 1979:***

No proposed environmental planning instruments apply

3. ***The following development control plans apply to the carrying out of development on the land:***

Cumberland Development Control Plan 2021

ITEM 2 - Zoning and land use under relevant LEPs**1. (a) Zoning details in the instruments identified in ITEM 1(1) above****Zone R4 High Density Residential****1. Objectives of zone**

- To provide for the housing needs of the community within a high density residential environment.
- To provide a variety of housing types within a high density residential environment.
- To enable other land uses that provide facilities or services to meet the day to day needs of residents.
- To ensure that non-residential land uses are located in a setting that minimises impacts on the amenity of a high density residential environment.
- To encourage residential development that maintains the amenity of the surrounding area.

2. Permitted without consent

Home occupations

3. Permitted with consent

Attached dwellings; Bed and breakfast accommodation; Boarding houses; Building identification signs; Business identification signs; Centre-based child care facilities; Community facilities; Home industries; Hostels; Kiosks; Multi dwelling housing; Neighbourhood shops; Oyster aquaculture; Places of public worship; Residential flat buildings; Respite day care centres; Roads; Seniors housing; Shop top housing; Water recycling facilities; Any other development not specified in item 2 or 4

4. Prohibited

Agriculture; Air transport facilities; Airstrips; Amusement centres; Animal boarding or training establishments; Boat building and repair facilities; Boat sheds; Camping grounds; Car parks; Caravan parks; Cemeteries; Charter and tourism boating facilities; Commercial premises; Correctional centres; Crematoria; Depots; Dwelling houses; Eco-tourist facilities; Electricity generating works; Entertainment facilities; Environmental facilities; Exhibition villages; Extractive industries; Farm buildings; Forestry; Freight transport facilities; Function centres; Heavy industrial storage establishments; Helipads; Highway service centres; Home occupations (sex services); Industrial retail outlets; Industrial training facilities; Industries; Information and education facilities; Marinas; Mooring pens; Moorings; Mortuaries; Open cut mining; Passenger transport facilities; Pond-based aquaculture; Port facilities; Recreation facilities (major); Registered clubs; Research stations; Residential accommodation; Restricted premises; Rural industries; Service stations; Sewerage systems; Sex services premises; Signage; Storage premises; Tank-based aquaculture; Tourist and visitor accommodation; Transport depots; Truck depots; Vehicle body repair workshops; Vehicle repair stations; Veterinary hospitals; Warehouse or distribution centres; Waste or resource management facilities; Water recreation structures; Water supply systems; Wharf or boating facilities; Wholesale supplies

Additional permitted uses

No additional uses apply

(b) Are there development standards applying to the land, which fix minimum land dimensions for the erection of a dwelling house on the land?

No fixed minimum land dimensions apply to this land

(c) Does the land include or comprise critical habitat?

The land does not include or comprise critical habitat

(d) Is the land within a heritage conservation area?

The land is not within a heritage conservation area

(e) Is there a heritage item situated on the land?

There are no heritage items situated on the land

2. (a) Zoning details in the instruments identified in ITEM 1(2) above

No draft zoning applies to the land

Additional permitted uses

No draft additional uses apply

(b) Are there development standards applying to the land, which fix minimum land dimensions for the erection of a dwelling house on the land?

No fixed minimum land dimensions apply to the land under a draft environmental planning instrument

(c) Does the land include or comprise critical habitat?

The land does not include or comprise critical habitat under a draft environmental planning instrument

(d) Is the land within a draft heritage conservation area?

The land is not within a draft heritage conservation area

(e) Is there a draft heritage item situated on the land?

There are no draft heritage items situated on the land

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

Is the land identified within any zone under Part 3 of State Environmental Planning Policy (Sydney Region Growth Centres) 2006, a Precinct Plan, or a Proposed Precinct Plan that is or has been the subject of community consultation or on public exhibition under the Act?

No

ITEM 3 – Complying Development Exclusions

Is the land, land on which complying development may be carried out under 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?

Complying development can be carried out subject to the land not being affected by flooding referred to in ITEM 7A(1).

Housing Code

Yes, under the Housing Code complying development may be carried out on the land.

Low Rise Housing Diversity Code

Yes, under the Low Rise Housing Diversity Code complying development may be carried out on the land.

Rural Housing Code

Yes, under the Rural Housing Code complying development may be carried out on the land.

Housing Alterations Code

Yes, under the Housing Alterations Code complying development may be carried out on the land.

General Development Code

Yes, under the General Development Code complying development may be carried out on the land.

Commercial and Industrial Alterations Code

Yes, under the General Commercial and Industrial Code complying development may be carried out on the land.

Commercial and Industrial (New Buildings and Additions) Code

Yes, under the General Commercial and Industrial (New Buildings and Additions) Code complying development may be carried out on the land.

Container Recycling Facilities Code

Yes, under the Container Recycling Facilities Code complying development may be carried out on the land.

Subdivisions Code

Yes, under the Subdivisions Code complying development may be carried out on the land.

Demolition Code

Yes, under the Demolition Code complying development may be carried out on the land.

Fire Safety Code

Yes, under the Fire Safety Code complying development may be carried out on the land.

ITEM 4 – (Repealed)

ITEM 4A – (Repealed)

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

Has the owner (or any previous owner) of the land 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

ITEM 5 – Mine subsidence

Is the land proclaimed to be in a mine subsidence district within the meaning of the Coal Mine Subsidence Compensation Act 2017?

No

ITEM 6 – Road widening and road realignment

Is the land affected by any road widening or road realignment under:

- (a) *Division 2 of Part 3 of the Roads Act 1993; or*
- (b) *Any environmental planning instrument; or*
- (c) *Any resolution of the Council?*

No

ITEM 7 – Council and other public authority policies on hazard risk restrictions

(a) Whether or not the land is affected by a policy adopted by the Council that restricts the development of the land because of the likelihood of:-

- | | | |
|-------|---------------------|----|
| (i) | land slip | No |
| (ii) | bushfire | No |
| (iii) | tidal inundation | No |
| (iv) | subsidence | No |
| (v) | acid sulphate soils | No |
| (vi) | land contamination | No |
| (vii) | Other Risk | No |

(b) Whether or not the land is affected by a policy adopted by any other public authority and notified to the Council for the express purpose of its adoption by that authority being referred to in planning certificates issued by the Council that restricts the development of the land because of the likelihood of:-

- | | | |
|-------|---------------------|----|
| (i) | land slip | No |
| (ii) | bushfire | No |
| (iii) | tidal inundation | No |
| (iv) | subsidence | No |
| (v) | acid sulphate soils | No |
| (vi) | land contamination | No |
| (vii) | Other Risk | No |

ITEM 7A – Flood related development controls information

1. *Is the land or part of the land within the flood planning area and subject to flood - related development controls.*

No

2. *Is the land or part of the land between the flood planning area and the probable maximum flood (PMF) and subject to flood-related development controls.*

No

3. *In this clause -*

flood planning area has the same meaning as in the Floodplain Development Manual.

Floodplain Development Manual means the Floodplain Development Manual (ISBN 0 7347 5476 0) published by the NSW Government in April 2005.

probable maximum flood has the same meaning as in the Floodplain Development Manual.

ITEM 8 – Land reserved for acquisition

Is there an environmental planning instrument, or proposed environmental planning instrument referred to in clause 1 which makes provision in relation to the acquisition of the land by a public authority, as referred to in section 3.15 of the Environmental Planning and Assessment Act 1979?

No

ITEM 9 – Contributions plans

The name of each contributions plan applying to the land is:-

Cumberland Local Infrastructure Contributions Plan 2020

ITEM 9A - Biodiversity certified land

Is the land biodiversity certified land under Part 8 of the Biodiversity Conservation Act 2016 (including land certified under Part 7AA of the Threatened Species Conservation Act 1995)?

No

ITEM 10 – Biodiversity stewardship sites

Has Council been notified by the Chief Executive of the Office of Environment and Heritage that the land is a biodiversity stewardship site under a biodiversity stewardship agreement under Part 5 of the Biodiversity Conservation Act 2016 (including biobanking agreements under Part 7A of the Threatened Species Conservation Act 1995)?

No

ITEM 10A – Native vegetation clearing set asides

Under section 60ZC of the Local Land Service Act 2013, has Council been notified by Local Land Services (or is it registered in the public register under that section) that the land contains a set aside area?

No

ITEM 11 – Bush fire prone land

- | | | |
|-----|--|-----|
| (a) | <i>All of the land is bush fire prone land.</i> | No |
| (b) | <i>Some of the land is bush fire prone land.</i> | No |
| (c) | <i>None of the land is bush fire prone land.</i> | Yes |

ITEM 12 – Property vegetation plans

Has Council been notified (by the person or body that approved the plan) of the existence of a property vegetation plan approved under Part 4 of the Native Vegetation Act 2003 (and that continues in force) applying to the land?

No

ITEM 13 – Orders under Trees (Disputes Between Neighbours) Act 2006

Has Council been notified that 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

ITEM 14 – Directions under Part 3A

Is there a direction by the Minister in force under section 75P (2) (c1) of the Environmental Planning and Assessment Act 1979 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

ITEM 15 – Site compatibility certificates and conditions for seniors housing

- (a) Has a current site compatibility certificate (seniors housing), of which the Council is aware, been issued under State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 in respect of proposed development on the land?
- No
- (b) Have any terms of a kind referred to in clause 18(2) of State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 been imposed as a condition of consent to a development application granted after 11 October 2007 in respect of the land?
- No

ITEM 16 – Site compatibility certificates for infrastructure, schools or TAFE establishments

Has a valid site compatibility certificate (infrastructure) or a site compatibility certificate (schools or TAFE establishments), of which the Council is aware, been issued?

No

ITEM 17 – Site compatibility certificates and conditions for affordable rental housing

1. *Has a current site compatibility certificate (affordable rental housing), of which the Council is aware, been issued in respect of proposed development on the land?*

No

2. *Have any terms of a kind referred to in clause 17(1) or 38(1) of State Environmental Planning Policy (Affordable Rental Housing) 2009 been imposed as a condition of consent to a development application in respect of the land?*

No

ITEM 18 – Paper subdivision information

Has a development plan been adopted that applies to the land or that is proposed to be subject to a consent ballot?

No

ITEM 19 – Site verification certificates

Has Council been made aware of a current site verification certificate that has been issued in respect of the land?

No

ITEM 20 – Loose – fill asbestos insulation

Has Council been notified that 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

ITEM 21 – Affected building notices and building product rectification orders

1. *Is any affected building notice in force in respect of the land?*

No

2. *Is any building product rectification order in force in respect of the land that has not been fully complied with?*

No

3. Has a notice of intention to make a building product rectification order been given in respect of that land that is outstanding?

No

ITEM 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.

The land is not affected.

NOTE 1 – Matters arising under the Contaminated Land Management Act 1997

Section 59(2) of the Contaminated Land Management Act 1997 prescribes the following additional matters to be specified in planning certificates:-

- (a) *At the date of this certificate, is the land (or part of the land) to which this certificate relates significantly contaminated land?*
No
- (b) *At the date of this certificate, is the land to which this certificate relates subject to a management order?*
No
- (c) *At the date of this certificate, is the land to which this certificate relates the subject of an approved voluntary management proposal?*
No
- (d) *At the date of this certificate, is the land to which this certificate relates subject to an ongoing maintenance order?*
No
- (e) *At the date of this certificate, is the land to which this certificate relates the subject of a site audit statement and a copy of such a statement has been provided to the Council?*
No

GENERAL INFORMATION

The absence of any reference to a matter affecting the land shall not imply that the land is not affected by that matter not referred to in this certificate.

Information provided under section 10.7(2) is in accordance with the matters prescribed under schedule 4 of the Environmental Planning and Assessment Regulation 2000 and is provided only to the extent that the Council has been notified by the Department of Public Works or Department of Planning.

When advice in accordance with section 10.7(5) is requested the Council is under no obligation to furnish any advice. If advice is provided Council draws your attention to section 10.7(6) and schedule 6 of the *Environmental Planning and Assessment Act 1979* which have the effect that Council shall not incur any liability in respect of advice provided in good faith pursuant to section 10.7(5), including the furnishing of advice in respect of contaminated land.

Any enquiries regarding State and Regional Environmental Planning Policies should be directed to the Department of Planning at <http://www.planning.nsw.gov.au>

Please contact Council's Strategic Planning section for further information about this Planning Certificate.

Peter J Fitzgerald
GENERAL MANAGER



APPLICANT: Lotsearch Pty Ltd
Level 3
68 Alfred Street
MILSONS POINT NSW 2061

PLANNING CERTIFICATE

Issued under section 10.7(2) Environmental Planning and Assessment Act 1979

Property: 15-19 Hassall Street WESTMEAD NSW 2145
Title: SP 61570
Land No: 127384
Certificate No: PC2021/5681
Certificate Date: 18/11/2021
Applicant's Ref: LS026281

SECTION 10.7(2)

In accordance with the requirements of section 10.7(2) of the Environmental Planning and Assessment Act (1979) ("the Act"), the following prescribed matters relate to the land at the date of this certificate.

ITEM 1 - Names of relevant planning instruments and DCPs

- 1. The following environmental planning instruments apply to the carrying out of development on the land:**

Cumberland Local Environmental Plan 2021

State Environmental Planning Policy No. 19 – Bushland in Urban Areas
State Environmental Planning Policy No. 30 – Intensive Agriculture
State Environmental Planning Policy No. 33 – Hazardous and Offensive Development
State Environmental Planning Policy No. 50 – Canal Estates
State Environmental Planning Policy No. 55 – Remediation of Land
State Environmental Planning Policy No. 62 – Sustainable Aquaculture
State Environmental Planning Policy No. 64 – Advertising and Signage
State Environmental Planning Policy No. 65 – Design Quality of Residential Flat Development
State Environmental Planning Policy No. 70 – Affordable Housing (Revised Schemes)
State Environmental Planning Policy – SEPP (Housing for Seniors or People with a Disability) 2004
State Environmental Planning Policy – Building Sustainability Index: BASIX 2004
State Environmental Planning Policy – (Mining, Petroleum Production and Extractive Industries) 2007
State Environmental Planning Policy – (Infrastructure) 2007
State Environmental Planning Policy – (Temporary Structures) 2007
State Environmental Planning Policy – (Exempt and Complying Development Codes) 2008
State Environmental Planning Policy – (Repeal of Concurrence and Referral Provisions) 2008
State Environmental Planning Policy – (Affordable Rental Housing) 2009
State Environmental Planning Policy – (Vegetation in Non-Rural Areas) 2017
State Environmental Planning Policy – (Educational Establishments and Child Care Facilities) 2017
State Environmental Planning Policy – (Primary Production and Rural Development) 2019
State Environmental Planning Policy – (State and Regional Development) 2011
State Environmental Planning Policy – (Concurrences) 2018
State Environmental Planning Policy No. 21 – Caravan Parks

Sydney Regional Environmental Plan No. 9 – Extractive Industry (No. 2 – 1995)
Sydney Regional Environmental Plan (Sydney Harbour Catchment) 2005

- 2. The following proposed environmental planning instruments apply to the carrying out of development on the land and are or have been the subject of community consultation or on public exhibition under the Environmental Planning and Assessment Act 1979:**

No proposed environmental planning instruments apply

- 3. The following development control plans apply to the carrying out of development on the land:**

Cumberland Development Control Plan 2021

ITEM 2 - Zoning and land use under relevant LEPs**1. (a) Zoning details in the instruments identified in ITEM 1(1) above****Zone R4 High Density Residential****1. Objectives of zone**

- To provide for the housing needs of the community within a high density residential environment.
- To provide a variety of housing types within a high density residential environment.
- To enable other land uses that provide facilities or services to meet the day to day needs of residents.
- To ensure that non-residential land uses are located in a setting that minimises impacts on the amenity of a high density residential environment.
- To encourage residential development that maintains the amenity of the surrounding area.

2. Permitted without consent

Home occupations

3. Permitted with consent

Attached dwellings; Bed and breakfast accommodation; Boarding houses; Building identification signs; Business identification signs; Centre-based child care facilities; Community facilities; Home industries; Hostels; Kiosks; Multi dwelling housing; Neighbourhood shops; Oyster aquaculture; Places of public worship; Residential flat buildings; Respite day care centres; Roads; Seniors housing; Shop top housing; Water recycling facilities; Any other development not specified in item 2 or 4

4. Prohibited

Agriculture; Air transport facilities; Airstrips; Amusement centres; Animal boarding or training establishments; Boat building and repair facilities; Boat sheds; Camping grounds; Car parks; Caravan parks; Cemeteries; Charter and tourism boating facilities; Commercial premises; Correctional centres; Crematoria; Depots; Dwelling houses; Eco-tourist facilities; Electricity generating works; Entertainment facilities; Environmental facilities; Exhibition villages; Extractive industries; Farm buildings; Forestry; Freight transport facilities; Function centres; Heavy industrial storage establishments; Helipads; Highway service centres; Home occupations (sex services); Industrial retail outlets; Industrial training facilities; Industries; Information and education facilities; Marinas; Mooring pens; Moorings; Mortuaries; Open cut mining; Passenger transport facilities; Pond-based aquaculture; Port facilities; Recreation facilities (major); Registered clubs; Research stations; Residential accommodation; Restricted premises; Rural industries; Service stations; Sewerage systems; Sex services premises; Signage; Storage premises; Tank-based aquaculture; Tourist and visitor accommodation; Transport depots; Truck depots; Vehicle body repair workshops; Vehicle repair stations; Veterinary hospitals; Warehouse or distribution centres; Waste or resource management facilities; Water recreation structures; Water supply systems; Wharf or boating facilities; Wholesale supplies

Additional permitted uses

No additional uses apply

(b) Are there development standards applying to the land, which fix minimum land dimensions for the erection of a dwelling house on the land?

No fixed minimum land dimensions apply to this land

(c) Does the land include or comprise critical habitat?

The land does not include or comprise critical habitat

(d) Is the land within a heritage conservation area?

The land is not within a heritage conservation area

(e) Is there a heritage item situated on the land?

There are no heritage items situated on the land

2. (a) Zoning details in the instruments identified in ITEM 1(2) above

No draft zoning applies to the land

Additional permitted uses

No draft additional uses apply

(b) Are there development standards applying to the land, which fix minimum land dimensions for the erection of a dwelling house on the land?

No fixed minimum land dimensions apply to the land under a draft environmental planning instrument

(c) Does the land include or comprise critical habitat?

The land does not include or comprise critical habitat under a draft environmental planning instrument

(d) Is the land within a draft heritage conservation area?

The land is not within a draft heritage conservation area

(e) Is there a draft heritage item situated on the land?

There are no draft heritage items situated on the land

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

Is the land identified within any zone under Part 3 of State Environmental Planning Policy (Sydney Region Growth Centres) 2006, a Precinct Plan, or a Proposed Precinct Plan that is or has been the subject of community consultation or on public exhibition under the Act?

No

ITEM 3 – Complying Development Exclusions

Is the land, land on which complying development may be carried out under 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?

Complying development can be carried out subject to the land not being affected by flooding referred to in ITEM 7A(1).

Housing Code

Yes, under the Housing Code complying development may be carried out on the land.

Low Rise Housing Diversity Code

Yes, under the Low Rise Housing Diversity Code complying development may be carried out on the land.

Rural Housing Code

Yes, under the Rural Housing Code complying development may be carried out on the land.

Housing Alterations Code

Yes, under the Housing Alterations Code complying development may be carried out on the land.

General Development Code

Yes, under the General Development Code complying development may be carried out on the land.

Commercial and Industrial Alterations Code

Yes, under the General Commercial and Industrial Code complying development may be carried out on the land.

Commercial and Industrial (New Buildings and Additions) Code

Yes, under the General Commercial and Industrial (New Buildings and Additions) Code complying development may be carried out on the land.

Container Recycling Facilities Code

Yes, under the Container Recycling Facilities Code complying development may be carried out on the land.

Subdivisions Code

Yes, under the Subdivisions Code complying development may be carried out on the land.

Demolition Code

Yes, under the Demolition Code complying development may be carried out on the land.

Fire Safety Code

Yes, under the Fire Safety Code complying development may be carried out on the land.

ITEM 4 – (Repealed)

ITEM 4A – (Repealed)

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

Has the owner (or any previous owner) of the land 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

ITEM 5 – Mine subsidence

Is the land proclaimed to be in a mine subsidence district within the meaning of the Coal Mine Subsidence Compensation Act 2017?

No

ITEM 6 – Road widening and road realignment

Is the land affected by any road widening or road realignment under:

- (a) *Division 2 of Part 3 of the Roads Act 1993; or*
- (b) *Any environmental planning instrument; or*
- (c) *Any resolution of the Council?*

No

ITEM 7 – Council and other public authority policies on hazard risk restrictions

(a) Whether or not the land is affected by a policy adopted by the Council that restricts the development of the land because of the likelihood of:-

- | | | |
|-------|---------------------|----|
| (i) | land slip | No |
| (ii) | bushfire | No |
| (iii) | tidal inundation | No |
| (iv) | subsidence | No |
| (v) | acid sulphate soils | No |
| (vi) | land contamination | No |
| (vii) | Other Risk | No |

(b) Whether or not the land is affected by a policy adopted by any other public authority and notified to the Council for the express purpose of its adoption by that authority being referred to in planning certificates issued by the Council that restricts the development of the land because of the likelihood of:-

- | | | |
|-------|---------------------|----|
| (i) | land slip | No |
| (ii) | bushfire | No |
| (iii) | tidal inundation | No |
| (iv) | subsidence | No |
| (v) | acid sulphate soils | No |
| (vi) | land contamination | No |
| (vii) | Other Risk | No |

ITEM 7A – Flood related development controls information

1. *Is the land or part of the land within the flood planning area and subject to flood - related development controls.*

Yes

2. *Is the land or part of the land between the flood planning area and the probable maximum flood (PMF) and subject to flood-related development controls.*

No

3. *In this clause -*

flood planning area has the same meaning as in the Floodplain Development Manual.

Floodplain Development Manual means the Floodplain Development Manual (ISBN 0 7347 5476 0) published by the NSW Government in April 2005.

probable maximum flood has the same meaning as in the Floodplain Development Manual.

ITEM 8 – Land reserved for acquisition

Is there an environmental planning instrument, or proposed environmental planning instrument referred to in clause 1 which makes provision in relation to the acquisition of the land by a public authority, as referred to in section 3.15 of the Environmental Planning and Assessment Act 1979?

No

ITEM 9 – Contributions plans

The name of each contributions plan applying to the land is:-

Cumberland Local Infrastructure Contributions Plan 2020

ITEM 9A - Biodiversity certified land

Is the land biodiversity certified land under Part 8 of the Biodiversity Conservation Act 2016 (including land certified under Part 7AA of the Threatened Species Conservation Act 1995)?

No

ITEM 10 – Biodiversity stewardship sites

Has Council been notified by the Chief Executive of the Office of Environment and Heritage that the land is a biodiversity stewardship site under a biodiversity stewardship agreement under Part 5 of the Biodiversity Conservation Act 2016 (including biobanking agreements under Part 7A of the Threatened Species Conservation Act 1995)?

No

ITEM 10A – Native vegetation clearing set asides

Under section 60ZC of the Local Land Service Act 2013, has Council been notified by Local Land Services (or is it registered in the public register under that section) that the land contains a set aside area?

No

ITEM 11 – Bush fire prone land

- | | | |
|-----|--|-----|
| (a) | <i>All of the land is bush fire prone land.</i> | No |
| (b) | <i>Some of the land is bush fire prone land.</i> | No |
| (c) | <i>None of the land is bush fire prone land.</i> | Yes |

ITEM 12 – Property vegetation plans

Has Council been notified (by the person or body that approved the plan) of the existence of a property vegetation plan approved under Part 4 of the Native Vegetation Act 2003 (and that continues in force) applying to the land?

No

ITEM 13 – Orders under Trees (Disputes Between Neighbours) Act 2006

Has Council been notified that 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

ITEM 14 – Directions under Part 3A

Is there a direction by the Minister in force under section 75P (2) (c1) of the Environmental Planning and Assessment Act 1979 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

ITEM 15 – Site compatibility certificates and conditions for seniors housing

- (a) Has a current site compatibility certificate (seniors housing), of which the Council is aware, been issued under State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 in respect of proposed development on the land?
- No
- (b) Have any terms of a kind referred to in clause 18(2) of State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 been imposed as a condition of consent to a development application granted after 11 October 2007 in respect of the land?
- No

ITEM 16 – Site compatibility certificates for infrastructure, schools or TAFE establishments

Has a valid site compatibility certificate (infrastructure) or a site compatibility certificate (schools or TAFE establishments), of which the Council is aware, been issued?

No

ITEM 17 – Site compatibility certificates and conditions for affordable rental housing

1. *Has a current site compatibility certificate (affordable rental housing), of which the Council is aware, been issued in respect of proposed development on the land?*

No

2. *Have any terms of a kind referred to in clause 17(1) or 38(1) of State Environmental Planning Policy (Affordable Rental Housing) 2009 been imposed as a condition of consent to a development application in respect of the land?*

No

ITEM 18 – Paper subdivision information

Has a development plan been adopted that applies to the land or that is proposed to be subject to a consent ballot?

No

ITEM 19 – Site verification certificates

Has Council been made aware of a current site verification certificate that has been issued in respect of the land?

No

ITEM 20 – Loose – fill asbestos insulation

Has Council been notified that 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

ITEM 21 – Affected building notices and building product rectification orders

1. *Is any affected building notice in force in respect of the land?*

No

2. *Is any building product rectification order in force in respect of the land that has not been fully complied with?*

No

3. Has a notice of intention to make a building product rectification order been given in respect of that land that is outstanding?

No

ITEM 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.

The land is not affected.

NOTE 1 – Matters arising under the Contaminated Land Management Act 1997

Section 59(2) of the Contaminated Land Management Act 1997 prescribes the following additional matters to be specified in planning certificates:-

- (a) *At the date of this certificate, is the land (or part of the land) to which this certificate relates significantly contaminated land?*
No
- (b) *At the date of this certificate, is the land to which this certificate relates subject to a management order?*
No
- (c) *At the date of this certificate, is the land to which this certificate relates the subject of an approved voluntary management proposal?*
No
- (d) *At the date of this certificate, is the land to which this certificate relates subject to an ongoing maintenance order?*
No
- (e) *At the date of this certificate, is the land to which this certificate relates the subject of a site audit statement and a copy of such a statement has been provided to the Council?*
No

GENERAL INFORMATION

The absence of any reference to a matter affecting the land shall not imply that the land is not affected by that matter not referred to in this certificate.

Information provided under section 10.7(2) is in accordance with the matters prescribed under schedule 4 of the Environmental Planning and Assessment Regulation 2000 and is provided only to the extent that the Council has been notified by the Department of Public Works or Department of Planning.

When advice in accordance with section 10.7(5) is requested the Council is under no obligation to furnish any advice. If advice is provided Council draws your attention to section 10.7(6) and schedule 6 of the *Environmental Planning and Assessment Act 1979* which have the effect that Council shall not incur any liability in respect of advice provided in good faith pursuant to section 10.7(5), including the furnishing of advice in respect of contaminated land.

Any enquiries regarding State and Regional Environmental Planning Policies should be directed to the Department of Planning at <http://www.planning.nsw.gov.au>

Please contact Council's Strategic Planning section for further information about this Planning Certificate.

Peter J Fitzgerald
GENERAL MANAGER

Appendix X – Equipment Calibration Certificates



Calibration and Service Report – PID

Company: ADE Consulting Group (NSW) F **Manufacturer:** RAE
Contact: Michelle Ridley **Instrument:** MINIRAE LITE SN: 595-002222 **Serial #:** **595-002222**
Address: Unit 6/7 Millennium Court **Model:** MiniRAE Lite **Asset #:**
SILVERWATER NSW 2128 **Configuration:** VOC 10.6EV **Part #:** 059-A126-000
Phone: 1300796922 **Wireless:** - **Sold:** 20.02.2017
Fax: - **Network ID:** - **Last Cal:** 17.03.2021
Email: michelle.ridley@ade.group **Unit ID:** (PID 3) **Job #:** **130884**
 Details: **Cal Spec:**
 Order #: PID3

Calibration Certificate

Sensor	Type	Serial No.	Span Gas	Concentration	Traceability Lot #	CF	Reading	
							Zero	Span
Oxygen								
LEL								
PID	050-0000-004. 10.6EV 1/ 2 INCH LAMP	S023060055TC/1062R01 2710	Isobutylene	100ppm	4835-1-1		0	100.0
Battery	050-0000-000. 10.6EV 1/ 2_ PID LAMP	159TCW0532						
Toxic 1								
Toxic 2								
Toxic 3								
Toxic 4								
Toxic 5								
Toxic 6								

Calibrated/Repaired by: JERRY JI

Date: 20.09.2021

Next Due: 20.03.2022



service@aesolutions.com.au

www.aesolutions.com.au



Calibration and Service Report – PID

Company: ADE Consulting Group (NSW) F **Manufacturer:** RAE
Contact: Michelle Ridley **Instrument:** MINIRAE LITE SN: 595-002222 **Serial #:** **595-002222**
Address: Unit 6/7 Millennium Court **Model:** MiniRAE Lite **Asset #:**
SILVERWATER NSW 2128 **Configuration:** VOC 10.6EV **Part #:** 059-A126-000
Phone: 1300796922 **Wireless:** - **Sold:** 20.02.2017
Fax: **Network ID:** - **Last Cal:** 17.03.2021
Email: michelle.ridley@ade.group **Unit ID:** (PID 3) **Job #:** **130884**
 Details: **Cal Spec:**
 Order #: PID3

Item	Test	Pass/Fail	Comments	Serial Number
Battery	NiCd, NiMH, Dry cell, LiIon	P		
Charger	Power Supply	P		
	Cradle, Travel Charger	P		
Pump	Flow	P	>450ml/min	
Filter	Filter, fitting, etc	X	Dirty, replaced	
Alarms	Audible, visual, vibration	P		
Display	Operation	P		
Switches	Operation	P		
PCB	Operation	P		
Connectors	Condition	P		
Firmware	Version	P	V2.22A	
Datalogger	Operation	P		
Monitor Housing	Condition	P		
Case	Condition / Type	-		
Sensors				
PID	Lamp	P	Cleaned	
PID	Sensor	P	Cleaned	
THP	Sensor	P		

Engineer's Report

Cleaned lamp, lamp housing and sensor electrode
Checked flowrate and stall values; checked moisture sensitivity
Checked unit settings and configuration
Unit serviced and calibrated.



Appendix XI- Dangerous Goods Search



Dangerous Goods Notification Team
ph (02) 4321 5500 fax (02) 8287 5500

Occupier MANILDRA PARK PTY LIMITED
Attn: MELANIE SAWYER
Licensee: ACN 093 014 129
WESTMEAD ETHANOL
LOT 1 CREOLE RD
ALBION PARK RAIL NSW 2527

**ACKNOWLEDGEMENT OF NOTIFICATION OF
DANGEROUS GOODS ON PREMISES**

ISSUED UNDER AND SUBJECT TO THE PROVISIONS OF
THE OCCUPATIONAL HEALTH & SAFETY ACT 2000 AND REGULATIONS THEREUNDER

Acknowledgement Number 35/011281 **Expiry Date** 1/03/2010

Occupier Contact MELANIE SAWYER Ph. 02 4256 6680 Fax. 02 4256 1042

Premises where notified Dangerous Goods are stored / handled

MANILDRA PARK PTY LIMITED WESTMEAD ETHANOL
3 HASSALL ST CNR ALEXANDRA AVE WESTMEAD 2145

Nature of Site AUTOMOTIVE FUEL RETAILING

Emergency Contact for this Site JACK NADER Ph. 0414 439 334

Site staffing 13 HRS 7 DAYS

Details of Storage Locations

Identifier.	Type	Goods Stored In Storage Location	Qty
1	UNDERGROUND TANK UN 1203 PETROL	Class 3	24700 L 10000 L
2	UNDERGROUND TANK UN 1203 PETROL	Class 3	24700 L 10000 L
3	UNDERGROUND TANK UN 1203 PETROL	Class 3	25500 L 10000 L
4	UNDERGROUND TANK UN 1203 PETROL	Class 3	25500 L 10000 L

This acknowledgment must be retained as PROOF OF NOTIFICATION.

You must notify WorkCover annually of the Dangerous Goods stored on these premises

WorkCover. Watching out for you.

WorkCover NSW ABN 77 582 742 966 92-100 Donnison Street Gosford NSW 2250 Locked Bag 2906 Lisarow NSW 2250
Telephone 02 4321 5000 Facsimile 02 4325 4145 WorkCover Assistance Service 13 10 50
DX 731 Sydney Website www.workcover.nsw.gov.au

WC03116 0208

NOTIFICATION OF DANGEROUS GOODS ON PREMISES FORM

FDG01

CONTACT FOR NOTIFICATION INQUIRIES

Title: Mr / Miss / Ms / Mrs / Other (please specify) Miss Family name Sawyer
Given name Melanie Other names _____
Business phone (02) 42566680 Business fax number (02) 42561042
Business email address park@1earth.net

Previous Licence Number or Acknowledgement Number (if known)

35/011281

Previous Occupier (if known)

Site on which dangerous goods are to be kept

Number Street

3Hassall Street

Suburb/Town/Locality

WESTMEADNSW

Postcode

2145

Nearest cross Street

Alexander Avenue

Lot and DP if no street number

Is the site staffed? If yes state number of employees

4

Site staffing: Hours per day

13

Days per week

7

Site Emergency Contact

Phone number

Name

0414 439 334Jack Nader

Nature of site (eg petrol station, warehouse etc)

Petrol Station\$ 100.00Date: 11/02/09Ref No: 560348

Nature of primary business activity

As Above

ABN Number (if any)

Website details (if any)

11 093 014 129

What is the ANSIC code most applicable to your business? (see guide for list of codes and further information)

Code

Description

5321Automotive fuel Retailing

Attach a site sketch(s) of the premises. Refer to the Guide GDG01 for information on the requirements for the site sketch.

Attach a legible photocopy page from a local Street Directory or other map showing the locality of the premises. Mark the location of the premises with an X.

NOTIFICATION OF DANGEROUS GOODS ON PREMISES FORM

FDG01

List the dangerous goods that will be stored and/or processed on these premises (refer to Guide GDG01). Copy this page and attach additional sheets if there is insufficient space.

Depot No	Type of storage location or process	Class	Maximum Storage Capacity (L, kg)
1	Underground Tank	3	24,700 L

UN Number	Proper Shipping Name	Class	PG (I, II, III)	Product or Common Name	HazChem Code	Typical Qty	Unit eg L, kg
1203	Petrol	3	11	Unleaded	3YE	10,000	L

Depot No	Type of storage location or process	Class	Maximum Storage Capacity (L, kg)
2	Underground Tank	3	24,700 L

UN Number	Proper Shipping Name	Class	PG (I, II, III)	Product or Common Name	HazChem Code	Typical Qty	Unit eg L, kg
1203	Petrol	3	11	Unleaded	3YE	10,000	L

Depot No	Type of storage location or process	Class	Maximum Storage Capacity (L, kg)
3	Underground Tank	3	25,500 L

UN Number	Proper Shipping Name	Class	PG (I, II, III)	Product or Common Name	HazChem Code	Typical Qty	Unit eg L, kg
1203	Petrol	3	11	Premium Unleaded	3YE	10,000	L

Depot No	Type of storage location or process	Class	Maximum Storage Capacity (L, kg)
4	Underground Tank	3	25,500 L

UN Number	Proper Shipping Name	Class	PG (I, II, III)	Product or Common Name	HazChem Code	Typical Qty	Unit eg L, kg
1203	Petrol	3	11	Unleaded	3YE	10,000	L

Depot No	Type of storage location or process	Class	Maximum Storage Capacity (L, kg)
5	Above Ground Decanting	2.1	190 kg.

UN Number	Proper Shipping Name	Class	PG (I, II, III)	Product or Common Name	HazChem Code	Typical Qty	Unit eg L, kg
1075	Liquified Propane Gas	2.1		LPG	2WE		10kg

NOTIFICATION OF DANGEROUS GOODS ON PREMISES FORM

FDG01

List the dangerous goods that will be stored and/or processed on these premises (refer to Guide GDG01). Copy this page and attach additional sheets if there is insufficient space.

Depot No	Type of storage location or process	Class	Maximum Storage Capacity (L, kg)				
6	Above Ground Decanting	2.1	LPG. 190 kg				
UN Number	Proper Shipping Name	Class	PG (I, II, III)	Product or Common Name	HazChem Code	Typical Qty	Unit eg L, kg
1075	Liquified propane gas	2.1		LPG.	2WE		190 KG

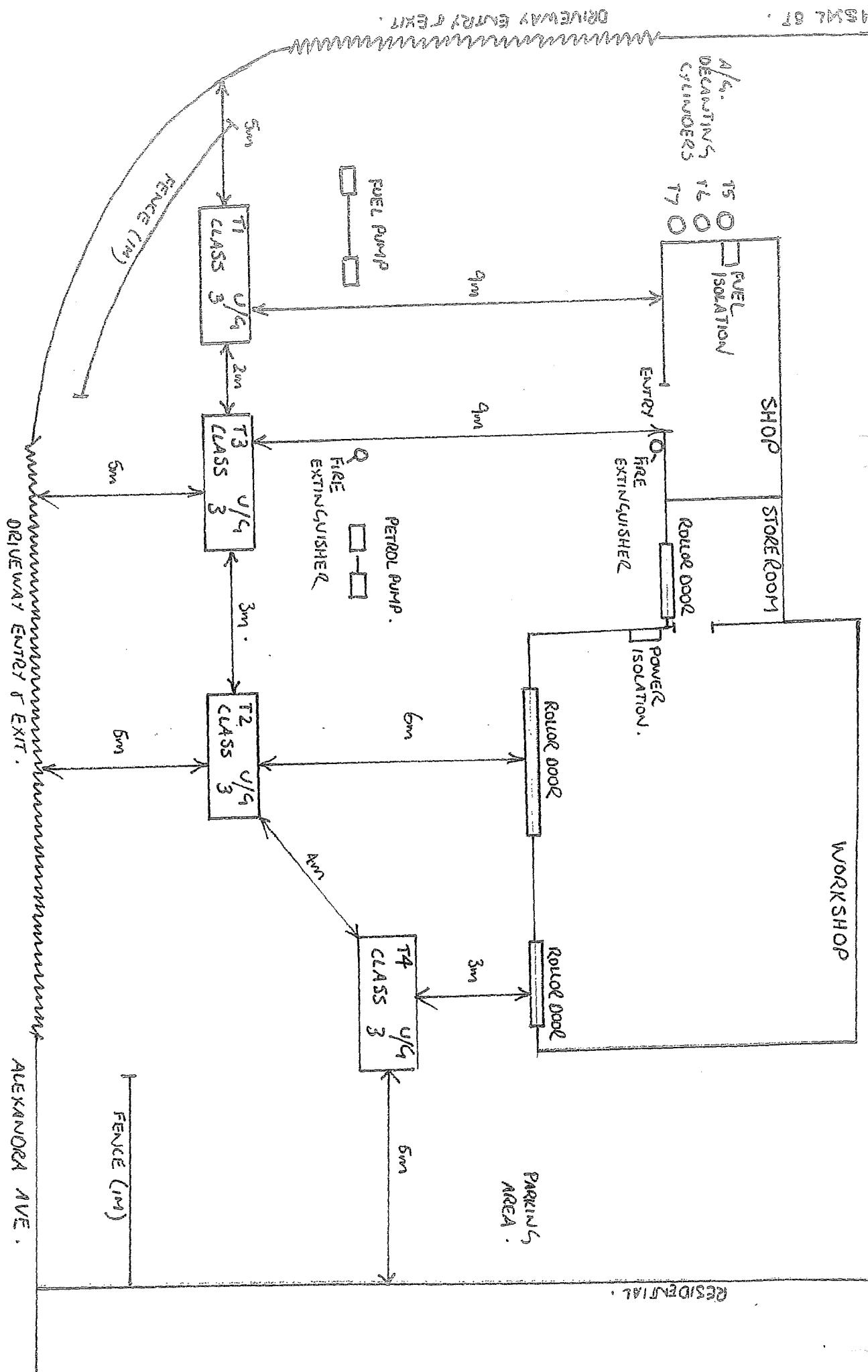
Depot No	Type of storage location or process	Class	Maximum Storage Capacity (L, kg)				
7	Above Ground Decanting	2.1	LPG. 190 kg				
UN Number	Proper Shipping Name	Class	PG (I, II, III)	Product or Common Name	HazChem Code	Typical Qty	Unit eg L, kg
1075	Liquified propane gas	2.1		LPG.	2WE		190 KG

Depot No	Type of storage location or process	Class	Maximum Storage Capacity (L, kg)				
UN Number	Proper Shipping Name	Class	PG (I, II, III)	Product or Common Name	HazChem Code	Typical Qty	Unit eg L, kg

Depot No	Type of storage location or process	Class	Maximum Storage Capacity (L, kg)				
UN Number	Proper Shipping Name	Class	PG (I, II, III)	Product or Common Name	HazChem Code	Typical Qty	Unit eg L, kg

Depot No	Type of storage location or process	Class	Maximum Storage Capacity (L, kg)				
UN Number	Proper Shipping Name	Class	PG (I, II, III)	Product or Common Name	HazChem Code	Typical Qty	Unit eg L, kg

MEMO ETHANOL



RECEIVED
SERVICE CENTRE

- 2 MAR 2006

WORKCOVER
FDG01

NOTIFICATION OF DANGEROUS GOODS ON PREMISES FORM

CONTACT FOR NOTIFICATION INQUIRIES

Title: Mr / Miss / Ms / Mrs / Other (please specify) MR Family name Nader
Given name Jack Other names _____
Gender Male Female (please circle) Date of birth 7/8/51 Place of birth _____
Postal address Cnr Hassell & Alexandria Streets
Suburb WESTMEAD State NSW Postcode _____
Business phone 916 933816 Business fax number _____
Business email address park@1earth.net

Previous Licence Number or Acknowledgement Number (if known)

35/011281 J 16/10/06

Previous Occupier (if known)

Site on which dangerous goods are to be kept

Number Street

3 Cnr Hassell & Alexandria Streets

Nearest cross Street

Alexandria Street J 16/10/06

Lot and DP if no street number

Is the site staffed? If yes state number of employees

4

Site staffing: Hours per day 13 Days per week 7

Site Emergency Contact

Phone number

Name

0414439334 Jack Nader

Nature of your primary business activity

Service Station

ABN Number (if any)

Website details (if any)

17 093 014 129

What is the ANSIC code most applicable to your business? (see guide for list of codes and further information)

Code Description

Service Station

Attach a site sketch of the premises. Refer to the Guide for information on the requirements for the site sketch.

Attach a photocopy page from a local Street Directory or other map showing the locality of the premises. Mark the location of the premises with an X

Scan J 16/10/06 Be ordered.

\$ 100.00
Date 3.5.06
Rec. No. 446320

NOTIFICATION OF DANGEROUS GOODS ON PREMISES FORM

FDG01

List the dangerous goods that will be stored and/or processed on these premises. Copy this page and attach additional sheets if there is insufficient space.

Identifier	Type of storage location or process	Class	Maximum Storage Capacity (L, kg, M ³)
1	UNDERGROUND TANK	3	24,700 L

UN Number	Proper Shipping Name	Class	PG (I, II, III)	Product or Common Name	HazChem Symbol	Typical Qty	Unit eg L, kg, M ³
1203	PETROL	3	II	UNLEADED	3[Y]E	10,000	L

Identifier	Type of storage location or process	Class	Maximum Storage Capacity (L, kg, M ³)
2	UNDERGROUND TANK	3	24,700 L

UN Number	Proper Shipping Name	Class	PG (I, II, III)	Product or Common Name	HazChem Symbol	Typical Qty	Unit eg L, kg, M ³
1203	PETROL	3	II	UNLEADED	3[Y]E	10,000	L

Identifier	Type of storage location or process	Class	Maximum Storage Capacity (L, kg, M ³)
3	UNDERGROUND TANK	3	25,500 L

UN Number	Proper Shipping Name	Class	PG (I, II, III)	Product or Common Name	HazChem Symbol	Typical Qty	Unit eg L, kg, M ³
1203	PETROL	3	II	PREMIUM UNLEADED	3[Y]E	10,000	L

Identifier	Type of storage location or process	Class	Maximum Storage Capacity (L, kg, M ³)
4	UNDERGROUND TANK	3	25,500 L

UN Number	Proper Shipping Name	Class	PG (I, II, III)	Product or Common Name	HazChem Symbol	Typical Qty	Unit eg L, kg, M ³
1203	PETROL	3	II	UNLEADED	3[Y]E	10,000	L

Identifier	Type of storage location or process	Class	Maximum Storage Capacity (L, kg, M ³)
5	ABOVE GRO DECANTING CYL.	2-1	190 KG.

UN Number	Proper Shipping Name	Class	PG (I, II, III)	Product or Common Name	HazChem Symbol	Typical Qty	Unit eg L, kg, M ³
1075	COPPIFIED PROPANE GAS	2-1		LP GAS.	ZWE		KG.

LPL
Nel 10/06.
PTO

combine 5,6,7 into 1 depot

NOTIFICATION OF DANGEROUS GOODS ON PREMISES FORM

FDG01

List the dangerous goods that will be stored and/or processed on these premises. Copy this page and attach additional sheets if there is insufficient space.

Identifier	Type of storage location or process	Class	Maximum Storage Capacity (L, kg, M ³)
6	ABOVE GROUND DECANTING CYL	2.1	LPG ?

UN Number	Proper Shipping Name	Class	PG (I, II, III)	Product or Common Name	HazChem Symbol	Typical Qty	Unit eg L, kg, M ³
1075	LIQUEFIED PROPANE GAS	2.1		LPG .	ZWE		KG..

7
who
knows?

1075
kg

steel
indicates
decanting
cylinder

Identifier	Type of storage location or process	Class	Maximum Storage Capacity (L, kg, M ³)
7	ABOVE GROUND DECANTING CYL	2.1	LPG ?

UN Number	Proper Shipping Name	Class	PG (I, II, III)	Product or Common Name	HazChem Symbol	Typical Qty	Unit eg L, kg, M ³
1075	LIQUEFIED PROPANE GAS	2.1		LPG	ZWE		KG

Identifier	Type of storage location or process	Class	Maximum Storage Capacity (L, kg, M ³)

UN Number	Proper Shipping Name	Class	PG (I, II, III)	Product or Common Name	HazChem Symbol	Typical Qty	Unit eg L, kg, M ³

Identifier	Type of storage location or process	Class	Maximum Storage Capacity (L, kg, M ³)

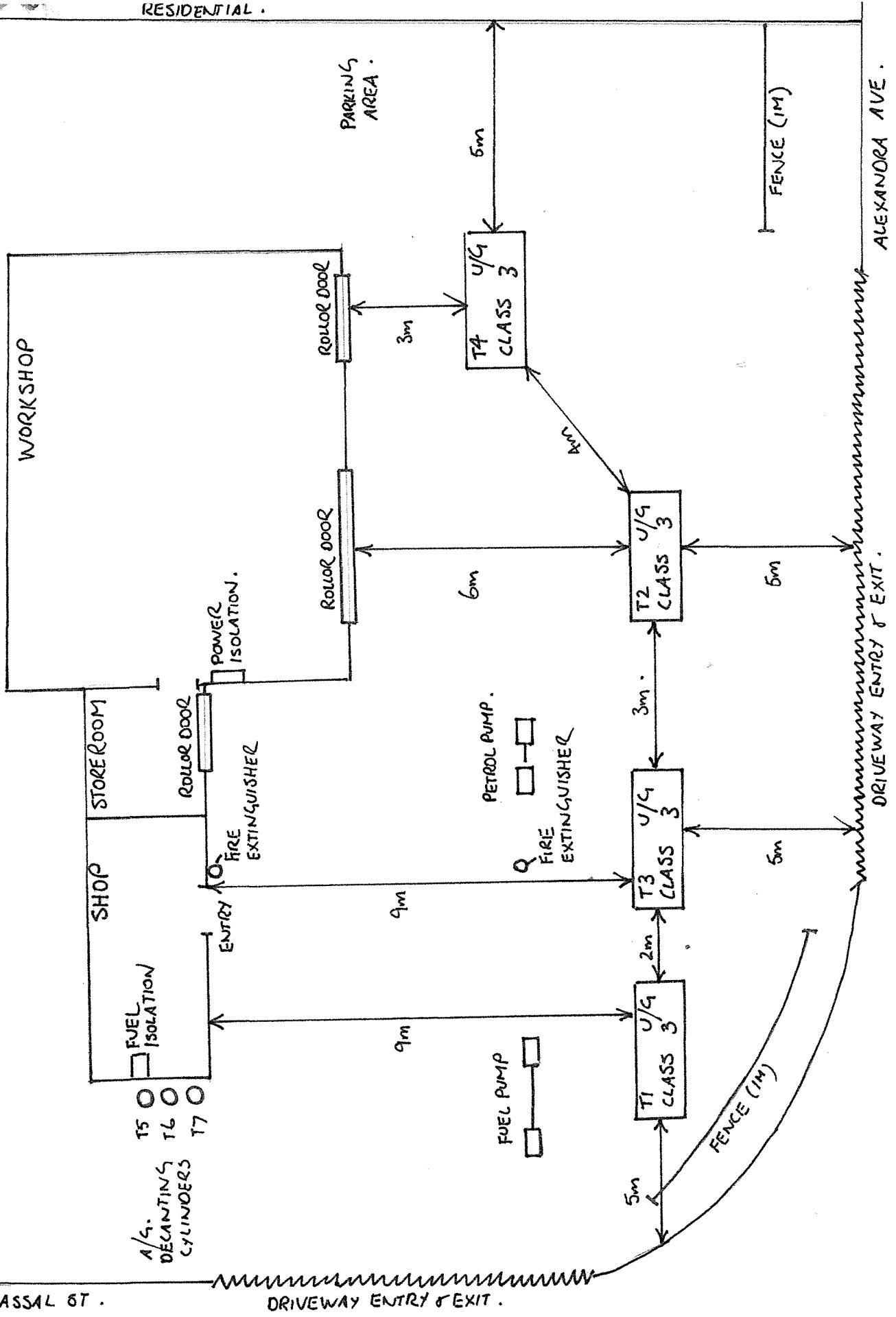
UN Number	Proper Shipping Name	Class	PG (I, II, III)	Product or Common Name	HazChem Symbol	Typical Qty	Unit eg L, kg, M ³

Identifier	Type of storage location or process	Class	Maximum Storage Capacity (L, kg, M ³)

UN Number	Proper Shipping Name	Class	PG (I, II, III)	Product or Common Name	HazChem Symbol	Typical Qty	Unit eg L, kg, M ³

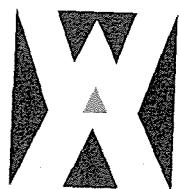
RESIDENTIAL

RESIDENTIAL:



Reference

WORKCOVER AUTHORITY



Licensee

SOLO OIL AUST P/L

BOX 578 P O
SMITHFIELD 2164

Dangerous Goods Section
Locked Mail Bag 2 P O, ROSEBERY NSW 2018
Ph. (02) 287 6239 OR (02) 287 6237

17 APR 1991



Dear Sir/Madam,

RE APPLICATION FOR RENEWAL OF LICENCE FOR THE KEEPING OF DANGEROUS GOODS

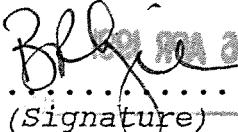
Our records indicate ~~HASSALL ST & ALEXANDRA AVE~~ licence number 35/011281 for keeping dangerous goods at WESTMEAD 2145.

Details of depots at site.

Depot No.	Depot type	Goods stored in depot	Quantity kg/litres/no.
1	UNDERGROUND TANK	FLAMMABLE LIQUIDS	20 000
2	UNDERGROUND TANK	FLAMMABLE LIQUIDS	20 000
3	UNDERGROUND TANK	FLAMMABLE LIQUIDS	10 000

This licence is now due for renewal. TO RENEW YOUR LICENCE. Please carefully check the details shown in this letter and make any required corrections. Then, SIGN and DATE the declaration below and return this letter to the WorkCover Authority, Dangerous Goods Section. Fees for these licences have been abolished. DO NOT SEND ANY MONIES.

Declaration: I wish to renew this licence to 15/05/92. I certify that the licence details shown in this letter are correct.


.....
(Signature)

.....
29/4/91
(Date)

If you do not wish to renew the licence. Please provide the Dangerous Goods Section with a signed statement giving the reason why it is not to be renewed. If you have sold/vacated the site please provide the name and address of the new owner/occupier so we may contact them.

Yours faithfully

Chief Inspector of Dangerous Goods.



described below.

for the keeping of dangerous goods in or on the premises

(*delete whichever is not required)

\$10.00 per Depot for new licence.

\$15

\$10.00 for amendment or transfer.

Name of Applicant in full (see over)	SONO OIL AUSTRALIA PTY LTD		
Trading name or occupier's name (if any)			
Postal address	PO Box 1132 PARRAMAH NSW Postcode 2150		
Address of the premises including street number (if any)	Cnr HASSALL ST & ALEXANDRA AVE WESTHEAD Postcode 2145		
Nature of premises (see over)	SERVICE STATION		
Telephone number of applicant	STD Code	02	Number 6892077

Particulars of type of depots and maximum quantities of dangerous goods to be kept at any one time.

Depot number	Type of depot (see over)	Storage capacity	Dangerous goods	C & C Office use only
			Product being stored	
1	UNDERGROUND	15,000 litres	PETROL - SUPER	003 02 01
2	"	15,000 litres	" "	2 020
3	"	10,000 litres	PETROL - UNLEADED	2 020
4				
5				
6				
7				
8				
9				
10				
11				
12				

Has site plan been approved?

Yes
 No

If yes, no plans required.
If no, please attach site plan.

Have premises previously been licensed?

Yes
 No

If yes, state name of previous occupier

P. STOWPIK

Name of company supplying flammable liquid (if any)

(SONO) (Arlow)

Signature of applicant Date 10/7/88

For external explosives magazine(s), please fill in side 2.

FOR OFFICE USE ONLY

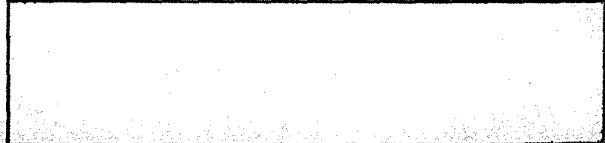
CERTIFICATE OF INSPECTION

I, RAYMOND CHARLES MCGRATH being an Inspector under the Dangerous Goods Act, 1975, do hereby certify that the premises described above do comply with the requirements of the Dangerous Goods Act, 1975, and the Dangerous Goods Regulation with regard to their situation and construction for the keeping of dangerous goods of the nature and in the quantity specified.

Signature of Inspector R.C.M.

Date 9.9.88

Licence No.



APPLICATION FOR LICENCE (or AMENDMENT or TRANSFER of LICENCE) FOR THE KEEPING OF DANGEROUS GOODS

Application is hereby made for—
*a licence (or amendment of the licence) for the keeping of dangerous goods in or on
premises described below.

(*delete whichever is not required)

FLAG C

12/9/80

FEE: \$10.00 per Depot

8452 5/09/80 03A

Name of Applicant in full (see over)	Surname STOWPIUK Given Names PETIER NF	
Trading name or occupier's name (if any)	CLUB SERVICE STATION TF	
Postal address	CNR. HASSALL ST & ALEXANDRA AVE. WESTMEAD Postcode 2145	
Telephone number of applicant	STD Code	Number 6331512
Address of the premises in or on which the depot or depots are situated (including street number, if any)	CNR. HASSALL ST & ALEXANDRA AVE. WESTMEAD Postcode 2145	
Nature of premises (see over)	SERVICE STATION	

PLEASE ATTACH SITE PLAN

Particulars of type of depots and maximum quantities of dangerous goods to be kept at any one time.

Depot number	Type of depot (see over)	Storage capacity	Dangerous goods	
			Product being stored	003 020. C & C Office use only
1	UNDERGROUND TANK	10450 LTRS.	PETROL	2.020.14
2	—	14775 LTRS.	PETROL	2.020.14
3	—	14775 LTRS.	PETROL	2.020.14
4				
5				
6				
7				
8				
9				
10				
11				
12				

Name of company supplying flammable liquid (if any) AMPOL

Have premises previously been licensed? YES

If known, state name of previous occupier T. RAE. (sign occupier)

Licence No. 254900

Signature of applicant R. Slaney

Date 20/8/80

For external explosives magazine(s), please fill in side 2.

LICENCE NO.

FOR OFFICE USE ONLY

CERTIFICATE OF INSPECTION

I, RAYMOND CHARLES MCGARTH

being an Inspector under the Dangerous Goods Regulation 1975,

do hereby certify that the premises described above do comply with the requirements of the Dangerous Goods Regulation 1975, and the Dangerous Goods Regulation with regard to their situation and construction for the

Vic. D. B. Planning

2. Trading Name (if any)	WESTMEAD SERVICE STATION									
3. Locality of the premises in which the depot or depots are situated	No. or Name _____ Street <u>CNR. ALEXANDRA & HASSALL STS,</u> Town <u>WESTMEAD</u>									
4. Postal address	Postcode <u>2145.</u>									
5. Occupation										
6. Nature of premises (dwelling, garage etc.)	<u>GARAGE</u>									
7. Particulars of construction of depots and maximum quantities of inflammable liquid and/or Dangerous Goods to be kept at any one time.										

PLEASE ATTACH PLAN OF PREMISES

Depot No.	Construction of depots*			Inflammable liquid		Dangerous goods					
	Walls	Roof	Floor	Mineral spirit gallons	Mineral oil gallons	Class 1 gallons	Class 2 gallons	Class 3 lb	Class 4 cu ft	Class 5A water gal	Class 9 gallons
1	<u>Underground Tanks</u>			<u>3000</u>							
2				<u>3000</u>							
3				<u>2000</u>							
4											
5											
6											
7											
8											
9											
10											

* If product is kept in tanks describe depots as underground or aboveground tanks.

Signature of applicant X 6. HillDate of application 4/8/72

CERTIFICATE OF INSPECTION

I, William A. MacLean, being an Inspector under the Inflammable Liquid Act, 1915 (as amended), do hereby certify that the premises or store herein referred to and described is suitable with regard to its situation and construction for the safe keeping of inflammable liquid and/or dangerous goods in quantity and nature specified.

Place Dogney
Date 16-8-72Signature of Inspector W. MacLean

PLEASE TURN OVER

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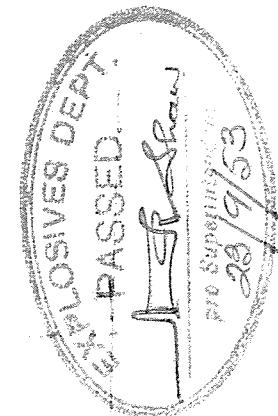
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and the first of the new year.

Bank No B58 & B61

EXPLANATORY

Inflammable Liquid—

Mineral Oil—includes kerosene, mineral turpentine and white spirit (for cleaning), and compositions containing same.
Mineral Spirit—includes petrol, benzene, benzolene, benzol and naphtha, and compositions containing same.

Dangerous Goods—

Class 1.—Acetone, amyl acetate, butyl acetate, carbon bisulphide; any combination of substances of an inflammable character suitable for use as an industrial solvent and having a true flashing point of less than 73 degrees Fahrenheit.

Class 2.—Nitro-cellulose (also known as "pyroxylin" and "collodion cotton") moistened with an alcohol, butyl alcohol (also known as "butanol"), methylated spirits, vegetable turpentine; and any liquid or solid containing methylated spirits, having a true flashing point of less than 150 degrees Fahrenheit.

Class 3.—Nitro-cellulose product.

Class 4.—Compressed or dissolved acetylene contained in a porous substance.

DIRECTIONS

1. Applications must be forwarded to the Chief Inspector of Inflammable Liquid, Explosives Department, No. 16 Grosvenor Street, Sydney (Box 48, G.P.O.), and must be accompanied by the prescribed fee, as set out hereunder:

Registration of Premises (Fee £1 10s. Cd. p.a.)—For quantities not exceeding 300 gallons of mineral oil and 100 gallons of mineral spirit, if kept together; or 800 gallons of mineral oil and 100 gallons of mineral spirit, if kept in separate depots; or 500 gallons of mineral spirit, if kept in an underground tank depot; or 800 gallons of mineral oil and 500 gallons of mineral spirit, if mineral spirit is kept in an underground tank depot.

In addition to, or in lieu of the above, similar quantities of Dangerous Goods of Classes 1 and 2 may be kept under the like conditions; reading Dangerous Goods of Class 1 for the words Mineral Spirit and Dangerous Goods of Class 2 for the words Mineral Oil.

Store License, Div. A (Fee, £3 5s. Od. p.a.)—For quantities in excess of those stated above, but not exceeding 4,000 gallons mineral oil and/or mineral spirit, and/or Dangerous Goods of Classes 1 and 2.

Store License, Div. B (Fees, See Regulation 7)—For quantities exceeding 4,000 gallons of mineral and/or mineral spirit, and/or dangerous goods of Classes 1 and 2, and/or dangerous goods of Class 3.
For the keeping of Dangerous Goods of Classes 3 and/or 4. (£7 10s. Od. p.a.).

2. The certificate of inspection at foot hereof must be signed by an Inspector under the Inflammable Liquid Act, 1915 (as amended), or Police Officer, or other officer duly authorised in that behalf, and where the premises are situated outside the Metropolitan Area of Sydney, it is requested that such certificate be obtained prior to forwarding application.

1. Name in full of occupier ...

2. Occupation ...

3. Locality of the premises in which the depot or depots are situated ...

4. Nature of premises (Dwelling, Garage, Store, etc.) ...

5. Will mineral spirit be kept in a prescribed underground tank depot?

6. Particulars of construction of depots and maximum quantities of inflammable liquid and/or Dangerous Goods to be kept at any one time.

Depot No.	Construction of Depots			Inflammable Liquid		Dangerous Goods			
	Walls	Roof	Floor	Mineral Spirit Gallons	Mineral Oil Gallons	Class 1 Gallons	Class 2 Gallons	Class 3 lb.	Class 4 cub. ft.
1	Under ground tank	"	"	3000	2500				
2	"	"	"	1000	(1/2000 gal. per tank) restricted				
3									
4									
5									
6									
7									
8									
9									
10									

Date of Application *3rd June 1963*

Signature of Applicant *X B Blomming*

Postal Address *As Above*

CERTIFICATE OF INSPECTION

I, *Roel Biddulph*, being an Inspector under the Inflammable Liquid Act, 1915 (as amended), do hereby certify that the premises or store herein referred to and described is suitable with regard to its situation and construction for the safe keeping of inflammable liquid and/or dangerous goods in quantity and nature specified.

Place *Westmead*

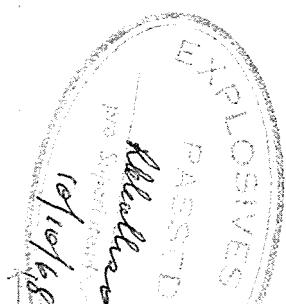
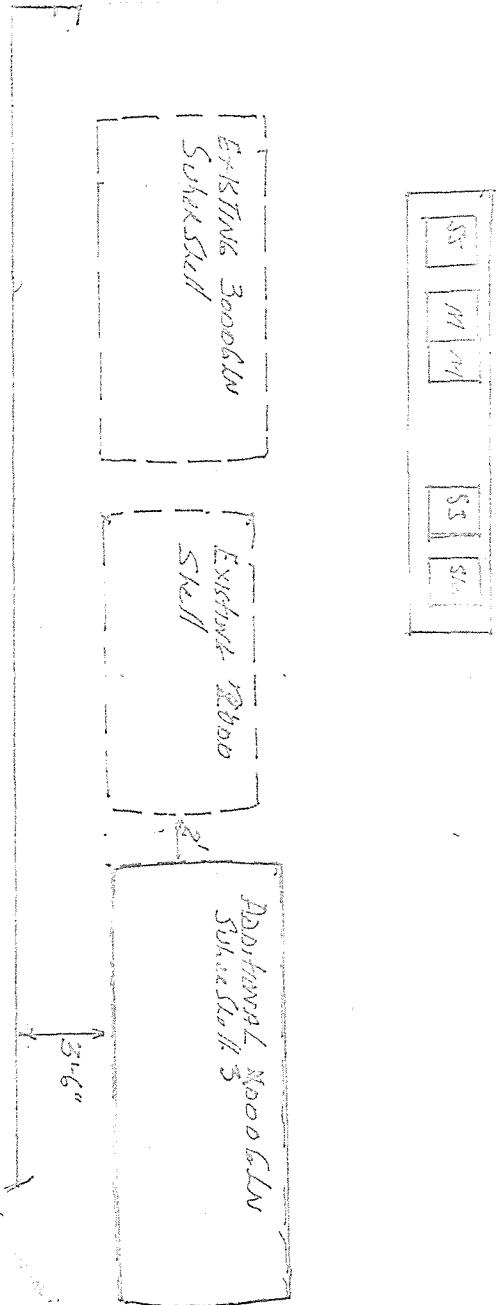
Signature of Inspector *Roel Biddulph*

11

Workshop

~~fall 2000~~ Existing Park
Denn Falls

Installation of Admto
18300 Guitonuk too Subversive
At Westboro St. Brampton.
Liaison sent in one Reg to Mr.
Row Head in on line. To Partition
of surface to existing road.
W. 4th Line to Pasture and
to Executive. First all plots
between 5th & 2nd back lots will be
no. Dth Infrastructure now to
ALL Sober Punks. Nowot.



Application for Registration of Premises or Store License under Division B
alteration or amendment of any such Registration or License, for the keeping of Inflammable Liquid and/or Dangerous Goods, in accordance with the provisions of the Inflammable Liquid Act, 1915 (as amended), for the ensuing year.

Inflammable Liquid-

EXPLANATORY

Rev. Div A.
Bl. \$8.50.

Mineral Oil - includes kerosene, mineral turpentine and white spirit (for cleaning), and compositions containing same.
Mineral Spirit - includes petrol, benzene, benzolene, benzol and naphtha, and compositions containing same.

Dangerous Goods -

Class 1 - acetal, acetaldehyde, acetone, acrolein, amyl mercaptan, butyl acetate, butyl mercaptan, butyl propionate, crotonaldehyde, dichloro-ethylene, diethylketone, dioxane, diethylamine, dimethyl hydrozine, dipropylamine, divinyl ether, dipropyl ether, ethyl acetate, ethyl acrylate, ethyl chloride, ethyl ether, dichloroethane (ethylene dichloride), ethyl mercaptan, ethyl methacrylate, ethyl methyl ether, ethyl propyl ether, ethyl propionate, methyl propyl ketone, methyl acetate, methyl acrylate, methylal, methyl ethyl ether, methyl ethyl ketone, methyl methacrylate, methyl vinyl ketone, methyl vinyl acetate, piperidine, propanal, propyl acetate, propylamine, propylene oxide, pyridine, tetrahydrofuran, thiophene, triethylamine, valeraldehyde, vinyl acetate, vinyl allyl ether, vinyl butyl ether, vinyl butyrate, vinyl cyanide (acrylonitrile), vinylidene chloride, vinyl ethyl ether, vinyl propyl ether, vinyl propionate, any combination of substances of an inflammable character suitable for use as an industrial solvent and having a true flashing point of less than 73 degrees Fahrenheit, manufactured products, containing organic solvents, having a true flashing point of less than 73 degrees Fahrenheit.

Class 2 - acetic acid, acetyl acetone, acetic anhydride, allyl alcohol, amyl acetate, amyl alcohol, butyl alcohol, butyl methacrylate, chlorobenzene, cyclohexanone, dibutyl ether, dibutyl ketone, dipentene, epichlorohydrin, ethanol (ethyl alcohol), ethyl benzene, ethylene diamine, furfural, mesityl oxide, methyl alcohol, methyl amyl ketone, methyl butyl ketone, pine oil (having a flashing point below 150°F), propyl benzene, propanol, vegetable turpentine, vinyl benzene (styrene monomer), any liquid containing more than 50 per centum ethyl alcohol, manufactured products, containing organic solvents, having a true flashing point of 73 degrees Fahrenheit and above but not exceeding 150 degrees Fahrenheit.

Class 3 - nitro-cellulose moistened with an alcohol, nitro-cellulose product.

Class 4 - compressed or dissolved acetylene contained in a porous substance.

Class 5 (A) - liquefied inflammable gases (liquefied petroleum gas, vinyl chloride, ethylene chloride, ethylene oxide, butadine, methylamine, dimethylamine and trimethylamine).

Class 9 - Carbon disulphide, ethyl nitrite.

DIRECTIONS

Applications must be forwarded to the Chief Inspector of Inflammable Liquid, Explosives Department, Department of Mines, Sydney, and must be accompanied by the prescribed fee, as set out in Regulation 7.

1. Name in full of occupier	<i>Bruni William Blanning</i>		
2. Occupation	<i>Westmead S/Str.</i>		
3. Locality of the premises in which the depot or depots are situated	<i>S/Str. Proftr</i>		
4. Nature of premises (Dwelling, Garage, Store, etc.)	<i>Hassell St. & Alexander Avenue, Westmead S/Str.</i>		
5. Particulars of construction of depots and maximum quantities of inflammable liquid and/or Dangerous Goods to be kept at any one time	<i>Postcode 2145</i>		

PLEASE ATTACH PLAN OF PREMISES.

Depot No.	Construction of depots*			Inflammable liquid		Dangerous goods					
	Walls	Roof	Floor	Mineral Spirit gallons	Mineral Oil gallons	Class 1 gallons	Class 2 gallons	Class 3 lb	Class 4 cu ft	Class 5 A water barrels	Class 9 gallons
1	<i>Underground tank</i>			<i>3000</i>						<i>1000</i>	<i>1000</i>
2				<i>3000</i>						<i>1000</i>	<i>2317</i>
3				<i>2000</i>						<i>(Date)</i>	<i>6324</i>
4										<i>Receipt No.</i>	
5											
6											
7											
8											
9											
10											

* If product is kept in tanks describe depots as underground or aboveground tanks.

RHD.

FORM
B

Register No. 1100

INFLAMMABLE LIQUID ACT, 1915-1953.

B

Application for Registration of Premises or Store License under Division..... or for the transfer, alteration or amendment of any such Registration or License, for the keeping of Inflammable Liquid and/or Dangerous Goods, in accordance with the provisions of the Inflammable Liquid Act, 1915-53, for the ensuing year.

EXPLANATORY

Inflammable Liquid—

Mineral Oil—includes kerosene, mineral turpentine and white spirit (for cleaning), and compositions containing same.

Mineral Spirit—includes petrol, benzene, benzolene, benzol and naphtha, and compositions containing same.

Dangerous Goods—

Class 1.—Acetone, amyl acetate, butyl acetate, carbon bisulphide; any combination of substances of an inflammable character suitable for use as an industrial solvent and having a true flashing point of less than 73 degrees Fahrenheit.

Class 2.—Nitro-cellulose (also known as "pyroxylin" and "collodion cotton") moistened with an alcohol, butyl alcohol (also known as "butanol"), methylated spirits, vegetable turpentine; and any liquid or solid containing methylated spirits, having a true flashing point of less than 150 degrees Fahrenheit.

Class 3.—Nitro-cellulose product.

Class 4.—Compressed or dissolved acetylene contained in a porous substance.

DIRECTIONS

I. Applications must be forwarded to the Chief Inspector of Inflammable Liquid, Explosives Department, No. 4 Albert Street, off Phillip Street, Circular Quay, Sydney (Box 48, G.P.O.), and must be accompanied by the prescribed fee, as set out hereunder:

Registration of Premises (Fee, 15s. p.a.).—For quantities not exceeding 300 gallons of mineral oil and 100 gallons of mineral spirit, if kept together; or 800 gallons of mineral oil and 100 gallons of mineral spirit, if kept in separate depots; or 500 gallons of mineral spirit, if kept in an underground tank depot; or 800 gallons of mineral oil and 500 gallons of mineral spirit, if mineral spirit is kept in an underground tank depot.

In addition to, or in lieu of the above, similar quantities of Dangerous Goods of Classes 1 and 2 may be kept under the like conditions; reading Dangerous Goods of Class 1 for the words Mineral Spirit and Dangerous Goods of Class 2 for the words Mineral Oil.

Store License, Div. A (Fee, £1 10s. p.a.).—For quantities in excess of those stated above, but not exceeding 4,000 gallons mineral oil and/or mineral spirit, and/or Dangerous Goods of Classes 1 and 2.

Store License, Div. B (Fee, £3 p.a.).—For quantities exceeding 4,000 gallons of mineral oil and/or mineral spirit, and/or dangerous goods of Classes 1 and 2, and/or dangerous goods of Class 3.

For the keeping of Dangerous Goods of Classes 3 and/or 4.

2. The certificate of inspection at foot hereof must be signed by an Inspector under the Inflammable Liquid Act, 1915-1953, or Police Officer, or other officer duly authorised in that behalf, and where the premises are situated outside the Metropolitan Area of Sydney, it is requested that such certificate be obtained prior to forwarding application.

1. Name in full of occupier	Charles Frederick Mason		
2. Occupation	25/6 Garage Shopkeeper		
3. Locality of the premises in which the depot or depots are situated	Cnr Hassall & Alexandra Sts, Westmead Garage		
4. Nature of premises (Dwelling, Garage, Store, etc.)			
5. Will mineral spirit be kept in a prescribed underground tank depot?			
6. Particulars of construction of depots and maximum quantities of inflammable liquid and/or Dangerous Goods to be kept at any one time.			

Depot No.	Construction of Depots.			Inflammable Liquid.		Dangerous Goods.			
	Walls.	Roof.	Floor.	Mineral Spirit. Gallons.	Mineral Oil. Gallons.	Class 1. Gallons.	Class 2. Gallons.	Class 3. lb.	Class 4. cub. ft.
1	Underground	Tanks		2400					
2	do	do		2380					
3	do	do			600				
4								6 cheques	1/23
5									
6									
7									
8									
9									
10									

Date of Application 20/7/1955

Signature of Applicant

J. F. Mason
Alexandra Ave.
Westmead N.S.W.

Postal Address

CERTIFICATE OF INSPECTION.

I, being an Inspector under the Inflammable Liquid Act, 1915-53, do hereby certify that the premises or store herein referred to and described is suitable with regard

Goods, in accordance with the provisions of the Inflammable Liquid Act, 1915-1946, etc.

EXPLANATORY.

Inflammable Liquid—

Mineral Oil—includes kerosene, mineral turpentine and white spirit (for cleaning), and compositions containing same.

Mineral Spirit—includes petrol, benzine, benzolene, benzol and naphtha, and compositions containing same.

Dangerous Goods—

Class 1.—Acetone, amyl acetate, butyl acetate, carbon bisulphide; any combination of substances of an inflammable character suitable for use as an industrial solvent and having a true flashing point of less than 73 degrees Fahrenheit.

Class 2.—Nitro-cellulose (also known as "pyroxylin" and "collodion cotton") moistened with an alcohol, butyl alcohol (also known as "butanol"), methylated spirits, vegetable turpentine; and any liquid or solid containing methylated spirits, having a true flashing point of less than 150 degrees Fahrenheit.

Class 3.—Nitro-cellulose product.

Class 4.—Compressed or dissolved acetylene contained in a porous substance.

DIRECTIONS.

1. Applications must be forwarded to the Chief Inspector of Inflammable Liquid, Explosives Department, No. 4 Albert Street, off Phillip Street, Circular Quay, Sydney (Box 48 G.P.O.), and must be accompanied by the prescribed fee, as set out hereunder:

Registration of Premises (Fee, 10s. p.a.)—For quantities not exceeding 300 gallons of mineral oil and 100 gallons of mineral spirit, if kept together; or 800 gallons of mineral oil and 100 gallons of mineral spirit, if kept in separate depots; or 500 gallons of mineral spirit, if kept in an underground tank depot; or 800 gallons of mineral oil and 500 gallons of mineral spirit, if mineral spirit is kept in an underground tank depot.

In addition to, or in lieu of the above, similar quantities of Dangerous Goods of Classes 1 and 2 may be kept under the like conditions; reading Dangerous Goods of Class 1 for the words Mineral Spirit and Dangerous Goods of Class 2 for the words Mineral Oil.

Store License, Div. A (Fee, £1. p.a.)—For quantities in excess of those stated above, but not exceeding 4,000 gallons mineral oil and/or mineral spirit, and/or Dangerous Goods of Classes 1 and 2.

Store License, Div. B (Fee, £2. p.a.)—For quantities exceeding 4,000 gallons of mineral oil and/or mineral spirit, and/or dangerous goods of Classes 1 and 2, and/or dangerous goods of Class 3.

For the keeping of Dangerous Goods of Classes 3 and/or 4.

2. The certificate of inspection at foot hereof must be signed by an Inspector under the Inflammable Liquid Act, 1915-1946, or Police Officer, or other officer duly authorised in that behalf, and where the premises are situated outside the Metropolitan Area of Sydney, it is requested that such certificate be obtained prior to forwarding application.

1. Name in full of occupier ...	Charles Frederick Mason		
2. Occupation...	Garage Proprietor		
3. Locality of the premises in which the depot or depots are situated...	No. or Name Street, 25 Hassall St & Alexandra Av, Town, Westmead		
4. Nature of premises (Dwelling, Garage, Store, etc.)	Garage		
5. Will mineral spirit be kept in a prescribed underground tank depot?	Yes		

6. Particulars of construction of depots and maximum quantities of inflammable liquid and/or Dangerous Goods to be kept at any one time.

Depot No.	Construction of Depots.			Inflammable Liquid.		Dangerous Goods.			
	Walls.	Roof.	Floor.	Mineral Spirit. Gallons.	Mineral Oil. Gallons.	Class 1. Gallons.	Class 2. Gallons.	Class 3. lb.	Class 4. cub. ft.
1	Underground tank	do	do	2400					Class 1
2				2380					
3									
4									
5									
6									
7									
8									
9									
10									

Date of Application 1/10/53 19

Signature of Applicant

Postal Address

I, being an Inspector under the Inflammable Liquid Act, 1915-46, do hereby certify that the premises or store herein referred to and described is suitable with regard to its situation and construction for the safe keeping of inflammable liquid and/or dangerous goods in quantity and nature specified.

Place Sydney Date 21/9/53

Signature of Inspector

[PLEASE TURN OVER]

Bldg

Prosecution of C. J. Jason, Westmead.
Information date 8-10-53. Case set down
for hearing at Paranaato Court on Monday
26th Oct, 1953.

Jason
9-10-53

Noted.
H. K. Kinnan
dkm/10/53

Case heard at Paranaato Committee
Court this day. A decision of \$5 imposed
with 10/- fine of court.
Fiction
16-10-53

Case noted.

I submitted for your information.

John
Sergeant in charge
97.10.53

Chief Inspector of
Information Units

One following
Chief Inspector
27 OCT 1953

File

DEPARTMENT OF MINES
SYDNEY

Minute Paper

St 9785

PAPERS:-

SUBJECT:-

CEP:JS.

B 12281

Illegal storage of mineral spirit
by C.F. Mason at Westmead.

In view of Mr. McKinnon's report of the 2nd instant regarding storage of inflammable liquid by the abovenamed without a license, notwithstanding previous efforts to obtain compliance with statutory requirements, it is recommended that legal proceedings be taken against Mr. Mason for a breach of Section 11 (1) of the Inflammable Liquid Act, 1915-52, and the information may be to the effect of the following:-

" x x x on the 1st October, 1953, on certain premises situated at the corner of Hassall Street and Alexandra Avenue, Westmead, did unlawfully keep mineral spirit, an inflammable liquid, in excess of 16 gallons, to wit, 2,000 gallons thereof."

Signed admission of the breach is attached.

Chief Inspector of
Inflammable Liquids.

Officer-in-Charge.

b. 10.53

Approved,

Under Secretary & Chief Inspector.

7 OCT 1953

On C. Enquiries

Prosecutions Register noted.
Information may be now laid.

8/10/53

SYDNEY, 2nd October, 1953.

53.

In reply please quote

E. DEPT.

No. _____

The Officer-in-Charge.

SUBJECT: Illegal Storage of Mineral
Spirit at Westmead.

I have to report having called at service station premises occupied by Charles Frederick Mason at corner of Hassall Street and Alexandra Avenue, Westmead, yesterday, October 1st, in connection with his failure to apply for a license under the Inflammable Liquid Act, 1915-52.

On 24.9.53 I had called at the service station and in Mr. Mason's absence, dipped his tanks (2 x 2000 gallons) and left an instruction for him to apply for license immediately, as he had been operating since June 25th, 1953.

Asked yesterday why he had failed to carry out the instruction, Mr. Mason said he was "fed up" with paying Government licenses; later said he did not know he had to have one for the tanks. When I referred to the instruction I had left he said he did not see why he should obey an instruction from a person he had never seen. He also told me I had no right to dip his tanks in his absence.

It was necessary to make two calls yesterday and to wait about twenty minutes to see Mr. Mason and I have a suspicion he was deliberately avoiding me.

Asked how much petrol he had in the tanks Mr. Mason said "about 2000 gallons". He refused to sign an admission, but when I informed him that his petrol would be placed under seizure he signed the attached form.

There should have been no necessity for a second visit to these premises and much Departmental time is wasted in trying to obtain applications from such people as Mr. Mason. It is certain that had I not waited a third visit would have been necessary.

In submitting this report I would recommend that legal proceedings be taken.

Inspector.

Appendix XII – Dial Before You Dig (DYBD)

DBYD Underground Search Report

Date: 02/11/2021

DBYD Sequence No: 204756947

DBYD Job No: 30815700

ENDEAVOUR ENERGY ASSETS AFFECTED

To:	Elisha cassidy	Company:	ADE
Address:	6 Millennium Court, Silverwater, NSW 2128		
Cust. ID:	3125618	Email:	elisha.cassidy@ade.group
Phone:	+61420309645		
Enquiry Location: 33 Bailey Street, Westmead, NSW 2145			

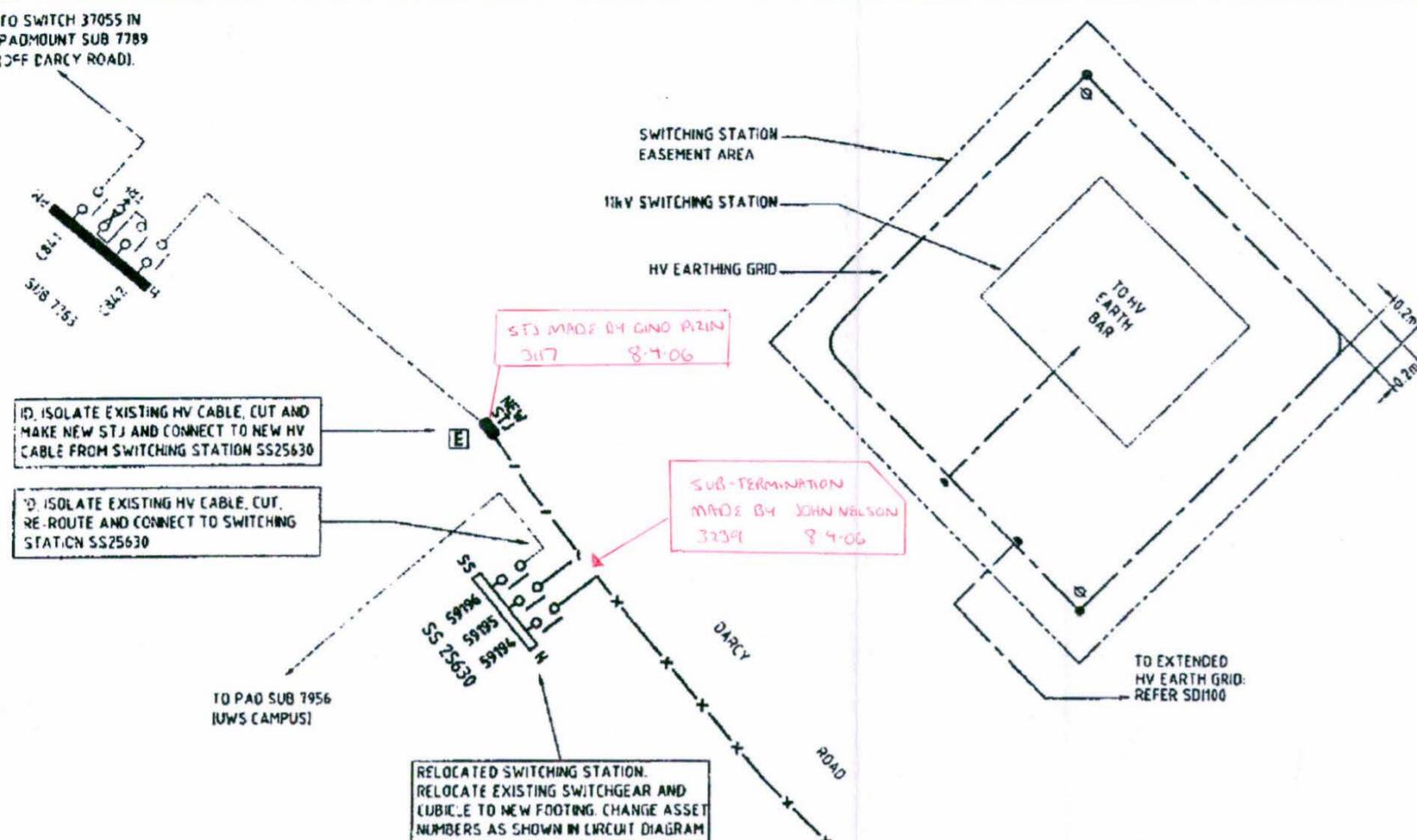
Our Search has shown that **UNDERGROUND ASSETS ARE PRESENT** on our plans within the nominated enquiry location. This search is based on the graphical position of the excavation site as denoted in the DBYD customer confirmation sheet.

WARNING

- **All electrical apparatus shall be regarded as live until proved de-energised.** Contact with live electrical apparatus will cause severe injury or death.
- In accordance with the *Electricity Supply Act 1995*, you are obliged to report any damage to Endeavour Energy Assets immediately by calling **131 003**.
- The customer must obtain a new set of plans from Endeavour Energy if work has not been started or completed within twenty (**20**) working days of the original plan issue date.
- The customer must contact Endeavour Energy if any of the plans provided have blank pages, as some underground asset information may be incomplete.
- Endeavour Energy underground earth grids may exist and their location **may not** be shown on plans. Persons excavating are expected to exercise all due care, especially in the vicinity of padmount substations, pole mounted substations, pole mounted switches, transmission poles and towers.
- Endeavour Energy plans **do not** show any underground customer service mains or information relating to service mains within private property.
- Asbestos or asbestos-containing material may be present on or near Endeavour Energy's underground assets.
- Organo-Chloride Pesticides (OCP) may be present in some sub-transmission trenches.
- All plans must be printed and made available at the worksite where excavation is to be undertaken. Plans must be reviewed and understood by the crew on site prior to commencing excavation.

SUPPLEMENTARY MATERIAL

Material	Purpose	Location
DBYD Cover Letter	Endeavour Energy DBYD response Cover Letter	Attached
DBYD Important Information & Disclaimer	Endeavour Energy disclaimer, responsibilities and information on understanding plans	Attached
DBYD Response Plans	Endeavour Energy DBYD plans	Attached
Work Cover NSW "Work near underground assets: Guide"	Guideline for anyone involved in construction work near underground assets	Contact Work Cover NSW for a copy
Work Cover NSW "Excavation work: Code of practice"	Practical guidance on managing health and safety risks associated with excavation	URL [Click Here]
Safe Work Australia "Working in the vicinity of overhead and underground electric lines guidance material"	Provides information on how to manage risks when working in the vicinity of overhead and underground electric lines at a workplace	URL [Click Here]
Endeavour Energy Safety Brochures & Guides	To raise awareness of dangers of working on or near Endeavour Energy's assets	URL [Click Here]



COMMON EARTHING

TYPICAL EARTHING DIAGRAM ONLY.

SCALE: NOT TO SCALE

— CABLE COPPER BARE 19/2/14 (ISZ13771)

— SWITCING STATION EASEMENT BOUNDARY

● CADWELD GT 19/2/14 -DIA 15 EARTH ROD MOULD GTC15Y4 (F20 15)

● CADWELD TA 19/2/14 -19/2/14 MOULD TACY4Y4 (F20 90)

● ROD EARTH COPPER 2.4m EXTENDABLE

NOTE:
THIS EARTHING DIAGRAM IS A GUIDE ONLY. ADDITIONAL EARTHING MAY BE REQUIRED TO MEET THE MAXIMUM EARTHING RESISTANCE AS DETAILED IN INTEGRAL STANDARD SDH00

EARTHING DESIGN DETAILS

EARTHING DESIGN:
TEST TYPE: COMMON EARTHING
TEST DATE: WENNER 4 PIN METHOD
TEST CONDITIONS: 5.10.05
TEST RESISTIVITY: DRY 94.9 Ohms/m
HV DESIGN ASSUMPTION: 2 x 5m STAKES
HV EARTH RESISTIVITY: 15 Ohms
LV DESIGN ASSUMPTION: COMMON EARTHING
LV EARTH RESISTIVITY: COMMON EARTHING

FINAL HV CIRCUIT

SCALE: NOT TO SCALE

X LAY 240mm² 3C AL 1kV XLPE

RL = 405m CL = 435m

— LAY 300mm² 3C AL 1kV XLPE

RL = 40m CL = 50m

— EXISTING U/G CABLES

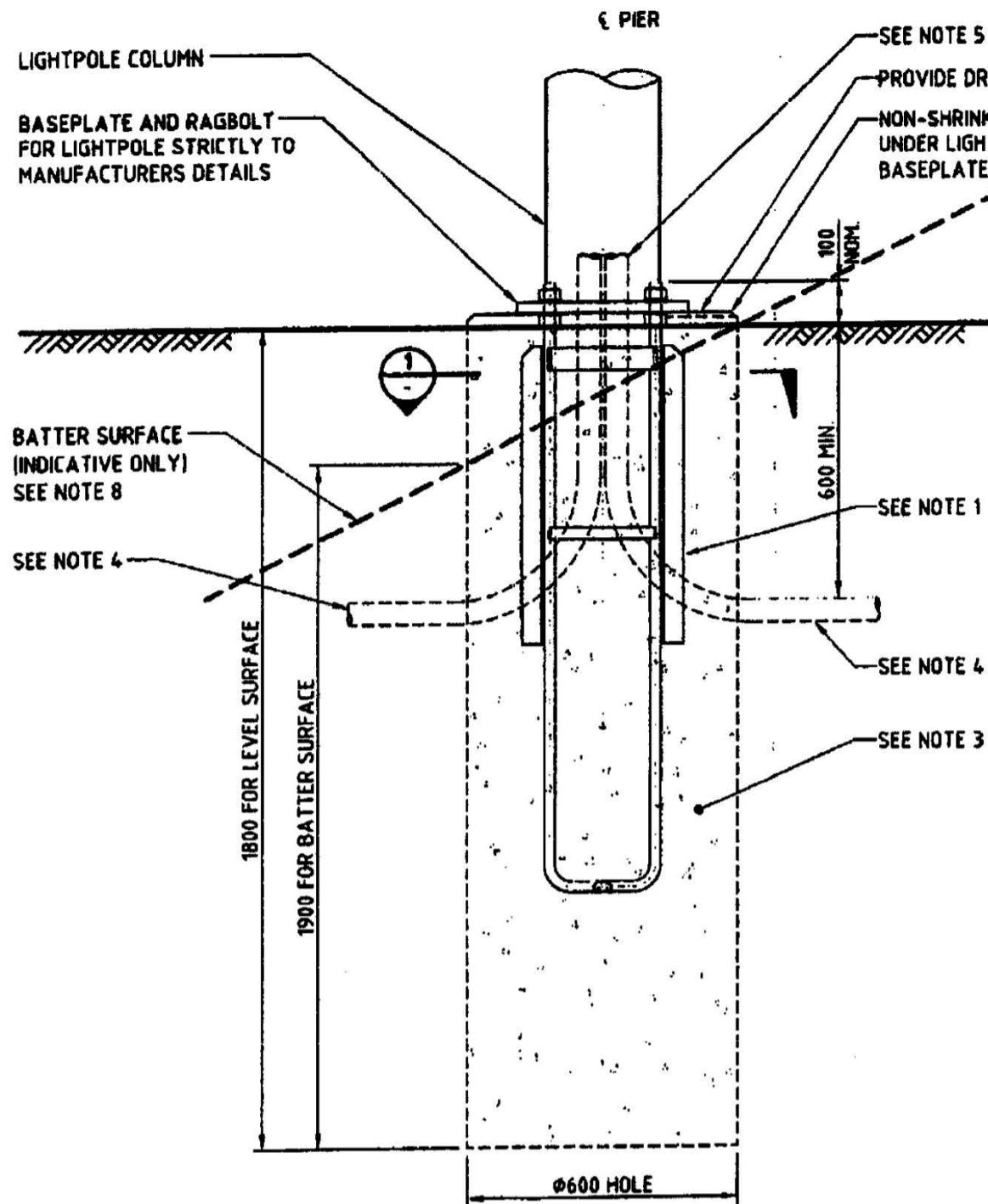
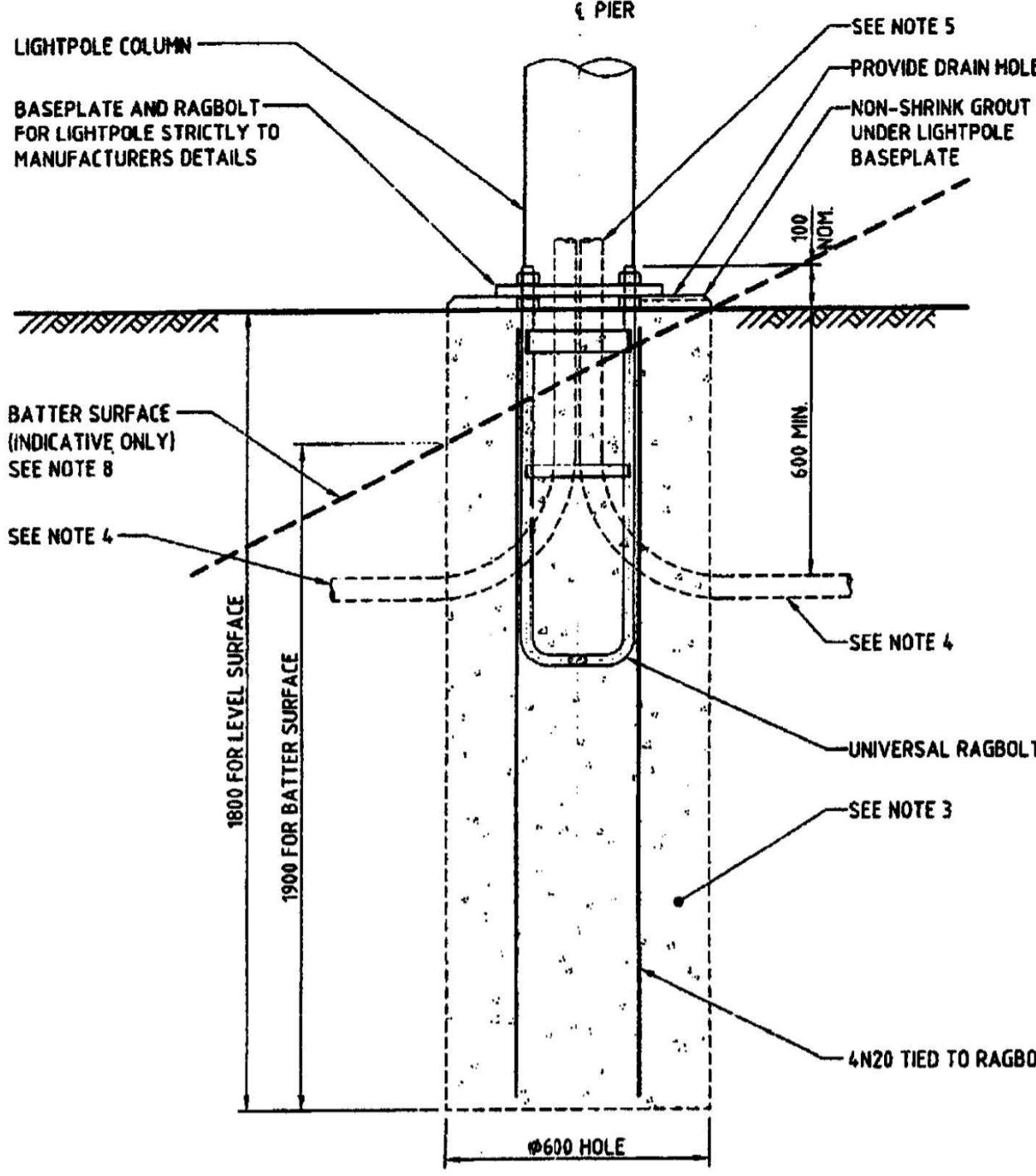
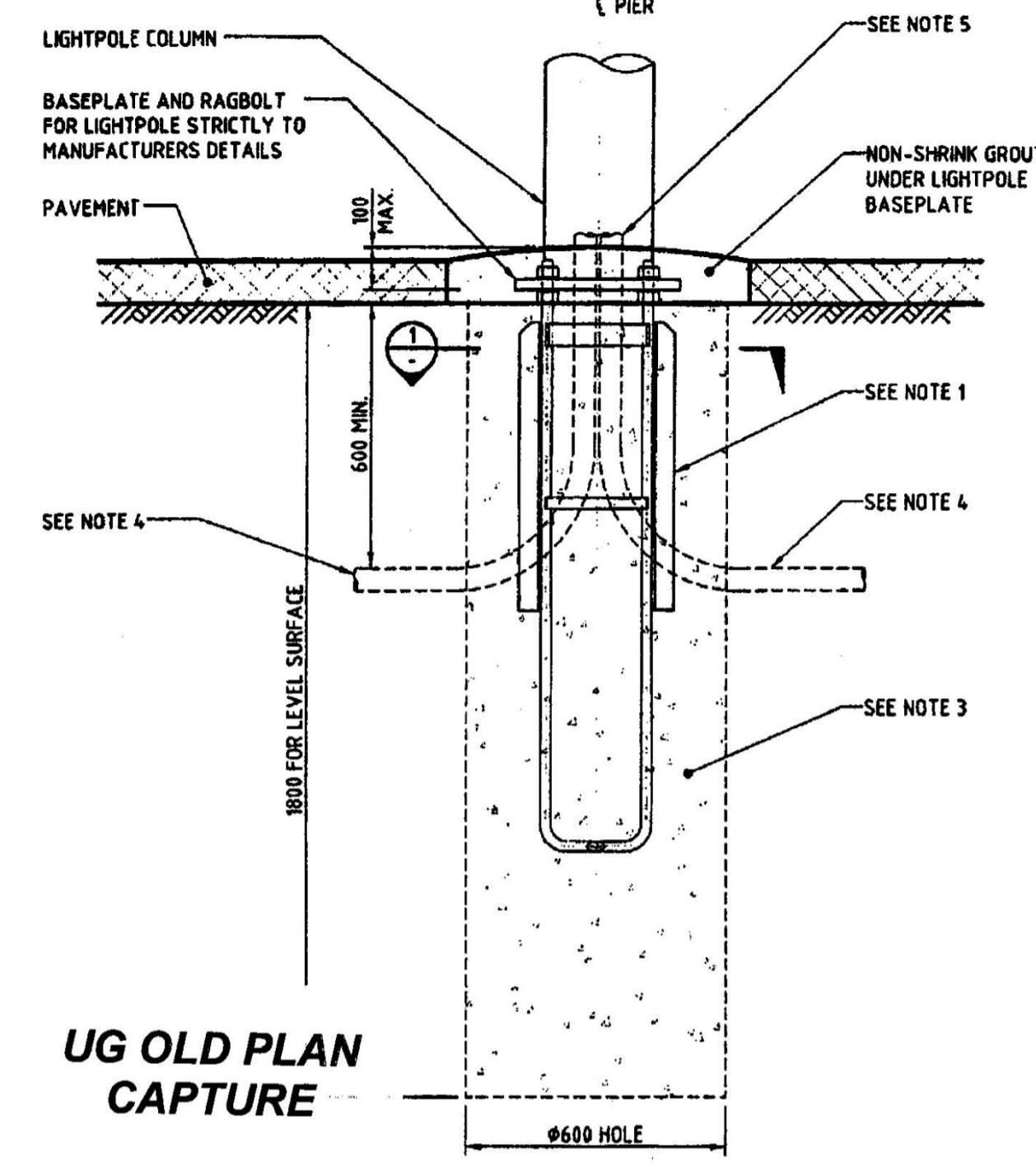
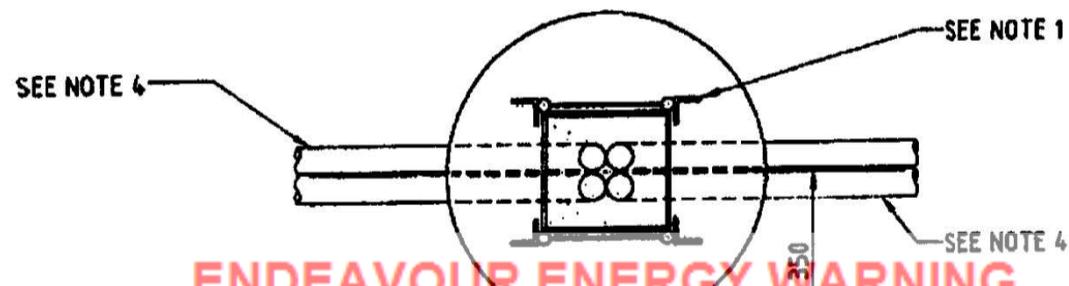
— HV SWITCHING STATION 25630

— HV CABLE 104508

— HV CABLE 10436

— HV CABLE 10435

</

GENERAL FOUNDATION DETAIL
SCALE 1:10GENERAL FOUNDATION ALTERNATIVE DETAIL FOR UNIVERSAL RAGBOLT
SCALE 1:10FOUNDATION IN PAVED AREA DETAIL
SCALE 1:10COMBINATION
WAE / FB

ENDEAVOUR ENERGY WARNING

PROPERTY BOUNDARY
This plan shows the approximate location of underground cables relative to fixtures existing when the cables were laid and has been prepared solely for Endeavour Energy's own use. Endeavour Energy has taken all reasonable steps to ensure that the information shown is as accurate as possible but will accept no liability for inaccuracies in the information shown on such plans from any cause whatsoever arising.

NOTES:

1. TYPE 2 RAGBOLT ASSEMBLY.
2. ANY VARIATION TO DIMENSIONS TO BE APPROVED BY LIGHTING SOLUTIONS MANAGER.
3. CONCRETE TO BE MINIMUM 20 MPa COMPRESSIVE STRENGTH.
4. INSTALL 4 x 50mm DIAMETER HD CONDUITS, FEMALE/FEMALE, 304mm RADIUS BENDS. INSTALL CONDUIT END CAPS TO PREVENT THE ENTRY OF CONCRETE.
5. CUT OFF CONDUITS 200mm ABOVE FINAL GROUND LEVEL.
6. MAXIMUM COLUMN HEIGHT IS 10m TO GIVE MAXIMUM MOUNTING HEIGHT OF 12m. MAXIMUM OUTREACH IS 6m LONG.
7. WHERE FOOTING IS TO BE INSTALLED IN A BATTER THEN 'FORMATUMATE' OR SIMILAR MUST BE USED TO ALLOW THE BASE PLATE TO SIT ABOVE FINAL GROUND LEVEL.

Persons excavating are expected to exercise all due care in the vicinity where cables are indicated and will be held liable for any damage caused to Endeavour Energy's Property.

STATUS: DRAWN BY DATE: DRAWING NO: REV: A DETAILED DESIGN part N777-US-2144-012

Comments: A detailed design part N777-US-2144-012 is considered as it is until proved otherwise. NORTH WEST TRANSITWAY REFERENCE appears to be incorrect. Persons excavating near NORTH WEST TRANSITWAY REFERENCE should be aware that severe injury or death can occur.

Seal: DRAWN L.B. DESIGN T.L.
CHECKED C.Y. DATE 4/06/06

Scale: 0.1 0.1 0.2 0.3 0.4 0.5 m

PUBLIC LIGHTING SYSTEM - SCHEDULE OF PROPOSED ADDITIONS AND ALTERATIONS

PAD Pad/Col No	PAD Light No	Street	Suburb	Lamp Type	Charge Code	Mounting Type	Annual Charge	Remarks	Charge to
C5259	L208880	Hawkesbury Rd	Westmead	250WIPS	343	Col	\$48.02	New	
C770091	L208881	Hawkesbury Rd	Westmead	250WIPS	343	Col	\$48.02	New	
C770092	L208882	Hawkesbury Rd	Westmead	250WIPS	343	Col	\$48.02	New	
C770093	L208883	Hawkesbury Rd	Westmead	250WIPS	343	Col	\$48.02	New	
C770094	L208884	Hawkesbury Rd	Westmead	250WIPS	343	Col	\$48.02	New	
C770095	L208885	Hawkesbury Rd	Westmead	250WIPS	343	Col	\$48.02	New	
C770096	L208886	Hawkesbury Rd	Westmead	250WIPS	343	Col	\$48.02	New	
C770097	L208887	Hawkesbury Rd	Westmead	250WIPS	343	Col	\$48.02	New	
C770098	L208888	Hawkesbury Rd	Westmead	250WIPS	343	Col	\$48.02	New	
C770099	L208889	Hawkesbury Rd	Westmead	400WIPS	352	Col	\$42.16	New	
C770100	L208890	Hawkesbury Rd	Westmead	400WIPS	352	Col	\$42.16	New	
C770101	L208891	Hawkesbury Rd	Westmead	400WIPS	352	Col	\$42.16	New	
C770102	L208892	Hawkesbury Rd	Westmead	400WIPS	352	Col	\$42.16	New	
C770103	L208893	Hawkesbury Rd	Westmead	400WIPS	352	Col	\$42.16	New	
C770104	L208894	Hawkesbury Rd	Westmead	400WIPS	352	Col	\$42.16	New	
C770105	L208895	Hawkesbury Rd	Westmead	250WIPS	343	Col	\$48.02	New	
C770106	L208896	Hawkesbury Rd	Westmead	250WIPS	343	Col	\$48.02	New	
C770108	L208898	Hawkesbury Rd	Westmead	250WIPS	343	Col	\$48.02	New	
C770109	L208899	Hawkesbury Rd	Westmead	250WIPS	343	Col	\$48.02	New	
C770110	L208900	Hawkesbury Rd	Westmead	250WIPS	343	Col	\$48.02	New	
C770111	L208901	Hawkesbury Rd	Westmead	250WIPS	343	Col	\$48.02	New	
C770112	L208902	Hawkesbury Rd	Westmead	250WIPS	343	Col	\$48.02	New	
C770113	L208903	Hawkesbury Rd	Westmead	250WIPS	343	Col	\$48.02	New	

Additional Annual Charge: \$1069.30

PROJECT TRACKING & AIM MAINTENANCE
ACTIVITY NAME SIGNATURE DATE
SUBMITTER SIGNATURE DATE
ISSUE NUMBER WW 24-10-07
DISCHARGE LED SIGNATURE DATE 26-10-07
JOB POSTED n SIGNATURE DATE 11-11-07
COMMENTS

SCANNED
11 JUL 2007

COMPLIANT

C238776	L126624	Darcy Rd	Westmead	250WIPS	343	Col	\$48.02	Remove
C238777	L126625	Darcy Rd	Westmead	250WIPS	343	Col	\$48.02	Remove
C238779	L126626	Darcy Rd	Westmead	250WIPS	343	Col	\$48.02	Remove
C238778	L126627	Darcy Rd	Westmead	250WIPS	343	Col	\$48.02	Remove
C238781	L126628	Darcy Rd	Westmead	250WIPS	343	Col	\$48.02	Remove
C238780	L126629	Darcy Rd	Westmead	250WIPS	343	Col	\$48.02	Remove
C238783	L126630	Darcy Rd	Westmead	250WIPS	343	Col	\$48.02	Remove
C238782	L126631	Darcy Rd	Westmead	250WIPS	343	Col	\$48.02	Remove
C238785	L126632	Darcy Rd	Westmead	250WIPS	343	Col	\$48.02	Remove
C238786	L126633	Darcy Rd	Westmead	250WIPS	343	Col	\$48.02	Remove
C238789	L126634	Darcy Rd	Westmead	250WIPS	343	Col	\$48.02	Remove
C238788	L49944	Darcy Rd	Westmead	250WIPS	55	Col	\$348.03	Remove
C238790	L49935	Darcy Rd	Westmead	250WIPS	55	Col	\$348.03	Remove
C238787	L49937	Darcy Rd	Westmead	250WIPS	55	Col	\$348.03	Remove
C238784	L49936	Darcy Rd	Westmead	250WIPS	55	Col	\$348.03	Remove
C238691	L49933	Darcy Rd	Westmead	250WIPS	55	Col	\$348.03	Remove
C238692	L49934	Darcy Rd	Westmead	250WIPS	55	Col	\$348.03	Remove
C238693	L49942	Darcy Rd	Westmead	250WIPS	55	Col	\$348.03	Remove
C238695	L49930	Darcy Rd	Westmead	250WIPS	55	Col	\$348.03	Remove
C238696	L49970	Darcy Rd	Westmead	250WIPS	55	Col	\$348.03	Remove
CS259	L49949	Darcy Rd	Westmead	250WIPS	55	Col	\$348.03	Remove

Reduced Annual Charge: \$408.52

NORTH-WEST TRANSITWAY	
DARCY RD & HAWKESBURY RD, WESTMEAD	
NORTH-WEST TRANSITWAY SECTION 1	
ARP0931	
STREET LIGHT COLUMN FOOTING DETAILS	
SHT 4 OF 4	
MAUNSELL AECOM	Mountail Australia Pty Ltd A.B.N. 20 083 846 925
LE DRAWING NO. A1	LE REV. A
Issue Date: 02/11/2021, Sequence No: 204756947	

Those excavating near Endeavour Energy's cables should be aware that ASBESTOS OR ASBESTOS - CONTAINING MATERIAL MAY BE PRESENT in Endeavour Energy's underground assets and that Organo-Chloride Pesticides(OCP) may be present in concrete and transmission trenches

AMENDMENT
ORIGINAL ISSUE DATE
DRAWN
CHECKED
4

WAE-0706385 26/10/2007

29

Issue Date: 02/11/2021, Sequence No: 204756947

MEMO CHG DATA
Date-Ton: 01.07.09 - 0848pm
CAD File: ENDEAVOUR ENERGY SUBMISSIONS
Affected Area:
1. Darcy Road, Hawkesbury, Westmead
2. Darcy-Hawkesbury Road, Westmead
3. Darcy Road & Darcy Road
4. Darcy Road & Darcy Road, Westmead
5. Darcy Road & Darcy Road, Westmead
6. Darcy Road & Darcy Road, Westmead
7. Darcy Road & Darcy Road, Westmead
8. Darcy Road & Darcy Road, Westmead



OUTREACH ARM 6m
NORTH EAST KERB
OUTREACH ARM 5m
SOUTH EAST KERB
PROPERTY BOUNDARY
WITHIN 0-900
5m
NORTH EAST KERB
3m
SOUTH EAST KERB
KERB
ROAD

TYPICAL STREET LIGHTING COLUMN SETBACK - DACY ROAD

NOT TO SCALE

OUTREACH ARM 4.5m
PROPERTY BOUNDARY
WITHIN 0-900
3m
SOUTH EAST KERB
KERB
ROAD

ENDEAVOUR ENERGY WARNING TYPICAL STREET LIGHTING

This plan shows the location of underground cables relative to fixtures. It is the responsibility of the customer to take all reasonable steps to ensure that the information is as accurate as possible but will accept no liability for inaccuracies in this plan. It is the responsibility of the customer to take all reasonable steps to ensure that the information is as accurate as possible but will accept no liability for inaccuracies in this plan. It is the responsibility of the customer to take all reasonable steps to ensure that the information is as accurate as possible but will accept no liability for inaccuracies in this plan. It is the responsibility of the customer to take all reasonable steps to ensure that the information is as accurate as possible but will accept no liability for inaccuracies in this plan.

Persons excavating are expected to exercise all due care in the vicinity where cables are indicated and will be held responsible for any damage caused. Endeavour Energy's Property

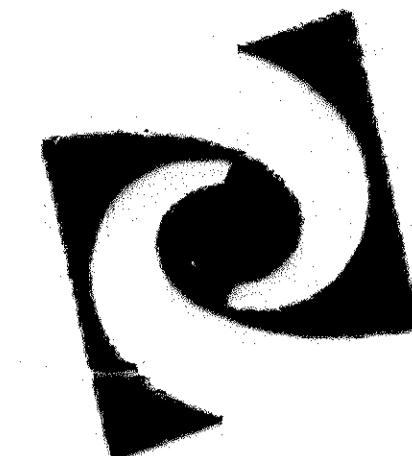
LIGHTING DESIGN CERTIFICATION

THIS STREET LIGHTING DESIGN HAS BEEN BASED UPON INFORMATION RECEIVED AS BEING CORRECT AND COMPLETE AND IS CERTIFIED TO COMPLY WITH THE RELEVANT SECTIONS OF AS/NZS 1604 STANDARDS

THE STREET LIGHTING SHALL BE INSTALLED AS SPECIFIED ON THE DRAWINGS. NO VARIATIONS ARE ALLOWED WITHOUT THE WRITTEN CONSENT OF WEBB AUSTRALIA GROUP'S PROJECT DESIGNER

DATE: 17.02.09
DRAWING NO: 777-US-2144113
REVISION: A

NAME: [Signature] DATE: 17.02.09



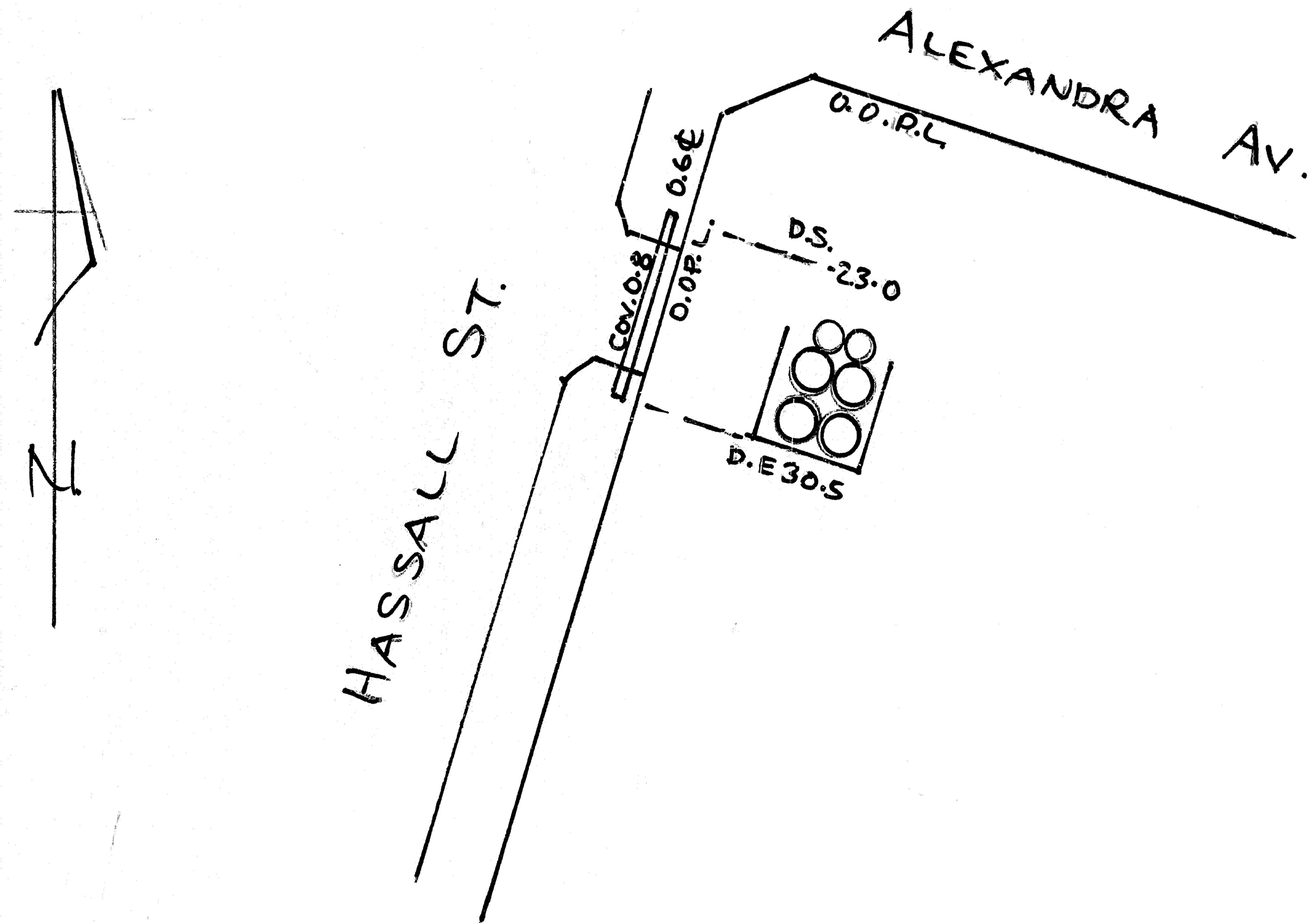
INTEGRAL
energy

UNDERGROUND RETICULATION INSPECTION

NETWORK DATA BRANCH

F. B. No: 11568

Contact: MANTASK. DEVELOPMENT	Completed: 17.7.98
Location: HASSELL ST WESTMEAD.	Recorded by: G. BRIEN.
Commenced: 17.7.98	U. G. Plan No: 9152-3.4.3.8



INSPECTION OF UNDERGROUND ASSETS

SATISFACTORY

UNSATISFACTORY

REMARKS:

DEP DEP

SIGNATURE:

SDP SDP

DATE:

ENDEAVOUR ENERGY WARNING

This plan shows the approximate location of underground cables relative to fixtures existing when the cables were laid, and has been prepared for your use. Endeavour Energy has taken all reasonable steps to ensure that the information is as accurate as possible but will accept no liability for inaccuracies in the information shown on such plans from any cause whatsoever arising.

Persons excavating are expected to exercise all due care in the vicinity where cables are indicated and will be held responsible for any damage caused to Endeavour Energy's Property.

All Electrical apparatus shall be considered as live until proved de-energised. Contact with live electrical apparatus will cause severe injury or death.

Those excavating near Endeavour Energy's cables should be aware that ASBESTOS OR ASBESTOS - CONTAINING MATERIAL MAY BE PRESENT. Endeavour Energy's underground assets and that Organochloride Pesticides(OCP) may be present in some sub-transmission trenches.

FMP 4014

SEPTEMBER 1996

WARNING

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- The customer must obtain a new set of plans from Endeavour Energy if work has not been started or completed within twenty (**20**) working days of the original plan issue date.
- The customer must contact Endeavour Energy if any of the plans provided have blank pages, as some underground asset information may be incomplete.
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- Endeavour Energy plans **do not** show any underground customer service mains or information relating to service mains within private property.
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DISCLAIMER

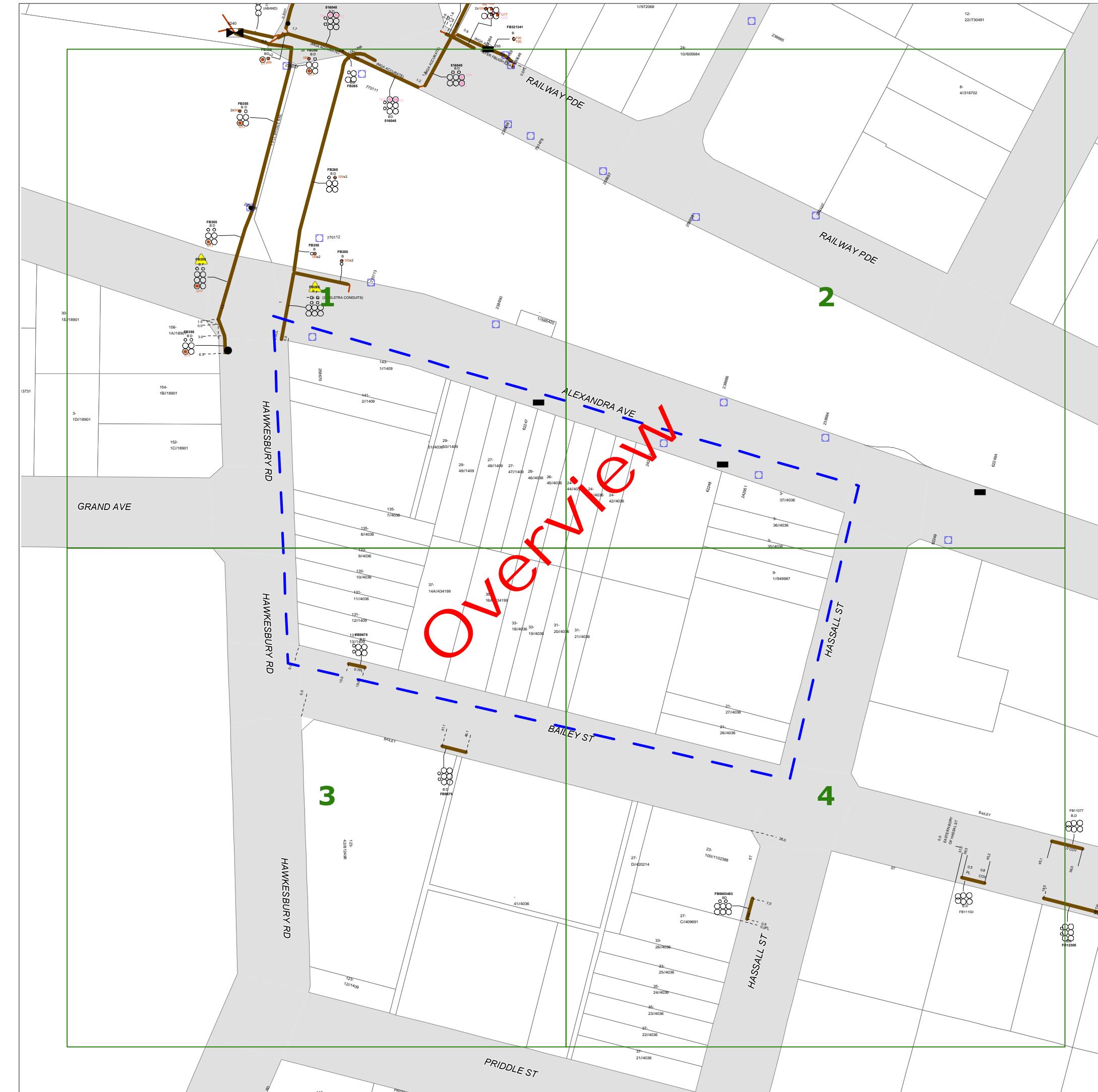
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LEGEND

□ or ■	Street light column
■	Padmount substation
□ or ■	Overground pillar (O.G.Box)
■	Underground pit
—	Duct run
—	Cable run
○○○	Typical duct section
▲	Asbestos warning


NOT TO SCALE

DBYD Sequence No.:	204756947
Issued Date:	02/11/2021



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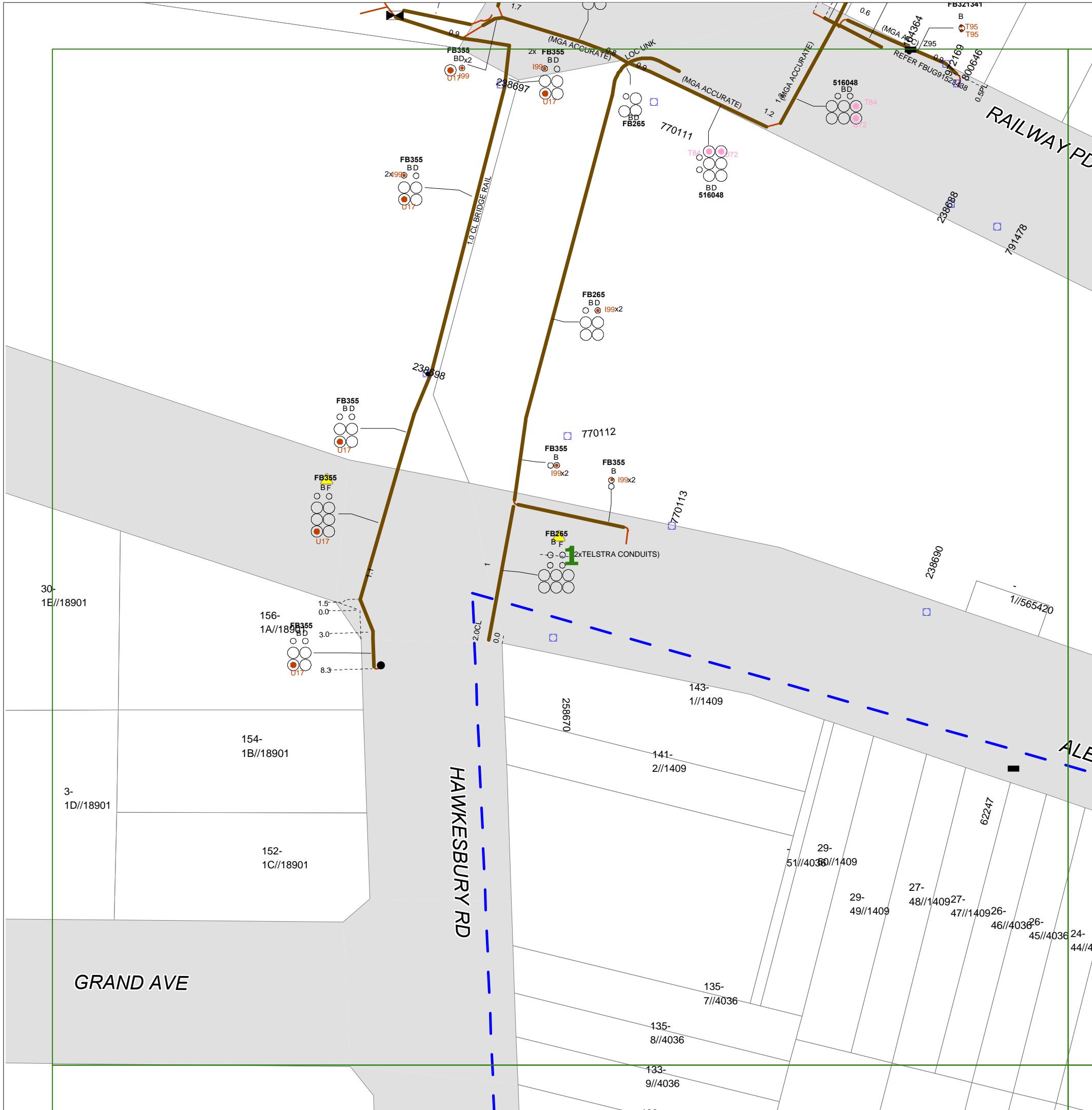
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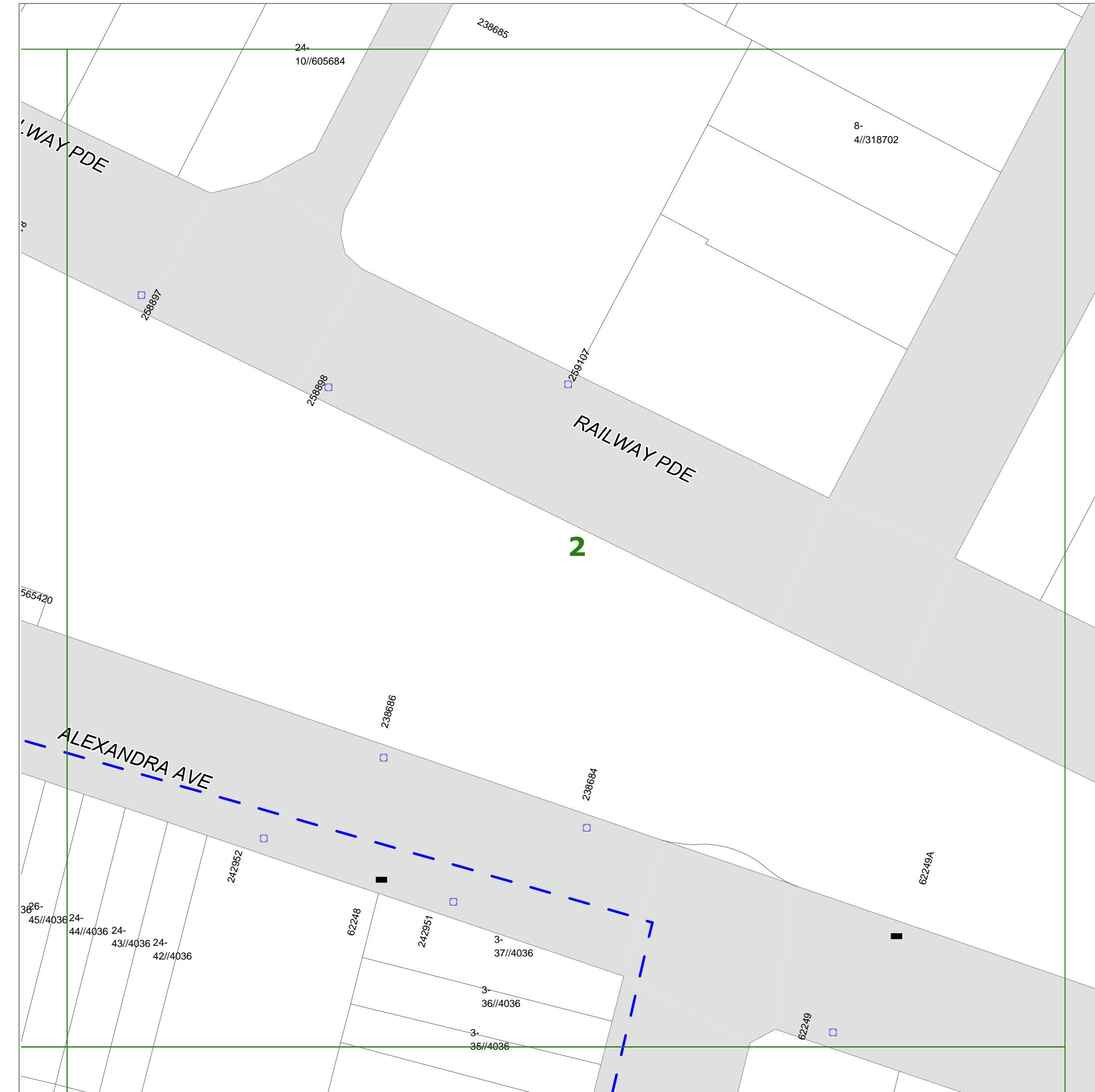
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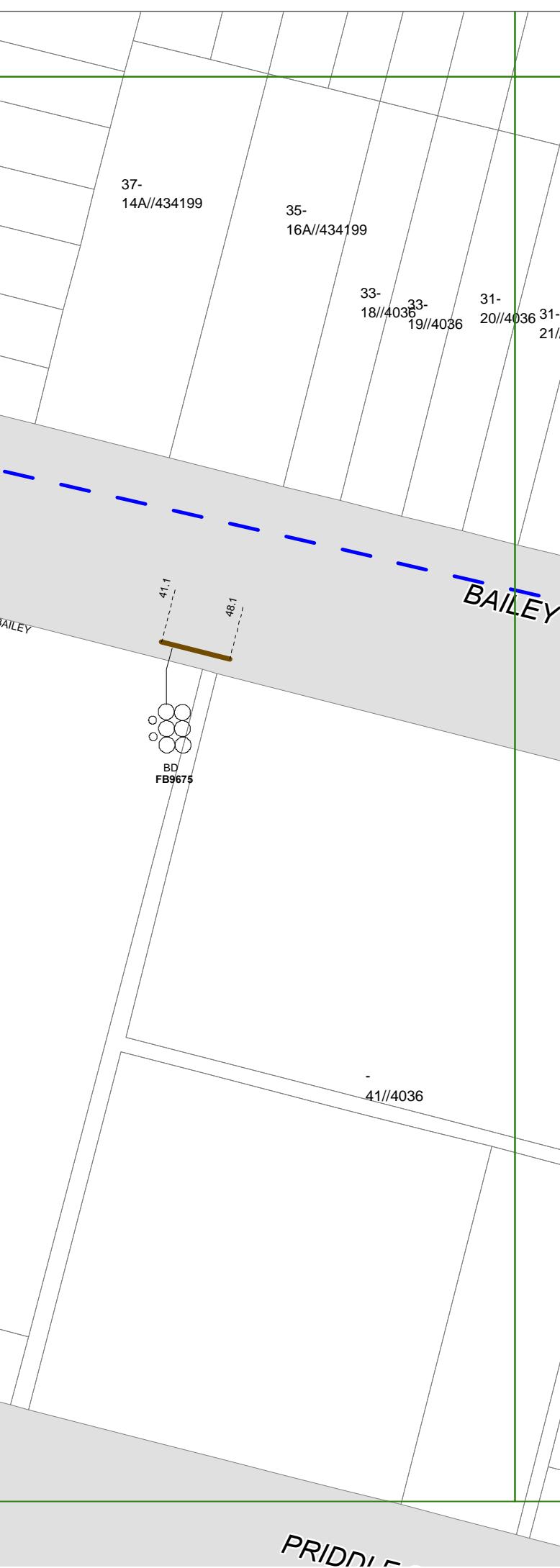
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			Cable run
			Typical duct section
			Asbestos warning

N

NOT TO SCALE

DBYD Sequence No.:	204756947
Issued Date:	02/11/2021

HAWKESBURY RD
3
HAWKESBURY RD
**123-
42//812496**
**123-
12//1409**
41//4036
PRIDN


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NOT TO SCALE

DBYD Sequence No.:	204756947
Issued Date:	02/11/2021

If further clarification is required, please contact:
Endeavour Energy
Phone: (02) 9853 4161 (8:00am-4:30pm Mon-Fri)
Emergency Phone Number: 131 003



BEFORE COMMENCING EXCAVATION YOU MUST READ AND UNDERSTAND ALL INFORMATION PROVIDED IN THE DBYD RESPONSE AND LISTED BELOW

BACKGROUND

Endeavour Energy is able to make available plans of its underground assets to persons who intend to undertake excavation works in Endeavour Energy's distribution area. Any plans provided to you are made available subject to the provisions set out below, in the provided plans, and in the Endeavour Energy DBYD response Cover Letter.

We have set out below important information regarding the recommended procedures that should be followed when using this service and also the extent of our responsibility in respect of any plans provided. It is very important that you read and understand all the information and disclaimers provided below before excavating.

Information Provided by Endeavour Energy:

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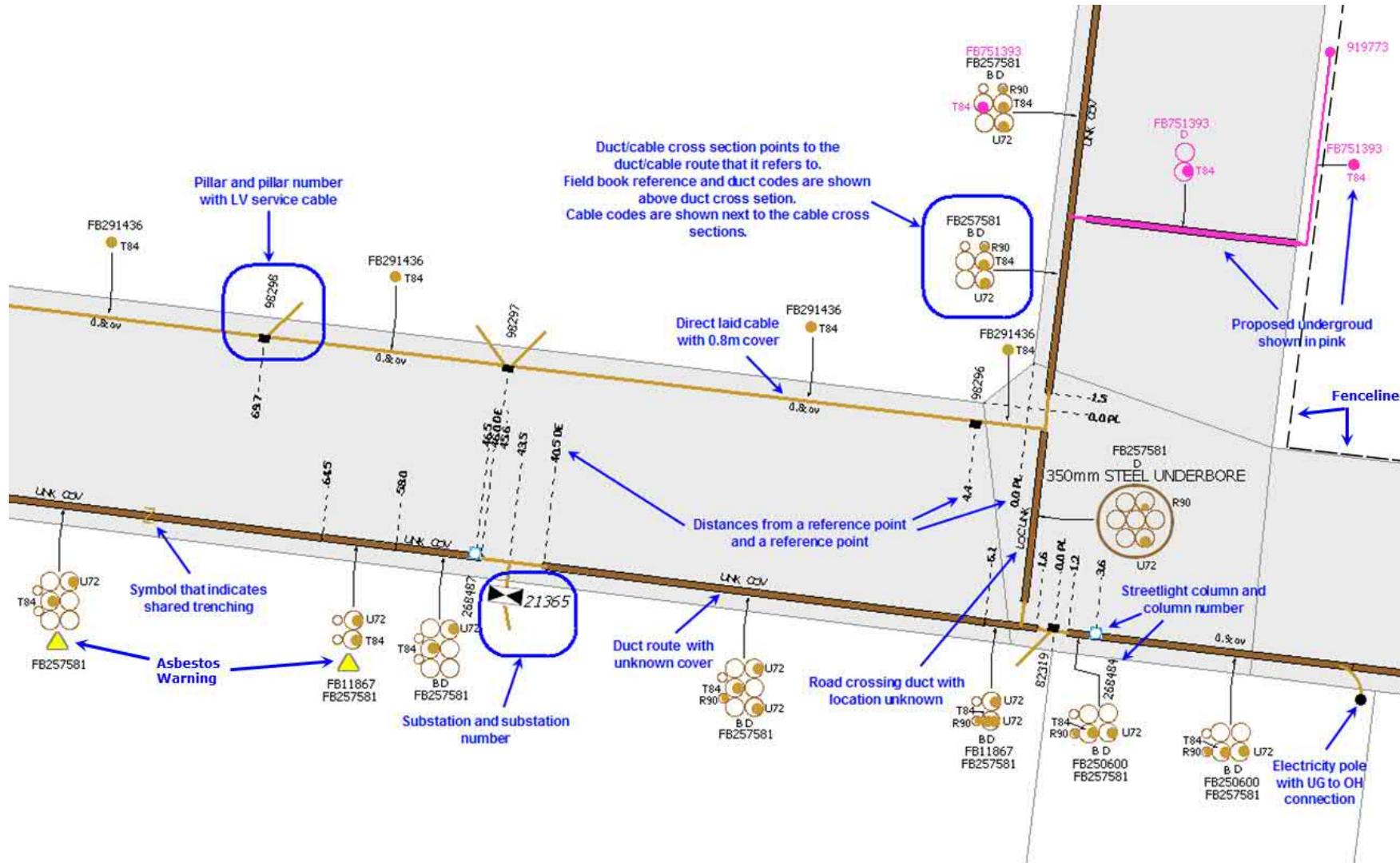
CUSTOMER REQUESTS AND RESPONSIBILITIES

- Endeavour Energy expects to be able to provide relevant plans within 48 hours after a request is made.
- If the enquiry falls within the Transmission Mains area, additional notification requirements shall be complied with as per the instructions in the response Cover Letter.
- Endeavour Energy retains copyright over all plans and details provided in response to a customer's request.
- Persons excavating are expected to exercise all due care in the vicinity where underground assets are indicated and will be held responsible for any damage to any underground assets (including any Endeavour Energy property) or any other loss caused (including consequential losses) as a result of such excavations.
- All underground assets should be visually located by soft digging (pot holing) or hand digging.
- A person who undertakes excavation work is subject to duties and responsibilities under the [Work Health and Safety Act 2011](#) and [Work Health and Safety Regulation 2011](#). Please refer to the Work Cover NSW "Work near underground assets: Guide" and "Excavation work: Code of practice" which contain practical advice for working near underground utility services.
- Any damage to Endeavour Energy's assets must be immediately reported on **131 003**.
- In all cases of electric shock or suspected electric shock the victim shall immediately be transported to hospital or medical centre for treatment.
- If conduit material cannot be identified, it should be assumed to contain asbestos material.
- Endeavour Energy plans are frequently updated to record changes to underground assets. All plans are valid for **20** working days from the date of issue.

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Emergency Phone Number: 131 003

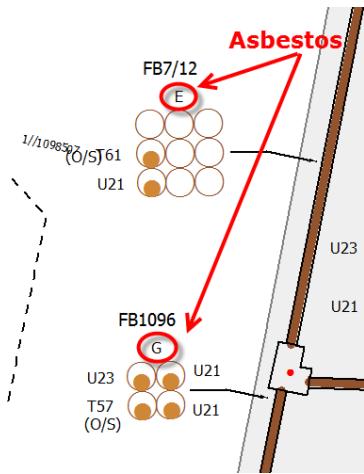


EXAMPLE OF HOW TO READ ENDEAVOUR ENERGY PLANS

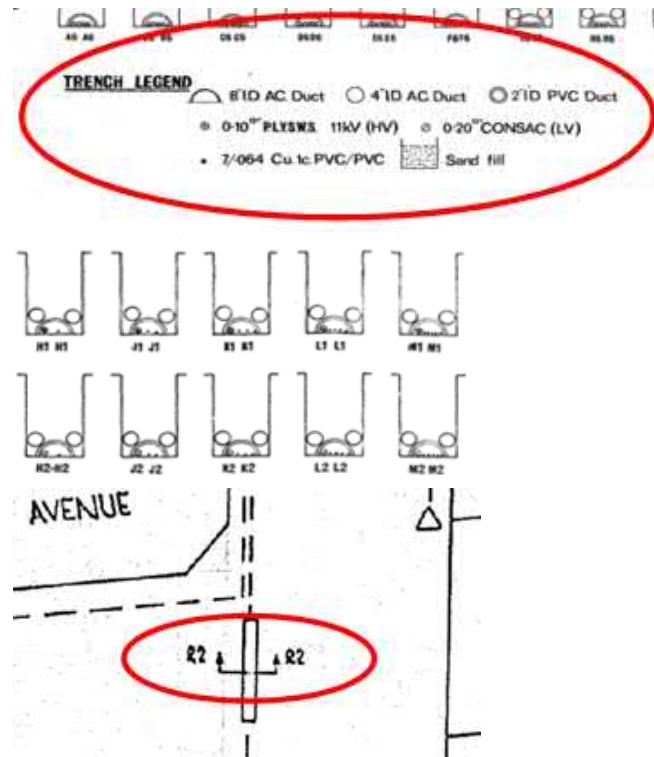


IDENTIFYING ASBESTOS DUCTS

- Duct codes **E, F and G** identify Fibro Conduits

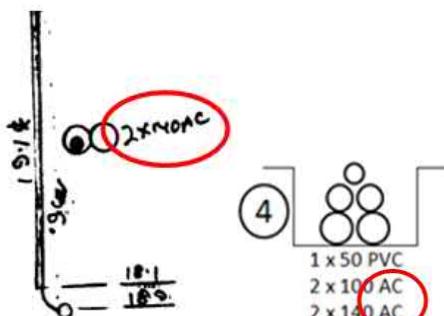
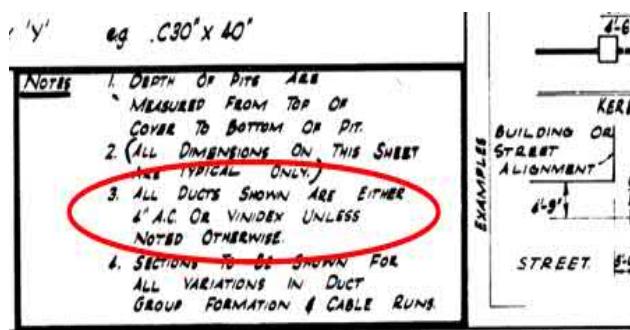


- The duct codes **G,H,J,K,L,M Q,R,S,T,U,V,W & X** under each configuration are used on old Blue Mountains drawings to identify Asbestos

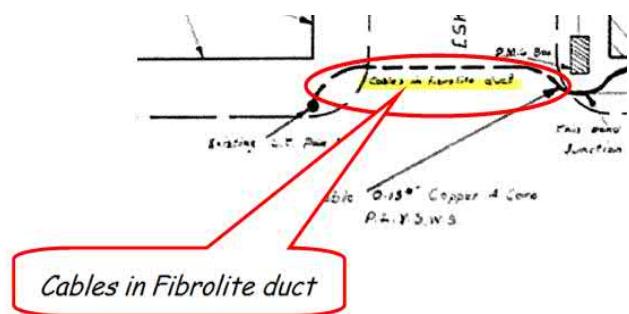


If underground details have not been captured and drawings are used, the method for identifying asbestos ducts and standards are different for the different utilities that amalgamated with Endeavour Energy. Using Reticulation Drawings, there are numerous ways to determine if a duct route has asbestos ducts, refer to following examples:

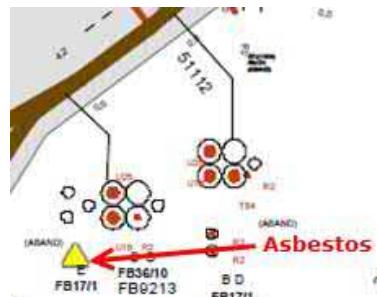
- AC** (Asbestos Cement) acronym



- Fibrolite** (asbestos) ducts



- Yellow **triangle** identifies Fibro Conduits



STANDARD UNDERGROUND SYMBOLS / LABELS

NOTE: If symbology has not been provided on the plan use symbols as shown below.

SYMBOLS & ACRONYMS

	or		Street light column
	or		Overground pillar (O.G.Box)
	Typical duct section		
	Typical underbore section		
	Blocked duct		
	Cable section		
	Asbestos warning		
	STJ, PBJ, TTJ		
STJ	Straight through joint		
PBJ	Parallel branch joint		
TTJ	Transition through joint		
	Underground to overhead pole		
SL	Streetlight conductor		
SC	Service cable		
SE	Cable sealed end		
SF	Service Feeder		
OS	Out of Service		
O.A.M.	Over awning main		
U.A.M.	Under awning main		
N.I.S.	Not in service		
	Fence/dimensioning		
	Shared trenching		
	Service point of attachment		

DUCT CODE LABLES

B = 50 mm PVC
D = 125mm PVC
E = 100mm Fibro Conduit (Asbestos)
F = 140mm Fibro Conduit (Asbestos)
G = 150mm Fibro Conduit (Asbestos)

DEPTH & LOCATION LABELS

0.5- 0.7 COV = 0.5m – 0.7m
0.9 COV = 0.9m Depth
UNK COV = Depth Unknown
LOC UNK = Location Unknown
0.9 PL = Located 0.9m from Property Line

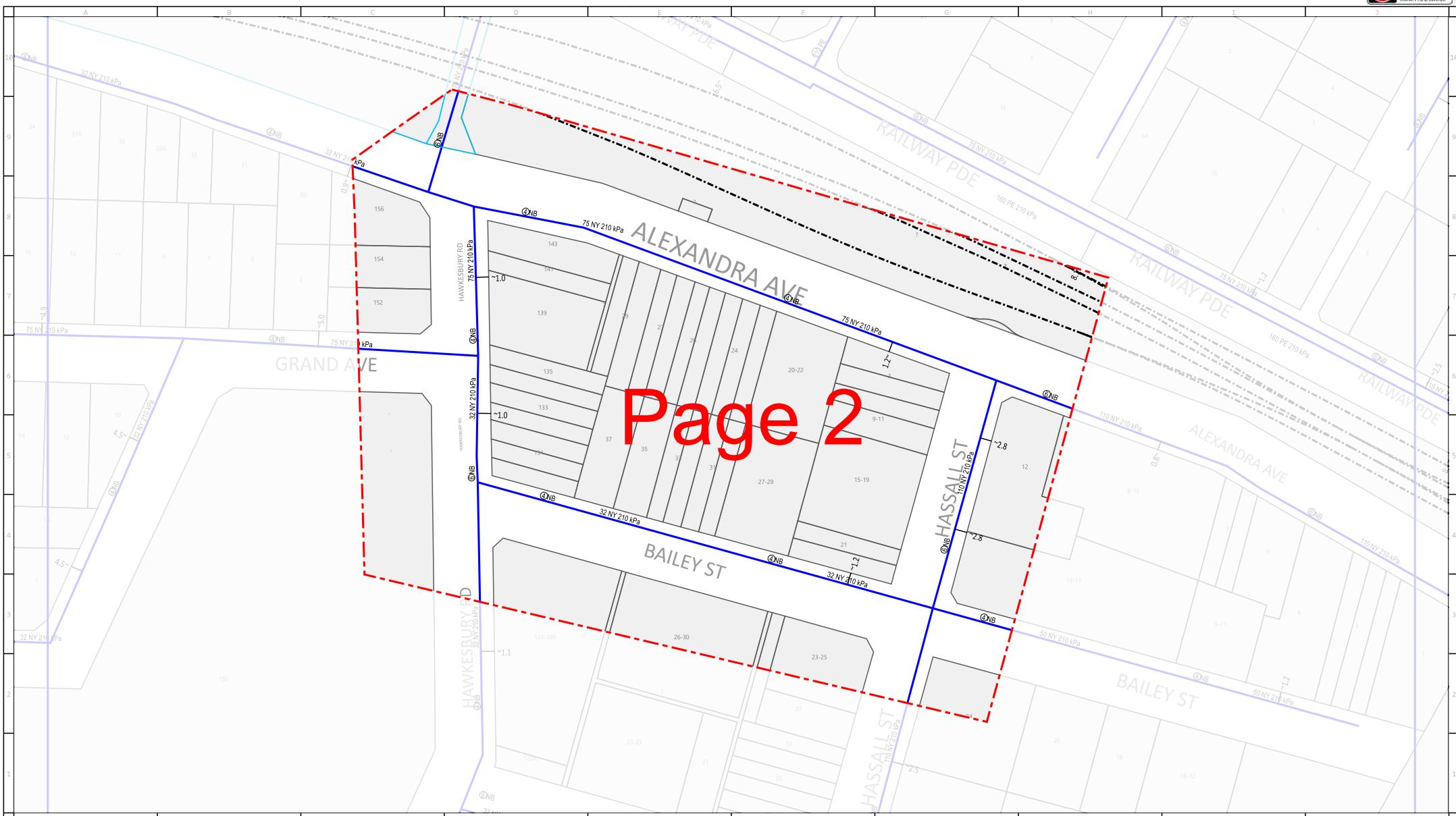


Natural Gas

jemena

bringing energy to life



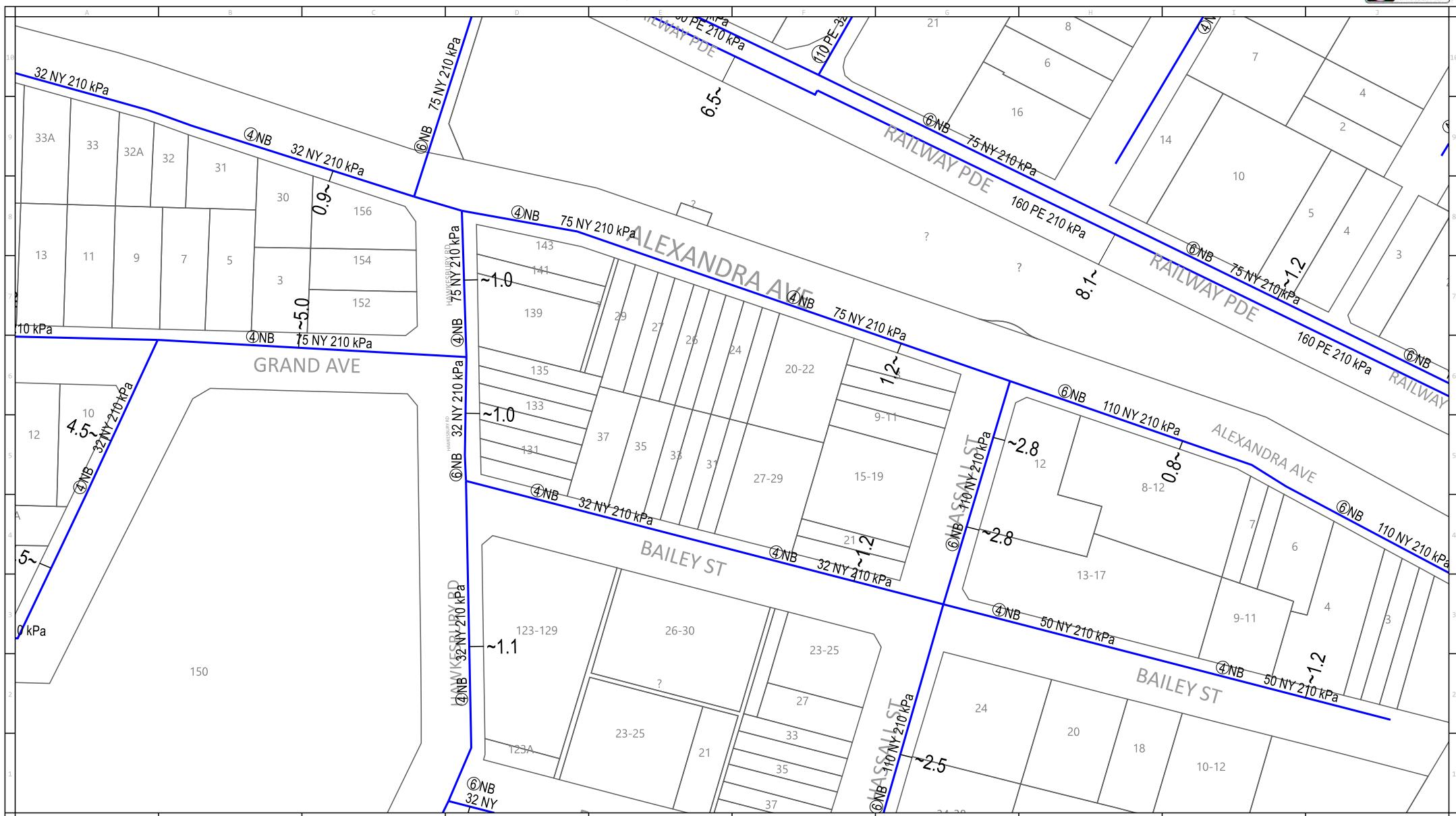


For legend details, please refer to the Coversheet attachment provided as part of this DBYD response.

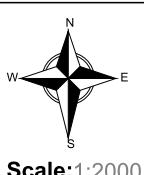


Issue Date: 02/11/2021
DBYD Seq No: 204756950
DBYD Job No: 30815700
Overview Page:

Scale: 1:2101



For legend details, please refer to the Coversheet attachment provided as part of this DBYD response.



Issue Date: 02/11/2021
DBYD Seq No: 204756950
DBYD Job No: 30815700

WARNING: This is a representation of Jemena Gas Networks underground assets only and may not indicate all assets in the area. It must not be used for the purpose of exact asset location in order to undertake any type of excavation. This plan is diagrammatic only, and distances scaled from this plan may not be accurate. Please read all conditions and information on the attached information sheet. This extract is subject to those conditions. The information contained on this plan is only valid for 28 days from the date of issue.



Jemena Gas Network Protection

Assets Affected

This information is only valid for 28 days from the date of issue

In reply to your enquiry, there are **Gas Mains** in the vicinity of your intended work, as generally illustrated on the attached map. There may also be other mains or services at the location, as discussed in the warning below.

For an explanation of the map, please see the information below and the legend attachment.

Please note that you have a duty of care to ensure that Jemena gas mains are not compromised or damaged during any future development or construction work.

Excavation Guidelines

It is essential the location of gas pipe/s are confirmed by carefully pot-holing by hand excavation prior to proceeding with mechanical excavation in the vicinity of gas pipes. If you cannot locate the gas main, contact the local depot.

In accordance with clause 34(5) of the Gas Supply (Safety and Network Management) Regulation 2013 (NSW), you should be informed that all excavation, (including pot-holing by hand to confirm the location of pipes) should be performed in accordance with "**Work Near Underground Assets Guideline**" published in 2007 by the Work Cover Authority.

A copy of this Guideline is available at: www.safework.nsw.gov.au

DBYD Administration 1300 880 906

Warning: The enclosed plans show the position of Jemena Gas Networks (NSW) Ltd's underground gas mains and installations in public gazetted roads only. Individual customers' services and services belonging to other third parties are not included on these plans. These plans have been prepared solely for the use of Jemena Gas Networks (NSW) Ltd and Jemena Asset Management Pty Ltd (together "**Jemena**") and any reliance placed on these plans by you is entirely at your own risk. The plans may show the position of underground mains and installations relative to fences, buildings etc., as they existed at the time the mains etc were installed. The plans may not have been updated to take account of any subsequent change in the location or style of those features since the time at which the plans were initially prepared. Jemena makes no warranty as to the accuracy or completeness of the enclosed plans and does not assume any duty of care to you nor any responsibility for the accuracy, adequacy, suitability or completeness of the plans or for any error, omission, lack of detail, transmission failure or corruption in the information provided. Jemena does not accept any responsibility for any loss that you or anyone else may suffer in connection with the provision of these plans, however that loss may arise (including whether or not arising from the negligence of Jemena, its employees, agents, officers or contractors).

The recipient of these plans must use their own care and diligence in carrying out their works and must carry out further surveys to locate services at their work site. Persons excavating or carrying out other earthworks will be held responsible for any damage caused to Jemena's underground mains and equipment. In accordance with the Work Near Underground Assets Guideline published in 2007 by Work Cover Authority, Jemena recommends that you carry out potholing by hand to accurately confirm the location of gas mains and installation prior to commencing excavations.

In case of Emergency Phone 131 909 (24 hours)

Admin 1300 880 906

Network Mains

Network Assets

-  Siphon
 -  Network Valve
 -  High Pressure Main Line Valve ($\Rightarrow 1050\text{kPa}$)
 -  High Pressure Automatic Line Break Valve ($> 1050\text{kPa}$)
 -  Distribution Regulator Set ($= < 1050\text{kPa}$)
 -  High Pressure Regulating Station ($> 1050\text{kPa}$)

Annotations

Pipe and Conduit Material Codes

NY	Nylon	NB	Nominal Bore – Cast Iron
PE	Polyethylene	ST	Steel
P/PL	Plastic (undefined)	C/CO	Copper
PVC	Polyvinyl Chloride		

Pipe code combinations and dimension references

⑥NB 50MM NY 50mm Nylon main inserted into 6 inch (Nominal Bore) Cast Iron pipe

50MM 32MM NY 32mm Nylon main inserted into 50mm Steel pipe

~1.5 Distance (in metres) of main from Boundary Line (MBL)

MBK	Distance in Metres Back of Kerb
MKL	Distance in Metres from Kerb Line
MEBL	Distance in Metres from Eastern Boundary Line (North/South/West)
MCL	Distance in Metres from Centre Line of Road
MFL	Distance in Metres from Fence Line



Working near nbn™ cables

nbn has partnered with Dial Before You Dig to give you a single point of contact to get information about **nbn** underground services owned by **nbn** and other utility/service providers in your area including communications, electricity, gas and other services. Contact with underground power cables and gas services can result in serious injury to the worker, and damage and costly repairs. You must familiarise yourself with all of the Referral Conditions (meaning the referral conditions referred to in the DBYD Notice provided by **nbn**).

Practice safe work habits

Once the DBYD plans are reviewed, the Five P's of Excavation should be adopted in conjunction with your safe work practices (which must be compliant with the relevant state Electrical Safety Act and Safe Work Australia "Excavation Work Code of Practice", as a minimum) to ensure the risk of any contact with underground **nbn** assets are minimised.



Plan: Plan your job by ensuring the plans received are current and apply to the work to be performed. Also check for any visual cues that may indicate the presence of services not covered in the DBYD plans.

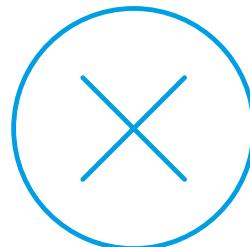
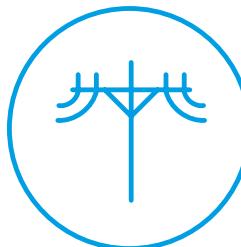
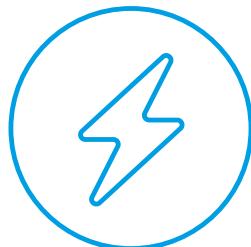
Prepare: Prepare for your job by engaging a DBYD Certified Plant Locator to help interpret plans and identify on-site assets. Contact **nbn** should you require further assistance.

Pothole: Non-destructive potholing (i.e. hand digging or hydro excavation) should be used to positively locate **nbn** underground assets with minimal risk of contact and service damage.

Protect: Protecting and supporting the exposed **nbn** underground asset is the responsibility of the worker. Exclusion zones for **nbn** assets are clearly stated in the plan and appropriate controls must be implemented to ensure that encroachment into the exclusion zone by machinery or activities with the potential to damage the asset is prevented.

Proceed: Proceed only when the appropriate planning, preparation, potholing and protective measures are in place.

Working near nbn™ cables



Identify all electrical hazards, assess the risks and establish control measures.

When using excavators and other machinery, also check the location of overhead power lines.

Workers and equipment must maintain safety exclusion zones around power lines.

Once all work is completed, the excavation should be re-instated with the same type of excavated material unless specified by **nbn**. Please note:

- Construction Partners of **nbn** may require additional controls to be in place when performing excavation activities.
- The information contained within this pamphlet must be used in conjunction with other material supplied as part of this request for information to adequately control the risk of potential asset damage.

Contact

All **nbn™** network facility damages must be reported online [here](#).
For enquiries related to your DBYD request please call 1800 626 329.

Disclaimer

This brochure is a guide only. It does not address all the matters you need to consider when working near our cables. You must familiarise yourself with other material provided (including the Referral Conditions) and make your own inquiries as appropriate.

nbn will not be liable or responsible for any loss, damage or costs incurred as a result of reliance on this brochure.

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To: Elisha cassidy
Phone: Not Supplied
Fax: Not Supplied
Email: elisha.cassidy@ade.group

Dial before you dig Job #:	30815700
Sequence #	204756944
Issue Date:	01/11/2021
Location:	33 Bailey Street , Westmead , NSW , 2145

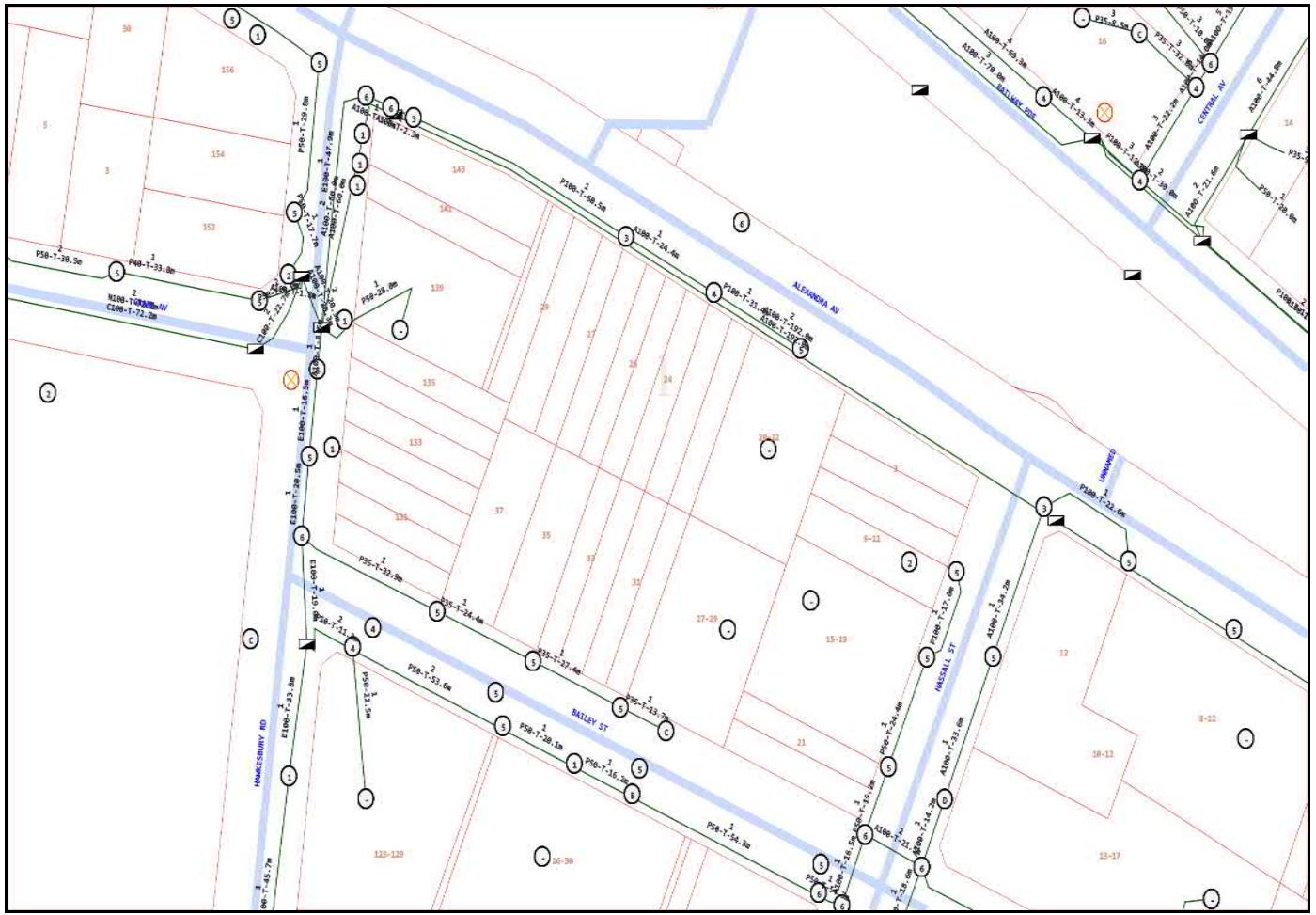


Indicative Plans



LEGEND

	Parcel and the location
	Pit with size "5"
	Power Pit with size "2E". Valid PIT Size: e.g. 2E, 5E, 6E, 8E, 9E, E, null.
	Manhole
	Pillar
	Cable count of trench is 2. One "Other size" PVC conduit (PO) owned by Telstra (-T-), between pits of sizes, "5" and "9" are 25.0m apart. One 40mm PVC conduit (P40) owned by NBN, between pits of sizes, "5" and "9" are 20.0m apart.
	2 Direct buried cables between pits of sizes, "5" and "9" are 10.0m apart.
	Trench containing any INSERVICE/CONSTRUCTED (Copper/RF/Fibre) cables.
	Trench containing only DESIGNED/PLANNED (Copper/RF/Fibre/Power) cables.
	Trench containing any INSERVICE/CONSTRUCTED (Power) cables.
	Road and the street name "Broadway ST"
Scale	0 20 40 60 Meters 1:2000 1 cm equals 20 m



Emergency Contacts

You must immediately report any damage to the nbn™ network that you are/become aware of. Notification may be by telephone - 1800 626 329.

To: Elisha cassidy
Phone: Not Supplied
Fax: Not Supplied
Email: elisha.cassidy@ade.group

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**DIAL BEFORE
YOU DIG**
www.1100.com.au

Information

The area of interest requested by you contains one or more assets.

nbn™ Assets	Search Results
Communications	Asset identified
Electricity	No assets

In this notice **nbn™ Facilities** means *underground fibre optic, telecommunications and/or power facilities, including but not limited to cables, owned and controlled by nbn™*

Location of nbn™ Underground Assets

We thank you for your enquiry. In relation to your enquiry at the above address:

- nbn's records indicate that there **ARE nbn™ Facilities** in the vicinity of the location identified above ("Location").
- nbn indicative plan/s are attached with this notice ("Indicative Plans").
- The Indicative Plan/s show general depth and alignment information only and are not an exact, scale or accurate depiction of the location, depth and alignment of nbn™ Facilities shown on the Plan/s.
- In particular, the fact that the Indicative Plans show that a facility is installed in a straight line, or at uniform depth along its length cannot be relied upon as evidence that the facility is, in fact, installed in a straight line or at uniform depth.
- You should read the Indicative Plans in conjunction with this notice and in particular, the notes below.
- You should note that, at the present time, the Indicative Plans are likely to be more accurate in showing location of fibre optics and telecommunications cables than power cables. There may be a variation between the line depicted on the Indicative Plans and the location of any power cables. As such, consistent with the notes below, particular care must be taken by you to make your own enquiries and investigations to precisely locate any power cables and manage the risk arising from such cables accordingly.
- The information contained in the Indicative Plan/s is valid for 28 days from the date of issue set out above. You are expected to make your own inquiries and perform your own investigations (including engaging appropriately qualified plant locators, e.g DBYD Certified Locators, at your cost to locate nbn™

Facilities during any activities you carry out on site).

We thank you for your enquiry and appreciate your continued use of the Dial Before You Dig Service. For any enquiries related to moving assets or Planning and Design activities, please visit the [nbn Commercial Works](#) website to complete the online application form. If you are planning to excavate and require further information, please email dbyd@nbnco.com.au or call 1800 626 329.

Notes:

1. You are now aware that there are **nbn™** Facilities in the vicinity of the above property that could be damaged as a result of activities carried out (or proposed to be carried out) by you in the vicinity of the Location.
2. You should have regard to section 474.6 and 474.7 of the *Criminal Code Act 1995* (CoA) which deals with the consequences of interfering or tampering with a telecommunications facility. Only persons authorised by **nbn** can interact with **nbn's** network facilities.
3. Any information provided is valid only for **28 days** from the date of issue set out above.

Referral Conditions

The following are conditions on which **nbn** provides you with the Indicative Plans. By accepting the plans, you are agreeing to these conditions. These conditions are in addition, and not in replacement of, any duties and obligations you have under applicable law.

1. **nbn** does not accept any responsibility for any inaccuracies of its plans including the Indicative Plans. You are expected to make your own inquiries and perform your own investigations (including engaging appropriately qualified plant locators, e.g DBYD Certified Locators, at your cost to locate **nbn™** Facilities during any activities you carry out on site).
2. You acknowledge that **nbn** has specifically notified you above that the Indicative Plans are likely to be more accurate in showing location of fibre optics and telecommunications cables than power cables. There may be a variation between the line depicted on the Indicative Plans and the location of any power cables.
3. You should not assume that **nbn™** Facilities follow straight lines or are installed at uniformed depths along their lengths, even if they are indicated on plans provided to you. Careful onsite investigations are essential to locate the exact position of cables.
4. In carrying out any works in the vicinity of **nbn™** Facilities, you must maintain the following minimum clearances:
 - 300mm when laying assets inline, horizontally or vertically.
 - 500mm when operating vibrating equipment, for example: jackhammers or vibrating plates.
 - 1000mm when operating mechanical excavators.
 - Adherence to clearances as directed by other asset owner's instructions and take into account any uncertainty for power cables.
5. You are aware that there are inherent risks and dangers associated with carrying out work in the vicinity of underground facilities (such as **nbn™** fibre optic, copper and coaxial cables, and power cable feed to **nbn™** assets). Damage to underground electric cables may result in:
 - Injury from electric shock or severe burns, with the possibility of death.
 - Interruption of the electricity supply to wide areas of the city.
 - Damage to your excavating plant.
 - Responsibility for the cost of repairs.
6. You must take all reasonable precautions to avoid damaging **nbn™** Facilities. These precautions may include but not limited to the following:
 - All excavation sites should be examined for underground cables by careful hand excavation. Cable cover slabs if present must not be disturbed. Hand excavation needs to be undertaken with extreme care to minimise the likelihood of damage to the cable, for example: the blades of hand equipment should be aligned parallel to the line of the cable rather than digging across the cable.
 - If any undisclosed underground cables are located, notify **nbn** immediately.

- All personnel must be properly briefed, particularly those associated with the use of earth-moving equipment, trenching, boring and pneumatic equipment.
 - The safety of the public and other workers must be ensured.
 - All excavations must be undertaken in accordance with all relevant legislation and regulations.
7. You will be responsible for all damage to **nbn™** Facilities that are connected whether directly, or indirectly with work you carry out (or work that is carried out for you or on your behalf) at the Location. This will include, without limitation, all losses expenses incurred by **nbn** as a result of any such damage.
8. You must immediately report any damage to the **nbn™** network that you are/become aware of. Notification may be by telephone - 1800 626 329.
9. Except to the extent that liability may not be capable of lawful exclusion, **nbn** and its servants and agents and the related bodies corporate of **nbn** and their servants and agents shall be under no liability whatsoever to any person for any loss or damage (including indirect or consequential loss or damage) however caused (including, without limitation, breach of contract negligence and/or breach of statute) which may be suffered or incurred from or in connection with this information sheet or any plans(including Indicative Plans) attached hereto. Except as expressly provided to the contrary in this information sheet or the attached plans(including Indicative Plans), all terms, conditions, warranties, undertakings or representations (whether expressed or implied) are excluded to the fullest extent permitted by law.

All works undertaken shall be in accordance with all relevant legislations, acts and regulations applicable to the particular state or territory of the Location. The following table lists all relevant documents that shall be considered and adhered to.

State/Territory	Documents
National	Work Health and Safety Act 2011
	Work Health and Safety Regulations 2011
	Safe Work Australia - Working in the Vicinity of Overhead and Underground Electric Lines (Draft)
	Occupational Health and Safety Act 1991
NSW	Electricity Supply Act 1995
	Work Cover NSW - Work Near Underground Assets Guide
	Work Cover NSW - Excavation Work: Code of Practice
VIC	Electricity Safety Act 1998
	Electricity Safety (Network Asset) Regulations 1999
QLD	Electrical Safety Act 2002
	Code of Practice for Working Near Exposed Live Parts
SA	Electricity Act 1996
TAS	Tasmanian Electricity Supply Industry Act 1995
WA	Electricity Act 1945
	Electricity Regulations 1947
NT	Electricity Reform Act 2005
	Electricity Reform (Safety and Technical) Regulations 2005
ACT	Electricity Act 1971

Thank You,

nbn DBYD

Date: 01/11/2021

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Sequence Number: 204756949

Date Generated: 02 Nov 2021



For all Optus DBYD plan enquiries –
Email: Fibre.Locations@optus.net.au

For urgent onsite assistance contact 1800 505 777
Optus Limited ACN 052 833 208





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For urgent onsite assistance contact 1800 505 777
Optus Limited ACN 052 833 208





Optus Contract Management Team
Unit 9, 677 Springvale Road
Mulgrave, Victoria, 3178

Date: 02 Nov 2021
To: Elisha cassidy
Company: ADE
Address: 6 Millennium Court
Silverwater, NSW 2128

ENQUIRY DETAILS

Location: 33 Bailey Street, Westmead, NSW 2145
Sequence No.: 204756949
DBYD Reference: 30815700

In relation to your enquiry concerning the above location, Optus advises as follows:

Optus records indicate that there ARE underground Optus FIBRE OPTIC TELECOMMUNICATIONS ASSETS in the vicinity of the above location as per the attached drawing(s).

PLEASE NOTE THAT THE ASSETS IN THIS AREA ARE OF NATIONAL SIGNIFICANCE. Any interference with these assets has the potential to significantly disrupt communications in Australia and may be considered an offence under the Criminal Code Act 1995 (Cth). Optus reserves the right to seek compensation for loss or damage to its assets including consequential loss.

This reply is valid for a period of 30 days from the date above.

IMPORTANT INFORMATION

Asset location drawings provided by Optus are reference diagrams and are provided as a guide only. The completeness of the information in these drawings cannot be guaranteed. Exact ground cover and alignments cannot be provided with any certainty as these may have altered over time. Depths of telecommunications assets vary considerably as do alignments. It is essential to identify the location of any Optus assets in the vicinity prior to engaging in any works.

All Optus assets in the vicinity of any planned works will need to be electronically located to ascertain their general location. Depending on the scope of planned works in the vicinity, the assets may also need to be physically located.

YOU MUST ENGAGE THE SERVICES OF ONE OF THE OPTUS ASSET ACCREDITED LOCATORS TO CARRY OUT ASSET LOCATION (REFER LIST OF ACCREDITED LOCATORS AT THE END OF THIS OPTUS RESPONSE).

Unless otherwise agreed with Optus, where an on-site asset location is required, the requestor is responsible for all costs associated with the locating service including (where required) physically exposing the Optus asset.

DUTY OF CARE

When working in the vicinity of telecommunications assets you have a legal "Duty of Care" and non-interference that must be observed.

It is your responsibility as the requesting party (as a landowner or any other party involved in the planned works) to design for minimal impact to any existing Optus asset. Optus can assist at the design stage through consultation.

It is also your, as the requesting party (or your representative's), responsibility to:

- a) Obtain location drawings (through the Dial Before You Dig process) of any existing Optus assets at a reasonable time before any planned works begin;
- b) Have an Optus Accredited Asset Locator identify the general location of the Optus asset and physically locate the asset where planned works may encroach on its alignment; and
- c) Contact Optus for further advice where requested to do so by this letter.

DAMAGE TO ANY OPTUS ASSET MUST BE REPORTED TO 1800 500 253 IMMEDIATELY

You, your head contractor and any relevant subcontractor are all responsible for any Optus asset damage as a result of planned activities in the vicinity of Optus assets.

This applies where works commence prior to obtaining Optus drawings, where there is failure to follow instructions or during any construction activities.

Optus reserves the right to seek compensation for loss or damage to its assets including consequential loss. Also, you, your head contractor and any relevant subcontractor may also be liable for prosecution under the Criminal Code Act 1995 (Cth).

ASSET RELOCATIONS

You are not permitted by law to relocate, alter or interfere with any Optus asset under any circumstance. Any unauthorised interference with an Optus asset may lead to prosecution under the Criminal Code Act 1995 (Cth). Enquiries relating to the relocation of Optus assets must be referred to the relevant Optus Damages and Relocations Team (refer to "FURTHER ASSISTANCE").

APPROACH DISTANCES

On receipt of Optus asset location drawings and prior to commencing any planned works near an Optus asset, engage an Optus Accredited Locator to undertake a general location of the Optus asset.

Physical location of the Optus asset by an Optus Accredited Locator will also be required where planned works are within the following approach distances of the general location of the Optus asset:

- a) In built up metropolitan areas where road and footpaths are well defined by kerbs or other features a minimum clear distance of 1 meter must be maintained from the general location of the Optus asset.
- b) In non-established or unformed metropolitan areas, a minimum clear distance of 3 meters must be maintained from the general location of the Optus asset.
- c) In country or rural areas where wider variations may exist between the general and actual location of an Optus asset may exist, then a minimum clear distance of 5 meters must be maintained from the general location of the Optus asset.

If planned works are parallel to the Optus asset, then the Optus asset must be physically located by an Optus Accredited Locator at a minimum of 5 meter intervals along the length of the parallel works prior to work commencing.

Under no circumstances is crossing of any Optus asset permitted without physical location of the asset being carried out by an Optus Accredited Locator. Depending on the asset involved an Optus representative may be required onsite.

The minimum clearances to the physical location of Optus assets for the following specific types of works must be maintained at all times.

Note: Where the clearances in the following table cannot be maintained or where the type of work differs from those listed then advice must be sought from the relevant Optus Damages and Relocations Team (refer to "FURTHER ASSISTANCE").

Type of Works	Clearance to Physical Location of Optus Asset
Jackhammers / Pneumatic Breakers	Not within 1 meter.
Light duty Vibrating Plate or Wacker Packer type compactors (not heavy road construction vibrating rollers etc.)	500mm compact clearance cover before a light duty compactor can be used over any Optus conduit. No compaction permitted over Optus direct buried cable without prior approval from Optus.
Boring Equipment (in-line, horizontal and vertical)	Not within 5 meters parallel of the Optus asset location without an Accredited Optus Asset Locator physically exposing the Optus asset and with an Optus representative onsite. Not to cross the Optus asset without an Accredited Optus Asset Locator physically exposing the Optus asset and with an Optus representative onsite.

Type of Works	Clearance to Physical Location of Optus Asset
Heavy vehicle Traffic (over 3 tonnes)	<p>Not to be driven across Optus conduits with less than 600mm of cover.</p> <p>Not to be driven across Optus direct buried cable with less than 1.2 meters of cover.</p> <p>Once off crossings permitted, multiple crossing (e.g. road construction or logging) will require Optus approval.</p> <p>Accredited Optus Asset Locator to physically expose the Optus asset to verify actual depth.</p>
Mechanical Excavators, Farm Ploughing, Vertical Hole installation for water bore or fencing etc.	<p>Not within 1 meter.</p> <p>Accredited Optus Asset Locator to physically expose the Optus asset to verify actual location.</p>

ASSET CLEARANCES AFTER COMPLETION OF WORKS

All Optus pits and manholes must be a minimum of 1 meter from the back of any kerb, 3.5 meters of the road surface without a kerb or not within 15 meters of street intersection.

In urban areas Optus conduit must have the following minimum depth of cover:

- Footway 600mm;
- Roadway 1 meter at drain invert and at road centre crown.

In rural areas Optus conduit must have a minimum depth of cover of 1 meter and direct buried cable 1.2 meters.

In cases where it is considered that the above clearances cannot be maintained at the completion of works, advice must be sought from the relevant Optus Damages and Relocations Team (refer "Further Assistance").

FURTHER ASSISTANCE

Further assistance on asset clearances, protection works or relocation requirements can be obtained by contacting the relevant Optus Damages and Relocations Team on the following email address:

NFODamages&RelocationsDropbox@optus.com.au

Further assistance relating to asset location drawings etc. can be obtained by contacting the Optus Network Operations Asset Analysis Team on 1800 505 777.

OPTUS ENGINEERING DRAWING SYMBOLS

	Optus underground cable		Optus manhole/pit
	Optus underground IOF cable		Other Utility manhole/pit
	Optus conduit		Optus marker post
	Optus cable in Other Utility conduit		Railway / Tram line
	Southern Cross conduit		Highway / Major Road
	Indigo conduit		Arterial Road
	Uecomm conduit		Council Road - minor
	Optus aerial fibre cable		

	Optus underground cable		Optus marker post number
	Optus cable buried jointly with third party utility		Depth of Optus cable Offset to Optus cable
	Optus cable in conduit with subducts		Optus cable depth (approx) Optus cable offset (approx)



Optus Accredited Asset Locators

Name	Company Name	Phone	Email	State	Region/Service Area
Alan Cordner	Alcom Fibre Services Pty Ltd	0400 300 337	alcomfibre@bigpond.com	NSW/ACT	Sydney
Brad McCorkindale	Bradmac Locating Services	0434 157 409	brad.mac@bigpond.com	NSW/ACT	All
Troy Redden	On Point Utility Locating	1300 6676 468	troy@onpointlocating.com.au	NSW	Sydney Only
Shane Buckley	Cable & Pipe Locations	0408 730 430	sabuckley@bigpond.com	NSW/QLD	Armidale, Casino, Coffs Harbour, Dorrigo, Glenn Innes, Grafton, Inverell, Kempsey, Lismore, Nambucca, Port Macquarie, Tamworth, Taree, Tenterfield, Yamba
Philip Pegler	Down Under Detection Services (DUDS)	0418 267 964	apegler@duds.net.au	NSW	All
Tina Stanhope	SureSearch Underground Services	1300 884 520 0418 920 245	tina.stanhope@suresearch.com.au	NSW/ACT QLD	NSW, Sydney, Northern NSW, Canberra, QLD, South East QLD.
Leonard McGowan	Pipesure Australia	1300 411 811	len@pipesure.com.au	NSW	Sydney
Bruce Whittaker	Optical Fibre Technologies	0402 354 322	opticaltek1@aol.com	NSW	Sydney/Wollongong
Darryl Smith	Darryl Smith Electrical	02 6642 3731	office@dsmitelectrical.com.au	NSW	Grafton
George Koenig	Downunder Locations NSW Pty	0438 243 856	Downunderlocations@gmail.com	NSW	Tweed Heads, Gold Coast, Brisbane
Michael Grant	M&K Grant Bega Bobcats Pty Ltd	0427 260 423	zzbobcat@bigpond.net.au	NSW	Bega, Far South Coast
Antony Critcher	Geotrace Pty Ltd	0417 147 945	antony@geotrace.com.au	NSW	All Areas, Sydney, Wollongong, Newcastle, ACT
Anthony Lane	Hydro Digga	0447 774 000	locator@hydrodigga.com	NSW	All of NSW, ACT & South East Qld
Joshua Payne	Australian Utilities Management Pty Ltd	0427 833 222	aine@ausutilities.net.au	NSW	Sydney Metro
Nathan Ellis	Utility Locating Services	0404 087 555	nathan@utilitylocatingservices.com.au	NSW	Sydney

Rodney Pullen	Provac	0450 268 012	rod@provac.net.au	NSW / QLD	South East QLD, Northern NSW
Rodney Pullen	One Find Cables	0451 268 012	rod@provac.net.au	NSW / QLD	South East QLD, Northern NSW
Drew Misko	Australian Subsurface Pty Ltd	0427 879 600	admin@australiansubsurface.com	NSW/ACT	All of NSW/ACT
Scott O'Malley	Coastal Cable Locators Pty Ltd	0427 975 777	skomalley@bigpond.com	NSW	South Coast- Snowy Mountains-Southern Highlands
Liam Bolger	Brandon Construction Services	0438 044 008	liam.bolger@hotmail.com	NSW	Sydney
Brett Pickup	All About Pipes	02 8763 4200	Brett.Pickup@allaboutpipes.com.au	NSW / VIC	All
Karen Joyce	Durkin Construction Pty Ltd	02 9712 0308	karen@durkinconstruction.com.au	NSW	Sydney
Timothy Laidler	Locate & Map	0431 191 669	tim@locateandmap.com.au	NSW	Sydney, Central Coast
Ken Brown	Riteway Traffic Control Pty Ltd	0419 212 969	kbrowne@ritewaytc.com.au	NSW	Central Coast, Hunter
Walter R Johansen	Steger & Associates	02 6296 4089	enquiries@steger.com.au	ACT/NSW	Canberra
Jean-Max Monty	Civilscan	0416 068 060	civilscan@bigpond.com	NSW	Sydney – Central Coast – Newcastle – Wollongong – Hunter Valley – Blue Mountains
Alan Hunter	Hunter Ground Search	02 4953 1244 0418 684 819	huntergroundsearch@bigpond.com	NSW	Newcastle, Central Coast, Hunter Valley, Mid North Coast, Liverpool Plains, Central West NSW.
Gilbert J Cook	Datateks Communications Specialists	0408 693 660	datateks@datateks.com.au	NSW	Southern NSW
Damien Black	Mid North Coast Hydro Digging	0418 409 465	dblack1@bigpond.com	NSW	Newcastle- foster-Taree- Wauchope -Port Macquarie - Kempsey -Coffs harbour
Neil Blenkinsop	Utility Mapping Pty Ltd	0427 318 681	nblenkinsop@utilitymapping.com.au	NSW	Sydney
Daniel Fox	Epoca Environmental Pty Ltd	02 4739 2465 0433 100 642	daniel@epocaenvironmental.com.au	NSW	All NSW, ACT
Rod Shaw	Cable Find	0478 887 073	rod@cablefind.com.au	NSW	Northern Rivers
Danny Carter	Online Pipe & Cable Locating	1300 665 384	danny@onlinepipe.com.au	NSW	Sydney, Newcastel, Canberra, Blue Mountains
Sam Romano	Locating Services	0403 065 510	sam.romano@locatingservices.com.au	NSW	NSW All
Scott Allison	Crux Surveying Australia	02 9540 9940	sydneyoffice@cruxsurveying.com.au	NSW	Sydney Metro & Surrounding Areas

Ian Brown	Peter Ellsmore & Associates	0439 423 708	ian.brown@ellsmore.com.au	NSW	Wollongong, Illawarra, South Coast, Southern Highlands, Macarthur & Sydney
Donna Wullaert	Commence Communications Pty Ltd	02 6226 3869 0428 595 620	admin@commencecomms.com.au	NSW	Canberra, Yass, Bungendore, Goulburn and Surrounding regional Areas
Stephen Fraser	Advanced Ground Locations	02 4930 3195 0412 497 488	steve_agl@hotmail.com	NSW	Newcastle, Hunter Valley, Central Coast, Taree & Surrounding Areas
Andrew Findlay	LiveLocates	0429 899 777	info@livelocates.com.au	NSW	South Coast/ACT, Snowy Mountains
Graeme Teege	Armidale Electrical	02 6772 3702	office@armidale-electrical.com.au	NSW	Armidale
Myles Green	Australian Locating Services	1300 761 545	myles@locating.com.au	NSW	Sydney
Brett Wallin	Utility Scan	0426 354 051	brett@utilityscan.net	NSW	Sydney CBD and Regional areas
Daniel Hudson	One Search Locators	1300 530 420	daniel@onesearchlocators.com.au	NSW	All NSW, ACT
Tim Galaz	Utec Solutions	02 9389 0040	office@utecsolutions.com.au	NSW/QLD/VIC	All areas, NSW, QLD, VIC
Gary Laneyrie	Laneyrie Electrical	0412 079 079 0413 048 048	bindy@laneyrielectrical.com.au	NSW	Illawarra, South Coast, Hunter Region
Reece Gainsford	East Coast Locating Services	0431 193 111	eastcoastlocating@hotmail.com	NSW	Sydney, Maitland, Newcastle, Hunter, Port Stephens, Central Coast
Allan Clarke	The Control Group Pty Ltd	0421 960 017	allan@thecontrolgroup.com.au	NSW	Northern NSW
Simon Cook	Douglas Partners	0431 507 667	simon.cook@douglaspartners.com.au	NSW	NSW All
Samual Boesen	Rubicof Cable & Pipe Locators	0403 285 352 0418 103 369	rubicof@optusnet.com.au	NSW	Cessnock
Craig Vallely	Aqua Freeze & Locate Pty Ltd	0458 774 440	service@aquafreeze.com.au	NSW	Sydney
Josiah Chapman-Hunter	Suk Truk Services Pty Ltd	0419 125 551 0478 004 606	services@suktruk.com.au	NSW	Hunter / Newcastle
Laurence Mead	Veris Australia	0419 770 560	i.mead@veris.com.au	NSW	Sydney
Jason Vane	Smartscan Locators PTY Ltd	0498 025 210	Admin@sslocators.com.au	NSW	Sydney
Alex Farcash	Newcastle Locating Services Pty Ltd	0410 698 599	Admin@newcastlelocatingservices.com.au		Newcastle, Hunter Valley, Central Coast, Taree & Surrounding Areas
Amer El Chami	Site Scan Pty Ltd	0449 992 520	office@sitescan.net.au	NSW	Sydney
Kaisar sefian	Australian Utility Search Pty Ltd	0424 841 888	kaisar@aususearch.com.au	NSW/ACT	All NSW, ACT

Ian Brown	A1 Locate Services	0400 484 828	ian.brown@a1locate.com.au	NSW/ACT	All NSW, ACT
Alexander Bogdanoff	Expert Service Locating	0420 346 477	info@expertservicelocating.com.au	NSW/QLD	Brisbane, Gold Coast, Sunshine Coast Northern Rivers NSW
Justin Joseph S. Martinez	FJA Locating	0401 749 007	j.martinez@fjalocating.com.au	NSW, ACT, QLD, VIC	All regions
Rhiannon Kemps	Geoscope Utility Detection Services Pty Ltd	0432 296 323	simon@geoscopelocating.com.au	NSW	All regions
Laurence Mead	Astrea Pty Ltd	0413 849 666	admin@astrea.com.au.	NSW	Sydney Metro & Surrounding Areas
Bobby Friesz	VAC Group Operations (T/A Earth Radar)	0447 837 267	Bobby.Friesz@vacgroup.com.au	NSW	Sydney
Chris Hall	D C Locators Pty Ltd	0419 679 741	dcloc@powerup.com.au	QLD	Brisbane, Ipswich
Jeff Trackson	J.R & L.M Trackson Pty Ltd	0417 600 978	jtrackson@tracavoid.com.au	QLD	All
Benji Lee	LADS	0478 915 237	benji@ladsqld.com.au	QLD	South East QLD
Andrew Watson	Lambert Locations Pty Ltd	07 5562 8400	admin@lambertlocations.com.au	QLD	South East QLD & Northern NSW
Ross Clarke	FNQ Cable Locators Pty Ltd	0428 775 655	onlineco@bigpond.net.au	QLD	Far North QLD, Cape York & Peninsula
Col Greville	Bsure Locators	0488 520 688	admin@bsurelocators.com.au	QLD	Wide Bay Burnett and Central Qld
Mikael White	All Asset Locations	0478 846 025	allassetlocations@gmail.com	QLD	Sunshine Coast
Simon Griffin	Pensar Utilities	0458 800 267	sgriffin@pensar.com.au	QLD	Brisbane, Gold Coast, Sunshine Coast
Andrew Cowan	VAC Group Operations (T/A Earth Radar)	0447 008 806	andrew.cowan@vacgroup.com.au	QLD	South East and Central QLD
Jimmy Wilkins	GeoRadar Australia	0425 677 227	jimmy@georadar.net.au	QLD	Emerald, Bundaberg
Beaumont Blake	PipeHawk CCTV	0435 558 533	accounts@pipehawkcctv.com.au	QLD	South East QLD & Northern NSW
Craig Waite	C Locate	0437 808 444	clocate@bigpond.com	QLD	South East QLD
QLD Operations	Utility Location Services	0499 775 095 07 3807 3552	gldops@utilitylocationservices.com.au	QLD	SouthEast QLD, Northern NSW
Andrew Watson	RPS AUS East	0408 839 723	andrew.watson@rpsgroup.com.au	QLD	Brisbane
Luke Steadman	Utility Mapping Pty Ltd	0472 867 197	lsteadman@utilitymapping.com.au	QLD	All
Robert Reed	All Asset Locations Pty Ltd	0478 846 025	allassetlocations@gmail.com	QLD	Sunshine Coast
Jenny Dziduch	1300 Locate Pty Ltd	1300 562 283	admin@1300locate.com.au	QLD	All Queensland, Northern NSW

Sam Hazel	Utility ID Underground Service Locators	0401 202 515	sam@utilityid.com.au	QLD	Southern QLD
Brendon Smith	Dynamic Hydro Excavations	1300 822 878	admin@dynamicexcavation.com.au	QLD	QLD, NSW, VIC
Marty Carlson	Surveywerx Pty Ltd	0488 842 110	mike@surveywerx.com	QLD	South East QLD
Ran Gledhill	Safe Dig Services	0408 944 228	rgsafedig@gmail.com	QLD	Brisbane / North Queensland
Ben Stephens	Electroscan (DTS Group)	0434 140 556	ben.s@electroscanqld.com.au	QLD	All
Adam Lloyd	Aussie HydroVac Services	07 3287 7818	adam.lloyd@aussiehydrovac.com.au	QLD	All
Gary Poppi	Ace Cable Locations	0431 517 837	garypoppi@bigpond.com	QLD	Wide Bay Burnett
Andrew McKenna	Taylors Development Strategists	03 95012800	a.mckenna@taylords.com.au	VIC/SA/TAS	Victoria
Olivier Davies	Central Locating PTY LTD	0439 995 894	ollie@centrallocating.com.au	VIC/SA/TAS	Melbourne Surfcoast Ballarat
Tina Brereton	D-Tech Ground & Overhead Services	0421 697 090	tina@d-tech.net.au	VIC	Victoria
Josh Taylor	Advanced Locations Victoria	0427 846 716	josh@advancedlocationsvic.com.au	VIC	All
Ben Minutoli	Geelong Cable Locations	1800 449 543	ben@geelongcablelocations.com.au	VIC	Melbourne, Geelong, Country Victoria
Mick McGoldrick	Cavan Constructions	0404 241 679	mick@locatecables.com	VIC	Western Victoria
David Kelleher	Construction Sciences	03 9553 7236	utilities@constructionsciences.net	VIC	Victoria
Stuart Miles	ELS Environmental Location Systems	03 8795 7461	accounts@radiodetection.com.au	VIC	Victoria
Darren Dean	Asset Survey Solutions	1300 035 796	darren.dean@assetsurvey.com.au	VIC	Victoria
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Courtney Marson	CSA Specialised Service Pty Ltd	1300 859 829	courtney@cspecialised.com.au	VIC/SA/TAS	All
Paul Murray	Able Pipe, Cable & Leak Location Services	0418 318 186	paul.murray6@bigpond.com	VIC	All
Infrastructure Civil Services	Trenchless Pipelaying Contractors (TPC)	08 8376 5911	tpc@trenchlesspipelaying.com.au	SA	All
Sean Nemeth	Enerven Energy Infrastructure Pty Ltd	0488 167 772	sean.nemeth@enerven.com.au	SA	Adelaide
SADB	SADB Civil Construction & Trenchless	08 8168 7200	reception@sadb.com.au	SA	Adelaide
Tony Simpson	Utility Mapping Pty Ltd	0438 630 146	tsimpson@utilitymapping.com.au	SA	All
Deninis Stray	Pinpoint Services Mapping	0428 917 020	dstray@pinpointsm.com.au	SA	All
Johnny McGlynn	Pinpoint Services Mapping	0447 185 231	jmcglynn@alexander.com.au	SA	All
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Stefan Forsyth	Adelaide Pipeline Maintenance Services	08 8427 2525	stefan@streamlinesa.com.au	SA	all NT, WA, QLD
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Derek McShane	Subterranean Service Locations	0420 862 426	Derek@sslwa.com.au	WA	Midwest/Gascoyne
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Dale Shearsmith	Subtera Subsurface Locating	1300 046 636	dale@subtera.com.au	WA	All
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Steve Gault	Northern Comms	0407 904 319	steve@northerncomms.net.au	NT	All
Wayne Parslow	Danisam	0417 089 865	danisam@westnet.com.au	NT	Darwin NT and Surrounds
Elizabeth Young	Archers Underground Services Locations (AUS Locations)	03 6245 1298	admin@auslocations.com.au auslocations@bigpond.com	TAS	All
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Scott Richardson	AJ Water & Leak Detection	0457 710 680	admin@ajwater.com.au	TAS	All



Optus Contract Management Team
Unit 9, 677 Springvale Road
Mulgrave, Victoria, 3178

Date: 02 Nov 2021
To: Elisha cassidy
Company: ADE
Address: 6 Millennium Court
Silverwater, NSW 2128

ENQUIRY DETAILS

Location: 33 Bailey Street, Westmead, NSW 2145
Sequence No.: 204756949
DBYD Reference: 30815700

In relation to your enquiry concerning the above location, Optus advises as follows:

Optus records indicate that there ARE underground Optus FIBRE OPTIC TELECOMMUNICATIONS ASSETS in the vicinity of the above location as per the attached drawing(s).

PLEASE NOTE that any interference with these assets may be considered an offence under the Criminal Code Act 1995 (Cth). Optus reserves the right to seek compensation for loss or damage to its assets including consequential loss.

This reply is valid for a period of 30 days from the date above.

IMPORTANT INFORMATION

Asset location drawings provided by Optus are reference diagrams and are provided as a guide only. The completeness of the information in these drawings cannot be guaranteed. Exact ground cover and alignments cannot be provided with any certainty as these may have altered over time. Depths of telecommunications assets vary considerably as do alignments. It is essential to identify the location of any Optus assets in the vicinity prior to engaging in any works.

All Optus assets in the vicinity of any planned works will need to be electronically located to ascertain their general location. Depending on the scope of planned works in the vicinity, the assets may also need to be physically located.

YOU MUST ENGAGE THE SERVICES OF ONE OF THE OPTUS ASSET ACCREDITED LOCATORS TO CARRY OUT ASSET LOCATION (REFER LIST OF ACCREDITED LOCATORS AT THE END OF THIS OPTUS RESPONSE).

Unless otherwise agreed with Optus, where an on-site asset location is required, the requestor is responsible for all costs associated with the locating service including (where required) physically exposing the Optus asset.

DUTY OF CARE

When working in the vicinity of telecommunications assets you have a legal "Duty of Care" and non-interference that must be observed.

It is your responsibility as the requesting party (as a landowner or any other party involved in the planned works) to design for minimal impact to any existing Optus asset. Optus can assist at the design stage through consultation.

It is also your, as the requesting party (or your representative's), responsibility to:

- a) Obtain location drawings (through the Dial Before You Dig process) of any existing Optus assets at a reasonable time before any planned works begin;
- b) Have an Optus Accredited Asset Locator identify the general location of the Optus asset and physically locate the asset where planned works may encroach on its alignment; and
- c) Contact Optus for further advice where requested to do so by this letter.

DAMAGE TO ANY OPTUS ASSET MUST BE REPORTED TO 1800 500 253 IMMEDIATELY

You, your head contractor and any relevant subcontractor are all responsible for any Optus asset damage as a result of planned activities in the vicinity of Optus assets.

This applies where works commence prior to obtaining Optus drawings, where there is failure to follow instructions or during any construction activities.

Optus reserves the right to recover compensation for loss or damage to its assets including consequential loss. Also, you, your head contractor and any relevant subcontractor may also be liable for prosecution under the Criminal Code Act 1995 (Cth).

ASSET RELOCATIONS

You are not permitted by law to relocate, alter or interfere with any Optus asset under any circumstance. Any unauthorised interference with an Optus asset may lead to prosecution under the Criminal Code Act 1995 (Cth). Enquiries relating to the relocation of Optus assets must be referred to the relevant Optus Damages and Relocations Team (refer to "FURTHER ASSISTANCE").

APPROACH DISTANCES

On receipt of Optus asset location drawings and prior to commencing any planned works near an Optus asset, engage an Optus Accredited Locator to undertake a general location of the Optus asset.

Physical location of the Optus asset by an Optus Accredited Locator will also be required where planned works are within the following approach distances of the general location of the Optus asset:

- a) In built up metropolitan areas where road and footpaths are well defined by kerbs or other features a minimum clear distance of 1 meter must be maintained from the general location of the Optus asset.
- b) In non-established or unformed metropolitan areas, a minimum clear distance of 3 meters must be maintained from the general location of the Optus asset.
- c) In country or rural areas where wider variations may exist between the general and actual location of an Optus asset may exist, then a minimum clear distance of 5 meters must be maintained from the general location of the Optus asset.

If planned works are parallel to the Optus asset, then the Optus asset must be physically located by an Optus Accredited Locator at a minimum of 5 meter intervals along the length of the parallel works prior to work commencing.

Under no circumstances is crossing of any Optus asset permitted without physical location of the asset being carried out by an Optus Accredited Locator. Depending on the asset involved an Optus representative may be required onsite.

The minimum clearances to the physical location of Optus assets for the following specific types of works must be maintained at all times.

Note: Where the clearances in the following table cannot be maintained or where the type of work differs from those listed then advice must be sought from the relevant Optus Damages and Relocations Team (refer to "FURTHER ASSISTANCE").

Type of Works	Clearance to Physical Location of Optus Asset
Jackhammers / Pneumatic Breakers	Not within 1 meter.
Light duty Vibrating Plate or Wacker Packer type compactors (not heavy road construction vibrating rollers etc.)	500mm compact clearance cover before a light duty compactor can be used over any Optus conduit. No compaction permitted over Optus direct buried cable without prior approval from Optus.
Boring Equipment (in-line, horizontal and vertical)	Not within 5 meters parallel of the Optus asset location without an Accredited Optus Asset Locator physically exposing the Optus asset and with an Optus representative onsite. Not to cross the Optus asset without an Accredited Optus Asset Locator physically exposing the Optus asset and with an Optus representative onsite.

Type of Works	Clearance to Physical Location of Optus Asset
Heavy vehicle Traffic (over 3 tonnes)	<p>Not to be driven across Optus conduits with less than 600mm of cover.</p> <p>Not to be driven across Optus direct buried cable with less than 1.2 meters of cover.</p> <p>Once off crossings permitted, multiple crossing (e.g. road construction or logging) will require Optus approval.</p> <p>Accredited Optus Asset Locator to physically expose the Optus asset to verify actual depth.</p>
Mechanical Excavators, Farm Ploughing, Vertical Hole installation for water bore or fencing etc.	<p>Not within 1 meter.</p> <p>Accredited Optus Asset Locator to physically expose the Optus asset to verify actual location.</p>

ASSET CLEARANCES AFTER COMPLETION OF WORKS

All Optus pits and manholes must be a minimum of 1 meter from the back of any kerb, 3.5 meters of the road surface without a kerb or not within 15 meters of street intersection.

In urban areas Optus conduit must have the following minimum depth of cover:

- Footway 600mm;
- Roadway 1 meter at drain invert and at road centre crown.

In rural areas Optus conduit must have a minimum depth of cover of 1 meter and direct buried cable 1.2 meters.

In cases where it is considered that the above clearances cannot be maintained at the completion of works, advice must be sought from the relevant Optus Damages and Relocations Team (refer "Further Assistance").

FURTHER ASSISTANCE

Further assistance on asset clearances, protection works or relocation requirements can be obtained by contacting the relevant Optus Damages and Relocations Team on the following email address:

NFODamages&RelocationsDropbox@optus.com.au

Further assistance relating to asset location drawings etc. can be obtained by contacting the Optus Network Operations Asset Analysis Team on 1800 505 777.

OPTUS ENGINEERING DRAWING SYMBOLS

	Optus underground cable		Optus manhole/pit
	Optus underground IOF cable		Other Utility manhole/pit
	Optus conduit		Optus marker post
	Optus cable in Other Utility conduit		Railway / Tram line
	Southern Cross conduit		Highway / Major Road
	Indigo conduit		Arterial Road
	Uecomm conduit		Council Road - minor
	Optus aerial fibre cable		

	Optus underground cable		Optus marker post number Depth of Optus cable Offset to Optus cable
	Optus cable buried jointly with third party utility		
	Optus cable in conduit with subducts		Optus cable depth (approx) Optus cable offset (approx)



Optus Accredited Asset Locators

Name	Company Name	Phone	Email	State	Region/Service Area
Alan Cordner	Alcom Fibre Services Pty Ltd	0400 300 337	alcomfibre@bigpond.com	NSW/ACT	Sydney
Brad McCorkindale	Bradmac Locating Services	0434 157 409	brad.mac@bigpond.com	NSW/ACT	All
Troy Redden	On Point Utility Locating	1300 6676 468	troy@onpointlocating.com.au	NSW	Sydney Only
Shane Buckley	Cable & Pipe Locations	0408 730 430	sabuckley@bigpond.com	NSW/QLD	Armidale, Casino, Coffs Harbour, Dorrigo, Glenn Innes, Grafton, Inverell, Kempsey, Lismore, Nambucca, Port Macquarie, Tamworth, Taree, Tenterfield, Yamba
Philip Pegler	Down Under Detection Services (DUDS)	0418 267 964	apegler@duds.net.au	NSW	All
Tina Stanhope	SureSearch Underground Services	1300 884 520 0418 920 245	tina.stanhope@suresearch.com.au	NSW/ACT QLD	NSW, Sydney, Northern NSW, Canberra, QLD, South East QLD.
Leonard McGowan	Pipesure Australia	1300 411 811	len@pipesure.com.au	NSW	Sydney
Bruce Whittaker	Optical Fibre Technologies	0402 354 322	opticaltek1@aol.com	NSW	Sydney/Wollongong
Darryl Smith	Darryl Smith Electrical	02 6642 3731	office@dsmithelectrical.com.au	NSW	Grafton
George Koenig	Downunder Locations NSW Pty	0438 243 856	Downunderlocations@gmail.com	NSW	Tweed Heads, Gold Coast, Brisbane
Michael Grant	M&K Grant Bega Bobcats Pty Ltd	0427 260 423	zzbobcat@bigpond.net.au	NSW	Bega, Far South Coast
Antony Critcher	Geotrace Pty Ltd	0417 147 945	antony@geotrace.com.au	NSW	All Areas, Sydney, Wollongong, Newcastle, ACT
Anthony Lane	Hydro Digga	0447 774 000	locator@hydrodigga.com	NSW	All of NSW, ACT & South East Qld
Joshua Payne	Australian Utilities Management Pty Ltd	0427 833 222	aine@ausutilities.net.au	NSW	Sydney Metro
Nathan Ellis	Utility Locating Services	0404 087 555	nathan@utilitylocatingservices.com.au	NSW	Sydney

Rodney Pullen	Provac	0450 268 012	rod@provac.net.au	NSW / QLD	South East QLD, Northern NSW
Rodney Pullen	One Find Cables	0451 268 012	rod@provac.net.au	NSW / QLD	South East QLD, Northern NSW
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Karen Joyce	Durkin Construction Pty Ltd	02 9712 0308	karen@durkinconstruction.com.au	NSW	Sydney
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Ken Brown	Riteway Traffic Control Pty Ltd	0419 212 969	kbrownne@ritewaytc.com.au	NSW	Central Coast, Hunter
Walter R Johansen	Steger & Associates	02 6296 4089	enquiries@steger.com.au	ACT/NSW	Canberra
Jean-Max Monty	Civilscan	0416 068 060	civilscan@bigpond.com	NSW	Sydney – Central Coast – Newcastle – Wollongong – Hunter Valley – Blue Mountains
Alan Hunter	Hunter Ground Search	02 4953 1244 0418 684 819	huntergroundsearch@bigpond.com	NSW	Newcastle, Central Coast, Hunter Valley, Mid North Coast, Liverpool Plains, Central West NSW.
Gilbert J Cook	Datateks Communications Specialists	0408 693 660	datateks@datateks.com.au	NSW	Southern NSW
Damien Black	Mid North Coast Hydro Digging	0418 409 465	dblack1@bigpond.com	NSW	Newcastle- foster-Taree- Wauchope -Port Macquarie - Kempsey -Coffs harbour
Neil Blenkinsop	Utility Mapping Pty Ltd	0427 318 681	nblenkinsop@utilitymapping.com.au	NSW	Sydney
Daniel Fox	Epoca Environmental Pty Ltd	02 4739 2465 0433 100 642	daniel@epocaenvironmental.com.au	NSW	All NSW, ACT
Rod Shaw	Cable Find	0478 887 073	rod@cablefind.com.au	NSW	Northern Rivers
Danny Carter	Online Pipe & Cable Locating	1300 665 384	danny@onlinepipe.com.au	NSW	Sydney, Newcastel, Canberra, Blue Mountains
Sam Romano	Locating Services	0403 065 510	sam.romano@locatingservices.com.au	NSW	NSW All
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Stephen Fraser	Advanced Ground Locations	02 4930 3195 0412 497 488	steve_agl@hotmail.com	NSW	Newcastle, Hunter Valley, Central Coast, Taree & Surrounding Areas
Andrew Findlay	LiveLocates	0429 899 777	info@livelocates.com.au	NSW	South Coast/ACT, Snowy Mountains
Graeme Teege	Armidale Electrical	02 6772 3702	office@armidale-electrical.com.au	NSW	Armidale
Myles Green	Australian Locating Services	1300 761 545	myles@locating.com.au	NSW	Sydney
Brett Wallin	Utility Scan	0426 354 051	brett@utilityscan.net	NSW	Sydney CBD and Regional areas
Daniel Hudson	One Search Locators	1300 530 420	daniel@onesearchlocators.com.au	NSW	All NSW, ACT
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Gary Laneyrie	Laneyrie Electrical	0412 079 079 0413 048 048	bindy@laneyieelectrical.com.au	NSW	Illawarra, South Coast, Hunter Region
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Allan Clarke	The Control Group Pty Ltd	0421 960 017	allan@thecontrolgroup.com.au	NSW	Northern NSW
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Alex Farcash	Newcastle Locating Services Pty Ltd	0410 698 599	Admin@newcastlelocatingservices.com.au	NSW	Newcastle, Hunter Valley, Central Coast, Taree & Surrounding Areas
Amer El Chami	Site Scan Pty Ltd	0449 992 520	office@sitescan.net.au	NSW	Sydney
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Justin Joseph S. Martinez	FJA Locating	0401 749 007	j.martinez@fjalocating.com.au	NSW, ACT, QLD, VIC	All regions
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Laurence Mead	Astrea Pty Ltd	0413 849 666	admin@astrea.com.au.	NSW	Sydney Metro & Surrounding Areas
Bobby Friesz	VAC Group Operations (T/A Earth Radar)	0447 837 267	Bobby.Friesz@vacgroup.com.au	NSW	Sydney
Chris Hall	D C Locators Pty Ltd	0419 679 741	dcloc@powerup.com.au	QLD	Brisbane, Ipswich
Jeff Trackson	J.R & L.M Trackson Pty Ltd	0417 600 978	jtrackson@tracavoid.com.au	QLD	All
Benji Lee	LADS	0478 915 237	benji@ladsqld.com.au	QLD	South East QLD
Andrew Watson	Lambert Locations Pty Ltd	07 5562 8400	admin@lambertlocations.com.au	QLD	South East QLD & Northern NSW
Ross Clarke	FNQ Cable Locators Pty Ltd	0428 775 655	onlineco@bigpond.net.au	QLD	Far North QLD, Cape York & Peninsula
Col Greville	Bsure Locators	0488 520 688	admin@bsurelocators.com.au	QLD	Wide Bay Burnett and Central Qld
Mikael White	All Asset Locations	0478 846 025	allassetlocations@gmail.com	QLD	Sunshine Coast
Simon Griffin	Pensar Utilities	0458 800 267	sgriffin@pensar.com.au	QLD	Brisbane, Gold Coast, Sunshine Coast
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Jimmy Wilkins	GeoRadar Australia	0425 677 227	jimmy@georadar.net.au	QLD	Emerald, Bundaberg
Beaumont Blake	PipeHawk CCTV	0435 558 533	accounts@pipehawkcctv.com.au	QLD	South East QLD & Northern NSW
Craig Waite	C Locate	0437 808 444	clocate@bigpond.com	QLD	South East QLD
QLD Operations	Utility Location Services	0499 775 095 07 3807 3552	gldops@utilitylocationservices.com.au	QLD	SouthEast QLD, Northern NSW
Andrew Watson	RPS AUS East	0408 839 723	andrew.watson@rpsgroup.com.au	QLD	Brisbane
Luke Steadman	Utility Mapping Pty Ltd	0472 867 197	lsteadman@utilitymapping.com.au	QLD	All
Robert Reed	All Asset Locations Pty Ltd	0478 846 025	allassetlocations@gmail.com	QLD	Sunshine Coast
Jenny Dziduch	1300 Locate Pty Ltd	1300 562 283	admin@1300locate.com.au	QLD	All Queensland, Northern NSW

Sam Hazel	Utility ID Underground Service Locators	0401 202 515	sam@utilityid.com.au	QLD	Southern QLD
Brendon Smith	Dynamic Hydro Excavations	1300 822 878	admin@dynamicexcavation.com.au	QLD	QLD, NSW, VIC
Marty Carlson	Surveywerx Pty Ltd	0488 842 110	mike@surveywerx.com	QLD	South East QLD
Ran Gledhill	Safe Dig Services	0408 944 228	rgsafedig@gmail.com	QLD	Brisbane / North Queensland
Ben Stephens	Electroscan (DTS Group)	0434 140 556	ben.s@electroscanqld.com.au	QLD	All
Adam Lloyd	Aussie HydroVac Services	07 3287 7818	adam.lloyd@aussiehydrovac.com.au	QLD	All
Gary Poppi	Ace Cable Locations	0431 517 837	garypoppi@bigpond.com	QLD	Wide Bay Burnett
Andrew McKenna	Taylors Development Strategists	03 95012800	a.mckenna@taylords.com.au	VIC/SA/TAS	Victoria
Olivier Davies	Central Locating PTY LTD	0439 995 894	ollie@centrallocating.com.au	VIC/SA/TAS	Melbourne Surfcoast Ballarat
Tina Brereton	D-Tech Ground & Overhead Services	0421 697 090	tina@d-tech.net.au	VIC	Victoria
Josh Taylor	Advanced Locations Victoria	0427 846 716	josh@advancedlocationsvic.com.au	VIC	All
Ben Minutoli	Geelong Cable Locations	1800 449 543	ben@geelongcablelocations.com.au	VIC	Melbourne, Geelong, Country Victoria
Mick McGoldrick	Cavan Constructions	0404 241 679	mick@locatecables.com	VIC	Western Victoria
David Kelleher	Construction Sciences	03 9553 7236	utilities@constructionsciences.net	VIC	Victoria
Stuart Miles	ELS Environmental Location Systems	03 8795 7461	accounts@radiodetection.com.au	VIC	Victoria
Darren Dean	Asset Survey Solutions	1300 035 796	darren.dean@assetsurvey.com.au	VIC	Victoria
Alex Jones	Utility Mapping Pty Ltd	0417 413 353	ajones@utilitymapping.com.au	VIC	Victoria
Adam Linford	Gippsland Pipe & Cable Locations	0409 386 817	gippspac@hotmail.com	VIC	Gippsland
Thomas Pitt	Access Utility Engineering (AUE)	03 9580 0440	info@accessue.com.au	VIC	Victoria
Bernie Acabal	Taylors Development Strategists	03 9501 2800 0419 758 794	b.acabal@taylorsds.com.au	VIC	Victoria
Philong Nguyen	Asset Detection Services Pty Ltd	0413 949 400	phi.nguyen@assetdetection.com.au	VIC	VIC, NSW, TAS All areas
Maurice Tobin	Drain Solutions	1300 546 348	info@drainsolutions.com.au	VIC	Melbourne Metro
Nathan Kelleher	Seeker Utility Engineering	0439 691 840	nathan.kelleher@seekerutility.com.au	VIC	Melbourne
Jeffrey Ramos	VAC Group Operations (T/A Earth Radar)	0436 635 011	Jeffrey.ramos@earthradar.com.au	VIC	All

Ben Zurak	Veris Australia	03 7019 8400	melbourne@veris.com.au	VIC	All
Courtney Marson	CSA Specialised Service Pty Ltd	1300 859 829	courtney@cspecialised.com.au	VIC/SA/TAS	All
Paul Murray	Able Pipe, Cable & Leak Location Services	0418 318 186	paul.murray6@bigpond.com	VIC	All
Infrastructure Civil Services	Trenchless Pipelaying Contractors (TPC)	08 8376 5911	tpc@trenchlesspipelaying.com.au	SA	All
Sean Nemeth	Enerven Energy Infrastructure Pty Ltd	0488 167 772	sean.nemeth@enerven.com.au	SA	Adelaide
SADB	SADB Civil Construction & Trenchless	08 8168 7200	reception@sadb.com.au	SA	Adelaide
Tony Simpson	Utility Mapping Pty Ltd	0438 630 146	tsimpson@utilitymapping.com.au	SA	All
Deninis Stray	Pinpoint Services Mapping	0428 917 020	dstray@pinpointsm.com.au	SA	All
Johnny McGlynn	Pinpoint Services Mapping	0447 185 231	jmcglynn@alexander.com.au	SA	All
Liam Gill	Michael Greal Surveys	08 82788732	ugsl@mgsurveys.com.au	SA	SA
Stefan Forsyth	Adelaide Pipeline Maintenance Services	08 84272525	stefan@streamlinesa.com.au	SA	all NT, WA, QLD
Galen Shanahan	VAC Group Operations (T/A Earth Radar)	0447 837 000	Galen.Shanahan@vacgroup.com.au	SA	All
Marilyn Dentice	Cable Locates & Consulting	08 9524 6600	admin@cablelocates.com.au	WA	Metro & Country
Lisa Scofield	Abaxa	08 9256 0100	accounts@abaxa.com.au	WA	All
Derek McShane	Subterranean Service Locations	0420 862 426	Derek@sslwa.com.au	WA	Midwest/Gascoyne
Ben Upton	TerraVac Vacuum Excavation	0427 531 119	locations@terravac.com.au	WA	All
Dale Shearsmith	Subtera Subsurface Locating	1300 046 636	dale@subtera.com.au	WA	All
Liam Davies	Bunbury Telecom Service Pty Ltd	08 9726 0088	liam@btswa.com.au	WA	South West WA
Tammy Thorp	B.C.E Spatial	08 9364 6408	admin@bcespatial.com.au	WA	Perth Metro & Regional
Alex Jones	Utility Mapping Pty Ltd	0417 413 353	ajones@utilitymapping.com.au	WA	All
Chris Lee	Pulse Locating	0437 289 861	enquiries@pulselocating.com.au	WA	Perth
Morgan O'Connor	Kier Contracting	1300 543 728	morgan@kier.com.au	WA	Perth Metro & Greater region, Regional WA
Nigel Nunn	CCS Group / Utility Locating Solutions	08 9385 5000	enquiry@ccswa.com.au	WA	Perth
Paul Stevenson	Geographe Underground Services	0427 523 811	paul.stevenson@geographeunderground.com.au	WA	All

Jeremy Brown	Spotters Asset Locations Pty Ltd	0459 130 677	jeremy@spottersassetlocations.com.au	WA	All
Reece Topham	Prime Locate	0400 888 406	reece@primelocate.com.au	WA	All
Mark Docherty	RM Surveys	08 9457 7900	mark.docherty@rmsurveys.com.au	WA	All
Jonathon Sylva	Advance Scanning Services	1300 738 118	bookings@advancescanning.com.au	WA	All
Tim Daws	Award Contracting	0411 878 895	info@awardcontracting.com.au	WA	City & Regional
Dave Turner	Anywair Pipe & Cable	0418 890 071	dave@anywair.com.au	NT	All NT, WA, QLD
Steve Gault	Northern Comms	0407 904 319	steve@northerncomms.net.au	NT	All
Wayne Parslow	Danisam	0417 089 865	danisam@westnet.com.au	NT	Darwin NT and Surrounds
Elizabeth Young	Archers Underground Services Locations (AUS Locations)	03 6245 1298	admin@auslocations.com.au auslocations@bigpond.com	TAS	All
Patrick Monaghn	Paneltec Group	0447 797 544	patrick@paneltec.com.au	TAS	All
Scott Richardson	AJ Water & Leak Detection	0457 710 680	admin@ajwater.com.au	TAS	All

To: Elisha cassidy
ADE
6 Millennium Court
Silverwater, NSW 2128



Uecomm Pty Limited
ABN 56 079 083 195

Building 8, 658 Church St,
Richmond, VIC 3121
Ph: (03) 9221 4100
Fax: (03) 9221 4193
Ah: 1800 707 447

LOCATION OF UNDERGROUND FIBRE OPTIC CABLE INFORMATION SHEET

IMPORTANT: PLEASE READ ALL INFORMATION AND CONDITIONS BELOW AND THE NOTICE ON THE REVERSE SIDE OF THE PLAN/S.

"Dial Before You Dig" Sequence No 204756949
Customer ID 3125618

Issue Date: 02 Nov 2021
Issue By: Optus and or Uecomm Nsw

Location: 33 Bailey Street, Westmead, NSW 2145
Uecomm Asset Location No.
Dial Before You Dig Job No. 30815700

In relation to your enquiry at the above address, Uecomm advises as follows:

The records of Uecomm Limited disclose that there ARE underground FIBRE OPTIC / TELECOMMUNICATIONS cables in the vicinity of the above enquiry as per attached plan/s.

- The underground cables referred to in this advice are defined as the underground communications cables owned or controlled by Uecomm Pty Limited.
- The person/company responsible for submitting the inquiry should take care to ensure all plans listed above have been received. For any plan listed above but not received please contact **1800 707 447**.
- Any information provided is valid only for **30 days** from the date of issue set out above.
- If the work operations extend beyond this period, or if the designs are altered in any way, you are requested to resubmit your proposal for reassessment.
- Further assistance may be obtained if necessary, by telephoning **1800 707 447**.

PLEASE READ ALL INFORMATION AND DISCLAIMERS BELOW:

1. Due to the nature of underground cables and the age of some cables and records, it is impossible to conclusively ascertain the location of all cables. The accuracy and/or completeness of the information cannot be guaranteed and, accordingly, they are intended to be indicative only and, as a result, Uecomm does not accept any responsibility for any inaccuracies of its plans. They should not be solely relied upon when undertaking underground works. It is also inaccurate to assume that fibre optic cables follow straight lines and careful on-site investigations are essential to locate its exact position.
2. The following minimum clearances must be maintained:
 - 300mm when laying asset's inline, horizontal or vertical.
 - 500mm when operating vibrating equipment, e.g., jackhammers or vibrating plates.
 - 1000mm when operating mechanical excavators.
3. Due to the inherent dangers associated with excavation in the vicinity of underground cables, precautions should be taken in the undertaking of any underground works, including (but not limited to) the following:
 - All excavation sites should be examined for underground cables by careful hand excavation. Cable cover slabs if present must not be disturbed. Hand excavation needs to be undertaken with extreme care to minimise the likely hood of damage to the cable, e.g., blades of hand equipment should be orientated parallel to the line of the cable rather than digging across the cable.
 - If any undisclosed underground cables are located, Uecomm Limited should be notified immediately.
 - All personnel must be properly briefed, particularly those associated with the use of earthmoving equipment, trenching, boring and pneumatic equipment.
 - All excavations must be undertaken in accordance with the relevant legislation and regulations.

- 4. DAMAGE. ANY DAMAGE TO UECOMM'S NETWORK MUST BE REPORTED IMMEDIATELY TO 1800 707 447.**
5. Uecomm recommends using Uecomm approved location contractors to provide on-site location services for Uecomm plant. You can arrange Uecomm on-site visits by calling Uecomm on 1800 707 447 and Uecomm or its approved representative will attend your site to provide guidance to the location of the Uecomm assets (the "Uecomm Asset Alignment"). **Uecomm requires 3 clear business days' notice to conduct an on-site location.** The initial on-site visit by Uecomm will not normally incur a charge, but at the discretion of Uecomm, subsequent site visits may incur a charge to be applied at an hourly rate.
6. Uecomm will hold the relevant party responsible for any damage to Uecomm plant and all expenses incurred by Uecomm as a result of asset damage.
7. Except to the extent that liability may not be capable of lawful exclusion, Uecomm Pty Limited and its servants and agents and the related bodies corporate of Uecomm Pty Limited and their servants and agents shall be under no liability whatsoever to any person for any loss or damage (including indirect or consequential loss or damage) however caused (including, without limitation, breach of contract negligence and/or breach of statute) which may be suffered or incurred from or in connection with this information sheet or any Plans attached hereto. Except as expressly provided to the contrary in this information sheet or the attached Plans, all terms, conditions, warranties, undertakings or representations (whether expressed or implied) are excluded to the fullest extent permitted by law.

We thank you for your enquiry and appreciate your continued use of the Dial Before You Dig Service and/or Uecomm Asset Analysis Service. If you require further information, please contact Uecomm on **1800 707 447**.

IMPORTANT *This document may be confidential and privileged. Unauthorised use is prohibited. If you have it in error, please notify us and shred this document. Thank you.*



Uecomm Underground Cable

Scale: 1:2500

Printed on: 02 Nov 2021

Sequence Number: 204756949

Location: 33 Bailey Street, Westmead, NSW 2145



Job Location

- Line
- Point
- Area

Underground Asset

- Uecomm

This document is confidential and may also be privileged, and neither confidentiality nor privilege is waived lost or destroyed by virtue of it being transmitted to an incorrect addressee. Unauthorised use of the contents is therefore strictly prohibited. Any information contained in this document that has been extracted from our records is believed to be accurate, but no responsibility is assumed for any error or omission.

Transport Sydney Trains
477 Pitt Street
Sydney, NSW, 2000

To:

ADE - Elisha cassidy
6 Millennium Court
Silverwater NSW 2128

Enquiry Details	
Utility ID	30224 -
Sequence Number	204756946
Job Number	30815700
Enquiry Date	02/11/2021 09:15
Response	NOT AFFECTED
Address	33 Bailey Street Westmead
Location in Road	Road,Nature Strip,Footpath
Activity	Mechanical Excavation

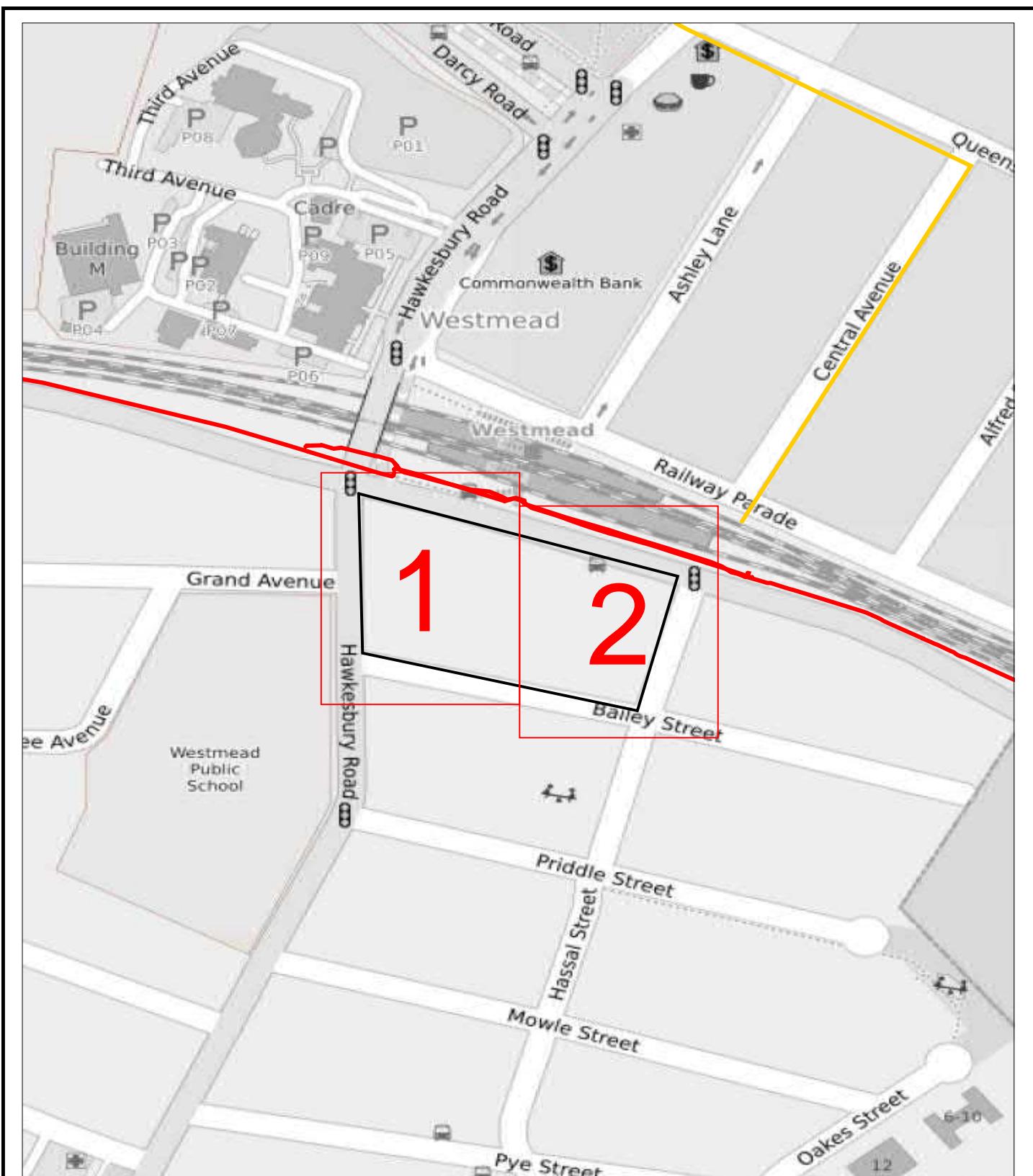
Enquirer Details	
Customer ID	3125618
Contact	Elisha cassidy
Company	ADE
Email	elisha.cassidy@ade.group
Phone	+61420309645



Overview Map

Sequence No: 204756946

33 Bailey Street Westmead



The precision of the location of the services on this plan varies depending on the source and method of capture. This plan should be used as a guide only. This plan shows only Sydney Trains electrical cables and tunnels located outside of the rail corridor.

Imagery sourced from Open StreetMaps

LEGEND:

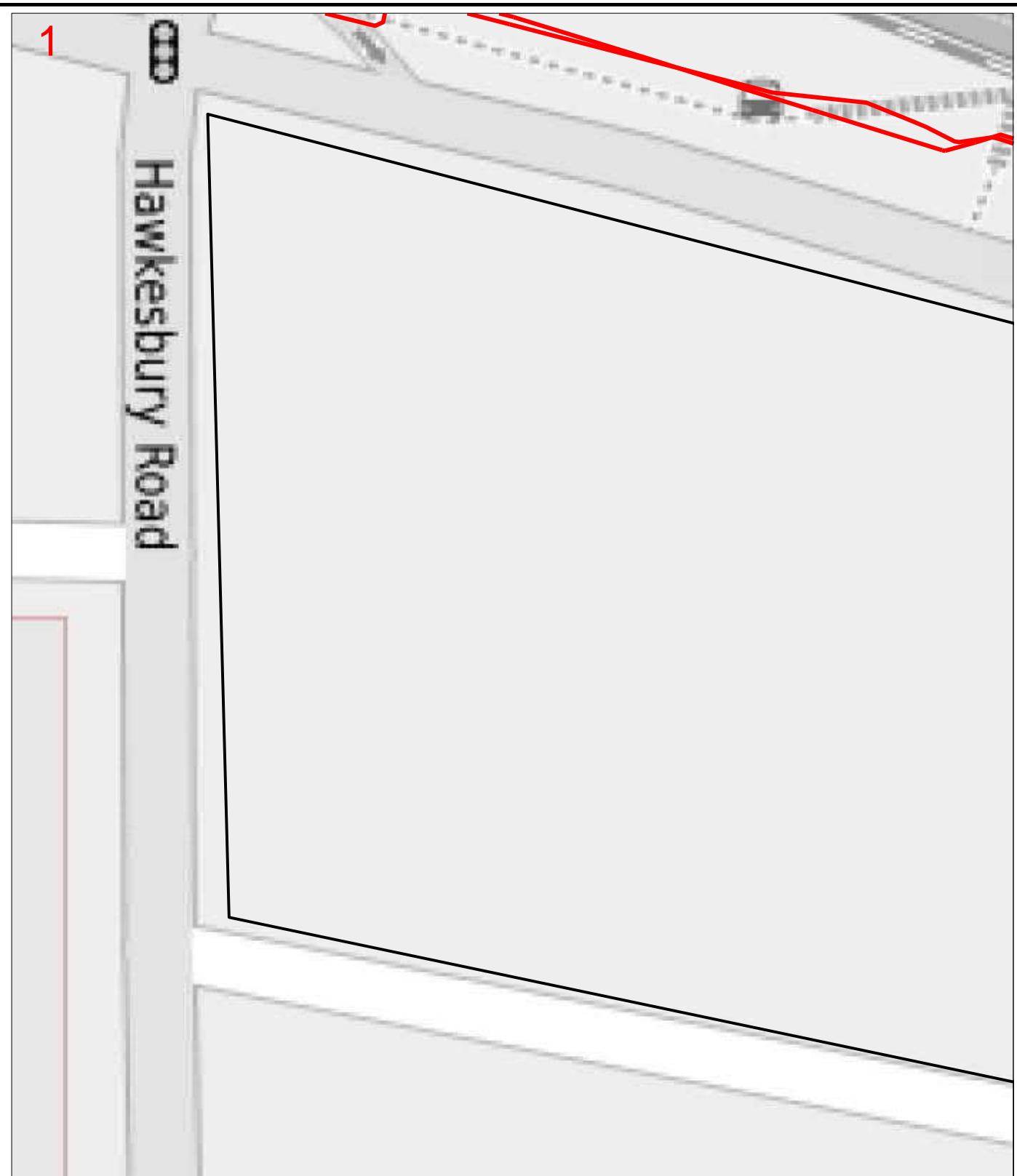
1 Detail Map

Not Affected
 DBYD Work Area

Map 1

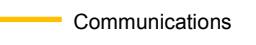
Sequence No: 204756946

33 Bailey Street Westmead



Imagery sourced from Open StreetMaps

LEGEND:

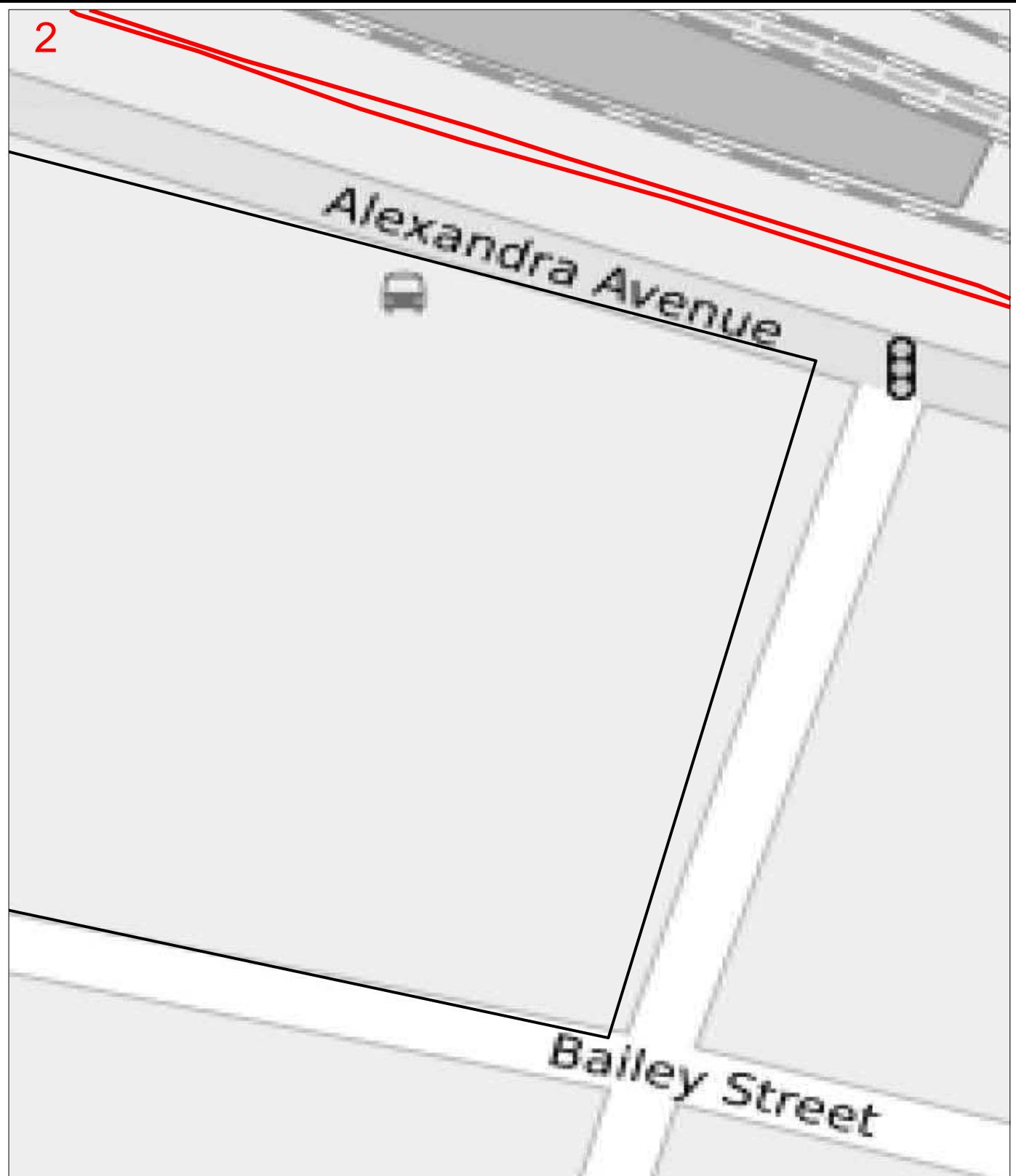
	Not Affected DBYD Work Area	 HV Cable
	Tunnel	 Communications

The precision of the location of the services on this plan varies depending on the source and method of capture. This plan should be used as a guide only. This plan shows only Sydney Trains electrical cables and tunnels located outside of the rail corridor.

Map 2

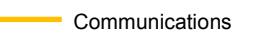
Sequence No: 204756946

33 Bailey Street Westmead

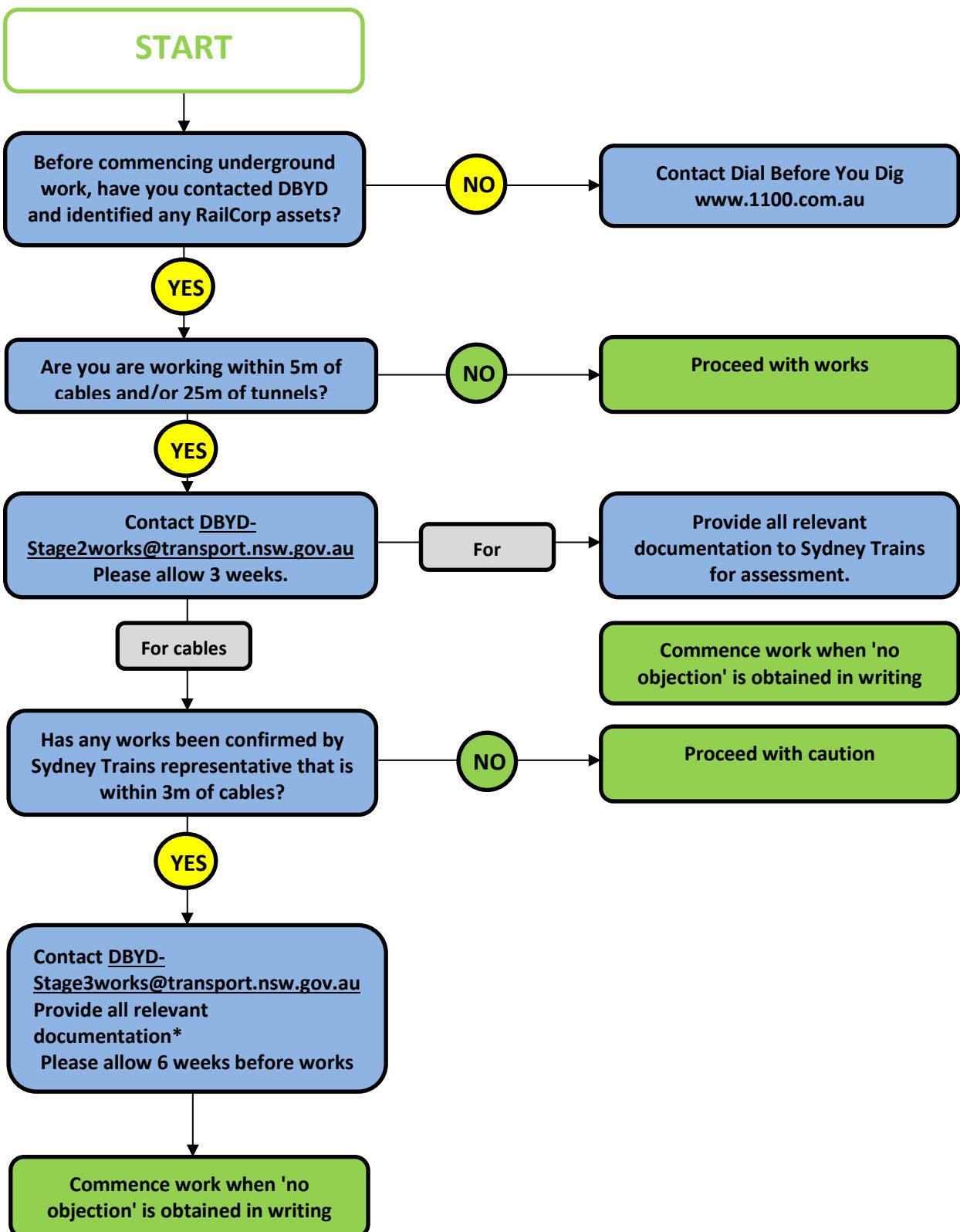


Imagery sourced from Open StreetMaps

LEGEND:

	Not Affected DBYD Work Area	 HV Cable
	Tunnel	 Communications

The precision of the location of the services on this plan varies depending on the source and method of capture. This plan should be used as a guide only. This plan shows only Sydney Trains electrical cables and tunnels located outside of the rail corridor.



*Relevant documentation may include construction designs, construction methodology, SWMS.

**12 week notice or more may be required for isolation and is subject to the assessment of impact on the rail network and operations.

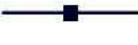
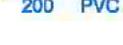
Guide to reading Sydney Water DBYD Plans



This guide will help you understand our plans and what our services are.

Symbol	Meaning	Symbol	Meaning
	Sewer main with flow arrow and size type text.		Sewer vertical
	Disuses sewer main This means the sewer has been disused but remains in the ground.		Sewer pumping station
	Sewer maintenance hole with upstream depth invert.		
	Sewer Sub-surface chamber		Pressure sewer main These are also found in Vacuum sewer areas.
	Sewer Maintenance hole with overflow chamber		Pressure sewer Pump unit Alarm, electrical cable and pump unit.
	Sewer Ventshaft EDUCT		Pressure sewer property valve boundary assembly
	Sewer Ventshaft IDUCT		Pressure sewer stop valve
	Sewer property connection point With chainage to downstream maintenance hole.		Pressure sewer reducer / taper
	Sewer concrete encased section		
	Sewer Rehabilitation		Pressure sewer flushing point
	Sewer terminal maintenance shaft		Vacuum sewer division valve
	Sewer maintenance shaft		Vacuum sewer vacuum chamber
	Sewer rodding point		Vacuum sewer clean out pot
	Sewer lamphole		Stormwater pipe
			Stormwater channel



Symbol	Meaning	Symbol	Meaning
	Stormwater gully		Potable water stop valves with Tapers
	Stormwater maintenance hole		Potable water closed stop valve
 200 PVC	Watermain – potable drinking water With size type text.		Potable water air valve
	Disconnected watermain potable drinking water This means the watermain has been disused but remains in the ground.		Potable water valve
	Recycled watermain		Potable water scour
	Special supply conditions – potable drinking water		Potable water reducer / taper
	Special supply conditions – recycled water		Potable water vertical bends
	Restrained joints – Potable drinking water		Potable water reservoir
	Sewer concrete encased section		Recycled water is shown as per potable above. Colour as indicated
	Potable water hydrant		Private potable water main
	Potable water maintenance hole		Private recycled water main
	Potable water stop valve		Private sewer main
	Potable water stop valve with By- pass		



Pipe types

PIPE TYPES		PIPE TYPES	
ABS	Acrylonitrile Butadiene Styrene	AC	Asbestos Cement
BRICK	Brick	CI	Cast Iron
CICL	Cast Iron Cement Lined	CONC	Concrete
COPPER	Copper	DI	Ductile Iron
DICL	Ductile Iron Cement (mortar) Lined	DIPL	Ductile Iron Polymeric Lined
EW	Earthenware	FIBG	Fibreglass
FL BAR	Forged Locking Bar	GI	Galvanised Iron
GRP	Glass Reinforced Plastics	HDPE	High Density Polyethylene
MS	Mild Steel	MSCL	Mild Steel Cement Lined
IPE	Polyethylene	PC	Polymer Concrete
PP	Polypropylene	PVC	Polyvinylchloride
PVC - M	Polyvinylchloride, Modified	PVC - 0	Polyvinylchloride, Oriented
PVC - U	Polyvinylchloride, Unplasticised	RC	Reinforced Concrete
RC-PL	Reinforced Concrete Plastics Lined	S	Steel
SCL	Steel Cement (mortar) Lined	SCL IBL	Steel Cement Lined Internal Bitumen
SGW	Salt Glazed Ware	SPL	Steel Polymeric Lined
SS	Stainless Steel	STONE	Stone
VC	Vitrified Clay	WI	Wrought Iron
WS	Woodstave		



Further Information

Please consult the Dial Before You Dig enquiries page on our website.

For general enquiries please call the Customer Contact Centre on 132 092

In an emergency, or to notify Sydney Water of damage or threats to its structures, call 13 20 90 (24 hours, 7 days)

Important information about Dial Before You Dig

The material provided or made available to you by Sydney Water (including on the Sydney Water website) in relation to your Dial Before You Dig enquiry (**Information**) is provided on each of the following conditions, which you are taken to have accepted by using the Information:

1 The Information has been generated by an automated system based on the area highlighted in the “Locality Indication Only” window on your Caller Confirmation. It is your responsibility to ensure that the dig site is properly defined when submitting your Dial Before You Dig enquiry and, if the Information does not match the dig site, to resubmit your enquiry for the correct dig site.

2 Neither Sydney Water nor Dial Before You Dig make any representation or give any guarantee, warranty or undertaking (express or implied) as to the currency, accuracy, completeness, effectiveness or reliability of the Information. The Information, including Sydney Water plans and work-as-executed diagrams, amongst other things:

(a) may not show all existing structures, including Sydney Water’s pipelines, particularly in relation to newer developments and in relation to structures owned by parties who do not participate in the Dial Before You Dig service

(b) may be out of date and not show changes to surface levels, road alignments, fences, buildings and the like

(c) is approximate only and is therefore not suitable for scaling purposes

(d) does not show locations of property services (often called house service lines) belonging to or servicing individual customers, which are usually connected to Sydney Water’s structures.

3 You are responsible for, amongst other things:

(a) exposing underground structures, including Sydney Water’s pipelines, by pot-holing using hand-held tools or vacuum techniques so as to determine the precise location and extent of structures before any mechanical means of excavation are used

(b) the safe and proper excavation of and for underground works and structures, including having regard to the fact that asbestos cement pipelines, which can pose a risk to health, may form part of Sydney Water’s water and sewerage reticulation systems

(c) protecting underground structures, including Sydney Water’s pipelines, from damage and interference

(d) maintaining minimum clearances between Sydney Water’s structures and structures belonging to others

(e) ensuring that backfilling of excavation work in the vicinity of Sydney Water’s structures complies with Sydney Water’s standards contained on its website or otherwise communicated to you



(f) notifying Sydney Water immediately of any damage caused or threat of damage to Sydney Water's structures

(g) ensuring that plans are approved by Sydney Water (usually signified by stamping) prior to landscaping or building over or in the vicinity of any Sydney Water structure

(h) ensuring that the Information is used only for the purposes for which Sydney Water and Dial Before You Dig intended.

Important Information – Sydney Water DBYD Plans August 2012 Page 2 of 3

4 You acknowledge that you use the Information at your own risk. In consideration for the provision of the Dial Before You Dig service and the Information by Sydney Water and Dial Before You Dig, to the fullest extent permitted by law

(a) all conditions and guarantees concerning the Information (whether as to quality, outcome, fitness, care, skill or otherwise) expressed or implied by statute, common law, equity, trade, custom or usage or otherwise are expressly excluded and to the extent that those statutory guarantees cannot be excluded, the liability of Sydney Water and Dial Before You Dig to you is limited to either of the following as nominated by Sydney Water in its discretion, which you agree is your only remedy:

(i) the supplying of the Information again; or

(ii) payment of the cost of having the Information supplied again;

(b) in no event will Sydney Water or Dial Before You Dig be liable for, and you release Sydney Water and Dial Before You Dig from, any Loss arising from or in connection with the Information, including the use of or inability to use the Information and delay in the provision of the Information:

(i) whether arising under statute or in contract, tort or any other legal doctrine, including any negligent act, omission or default (including wilful default) by Sydney Water or Dial Before You Dig; and

(ii) regardless of whether Sydney Water or Dial Before You Dig are or ought to have been aware of, or advised of, the possibility of such loss, costs or damages;

(c) you will indemnify Sydney Water and Dial Before You Dig against any Loss arising from or in connection with Sydney Water providing incorrect or incomplete information to you in connection with the Dial Before You Dig service; and

(d) you assume all risks associated with the use of the Dial Before You Dig and Sydney Water websites, including risk to your computer, software or data being damaged by any virus, and you release and discharge Sydney Water and Dial Before You Dig from all Loss which might arise in respect of your use of the websites.

5 “**Sydney Water**” means Sydney Water Corporation and its employees, agents, representatives and contractors. “**Dial Before You Dig**” means Dial Before You Dig Incorporated and its employees, agents, representatives and contractors. References to “**you**” include references to your employees, agents, representatives, contractors and anyone else using the Information. References to “**Loss**” include any loss, cost, expense, claim, liability or damage (including arising in connection with personal injury, death or any damage to or loss of property and economic or consequential loss, lost profits, loss of revenue, loss of management time, opportunity costs or special damages). To the extent of any inconsistency, the conditions in this document will prevail over any other information provided to you by Sydney Water and Dial Before You Dig.

In an emergency, or to notify Sydney Water of damage or threats to its structures, call 13 20 90 (24 hours, 7 days)

Important Information – Sydney Water DBYD Plans August 2012 Page 3 of 3

Further information and guidance is available in the Building Development and Plumbing section of Sydney Water's website at www.sydneywater.com.au, where you will find the following documents under ‘Dial Before You Dig’:



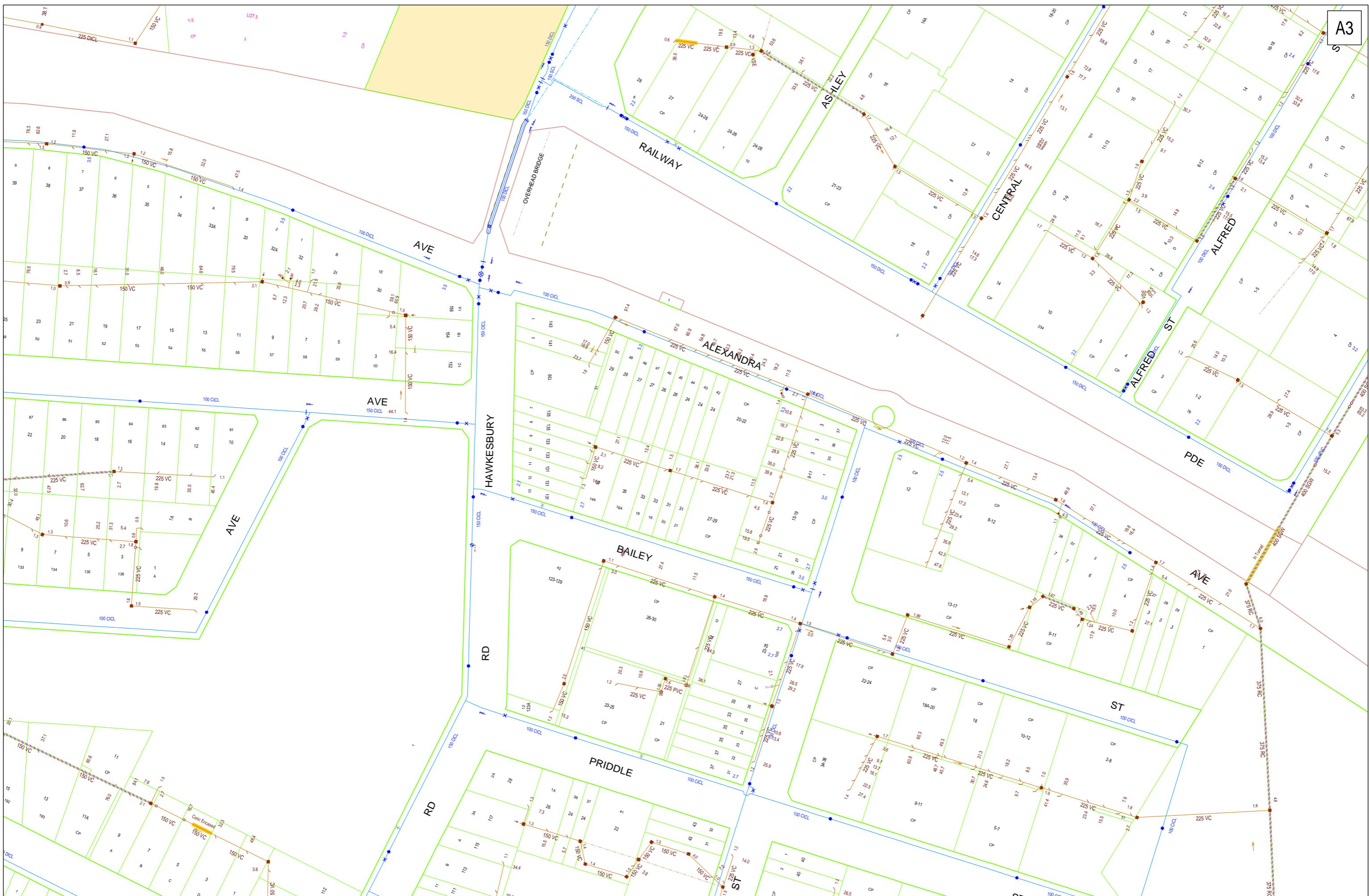
- Avoid Damaging Water and Sewer Pipelines
- Water Main Symbols
- Depths of Mains
- Guidelines for Building Over/Adjacent to Sydney Water Assets
- Clearances Between Underground Services

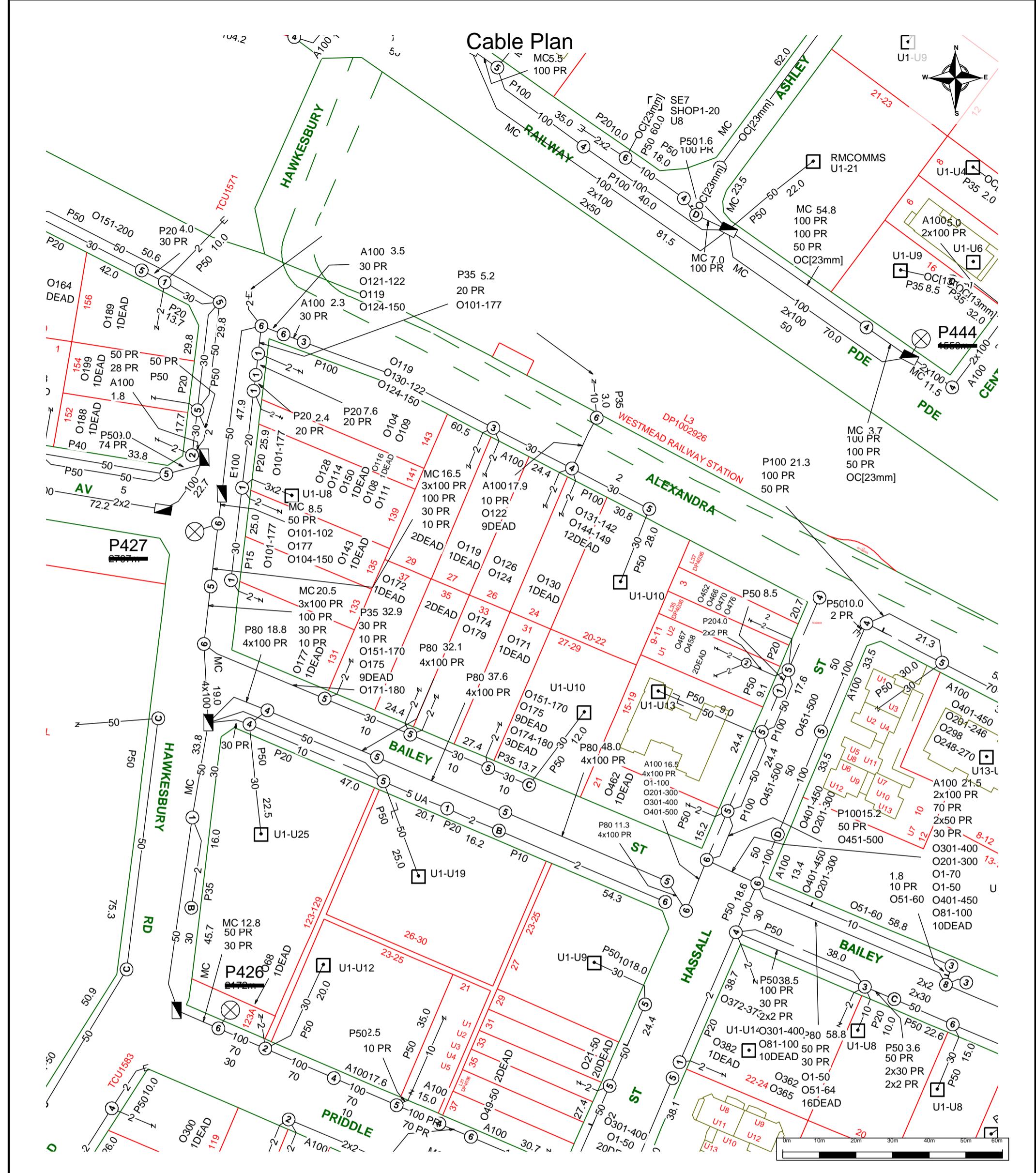
Or call **13 20 92** for Customer Enquires.

Note: The lodging of enquiries via www.1100.com.au will enable you to receive colour plans in PDF format 24 hours a day, 7 days a week via email.

This communication is confidential. If you are not the intended recipient, please destroy all copies immediately. Sydney Water Corporation prohibits unauthorised copying or distribution of this communication.

A3





For all Telstra DBYD plan enquiries -
email - Telstra.Plans@team.telstra.com
For urgent onsite contact only - ph 1800 653 935 (bus hrs)

TELSTRA CORPORATION LIMITED A.C.N. 051 775 556

Generated On 02/11/2021 10:19:52

Sequence Number: 204756945

**CAUTION: Critical Network Route in plot area.
DO NOT PROCEED with any excavation prior to
seeking advice from Telstra Plan Services on :
1800 653 935**

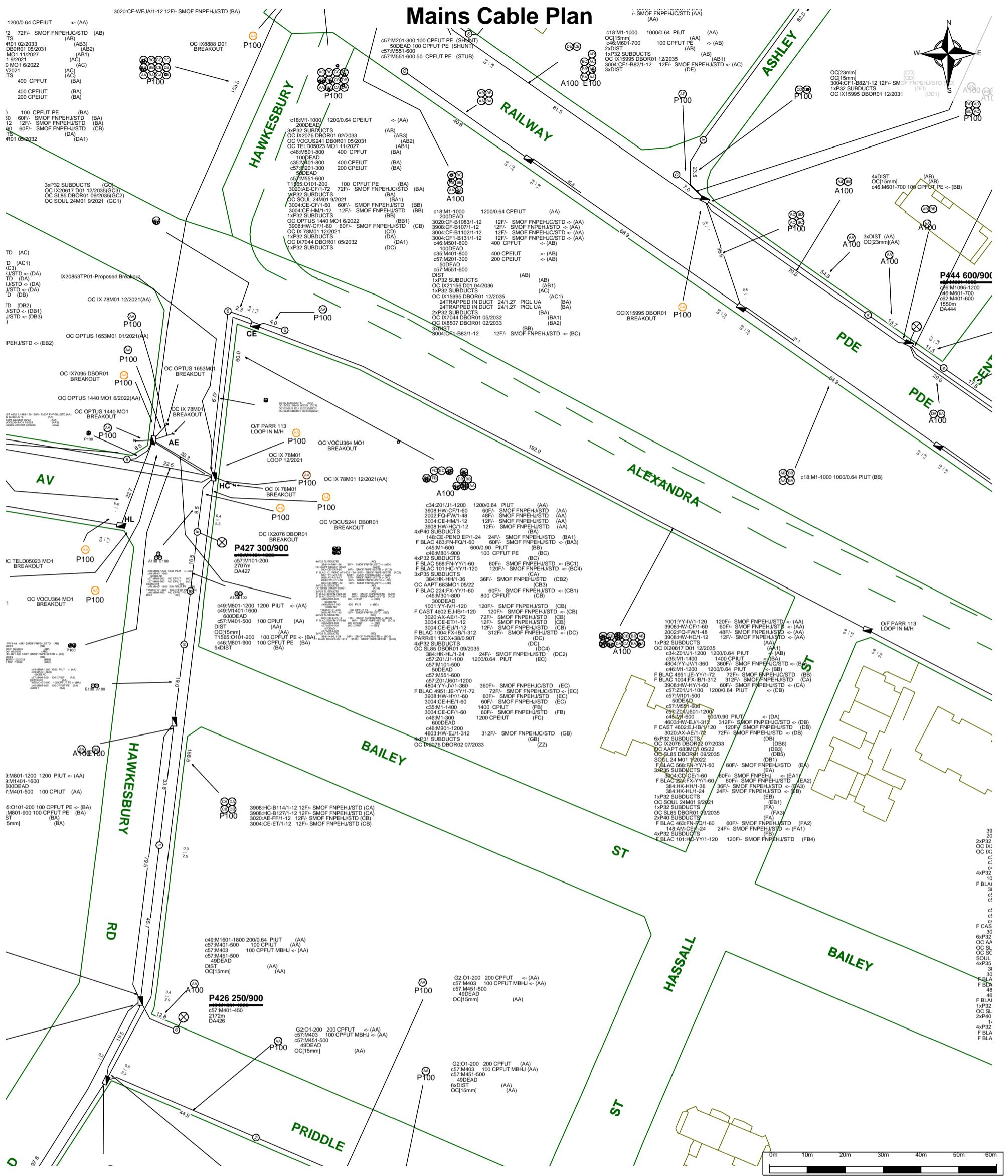
The above plan must be viewed in conjunction with the Mains Cable Plan on the following page

WARNING - Due to the nature of Telstra underground plant and the age of some cables and records, it is impossible to ascertain the precise location of all Telstra plant from Telstra's plans. The accuracy and/or completeness of the information supplied can not be guaranteed as property boundaries, depths and other natural landscape features may change over time, and accordingly the plans are indicative only. Telstra does not warrant or hold out that its plans are accurate and accepts no responsibility for any inaccuracy shown on the plans.

It is your responsibility to locate Telstra's underground plant by careful hand pot-holing prior to any excavation in the vicinity and to exercise due care during that excavation.

Please read and understand the information supplied in the duty of care statement attached with the Telstra plans. TELSTRA WILL SEEK COMPENSATION FOR LOSS CAUSED BY DAMAGE TO ITS PLANT.

Telstra plans and information supplied are valid for 60 days from the date of issue. If this timeframe has elapsed, please reapply for plans.



For all Telstra DBYD plan enquiries -
email - Telstra.Plans@team.telstra.com
For urgent onsite contact only - ph 1800 653 935 (bus hrs)

TELSTRA CORPORATION LIMITED A.C.N. 051 775 556

Generated On 02/11/2021 10:19:57

Sequence Number: 204756945

**CAUTION: Critical Network Route in plot area.
DO NOT PROCEED with any excavation prior to seeking advice from Telstra Plan Services on : 1800 653 935**

WARNING - Due to the nature of Telstra underground plant and the age of some cables and records, it is impossible to ascertain the precise location of all Telstra plant from Telstra's plans. The accuracy and/or completeness of the information supplied can not be guaranteed as property boundaries, depths and other natural landscape features may change over time, and accordingly the plans are indicative only. Telstra does not warrant or hold out that its plans are accurate and accepts no responsibility for any inaccuracy shown on the plans.

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CERTIFIED LOCATOR
www.dbydlocator.com

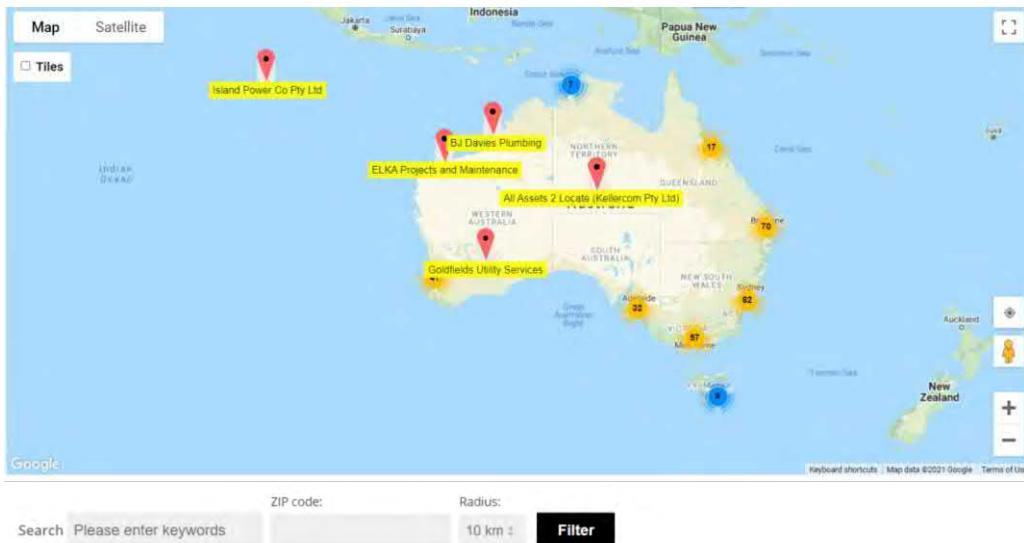
Certified Locating Organisations (CLO)

Find the closest CLO to your worksite on: <https://dbydlocator.com/certified-locating-organisation/>

Read the disclaimer and click:

Accept and Search Now

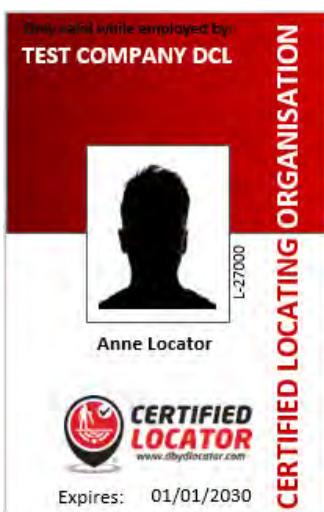
A national map and an A-Z list of Certified Locating Organisations is displayed.



Use the map to zoom to your work area and choose the closest Locator indicated.

OR search by entering the **postcode** of your work area.

1. Enter the post/zip code
2. Choose your search radius
3. Click filter (If there is no result, you may have to increase the search radius)
4. Click on the closest for CLO details or view the results displayed below the map



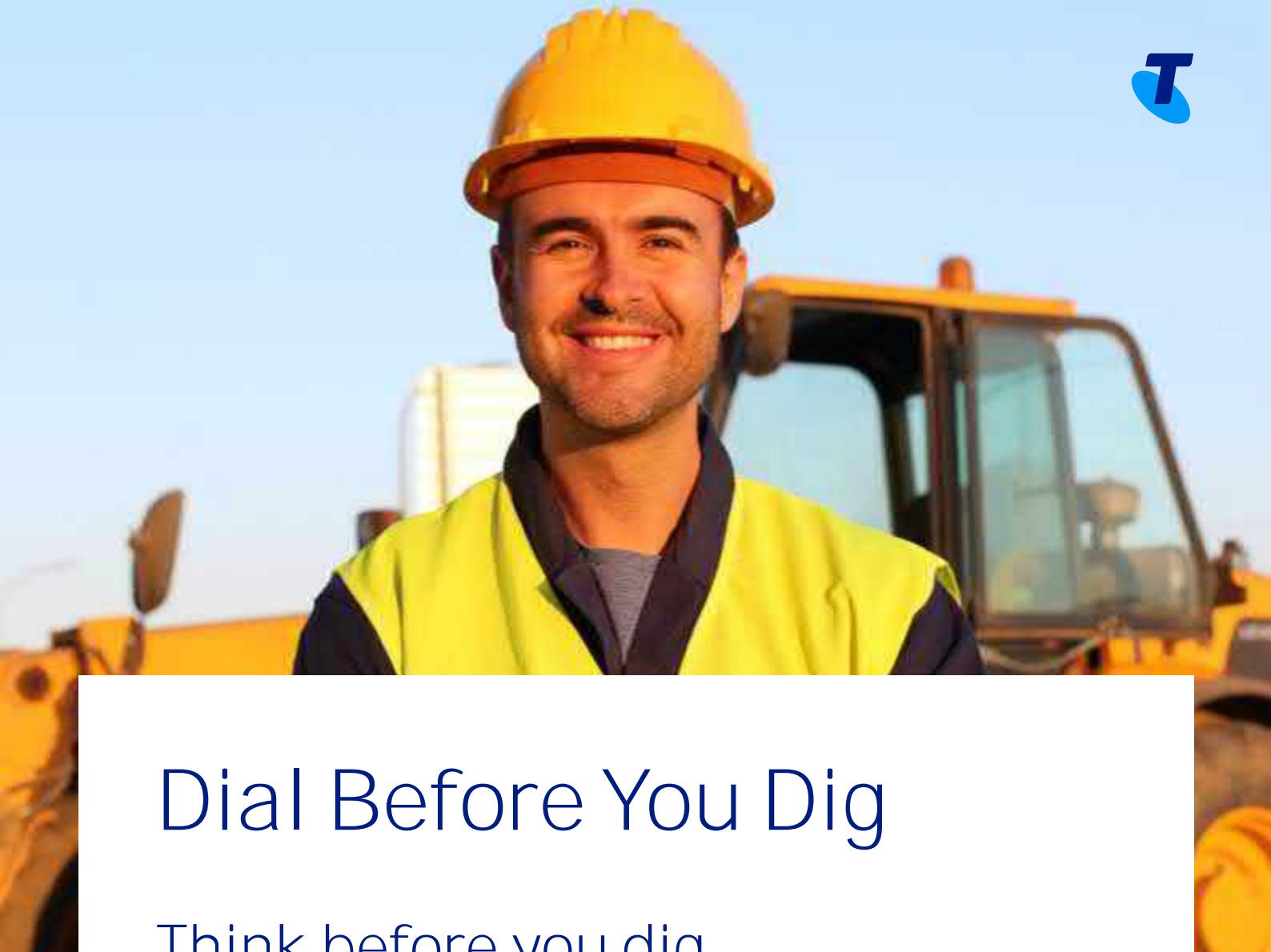
Locator skills have been tested, and the Organisation has calibrated location and safety equipment.

Telstra is aware of each Certified Locating Organisation and their employee locators.

Only a DBYD Certified Locator registered with a Certified Locating Organisation is authorised to access Telstra network for locating purposes.

Each Certified Locator working for a CLO is issued with a photo ID Card, authorising them to access Telstra pits and manholes for the purpose of cable and plant locations.

Please ask to see your Locators' CLO ID Card.



Dial Before You Dig

Think before you dig

This document has been sent to you because you requested plans of the Telstra network through Dial Before You Dig.

If you are working or excavating near telecommunications cables, or there is a chance cables are located near your site, you are responsible to avoid causing damage to the Telstra network.

Please read this document carefully. Taking your time now and following the steps below can help you avoid damaging our network, interrupting services, and potentially incurring civil and criminal penalties.

Our network is complex and working near it requires expert knowledge. Do not attempt these activities if you are not qualified to do so.

Your checklist



1. Plan

Plan your work with the latest plans of our network.

Plans provided through the DBYD process are indicative only*.

This means the actual location of our asset may differ substantially from that shown on the plans.

Refer to steps 2 and 3 to determine actual location prior to proceeding with construction.



2. Prepare

Engage a DBYD Certified Locating Organisation (CLO) via dbydlocator.com to identify, validate and protect Telstra assets before you commence work.



3. Pothole

Validate underground assets by potholing by hand or using non-destructive vacuum extraction methods.

Electronic detection alone (step 2) is not deemed to validate underground assets and must not be used for construction purposes.

If you cannot validate the Telstra network, you must not proceed with construction.



4. Protect

Protect our network by maintaining the following distances from our assets:

- › 500mm Vibrating Plate or Wacker Packer Compactor
- › 600mm Heavy Vehicle Traffic (over 3 tonnes) not to be driven across Telstra ducts or plant
- › 1.0m Jackhammers/Pneumatic Breakers
- › 2.0m Boring Equipment (in-line, horizontal and vertical)



5. Proceed

You can proceed with your work only once you have completed all the appropriate preparation, potholing and protection.

Useful information



Report any damage immediately



<https://service.telstra.com.au/customer/general/forms/report-damage-to-telstra-equipment>



13 22 03

(If you receive a message asking for a phone or account number say “I don’t have one” then say “Report Damage” then press 1 to speak to an operator).

Relocating assets

If your project requires the relocation of a Telstra asset, please contact the Telstra Network Integrity Group:



1800 810 443 (**AEST business hours only**)



NetworkIntegrity@team.telstra.com

Never try to move or alter our network infrastructure without authorisation. By law, only authorised people can work on our assets or enter a facility owned or operated by us. Any interference, including unauthorised entry or tampering, may result in legal action.

Further information

Plan enquiries



1800 653 935 (**AEST business hours only**)



Telstra.Plans@team.telstra.com

Information on how to find cables and request asset relocations:

<https://www.telstra.com.au/consumer-advice/digging-construction/relocating-network-assets>

Asset Plan Readers

PDF [Adobe Acrobat Reader DC Install for all versions](#)

DWF [Download Design Review | DWF Viewer | Autodesk](#)

Disclaimer and legal details



Telstra advises that the accuracy of the information provided by Telstra conforms to Quality Level D as defined in AS5488-2013.

It is a criminal offence under the Criminal Code Act 1995 (Cth) to tamper or interfere with telecommunications infrastructure.

Telstra will also take action to recover costs and damages from persons who damage assets or interfere with the operation of Telstra's networks.

By receiving this information including the indicative plans that are provided as part of this information package you confirm that you understand and accept the risks of working near Telstra's network and the importance of taking all of the necessary steps to confirm the presence, alignments and various depths of Telstra's network. This in addition to, and not in replacement of, any duties and obligations you have under applicable law.

When working in the vicinity of a telecommunications plant you have a "Duty of Care" that must be observed. Please read and understand all the information and disclaimers provided below.

The Telstra network is complex and requires expert knowledge to interpret information, to identify and locate components, to pothole underground assets for validation and to safely work around assets without causing damage. If you are not an expert and/or qualified in these areas, then you must not attempt these activities. Telstra will seek compensation for damages caused to its property and losses caused to Telstra and its customers. The 5 P's to prevent damage to Telstra assets are listed above. Construction activities and/or any activities that potentially may impact on Telstra's assets must not commence without first undertaking these steps. Construction activities can include anything that involves breaking ground, potentially affecting Telstra assets.

If you are designing a project, it is recommended that you also undertake these steps to validate underground assets prior to committing to your design.

This Notice has been provided as a guide only and may not provide you with all the information that is required for you to determine what assets are on or near your site of interest. You will also need to collate and understand all of the information received from other Utilities and understand that some Utilities are not a part of the DBYD program and make your own enquiries as appropriate. It is the responsibility of the entities undertaking the works to protect Telstra's network during excavation / construction works.

Telstra owns and retains the copyright in all plans and details provided in conjunction with the applicant's request. The applicant is authorised to use the plans and details only for the purpose indicated in the applicant's request. The applicant must not use the plans or details for any other purpose.

Telstra plans or other details are provided only for the use of the applicant, its servants, agents, or Certified Locating Organisation. The applicant must not give the plans or details to any parties other than these and must not generate profit from commercialising the plans or details.

Telstra, its servants or agents shall not be liable for any loss or damage caused or occasioned by the use of plans and or details so supplied to the applicant, its servants and agents, and the applicant agrees to indemnify Telstra against any claim or demand for any such loss or damage.

Please ensure Telstra plans and information provided always remains on-site throughout the inspection, location, and construction phase of any works.

Telstra plans are valid for 60 days after issue and must be replaced if required after the 60 days.

Data Extraction Fees

In some instances, a data extraction fee may be applicable for the supply of Telstra information. Typically, a data extraction fee may apply to large projects, planning and design requests or requests to be supplied in non-standard formats. For further details contact Telstra Planned Services.

Telstra does not accept any liability or responsibility for the performance of or advice given by a Certified Locating Organisation. Certification is an initiative taken by Telstra towards the establishment and maintenance of competency standards. However, performance and the advice given will always depend on the nature of the individual engagement. condensed

Neither the Certified Locating Organisation nor any of its employees are an employee or agent for Telstra. Telstra is not liable for any damage or loss caused by the Certified Locating Organisation or its employees.

Once all work is completed, the excavation should be reinstated with the same type of excavated material unless specified by Telstra

The information contained within this pamphlet must be used in conjunction with other material supplied as part of this request for information to adequately control the risk of potential asset damage.

When using excavators and other machinery, also check the location of overhead power lines.

Workers and equipment must maintain safety exclusion zones around power lines

WARNING: Telstra plans and location information conform to Quality Level 'D' of the Australian Standard AS 5488 - Classification of Subsurface Utility Information. As such, Telstra supplied location information is indicative only. Spatial accuracy is not applicable to Quality Level D. Refer to AS 5488 for further details. Telstra does not warrant or hold out that its plans are accurate and accepts no responsibility for any inaccuracy shown on the plans. FURTHER ON SITE INVESTIGATION IS REQUIRED TO VALIDATE THE EXACT LOCATION OF TELSTRA PLANT PRIOR TO COMMENCING CONSTRUCTION WORK. A plant location service is an essential part of the process to validate the exact location of Telstra assets and to ensure the asset is protected during construction works. The exact position of Telstra assets can only be validated by physically exposing it. Telstra will seek compensation for damages caused to its property and losses caused to Telstra and its customers.

Privacy Note

Your information has been provided to Telstra by DBYD to enable Telstra to respond to your DBYD request. Telstra keeps your information in accordance with its privacy statement. You can obtain a copy at www.telstra.com.au/privacy or by calling us at 1800 039 059 (business hours only).

LEGEND

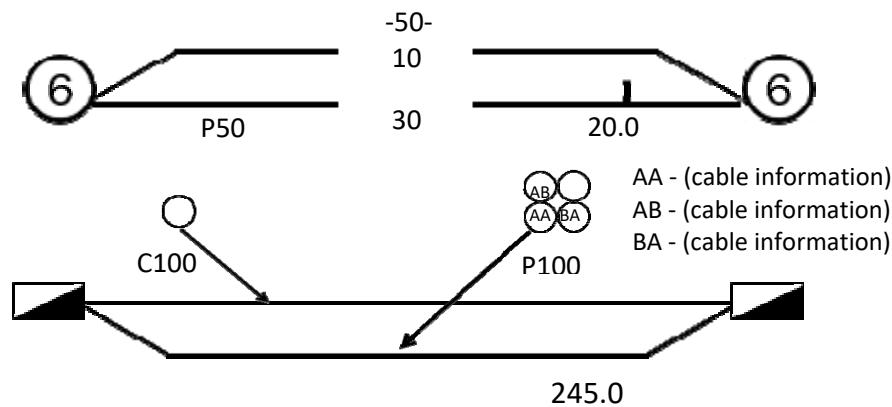
IT'S HOW
WE CONNECT



For more info contact a Certified Locating Organisation or Telstra Plan Services 1800 653 935

	Exchange (Major Cable Present)		Cable Jointing Pit (number indicating Pit Type)
	Footway Access Chamber (can vary from 1-lid to 12-lid)		Elevated Joint (above ground joint on buried cable)
or	Pillar / Cabinet (above ground / free standing)		Telstra Plant in shared Utility trench
	Above ground complex equipment housing (eg RIM) Please Note: This equipment is powered by 240V Electricity		Aerial Cable
OC	Other Carrier Telecommunications Cable/Asset		Aerial Cable (attached to joint Use Pole eg. Power)
Dist	Distribution cables in Main Cable ducts		Direct Buried Cable
MC	Main Cable ducts on a Distribution plan		Marker Post Installed
	Blocked or damaged duct.		Buried Transponder
	2 pair lead-in to property from pit in street 1 pair working (pair ID 059) 1 pair dead (i.e. spare, not connected)		Marker Post, Transponder
	Single to multiple round conduit Configurations 1,2,4,9 respectively P100 (attached text denotes conduit type and size)		Optical Fibre cable direct buried
	Multiple square conduit Configurations 2, 4, 6 respectively E85 (attached text denotes conduit type and size)	Some examples of conduit type and size: A - Asbestos cement, P - PVC / Plastic, C - Concrete, GI - Galanised iron, E - Earthenware Conduit sizes <i>nominally</i> range from 20mm to 100mm P50 50mm PVC conduit P100 100mm PVC conduit A100 100mm asbestos cement conduit	

Some Examples of how to read Telstra Plans



One 50mm PVC conduit (P50) containing a 50-pair and a 10-pair cable between two 6-pits, approximately 20.0m apart, with a direct buried 30-pair cable along the same route

Two separate conduit runs between two footway access chambers (manholes) approximately 245m apart. One nest of four 100mm PVC conduits (P100) containing assorted cables in three ducts (one being empty) and one empty 100mm concrete duct (C100) along

WARNING: Telstra plans and location information conform to Quality Level 'D' of the Australian Standard AS 5488 - Classification of Subsurface Utility Information. As such, Telstra supplied location information is indicative only. Spatial accuracy is not applicable to Quality Level D. Refer to AS 5488 for further details. Telstra does not warrant or hold out that its plans are accurate and accepts no responsibility for any inaccuracy shown on the plans. FURTHER ON SITE INVESTIGATION IS REQUIRED TO VALIDATE THE EXACT LOCATION OF TELSTRA PLANT PRIOR TO COMMENCING CONSTRUCTION WORK. A plant location service is an essential part of the process to validate the exact location of Telstra assets and to ensure the asset is protected during construction works. The exact position of Telstra assets can only be validated by physically exposing it. Telstra will seek compensation for damages caused to its property and losses caused to Telstra and its customers.



TPG Corporation Limited
ABN 46 093 058 069
PO Box 1844 Macquarie Centre
North Ryde NSW 2113
Phone: **1800 786 306** (24hrs)

Date: 02/11/2021

Enquirer Name: Elisha cassidy
Enquirer Address: 6 Millennium Court
Email: elisha.cassidy@ade.group
Phone: +61420309645

Dear Elisha cassidy

The following is our response on behalf of each of the TPG carriers (listed below) to your Dial Before You Dig enquiry – Sequence 204756943. It is provided to you on a confidential basis under the following conditions and must be shredded or securely disposed of after use.

Assets Affected:

Carriers (each a "TPG carrier") and assets affected:

PIPE Networks

Location: 33 Bailey Street

According to our records, the underground assets in the vicinity of the location stated in your enquiry are **AFFECTED**. Please read the below information and disclaimers in addition to the any attached plans provided prior to any construction activities.

IMPORTANT INFORMATION

- The information provided is valid for 30 days from the date of this response. If your work site area changes or your construction activity is beyond 30 days please contact Dial Before You Dig on 1100 or www.1100.com.au to re-submit a new enquiry.
- Due to the nature of underground assets and the age of some assets and records, our plans are indicative of the general location only and may not show all assets in the location. You should not solely rely on these plans when undertaking construction works. It is also inaccurate to assume depth or that underground network conduit and cables follow straight lines, and careful on-site investigations are essential to locate an asset's exact position prior to excavation. It is your responsibility to locate and confirm the exact location of our infrastructure using non-destructive techniques. We make no warranty or guarantee that our plans are complete, current or error free, and to the maximum extent permitted by law we exclude all liability to you, your employees, agents and contractors for any loss, damage or claim arising out of or in connection with using our plans.
- Please note that some of our conduits carry electrical cables and gas pipes. Please exercise extreme care when working within the vicinity of these conduit and take into account the minimum clearance distances under Duty Of Care below.
- You (and your employee and contractors) must not open, move, interfere, alter or relocate any of our assets without our prior approval.
- **Note** It is a criminal offence under the *Criminal Code Act 1995 (Cth)* to tamper or interfere with communication facilities owned by a carrier. Heavy penalties may apply for breach of this prohibition, and any damages suffered, or costs incurred by us as a result of such unauthorised works may be claimed against you.

DAMAGE

- You must report immediately any damage to our network on **1800 786 306** (24hrs). We will hold you liable and seek compensation for any loss or damage to our network, our property and our customers that is caused by or arises out of your activities.

DUTY OF CARE

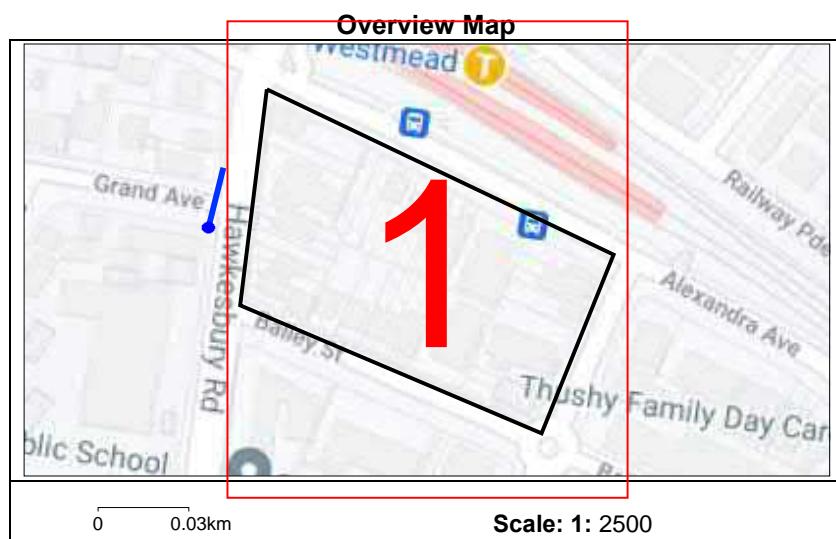
You have a duty of care to carefully locate, validate and protect our assets when carrying out works near our infrastructure. For construction activities that may impact on or interfere with our network, you will need to call us on **1800 786 306** to discuss a suitable engineering solution, lead time and cost involved. The below precautions must be taken when working in the vicinity of our network:

- Contact us on **1800 786 306** to discuss and obtain relevant information and plans on our infrastructure in a particular location if the information provided in this response is insufficient.
- Physically locate and mark on-site our network infrastructure using non-destructive techniques i.e. pot holing or hand digging every 5 metres prior to commencing any construction activities. Assets located must be marked to AS5488 standard. **NO CONSTRUCTION WORK IS ALLOWED UNTIL THIS STEP IS COMPLETED.** You must use an approved telecommunications accredited locator, or we can provide a locator for you at your expense. If we provide you with a locator, and this locator attended the site and is proven to be grossly negligent in physically locating and marking our infrastructure, then to the extent any TPG carrier is liable for this locator's negligence, acts and omissions, the total liability aggregated for all TPG carriers is limited, at our option, to attend the site and re-mark the infrastructure or to pay for a third party to re-mark the infrastructure.
- If you require us to locate or monitor our infrastructure, please allow five business days' notice for us to respond.
- Ensure all information, including our network requirements and any associated plans provided by us are kept confidential and remain on-site throughout your construction works.

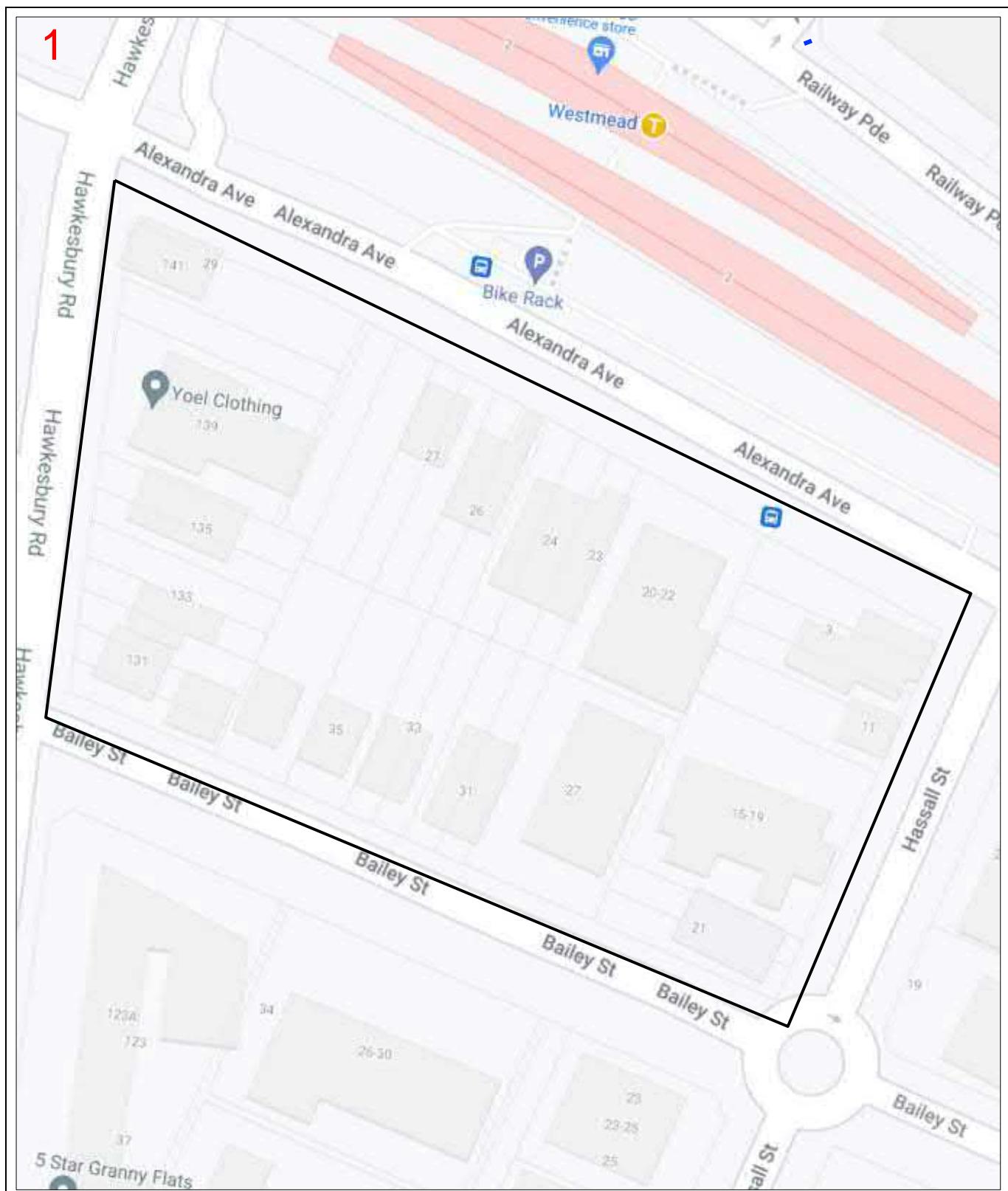
- Use suitably qualified and supervised professionals, particularly if you are working near assets that contain electricity cables or gas pipes.
 - Ensure the below minimum clearance distances between the construction activities and the actual location of our assets are met. If you need clearance distances for our above ground assets, or if the below distances cannot be met, call **1800 786 306** to discuss.
- Minimum assets clearance distances.**
- 300mm when laying asset inline, horizontal or vertical.
 - 1000mm when operating vibrating equipment. Eg: vibrating plates. No vibrating equipment on top of asset.
 - 1000mm when operating mechanical excavators or jackhammers/pneumatic breakers.
 - 2000mm when performing directional bore in-line, horizontal and vertical.
 - No heavy vehicle over 3 tonnes to be driven over asset with less than 600mm of cover.
- Reinstate exposed TPG network infrastructure back to original state.

PRIVACY & CONFIDENTIALITY

- Privacy Notice – Your information has been provided to us by Dial Before You Dig to respond to your Dial Before You Dig enquiry. We will keep your personal information in accordance with TPG's privacy policy, see www.tpg.com.au/about/privacy.
- Confidentiality – The information we have provided to you is confidential and is to be used only for planning and designing purposes in connection with your Dial Before You Dig enquiry. Please dispose of the information by shredding or other secure disposal method after use. We retain all intellectual property rights (including copyrights) in all our documents and plans.



TPG Corporation Limited



Enquiry Number: 204756943

Map Sheet: 1

Scale: 1: 750

0 0.008km



LEGEND

DBYD Work Area

AAPT/PowerTel Pit	●	TransACT Pit	●
AAPT/PowerTel Duct	—	TransACT Duct	—
DDA Pit	●	SOUL Pattinson Telecoms Pit	●
DDA Duct	—	SOUL Pattinson Telecoms Duct	—
Agile/Adam Pit	●	PIPE Networks Pit	●
Agile/Adam Duct	—	PIPE Networks Duct	—

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Penalties apply for unauthorised removal, damage, destruction, displacement, obliteration or defacing of survey marks

ISSN 2203-9384

Information Sheet

July 2018

Legislation

Survey marks are protected under the *Surveying and Spatial Information Act 2002 (NSW) Section 24*. The following penalties and orders apply for unauthorised removal, damage or disturbance of survey marks:

- Maximum penalty of 25 units, currently **\$2,750** per mark; and
- up to **\$10,000** per mark in compensation to the Surveyor-General towards the cost of reinstatement of each survey mark; and
- up to **\$10,000** per mark in compensation to any other person towards any loss or damage suffered by that person as a consequence of the offence.

If works are likely to impact a survey mark, an application under the *Surveying and Spatial Information Regulation 2017 Clause 90* must be lodged with the Surveyor-General.

Why are survey marks important?

Survey marks are a State asset and provide a wealth of important information to a wide range of people in the community. They are used to support the surveying of property boundaries and easements, and are important for engineering, road building, mapping and other land surveys.

The loss of survey marks can significantly degrade the integrity of the legal property boundaries and impact on the costs of development projects that depend upon position and height.

How do I preserve survey marks?

Surveyor-General's Direction No.11 - Preservation of Survey Infrastructure provides directions on how to comply with the Legislation.

You can find the Direction on the following link: http://spatialservices.finance.nsw.gov.au/_data/assets/pdf_file/0005/217094/SG_Direction_No11_Final4.pdf

A Registered Land Surveyor will be able to provide advice about the preservation of survey infrastructure. A list of Registered Land Surveyors is available from the Board of Surveying and Spatial Information website: http://www.bossi.nsw.gov.au/about/find_a_registered_surveyor

Additional information to assist with best practice guidelines for road infrastructure development can be found in Roads and Maritime Services QA Specification G71 – *Construction Surveys* by following the link: <http://www.rms.nsw.gov.au/business-industry/partners-suppliers/documents/specifications/g071.pdf>

Types of survey marks

There are many types of survey marks used for various purposes. Many are buried and may only be identified by a Registered Land Surveyor. Some examples of common survey marks can be seen below.



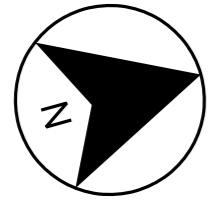
More information

For more information or to obtain advice on compliance with Legislation, please forward your enquiry to:

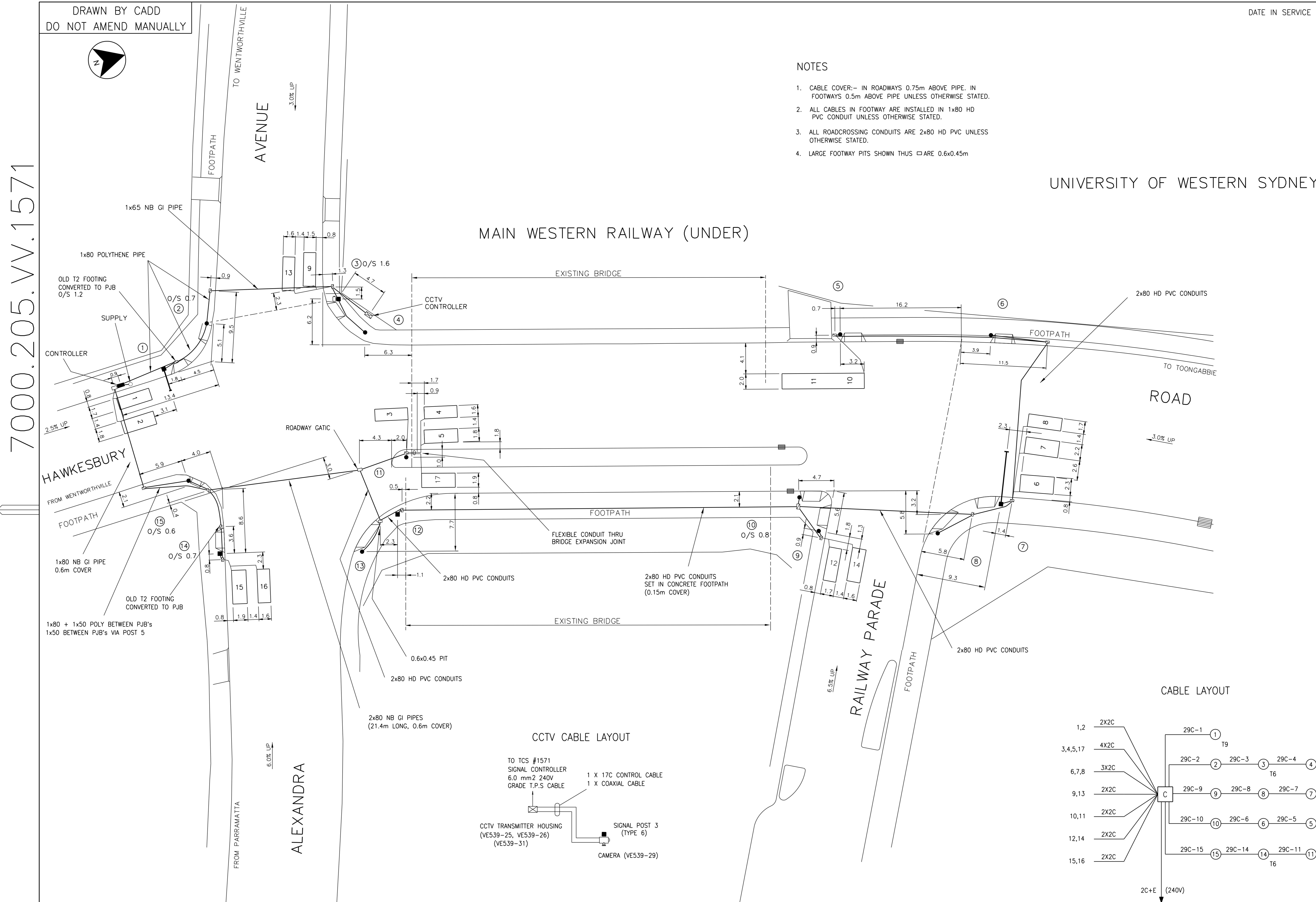
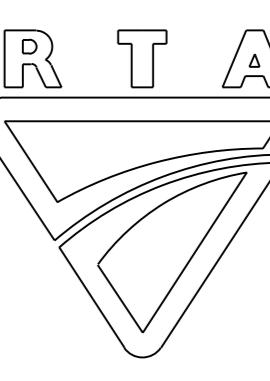
Surveyor-General-Approvals@finance.nsw.gov.au

Applications to remove a Survey Mark can be lodged here: http://spatialservices.finance.nsw.gov.au/surveying/surveying_services/forms_and_applications/survey_marks_removal

7000.205.VV.1571

DRAWN BY CADD
DO NOT AMEND MANUALLY

DATE IN SERVICE : 10/11/1978

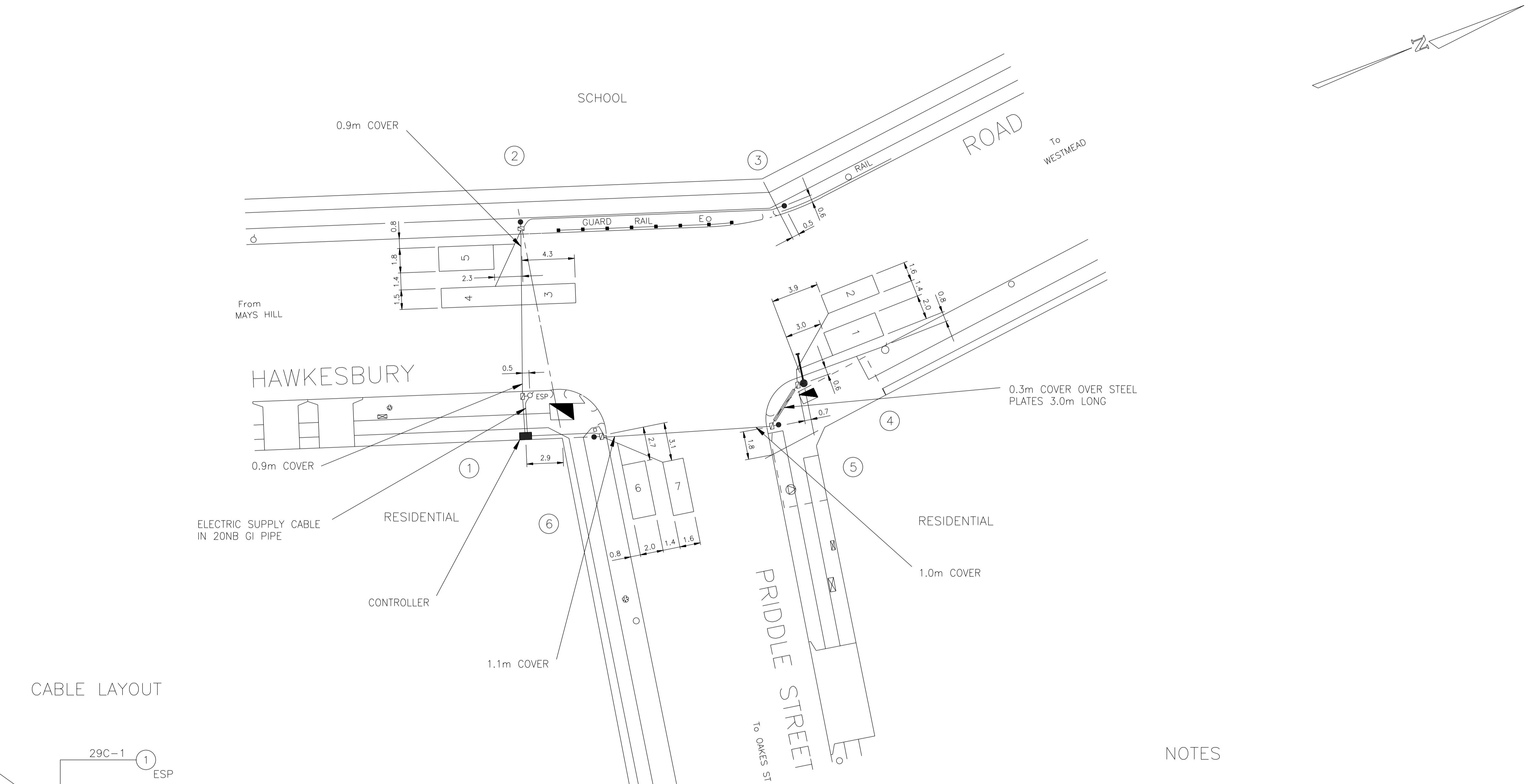
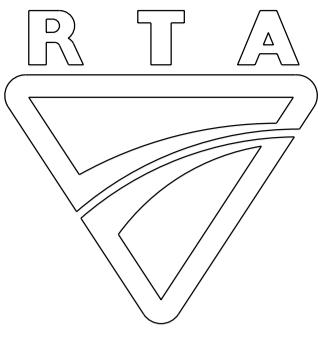


PUBLIC UTILITY LEGEND		REFERENCE PLANS	I-U-B-D Ref. 190 M16	DESIGN APPROVAL	RTA RECOMMENDED	RTA ACCEPTANCE	Roads and Traffic Authority, N.S.W		EXISTING <input checked="" type="checkbox"/> PROPOSED <input type="checkbox"/>
HOODATE	<input type="checkbox"/>	SYMB/SABBSS... VD003-E	I.S.G. E: 298 680	APPROVED	RECOMMENDED	RECOMMENDED			CADD FILE: VV.1571_14A_INS.dgn
STOP VALVE	<input checked="" type="checkbox"/>	STD POSITIVE VD001-E	CO-ORDS. N: 1 257 600						SCALE 1:200 2 0 2 4 6 8 10
GAS VALVE	<input checked="" type="checkbox"/>	DET SCHED EXP VD018-10	DESIGNED CORRIGAN'S						FILE 205 TS 251 SUPERSEDES SHEET/ISSUE 10D
SEWER MANHOLE	<input checked="" type="checkbox"/>	PRES. DETECT VD005-17	CHECKED						RECON. 7000.205.VV.1571
TELECOM PIT	<input checked="" type="checkbox"/>	SSG DIS. SEQ. VD018-8	L. EERLAND D1-09-2009	POSITION DATE	POSITION DATE	POSITION DATE			Sheet 14
ELECT LIGHT POLE	<input type="checkbox"/>		M. MAHATHAN	RECOMMENDED					
POWER POLE	<input type="checkbox"/>								
STAY POLE	<input type="checkbox"/>								
TELEPHONE BOX	<input type="checkbox"/>	SURVEYOR ± 1CP1							
TELECOM PILLAR	<input checked="" type="checkbox"/>	DATE : 2005							

© COPYRIGHT ROADS AND TRAFFIC AUTHORITY

7000.205.WV.1583

DATE IN SERVICE : 00/00/00

**NOTES**

1. CABLE COVER:- IN ROADWAY 0.75m ABOVE PIPE
IN FOOTWAY 0.5m ABOVE PIPE
UNLESS OTHERWISE STATED.
2. ALL FOOTWAY CONDUITS ARE 1x80 HD PVC UNLESS
OTHERWISE STATED.
3. ALL ROAD CROSSING CONDUITS ARE 1x80 HD PVC.

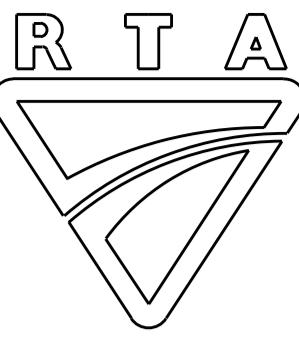
A ORIGINAL ISSUE

PUBLIC UTILITY LEGEND		REFERENCE PLANS		U.B.D. Ref. MAP 210 M1	I.S.G. E: 298680	CO-ORDS N: 1257400
HYDRANT	□	SYMBOLS/ABBS.	VD003-6			
STOP VALVE	▲	STD POSIT	VD001-5			
GAS VALVE	#	DET SCHED EXP	VD018-10	DESIGNED CORRIGAN		
SEWER MANHOLE	✖	PRES. DETECT	VC005-17	CHECKED L.CLAY		
TELECOM PIT	■	SSG DIS. SEQ.	VD018-8	T.Mc 19-08-96		
ELECT LIGHT POLE	○			SITE CHECKED		
POWER POLE	○			R.C. BIRD		
STAY POLE	○			ELECTRICAL DESIGN MANAGER		
TELEPHONE BOX	■	SURVEYOR : R.V.RYAN		L.CLAY		
TELECOM PILLAR	●	DATE : 19.04.78		RECOMMENDED		

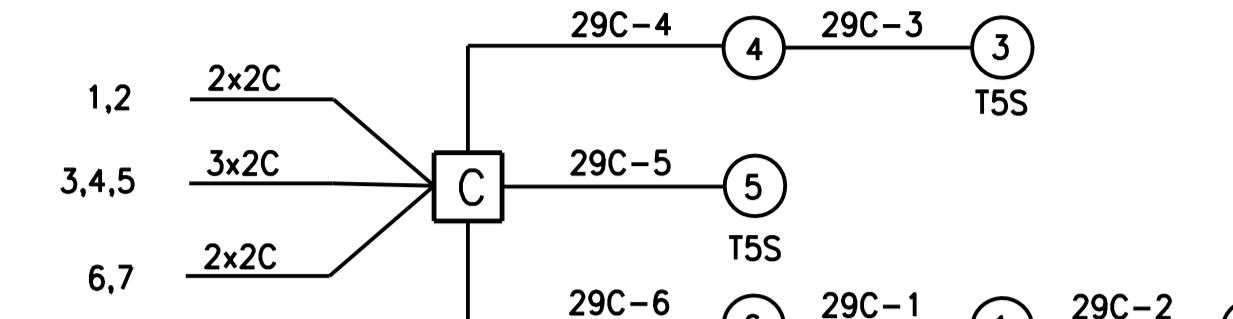
Roads and Traffic Authority, N.S.W.
HOLROYD COUNCIL
TRAFFIC SIGNALS AT INTERSECTION OF
HAWKESBURY ROAD & PRIDDLE STREET
WESTMEAD
CABLE INSTALLATION
TCS No 1583

REGION: SYDNEY	BRANCH: CONSULTANT SERVICES	
CADD FILE: WV1583_3A_INS.dgn		
SCALE 5 0 (1:200) 5 10		ISSUE A
FILE 205 TS 264	SUPERSEDES SHEET/ISSUE -	
REGN. 7000.205.WV.1583		SHEET 3

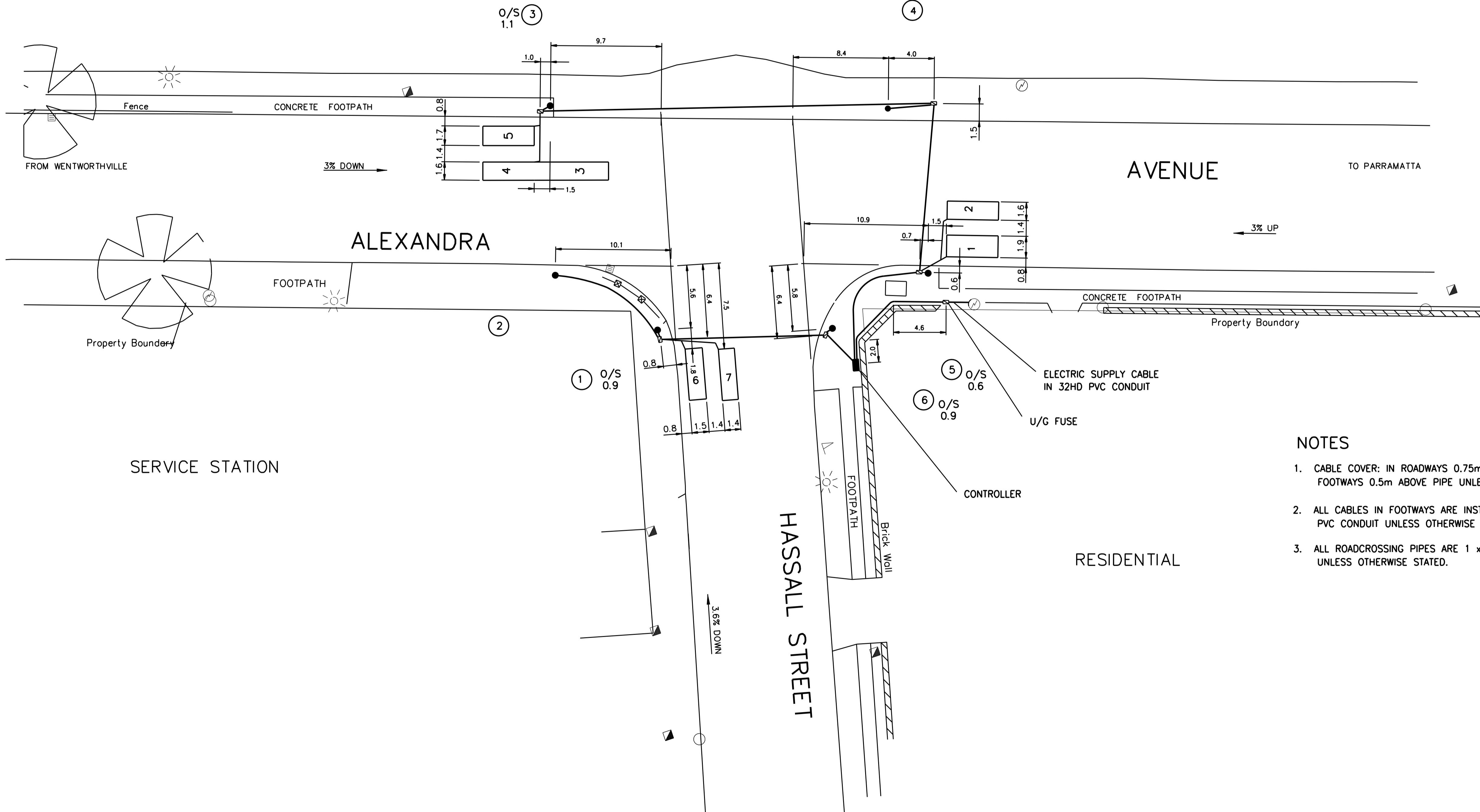
700 • 205 • 3894
V.V. • 3894



CABLE LAYOUT



RAILWAY LAND



AVENUE

PARRAMATTA

NOTES

1. CABLE COVER: IN ROADWAYS 0.75m ABOVE PIPE. IN FOOTWAYS 0.5m ABOVE PIPE UNLESS OTHERWISE STATED.
 2. ALL CABLES IN FOOTWAYS ARE INSTALLED IN 1 x 80 HD PVC CONDUIT UNLESS OTHERWISE STATED.
 3. ALL ROADCROSSING PIPES ARE 1 x 80 HD PVC CONDUIT UNLESS OTHERWISE STATED.

A ORIGINAL ISSUE	PUBLIC UTILITY LEGEND		REFERENCE PLANS		U.B.D. Ref. Map 210 M1 M.G.A. E: 298 862 CO-ORDS N: 1 257 527 APPROVED  DESIGNED TASK CHECKED L. EERLAND 1-09-2009 SITE CHECKED I. HAYES 06-07-2011 PASSED	ROADS AND TRAFFIC AUTHORITY, N.S.W HOLROYD COUNCIL AREA TEMPORARY TRAFFIC SIGNALS AT ALEXANDRA AVE AND HASSALL STREET WESTMEAD CABLE INSTALLATION TCS No 3894	EXISTING <input checked="" type="checkbox"/>		PROPOSED <input type="checkbox"/>	
	HYDRANT	<input type="checkbox"/>	SYMBOLS/ABBS.	VD003-6						
	STOP VALVE	<input checked="" type="checkbox"/>	STD POSIT	VD001-5						
	GAS VALVE	<input checked="" type="checkbox"/>	DET SCHED EXP	VD018-10						
	SEWER MANHOLE	<input checked="" type="checkbox"/>	PRES. DETECT	VC005-17						
	TELECOM PIT	<input checked="" type="checkbox"/>	SSG DIS. SEQ.	VD018-8						
	ELECT LIGHT POLE	<input checked="" type="checkbox"/>	DESIGN LAYOUT	SHT 1						
	POWER POLE	<input checked="" type="checkbox"/>	CABLE CHART	SHT 3						
	STAY POLE	<input checked="" type="checkbox"/>								
	TELEPHONE BOX	<input checked="" type="checkbox"/>	SURVEYOR : LCPL							
TELECOM PILLAR	<input checked="" type="checkbox"/>	DATE : 2005								
CADD FILE: VV3894_2A_INS.dgn										
SCALE 5 0 (1:200) 5 10										
FILE 205 TS 351 SUPERSEDES SHEET/ISSUE -										
REGN. 7000.205.VV.3894 SHEET 2										

Response Cover Letter

Western Sydney University
Locked Bag 1797
Penrith NSW 2751

Date: 02/11/2021

To:
Elisha cassidy
ADE
6 Millennium Court
Silverwater, 2128

According to our records your enquiry with the following details impacts our infrastructure. Please review other documents included with this response for additional details:

Sequence No: 204756941

Job No: 30815700

Location: 33 Bailey Street
Westmead, NSW, 2145

If you require further information, please contact the Western Sydney University on (02) 4570 1443.

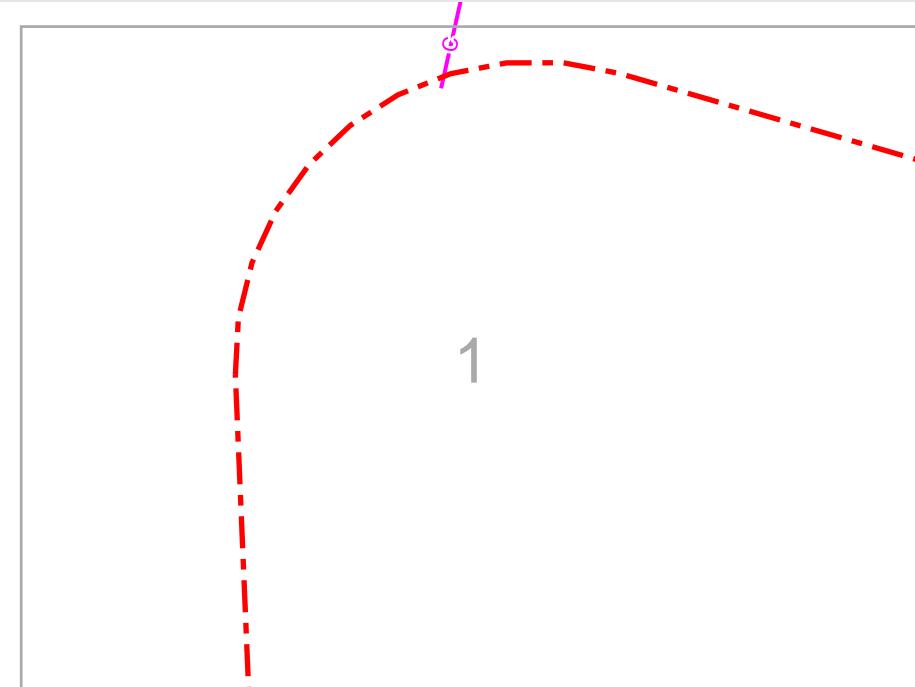
Important Notice: This enquiry response, including any associated documentation, has been assessed and compiled from the information detailed within the DBYD enquiry outlined above. Please ensure that the DBYD enquiry details and this response accurately reflect your proposed works.

This response is intended for use only by the addressee. If you have received the enquiry response in error, please let us know by telephone and delete all copies; you are advised that copying, distributing, disclosing or otherwise acting in reliance on the response is expressly prohibited.



The Essential First Step.

While reasonable measures have been taken to ensure the accuracy of the information contained in this plan response, neither Western Sydney University or PelicanCorp shall have any liability whatsoever in relation to any loss, damage, cost or expense arising from the use of this plan response or the information contained in it or the completeness or accuracy of such information. Use of such information is subject to and constitutes acceptance of these terms.



Legend:	
FH	Fire Hydrant
FC	Fire Comms
G	Gas
E	Electrical
COG	Cogeneration
OIL	Oil
S	Sewer
SW	Stormwater
C	Communications
W	Water
IR	Irrigation

N Scale: 1:755
Expires: 30 Nov 2021

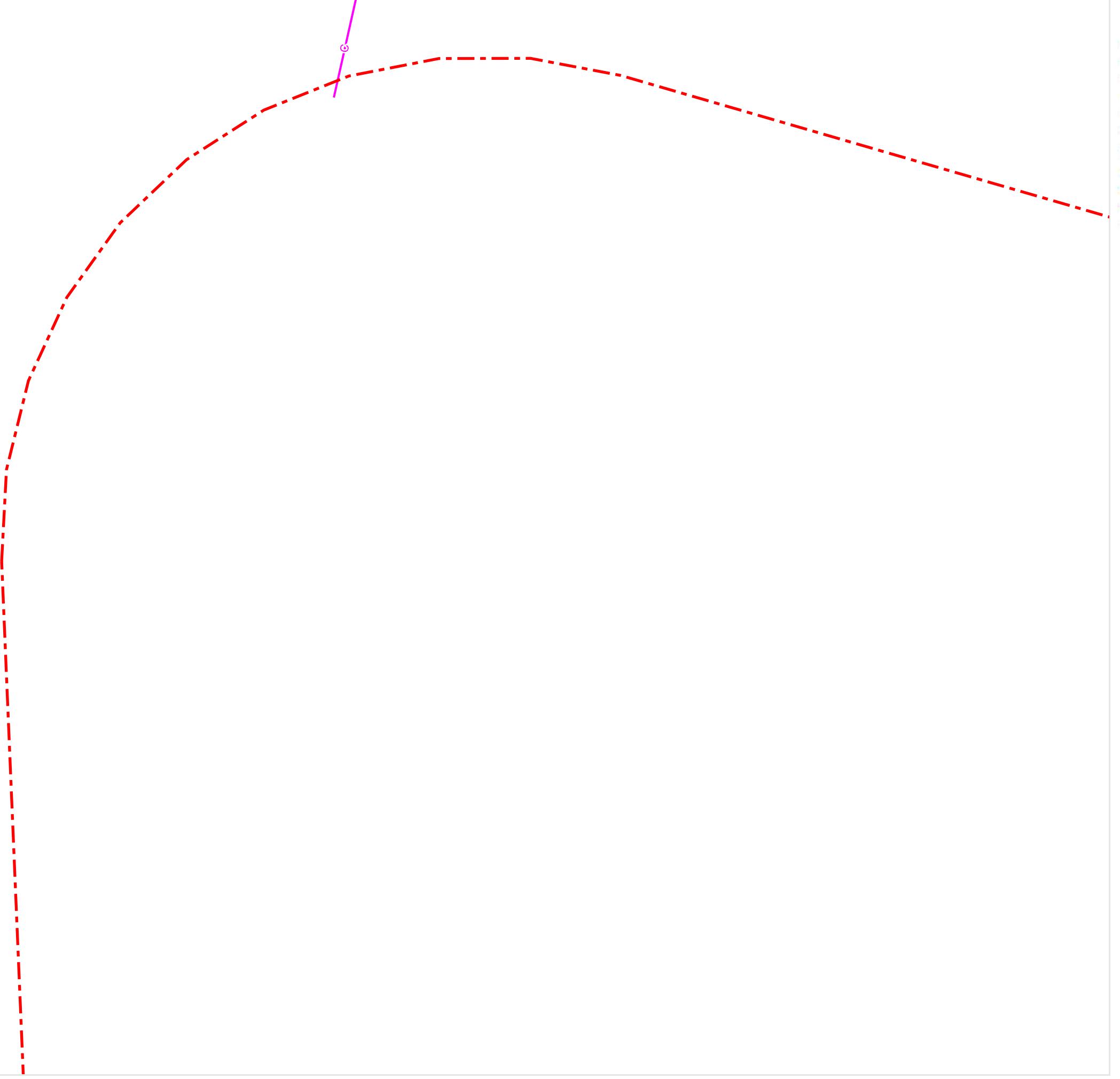
GENERAL NOTES: Do not scale from drawings. Verify dimensions on site. Verify any discrepancies with the Project Manager. All works to comply with the Building Code of Australia (BCA), Australian Standards (SAA), Council Conditions & Planning Instruments, & other relevant Statutory Authorities. Please refer to the notes that were provided with this plan for further information regarding data accuracies, etc.

DISCLAIMER: While reasonable measures have been taken to ensure the accuracy of the information contained in this plan response, neither Western Sydney University or PelicanCorp shall have any liability whatsoever in relation to any loss, damage, cost or expense arising from the use of this plan response or the information contained in it or the completeness or accuracy of such information. Use of such information is subject to and constitutes acceptance of these terms.

Overview

Legend:

- FH — Fire Hydrant
- FC — Fire Comms
- G — Gas
- E — Electrical
- COG — Cogeneration
- OIL — Oil
- S — Sewer
- SW — Stormwater
- C — Communications
- W — Water
- IR — Irrigation



Scale: 1:250

Expires: 30 Nov 2021

GENERAL NOTES: Do not scale from drawings. Verify dimensions on site. Verify any discrepancies with the Project Manager. All works to comply with the Building Code of Australia (BCA), Australian Standards (SAA), Council Conditions & Planning Instruments, & other relevant Statutory Authorities. Please refer to the notes that were provided with this plan for further information regarding data accuracies, etc.

DISCLAIMER: While reasonable measures have been taken to ensure the accuracy of the information contained in this plan response, neither Western Sydney University or PelicanCorp shall have any liability whatsoever in relation to any loss, damage, cost or expense arising from the use of this plan response or the information contained in it or the completeness or accuracy of such information. Use of such information is subject to and constitutes acceptance of these terms.

Tile No: 1



IMPORTANT: PLEASE READ ALL INFORMATION AND CONDITIONS BELOW AND ANY NOTES ON THE PLAN/S.

1. The proposed work may impact WESTERN SYDNEY UNIVERSITY underground assets in the area. Diagrams indicating the approximate position of our known underground assets are attached.
2. Please contact your relevant WESTERN SYDNEY UNIVERSITY representative to discuss your proposed works and arrange a meeting on site if necessary.
3. The accompanying plans have been generated by an automated system.
4. The plans should cover the area highlighted in the "Locality Indication Only" window on your Caller Confirmation. It is that defined area which is used to automatically generate the plans and not UBD or address information or any free text information provided to Dial Before You Dig.
5. It is important, therefore, that you be accurate in defining your dig site when you lodge your enquiry with Dial Before You Dig. It is the enquirer's responsibility to resubmit the enquiry to Dial Before You Dig if the information supplied does not match the proposed dig site.
6. Any information provided is valid only for 14 days from the date of issue.
7. The enclosed plans show the position of known WESTERN SYDNEY UNIVERSITY services. Other services may exist that are not shown on these plans. Services belonging to other third parties may not be included on these plans.
8. These plans have been prepared solely for the use of WESTERN SYDNEY UNIVERSITY and any reliance placed on these plans by you is entirely at your own risk. The plans may show the position of our assets relative to fences, buildings etc. as they existed at the time of installation/survey. The plans may not have been updated to take account of any subsequent change in the location or style of those features since the time at which the plans were initially prepared.
9. WESTERN SYDNEY UNIVERSITY makes no warranty as to the accuracy or completeness of the enclosed plans and does not assume any duty of care to you nor any responsibility for the accuracy, adequacy, suitability or completeness of the plans or for any error, omission, lack of detail, transmission failure or corruption in the information provided. WESTERN SYDNEY UNIVERSITY does not accept any responsibility for any loss that you or anyone else may suffer in connection with the provision of these plans, however that loss may arise (including whether or not arising from the negligence of WESTERN SYDNEY UNIVERSITY, its employees, agents, officers or contractors).
10. The recipient of these plans must use their own care and diligence in carrying out their works and must carry out further surveys to locate services at their work site. Persons excavating or carrying out other earthworks will be held responsible for any damage caused to WESTERN SYDNEY UNIVERSITY assets.
11. It is your responsibility to locate underground services by careful hand pot-holing prior to any excavation in the vicinity and to exercise due care during that excavation.

12. All excavations must be undertaken in accordance with the relevant legislation and regulations.
13. Asbestos cement pipelines form part of the WESTERN SYDNEY UNIVERSITY service infrastructure and, if damaged, can pose a risk to health. WESTERN SYDNEY UNIVERSITY have developed an asbestos management plan, if you locate any asbestos please contact the relevant WESTERN SYDNEY UNIVERSITY project manager immediately.
14. ANY DAMAGE TO WESTERN SYDNEY UNIVERSITY ASSETS MUST BE REPORTED IMMEDIATELY TO The relevant WESTERN SYDNEY UNIVERSITY contact, or Campus Safety and Security in the event of an emergency.
15. WESTERN SYDNEY UNIVERSITY owns and retains the copyright in all plans and details provided in conjunction with the applicant's request. The applicant is authorised to use the plans and details only for the purpose indicated in the applicant's request. The applicant must not use the plans or details for any other purpose. The plans and details should be disposed of by shredding or any other secure disposal method after use.
16. WESTERN SYDNEY UNIVERSITY plans or other details are provided only for the use of the applicant, its servants, or agents. The applicant is to treat all plans and details as confidential and the applicant may not give the plans or details to other parties, and may not generate profit from commercialising the plans or details.
17. Please contact the relevant WESTERN SYDNEY UNIVERSITY representative immediately should you locate assets not indicated on these plans.
18. WESTERN SYDNEY UNIVERSITY must be provided with as constructed drawings of any alterations/additions made to the services infrastructure on WESTERN SYDNEY UNIVERSITY campuses.
19. Any works undertaken upon the services infrastructure must comply with WESTERN SYDNEY UNIVERSITY standards, please contact the relevant WESTERN SYDNEY UNIVERSITY representative to obtain a copy of the standards.
20. Warning: The information contained in this email is confidential and intended for the use of the person(s) to whom it is addressed. If you are not the intended recipient you are hereby notified that any perusal, use, distribution, copying disclosure is strictly prohibited. If you have received this email in error, please notify us immediately by telephone and/or return email without making a copy.

02/11/2021

Elisha cassidy
ADE
6 Millennium Court
Silverwater NSW 2128

Dear Elisha cassidy

DIAL BEFORE YOU DIG - JOB: 30815700 SEQ: 204756948

Thank you for your enquiry regarding the below mentioned area.

Enquiry Date: 02/11/2021
Address: 33 Bailey Street
Suburb: Westmead
State: NSW, 2145

Additional Information:

YES – We can confirm, the Vocus Group has Fibre Optic Services within the vicinity.

Please find attached a copy of the services plan for the location you have specified. These plans are valid for 30 days from the date requested.

IMPORTANT INFORMATION

Drawings and plans provided by the Vocus Group are reference diagrams which were correct at the time the asset was built. Exact ground cover and alignments cannot be provided with any certainty, as these may alter over time. Depth of the Telecommunications asset can vary considerably as can alignments. The plans provided are to be used as a guide only.

Identifying the Vocus Group asset visually is critical. Information on how this can be arranged is provided in this document.

Please email Damage.Relocations@vocus.com.au for general enquiries about the information provided within this response.

Yours sincerely,
Vocus Group DBYD Team

EMERGENCY CONTACT: 1800 262 663

Vocus Group
Level 12, 60 Miller Street
NORTH SYDNEY NSW 2060
T: 1300 88 99 88 E: info@vocus.com.au

DUTY OF CARE

The Constructor has a legal “Duty of Care” that must be observed when working in the vicinity of any Vocus Group asset.

It is the responsibility of the Constructor to design their works with no impact to the Vocus Group asset.

The Constructor must;

- a. Obtain and review plans for a specified area through Dial Before You Dig within a reasonable timeframe before construction begins.
- b. Visually locate the Vocus Group asset, using a Vocus Group Accredited Locator who will vacuum excavate (potholing) where construction activities may damage or interfere with the Vocus Group asset. Refer to ***“Clearances for Work in the Vicinity of the Vocus Group Asset”*** section below for more information.
- c. Contact the Vocus Group if the Vocus Group asset is wholly or partly located near planned construction activities.

NOTE: Plans are provided free of charge from DBYD. Request for plans of a larger area may incur a cost.

DAMAGE

The Constructor will be held responsible for all asset damage when work commences prior to obtaining the Vocus Group plans, or failure to follow instructions.

ANY DAMAGE TO THE VOCUS GROUP ASSET MUST BE REPORTED TO 1800 262 663 IMMEDIATELY

The Vocus Group reserves all rights to recover compensation for loss or damage to its cable network or other property including consequential losses.

ASSET RELOCATIONS

The Constructor is not permitted to relocate or alter any Vocus Group asset or network under any circumstance.

For all enquiries relating to the relocation of a Vocus Group asset please email Damage.Relocations@vocus.com.au

RESOLUTION OF POINTS OF CONFLICT

Should asset location and potholing reveal points of conflict between the Constructors planned works and the existing Vocus Group asset, the Constructor should contact the Vocus Group for advice and to discuss possible solutions.

Please contact the Fibre Assurance Team

Phone: 1800 262 663

Email: Damage.Relocations@vocus.com.au

ASSESSMENT OF RISK AND PROTECTIVE ACTIONS

Where “Protective works” are required around existing the Vocus Group asset, a solution will be confirmed on a case by case basis. The cost of the Protective works are the responsibility of the Constructor and the works will be carried out by a Vocus Group Accredited Contractor.

Where “Relocation works” of the Vocus Group asset is part of an agreed solution, a Project Manager will be assigned to work with the Constructor. The cost of the Relocation works are the responsibility of the Constructor and the works will be carried out by a Vocus Group Accredited Contractor.

Region	Onsite Locations Contact	Phone	Mobile	Fax	After Hours
Sydney, NSW	QC Communications	(02) 9620 2407		(08) 9620 1701	
Alice Springs, NT	Chambers Engineering	(08) 8955 5022	0418 837 833 0427 971 931	(08) 8955 5322	
Darwin, NT	Anywair Electrics		0418 890 071		0418 890 071
Darwin, NT	Northern Comm.'s		0407 904 319		0407 904 319
Brisbane, QLD	Optilinx	(07) 3901 7353	A/Hours or Emergency 0404 010 658	(07) 3901 7352	
Adelaide, SA	TPC	(08) 8376 5911		(08) 8376 5944	
Melbourne, VIC	Linktech	(03) 8805 0300			
Perth, WA	Abaxa	1300 369 642	A/Hours or Emergency 0411 746 657	(08) 9256 2922	

**If any of the above numbers are uncontactable and your call is urgent,
please call the Vocus National Service Desk on 1800 262 663**

The Vocus Group accepts no liability for the information provided to the Constructor by the Locators listed above.

Further to this, the Constructor acknowledges that the Locator is the agent of the Constructor and that the Vocus Group takes no responsibility for the Locators' acts or omissions.

- For all work within 2.5 metres of nominal location, the Constructor is required to prove the actual location of the asset by potholing and exposing before commencing work.
- Potholing to expose and locate the Vocus Group asset is required before work commences and every 3 metres where the Constructors works are parallel to the Vocus Group asset.
- The Constructor is responsible for all asset damages when works commence without the Vocus Group plans or by failure to follow advice and/or instructions from the Vocus Group.

NOTE: No machinery shall be used within 1 metre of the Vocus Group asset until the actual location has been determined by potholing using hand tools.

NOTE: No heavy earth working machinery shall be used within 5 metres of the Vocus Group asset until the actual location has been determined by potholing using hand tools.

CLEARANCES FOR WORK IN THE VICINITY OF THE VOCUS GROUP ASSET

These figures represent the minimum clearance cover to be maintained over the Vocus Group asset. Please note that the actual cover over existing asset may be greater or less than recommended figures. Exact alignment and depths cannot be given with certainty as such levels can change over time.

Footpath and Verge Areas	450mm
Roadways	600mm

These figures represent the minimum clearance between construction and actual location of the Vocus Group asset.

Jackhammers / Pneumatic Breakers	Not within 2.5 metres of actual location
Vibrating Plate or Wacker Packer Compactors	Not within 500mm of actual location
Heavy Vehicle Traffic	Not to be driven across the Vocus Group asset with less than 600mm cover. The Constructor is to check the depth by potholing using hand tools.
Mechanical Excavators	Not within 1 metre of actual location. The Constructor is to pothole and expose the asset using hand tools.
Boring Equipment (in-line, horizontal and vertical)	Not within 2.5 metres of actual location. The Constructor is to pothole and expose the asset.

Access to the Vocus Group pits must remain accessible and at ground level at all times.

Any information provided is valid for 30 days only from the date of issue of this document. If the works extend beyond this period, or if the designs are altered in any way, you are requested to re-submit your proposal for re-assessment by contacting Dial Before You Dig.

Phone 1100 or check the website for more details <http://www.1100.com.au>

Schedule	The Criminal Code
Chapter 10	National infrastructure
Part 10.6	Telecommunications Services
Division 474	Telecommunications offences

474.6 Interference with facilities

(1) A person is guilty of an offence if the person tampers with, or interferes with, a facility owned or operated by:

- (a) a carrier; or
- (b) a carriage service provider; or
- (c) a nominated carrier.

Penalty: Imprisonment for 1 year.

(2) For the purposes of an offence against subsection (1), absolute liability applies to the physical element of circumstance of the offence, that the facility is owned or operated by a carrier, a carriage service provider or a nominated carrier.

(3) A person is guilty of an offence if:

(a) the person tampers with, or interferes with, a facility owned or operated by:

- (i) a carrier; or
- (ii) a carriage service provider; or
- (iii) a nominated carrier; and

(b) this conduct results in hindering the normal operation of a carriage service supplied by a carriage service provider.

Penalty: Imprisonment for 2 years.

(4) For the purposes of an offence against subsection (3), absolute liability applies to the following physical elements of circumstance of the offence:

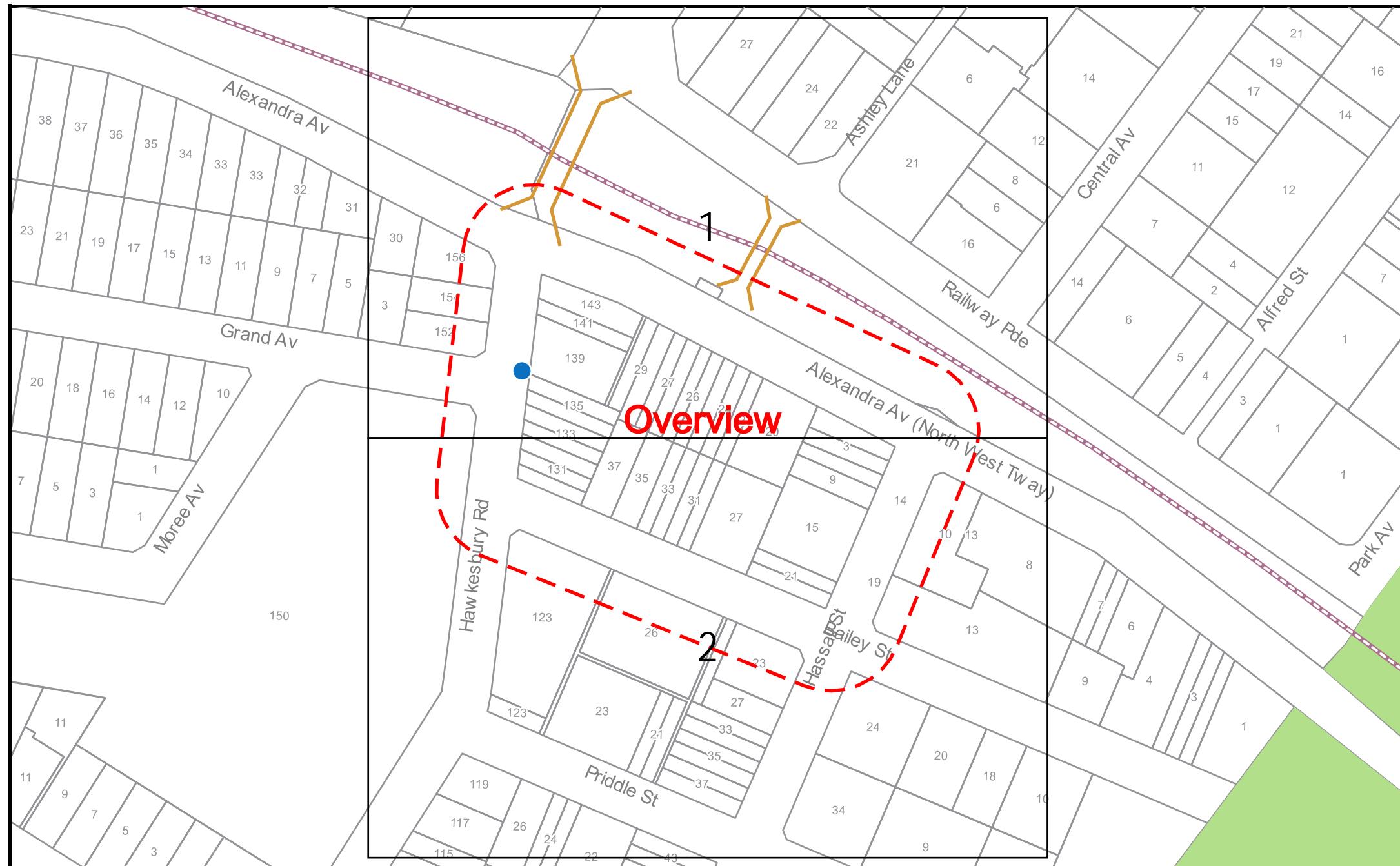
- (a) that the facility is owned or operated by a carrier, a carriage service provider or a nominated carrier;
- (b) that the carriage service is supplied by a carriage service provider.

(5) A person is guilty of an offence if:

(a) the person uses or operates any apparatus or device (whether or not it is comprised in, connected to or used in connection with a telecommunications network); and

(b) this conduct results in hindering the normal operation of a carriage service supplied by a carriage service provider.

Penalty: Imprisonment for 2 years.



SEQUENCE NUMBER: 204756948

JOB NUMBER: 30815700

ADDRESS: 33 Bailey Street, Westmead, NSW 2145

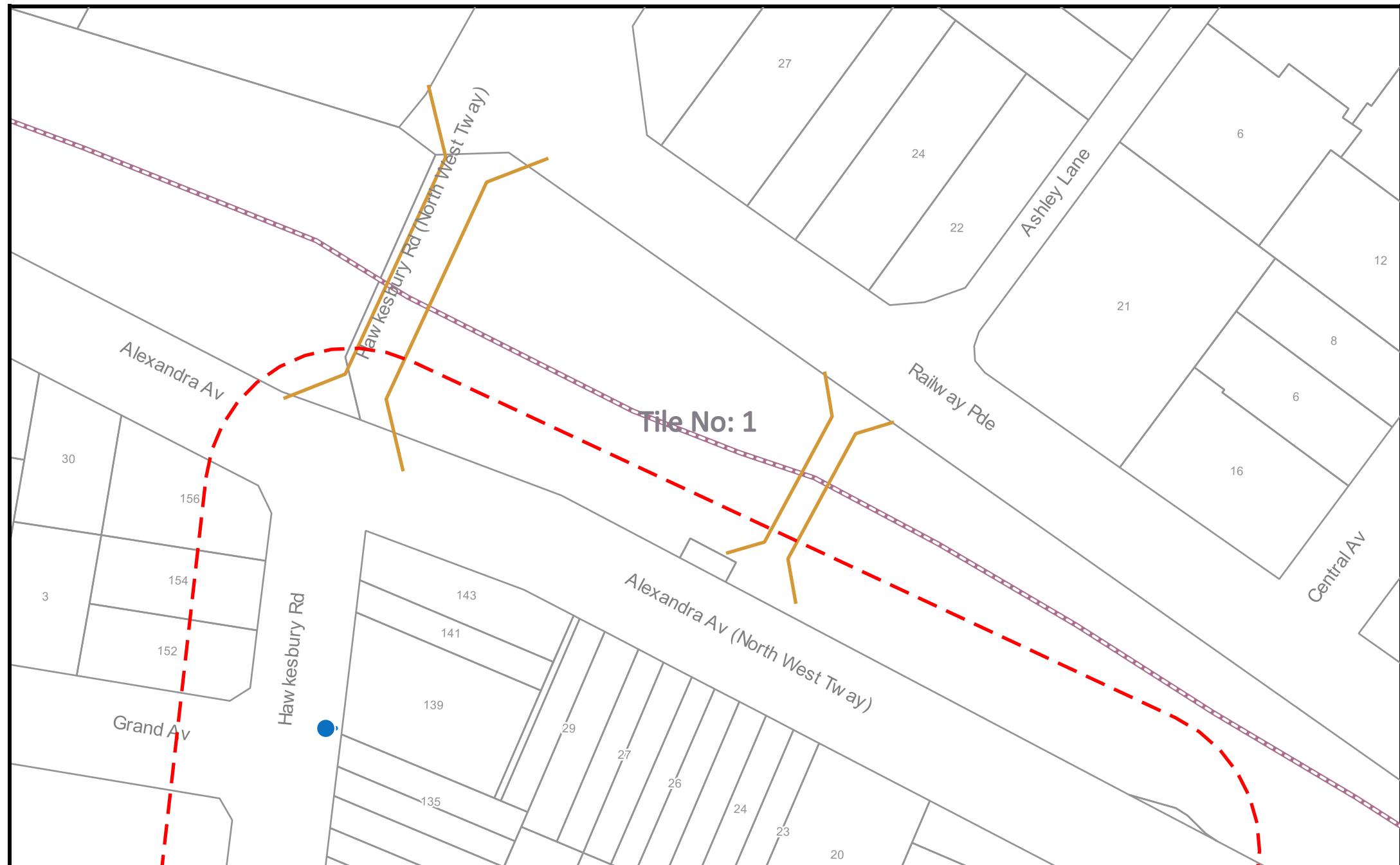


LEGEND

LEGEND ● Vocus Group Pi

Vocus Group Conduit

SCALE: 1:2050



SEQUENCE NUMBER: 204756948

JOB NUMBER: 30815700

ADDRESS: 33 Bailey Street, Westmead, NSW 2145

LEGEND

● Vocus Group Pit
— Vocus Group Conduit

SCALE: 1:1000



SEQUENCE NUMBER: 204756948

JOB NUMBER: 30815700

ADDRESS: 33 Bailey Street, Westmead, NSW 2145

LEGEND

- Vocus Group Pit
- Vocus Group Conduit

SCALE: 1:1000



Job No 30815700

Phone: 1100
www.1100.com.au

Caller Details

Contact: Elisha cassidy
Company: ADE
Address: 6 Millennium Court
Silverwater NSW 2128

Caller Id: 3125618
Phone: 0420 309 645
Email: elisha.cassidy@ade.group

Dig Site and Enquiry Details

WARNING: The map below only displays the location of the proposed dig site and does not display any asset owners' pipe or cables. The area highlighted has been used only to identify the participating asset owners, who will send information to you directly.



User Reference:	delta westmead		
Working on Behalf of:	Private		
Enquiry Date: 01/11/2021	Start Date: 08/11/2021	End Date: 20/11/2021	
Address: 33 Bailey Street Westmead NSW 2145			
Job Purpose: Excavation	Onsite Activities: Mechanical Excavation	Location of Workplace: Both	Location in Road: Road, Nature Strip, Footpath
<ul style="list-style-type: none"> Check that the location of the dig site is correct. If not you must submit a new enquiry. Should the scope of works change, or plan validity dates expire, you must submit a new enquiry. Do NOT dig without plans. Safe excavation is your responsibility. If you do not understand the plans or how to proceed safely, please contact the relevant asset owners. 			

Notes/Description of Works:

Not supplied

Your Responsibilities and Duty of Care

- The lodgement of an enquiry does not authorise the project to commence. You must obtain all necessary information from any and all likely impacted asset owners prior to excavation.
- If plans are not received within 2 working days, contact the asset owners directly & quote their Sequence No.
- ALWAYS perform an onsite inspection for the presence of assets. Should you require an onsite location, contact the asset owners directly. Please remember, plans do not detail the exact location of assets.
- Pothole to establish the exact location of all underground assets using a hand shovel, before using heavy machinery.
- Ensure you adhere to any State legislative requirements regarding Duty of Care and safe digging requirements.
- If you damage an underground asset you MUST advise the asset owner immediately.
- By using this service, you agree to Privacy Policy and the terms and disclaimers set out at www.1100.com.au
- For more information on safe excavation practices, visit www.1100.com.au

Asset Owner Details

The assets owners listed below have been requested to contact you with information about their asset locations within 2 working days.

Additional time should be allowed for information issued by post. It is your responsibility to identify the presence of any underground assets in and around your proposed dig site. Please be aware, that not all asset owners are registered with the Dial Before You Dig service, so it is your responsibility to identify and contact any asset owners not listed here directly.

** Asset owners highlighted by asterisks ** require that you visit their offices to collect plans.

Asset owners highlighted with a hash # require that you call them to discuss your enquiry or to obtain plans.

Seq. No.	Authority Name	Phone	Status
204756947	Endeavour Energy	(02) 9853 4161	NOTIFIED
204756950	Jemena Gas West	1300 880 906	NOTIFIED
204756944	NBN Co NswAct	1800 687 626	NOTIFIED
204756949	Optus and or Uecom Nsw	1800 505 777	NOTIFIED
204756946	Sydney Trains Metro West	(02) 9848 9578	NOTIFIED
204756951	Sydney Water	13 20 92	NOTIFIED
204756945	Telstra NSW Central	1800 653 935	NOTIFIED
204756943	TPG Telecom (NSW)	1800 786 306	NOTIFIED
204756942	Transport for NSW	(02) 8837 0285	NOTIFIED
204756941	University of Western Sydney	(03) 8413 5200	NOTIFIED
204756948	Vocus Communications 2	1800 262 663	NOTIFIED

Lodge Your Free Enquiry Online – 24 Hours a Day, Seven Days a Week

Appendix XIII – Other Supporting Documentation

SCHEDULE 20- REQUIREMENTS OF AUTHORITY APPROVALS

	MCoA Allocation			
Project:	Parramatta & Clyde Enabling Works			
Approval Name:	SSI 10038			
Condition Type	Condition Classification	Condition Reference	Description	Allocation to Principal Contractor
MCoA	General	C-A1	<p>Approval is granted to the 'Concept' as described in Schedule 1 and in Chapter 6 and in Chapter 7 of the <i>Sydney Metro West – Westmead to The Bays and Sydney CBD Environmental Impact Statement</i> dated 15 April 2020, as amended by the following:</p> <ul style="list-style-type: none"> (a) Sydney Metro West – Westmead to The Bays and Sydney CBD Amendment Report dated 20 November 2020; and (b) Sydney Metro West – Westmead to The Bays and Sydney CBD Submissions Report dated 20 November 2020. 	Full Compliance
MCoA	General	C-A2	<p>The Proponent must carry out the CSSI Concept in accordance with the conditions of this approval and the documents listed in Condition C-A1 of this schedule unless otherwise specified in, or required under, the conditions of this approval.</p>	Full Compliance
MCoA	General	C-A3	<p>In the event of an inconsistency between:</p> <ul style="list-style-type: none"> (a) the conditions of this approval and any document listed in Condition C-A1 of this schedule inclusive, the conditions of this approval will prevail to the extent of the inconsistency; and (b) any document listed in Condition C-A1 of this schedule, the most recent document will prevail to the extent of the inconsistency. <p>Note: For the purpose of this condition, there will be an inconsistency between a term of this approval and any document if it is not possible to comply with both the term and the document.</p>	Full Compliance

MCoA	General	C-A4	Except to the extent described in any document listed in Condition C-A1 of this schedule, any over station development, including any future uses, does not form part of this CSSI and will be subject to the relevant assessment pathway prescribed by the EP&A Act.	Not Applicable
MCoA	Place and Design	C-B1	To ensure that a high-quality urban design response is achieved, the CSSI must have regard to, and be generally consistent with, the place and design principles for each location outlined in the documents listed in Condition C-A1 of this schedule, unless expressly specified in the conditions of this approval.	Not Applicable
MCoA	Place and Design	C-B2	<p>For the relevant future stage application, the following must be considered at the Clyde Maintenance and Stabling Facility site:</p> <ul style="list-style-type: none"> (a) publicly-accessible active transport corridors immediately around the site adjoining James Ruse Drive that connects to existing and future links and open spaces; (b) public spaces for recreational use on residual land to offset the loss of the private recreational land, or any alternate and commensurate opportunity that achieves the objective and provides value for money, developed in consultation with City of Parramatta Council; (c) re-naturalisation of parts of Duck Creek and A'Becketts Creek and rehabilitation of the riparian corridor; and (d) integration with strategic planning for the precinct. 	Not Applicable
MCoA	Place and Design	C-B3	The delivery of the section of the future Parramatta Civic Link located on the Parramatta metro station construction site must be facilitated to enable completion before operation of the CSSI.	Not Applicable
MCoA	Aboriginal and Non-Aboriginal Heritage	C-B4	The relevant future stage application relating to the design of stations must include a Heritage Interpretation Strategy , prepared in consultation with Heritage NSW, which outlines how key Aboriginal and non-Aboriginal heritage values and stories of Heritage items will be interpreted in the project design, including station and precinct urban design. The Heritage Interpretation Strategy must include procedures for how to include results of archaeological findings (historical and Aboriginal archaeological results) when they become available.	Not Applicable
MCoA	Aboriginal and Non-Aboriginal Heritage	C-B5	The Heritage Interpretation Strategy must be prepared in accordance with the <i>NSW Heritage Manual</i> , the NSW Heritage Office's <i>Interpreting Heritage Places and Items: Guidelines</i> (August	Not Applicable

			2005), and the NSW Heritage Council's <i>Heritage Interpretation Policy</i> .	
MCoA	Aboriginal and Non-Aboriginal Heritage	C-B6	<p>The Heritage Interpretation Strategy must include, but not be limited to:</p> <ul style="list-style-type: none"> (a) a discussion of key interpretive themes, stories and messages proposed to interpret the history and significance of archaeological excavation, the affected Heritage items and sections of heritage conservation areas (if applicable); (b) options for the re-purposing of archaeological finds (results and artefacts), heritage features or listed items salvaged or protected during construction stages of the CSSI, and how they will be integrated into the final project design; (c) Aboriginal cultural and heritage values of the project area including the results of any archaeological investigations undertaken (or any interim results of any archaeological investigations that have commenced but have yet to be completed) and key socio-cultural values identified in the Aboriginal Cultural Heritage Assessment Report referred to in Condition C-A1 of this schedule, and those of any future stages of the CSSI; (d) details of the audience, potential devices to be employed in interpretation, possible locations for interpretation and how this will be incorporated into design; (e) engagement with the Relevant Council(s) and regard for any relevant council heritage interpretation guidelines; and (f) with respect to the Parramatta construction site and (a) above, any discussion must include how the heritage interpretation of the CSSI relates to the heritage interpretations of other projects in Parramatta, including State Significant Development projects and other SSI projects. 	Not Applicable
MCoA	Sustainability	C-B7	The CSSI must achieve a minimum Infrastructure Sustainability Council of Australia (ISCA) Infrastructure Sustainability rating of 75 (Version 1.2) (or equivalent level of performance using a demonstrated equivalent rating tool) or a 5-Star Green Star rating (or equivalent level of performance using a demonstrated equivalent rating tool).	Not Applicable

MCoA	Biodiversity and Trees	C-B8	As many mature trees as practicable must be retained. In addition, within ten (10) years of the date of this approval or no later than the commencement of operation of the CSSI (whichever is earlier) there must be a net increase in the number of mature trees provided at a ratio of 2:1.	Full Compliance except Sydney Metro will ensure a net increase in the number of mature trees provided at a ratio of 2:1
MCoA	Biodiversity and Trees	C-B9	The CSSI must result in an increase in tree canopy coverage.	Not Applicable
MCoA	Biodiversity and Trees	C-B10	Parts of Duck Creek and A'Becketts Creek that remain open channels at the Clyde Stabning and Maintenance Facility site must be rehabilitated and / or renaturalised before operation of the CSSI commences. Only species that are representative of PCT 920 (Mangrove Forests in estuaries of the Sydney Basin Bioregion and South East Corner Bioregion) must be used in the revegetation of the riparian zone along the open channels to Duck Creek and A'Becketts Creek.	Not Applicable
MCoA	Climate Change	C-B11	The CSSI must be designed to withstand known impacts associated with climate change to year 2100.	Not Applicable
MCoA	General	A1	The Proponent must carry out Stage 1 of the CSSI in accordance with the conditions of this approval and generally in accordance with the: (a) Sydney Metro West – Westmead to The Bays and Sydney CBD Environmental Impact Statement dated 15 April 2020; (b) Sydney Metro West – Westmead to The Bays and Sydney CBD Submissions Report dated 20 November 2020; and (c) Sydney Metro West – Westmead to The Bays and Sydney CBD Amendment Report dated 20 November 2020.	Full Compliance
MCoA	General	A2	Stage 1 of the CSSI must only be carried out in accordance with all procedures, commitments, preventative actions, performance criteria and mitigation measures set out in the documents listed in Condition A1 of this schedule unless otherwise specified in, or required under, this approval.	Full Compliance
MCoA	General	A3	In the event of an inconsistency between: (a) the conditions of this approval and any document listed in Condition A1 of this schedule, the conditions of this approval will prevail to the extent of the inconsistency; and (b) any document listed in Condition A1 of this schedule, the most recent document will prevail to the extent of the inconsistency.	Full Compliance

			Note: For the purpose of this condition, there is an inconsistency between a term of this approval and any document if it is not possible to comply with both the term and the document.	
MCoA	General	A4	In the event that there are differing interpretations of the conditions of this approval, including in relation to a condition of this approval, the Planning Secretary's interpretation is final.	Full Compliance
MCoA	General	A5	The Proponent must comply with all written requirements or directions of the Planning Secretary, including in relation to: (a) the environmental performance of Stage 1 of the CSSI; (b) any document or correspondence in relation to Stage 1 of the CSSI; (c) any notification given to the Planning Secretary under the conditions of this approval; (d) any audit of Stage 1 of the CSSI; (e) the conditions of this approval and compliance with the conditions of this approval (including anything required to be done under this approval); (f) the carrying out of any additional monitoring or mitigation measures; and (g) in respect of ongoing monitoring and management obligations, compliance with an updated or revised version of a guideline, protocol, Australian Standard or policy required to be complied with under the conditions of this approval.	Full Compliance
MCoA	General	A6	Where the conditions of this approval require a document or monitoring program to be prepared, or a review to be undertaken, in consultation with identified parties, evidence of the consultation undertaken must be submitted to the Planning Secretary with the document. The evidence must include: (a) documentation of the engagement with the party identified in the condition of approval that has occurred before submitting the document for approval; (b) a log of the dates of engagement or attempted engagement with the identified party and a summary of the issues raised by them; (c) documentation of the follow-up with the identified party(s) where feedback has not been provided to confirm that the party(s) has none or has failed to provide feedback after repeated requests; (d) outline of the issues raised by the identified party(s) and how	Full Compliance, except Sydney Metro would make all submissions to the Planning Secretary

			<p>they have been addressed; and</p> <p>(e) a description of the outstanding issues raised by the identified party(s) and the reasons why they have not been addressed.</p>	
MCoA	General	A7	This approval lapses five (5) years after the date on which it is granted, unless work has physically commenced on or before that date.	Not Applicable
MCoA	General	A8	References in the conditions of this approval to any guideline, protocol, Australian Standard or policy are to such guidelines, protocols, standards or policies in the form they are in as at the date of this approval.	Full Compliance
MCoA	General	A9	Any document that must be submitted or action taken within a timeframe specified in or under the conditions of this approval may be submitted or undertaken within a later timeframe agreed with the Planning Secretary. This condition does not apply to the written notification required in respect of an incident under Condition A43 of this schedule.	Full Compliance, except Sydney Metro would make all submissions to and undertake all interface with the Planning Secretary
MCoA	Phasing	A10	Stage 1 of the CSSI may be constructed in phases. Where phased construction is proposed, a Phasing Report must be prepared and submitted to the Planning Secretary for information. The Phasing Report must be submitted to the Planning Secretary for information no later than one (1) month before the commencement of construction of the first of the proposed phases of construction.	Not Applicable
MCoA	Phasing	A11	<p>The Phasing Report must:</p> <ul style="list-style-type: none"> (a) set out how construction of the whole of Stage 1 of the CSSI will be phased, including details of work and other activities to be carried out in each phase and the general timing of when construction of each phase will commence and finish; (b) specify the relevant conditions that apply to each phase and how compliance with conditions will be achieved across and between each of the phases of Stage 1 of the CSSI; (c) set out mechanisms for managing any cumulative impacts arising from the proposed phasing; and (d) include an assessment of the predicted level of environmental risk and potential level of community concern posed by the construction activities required to construct each phase of Stage 1 of the CSSI. 	Not Applicable

			With respect to (d) above, the risk assessment must use an appropriate process consistent with AS/NZS ISO 31000: 2009; Risk Management - Principles and Guidelines and must be endorsed by the ER.	
MCoA	Phasing	A12	Stage 1 of the CSSI must be phased in accordance with the Phasing Report , as submitted to the Planning Secretary for information.	Not Applicable
MCoA	Phasing	A13	Where phasing is proposed, the conditions of this approval that apply or are relevant to the work or activities to be carried out in a specific phase must be complied with at the relevant time for that phase.	Full Compliance
MCoA	Phasing	A14	Where changes are proposed to the phasing of construction, a revised Phasing Report must be prepared and submitted to the Planning Secretary for information before the commencement of changes to the phasing of construction.	Not Applicable
MCoA	Phasing	A15	<p>With the approval of the Planning Secretary, the Proponent may submit any strategies, plans or programs required by this approval on a progressive basis within each phase of Stage 1 of the CSSI.</p> <p>Notes:</p> <ol style="list-style-type: none"> 1. While any strategy, plan or program may be submitted on a progressive basis, the Proponent will need to ensure that the existing activities on site are covered by suitable strategies, plans or programs at all times; and 2. If the submission of any strategy, plan or program is to be submitted on a progressive basis, then the relevant strategy, plan or program must clearly describe the activities to which the strategy, plan or program applies, the relationship of this activity to any future activities within the phase, and the trigger for updating the strategy, plan or program. 	Full Compliance, except Sydney Metro would make all submissions to the Planning Secretary

MCoA	Ancillary Facilities	A16	<p>Ancillary facilities that are not identified by description and location in the documents listed in Condition A1 of this schedule can only be established and used in each case if:</p> <ul style="list-style-type: none"> (a) they are located within or immediately adjacent to the Construction Boundary; and (b) they are not located next to sensitive land user(s) (including where an access road is between the facility and the receiver), unless the landowner and occupier have given written acceptance to the carrying out of the relevant facility in the proposed location; and (c) they have no impacts on Heritage items (including areas of archaeological sensitivity), threatened species, populations or ecological communities beyond the impacts approved under the conditions of this approval; and (d) the establishment and use of the facility can be carried out and managed within the outcomes set out in the conditions of this approval, including in relation to environmental, social and economic impacts. <p>Note: This condition does not apply to any ancillary facilities or work that are exempt or complying development, established before the commencement of construction under this approval or minor ancillary facilities established under Condition A21 of this schedule.</p>	Full Compliance
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MCoA	Site Establishment Work	A17	<p>Before establishment of any ancillary facility (excluding exempt or complying development, minor ancillary facilities determined by the ER to have minimal environmental impact and those established under Condition A21 of this schedule, and those considered in an approved CEMP), the Proponent must prepare a Site Establishment Management Plan which outlines the environmental management practices and procedures to be implemented for the establishment of the ancillary facilities. The Site Establishment Management Plan must be prepared in consultation with the Relevant Council(s) and relevant government agencies. The Site Establishment Management Plan must include:</p> <ul style="list-style-type: none"> (a) a description of activities to be undertaken during establishment of the ancillary facility (including scheduling and duration of work to be undertaken at the site); (b) figures illustrating the proposed operational site layout and the location of the closest sensitive land user(s); (c) a program for ongoing analysis of the key environmental risks arising from the site establishment activities described in subsection (a) of this condition, including an initial risk assessment undertaken before the commencement of site establishment work; (d) details of how the site establishment activities described in subsection (a) of this condition will be carried out to: <ul style="list-style-type: none"> (i) meet the performance outcomes stated in the documents listed in Condition A1 of this schedule, and (ii) manage the risks identified in the risk analysis undertaken in subsection (c) of this condition; and (e) a program for monitoring the performance outcomes, including a program for construction noise monitoring, where appropriate or required. <p>Nothing in this condition prevents the Proponent from preparing individual Site Establishment Management Plans for each ancillary facility.</p>	Full Compliance
MCoA	Site Establishment Work	A18	<p>With the exception of a Site Establishment Management Plan relating to the Silverwater ancillary facility referred to in Condition A19 below and any other Site Establishment Management Plan expressly nominated by the Planning Secretary to be endorsed by the ER, all Site Establishment Management Plans must be</p>	Full Compliance, except Sydney Metro would make all submissions to the Planning Secretary

			submitted to the Planning Secretary for approval one (1) month before the establishment of any ancillary facilities.	
MCoA	Site Establishment Work	A19	<p>A Site Establishment Management Plan relating to the Silverwater ancillary facility and any other Site Establishment Management Plan expressly nominated by the Planning Secretary must be submitted to the ER for endorsement one (1) month before the establishment of that ancillary facility or as otherwise agreed with the ER.</p>	Full Compliance
MCoA	Site Establishment Work	A20	<p>The use of an ancillary facility for construction must not commence until the CEMP required by Condition C1 of this schedule, relevant CEMP Sub-plans required by Condition C5 of this schedule and relevant Construction Monitoring Programs required by Condition C14 of this schedule have been approved by the Planning Secretary or endorsed by the ER (whichever is applicable).</p> <p>Note: This condition does not apply to Condition A21 of this schedule or where the use of an ancillary facility is Low Impact Work or for Low Impact Work.</p>	Full Compliance
MCoA	Site Establishment Work	A21	<p>Lunch sheds, office sheds, portable toilet facilities, and the like, can be established and used where they have been assessed in the documents listed in Condition A1 of this schedule or satisfy the following criteria:</p> <p>(a) are located within or adjacent to the Construction Boundary; and</p> <p>(b) have been assessed by the ER to have -</p> <p class="list-item-l1">(i) minimal amenity impacts to surrounding residences and businesses, after consideration of matters such as compliance with the ICNG, traffic and access impacts, dust and odour impacts, and visual (including light spill) impacts, and</p> <p class="list-item-l1">(ii) minimal environmental impact with respect to waste management and flooding, and</p> <p class="list-item-l1">(iii) no impacts on biodiversity, soil and water, and Heritage items beyond those already approved under other conditions of this approval.</p>	Full Compliance

MCoA	Site Establishment Work	A22	<p>Boundary screening must be erected around ancillary facilities that are adjacent to sensitive land user(s) for the duration that the ancillary facility is in use unless otherwise agreed with relevant affected residents, business operators or landowners.</p>	<p>Full Compliance, except that Sydney Metro will provide graphical designs for hoarding to the Principal Contractor.</p> <p>The Principal Contractor will provide Sydney Metro any information it needs to provide the graphical designs.</p>
MCoA	Site Establishment Work	A23	<p>Boundary screening required under Condition A22 of this schedule must minimise visual impacts on adjacent sensitive land user(s).</p>	<p>Full Compliance, except that Sydney Metro will provide graphical designs for Hording to the Principal Contractor.</p> <p>The Principal Contractor will provide Sydney Metro any information it needs to provide the graphical designs.</p>
MCoA	Independent Appointments	A24	<p>All Independent Appointments required by the conditions of this approval must hold current membership of a relevant professional body, unless otherwise agreed by the Planning Secretary.</p>	Not Applicable
MCoA	Independent Appointments	A25	<p>The Planning Secretary may at any time commission an audit of how an Independent Appointment has exercised their functions. The Proponent must:</p> <ul style="list-style-type: none"> (a) facilitate and assist the Planning Secretary in any such audit; and (b) make it a term of their engagement of an Independent Appointment that the Independent Appointment facilitate and assist the Planning Secretary in any such audit. 	Not Applicable
MCoA	Independent Appointments	A26	<p>Upon completion of an audit under Conditions A25 above, the Planning Secretary may withdraw its approval of an Independent Appointment should they consider the Independent Appointment has not exercised their functions in accordance with this approval.</p>	Not Applicable

			Note: Conditions A25 and A26 of this schedule apply to all Independent Appointments including the ER, AA and Independent Auditor.	
MCoA	Environment Representative	A27	Work must not commence until an Environmental Representative (ER) has been nominated by the Proponent and approved by the Planning Secretary.	Full Compliance
MCoA	Environment Representative	A28	The proposed ER must be a suitably qualified and experienced person(s) who was not involved in the preparation of the documents listed in Condition A1 of this schedule, and is independent from the design and construction personnel for the CSSI and those involved in the delivery of it.	Not Applicable
MCoA	Environment Representative	A29	<p>The Proponent may engage more than one ER for Stage 1 of the CSSI, in which case the functions to be exercised by an ER under the conditions of this approval may be carried out by any ER that is approved by the Planning Secretary for the purposes of Stage 1 of the CSSI. The ER must meet the requirements of the Department's <i>Environmental Representative Protocol</i> (DPE, 2018).</p> <p>The appointment of the ER must have regard to the Department's guideline <i>Seeking approval from the Department for the appointment of independent experts</i> (DPIE, 2020).</p>	Not Applicable

MCoA	Environment Representative	A30	<p>For the duration of the work or as agreed with the Planning Secretary, the approved ER must:</p> <ul style="list-style-type: none"> (a) receive and respond to communication from the Planning Secretary in relation to the environmental performance of Stage 1 of the CSSI; (b) consider and inform the Planning Secretary on matters specified in the conditions of this approval; (c) consider and recommend to the Proponent any improvements that may be made to work practices to avoid or minimise adverse impact to the environment and to the community; (d) review documents identified in Conditions A10, A17, A19, C1, C5 and C14 of this schedule and any other documents that are identified by the Planning Secretary, to ensure they are consistent with requirements in or under this approval and if so: <ul style="list-style-type: none"> (i) endorse the documents before submission of such documents to the Planning Secretary (if those documents are required to be approved by the Planning Secretary); or (ii) endorse the documents before the implementation of such documents (if those documents are only required to be submitted to the Planning Secretary / Department for information or are not required to be submitted to the Planning Secretary / Department); (e) for documents that are required to be submitted to the Planning Secretary / Department for information under (d)(ii) above, the documents must be submitted as soon as practicable to the Planning Secretary / Department after endorsement by the ER, unless otherwise agreed by the Planning Secretary; (f) regularly monitor the implementation of the documents listed in Conditions A10, A17, A19, C1, C5 and C14 of this schedule to ensure implementation is being carried out in accordance with the document and the conditions of this approval; (g) as may be requested by the Planning Secretary, help plan or attend audits of the development commissioned by the Department including scoping audits, programming audits, briefings and site visits, but not independent environmental audits required under Condition A39 of this schedule; (h) as may be requested by the Planning Secretary, assist in the resolution of community complaints received directly by the Department; (i) consider or assess the impacts of minor ancillary facilities 	Not Applicable
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			<p>comprising lunch sheds, office sheds and portable toilet facilities as required by Condition A21 of this schedule; and</p> <p>(j) consider any minor amendments to be made to the Site Establishment Management Plan, CEMP, CEMP Sub-plans and construction monitoring programs without increasing impacts to nearby sensitive receivers, and are consistent with the conditions of this approval and the Site Establishment Management Plan, CEMP, CEMP Sub-plans and construction monitoring programs approved by the Planning Secretary and, if satisfied such amendment is necessary, approve the amendment. This does not include any modifications to the conditions of this approval;</p> <p>(k) prepare and submit to the Planning Secretary and other relevant regulatory agencies, for information, an Environmental Representative Monthly Report providing the information set out in the Environmental Representative Protocol under the heading "Environmental Representative Monthly Reports". The Environmental Representative Monthly Report must be submitted within seven (7) days following the end of each month for the duration of the ER's engagement for Stage 1 of the CSSI, or as otherwise agreed by the Planning Secretary; and</p> <p>(l) assess the impacts of activities as required by the Low Impact Work definition.</p> <p>With respect to (d) above, the ER is not required to endorse the specialist content in documents requiring specialist review and / or endorsement.</p>	
MCoA	Environment Representative	A31	<p>The Proponent must provide the ER with all documentation requested by the ER in order for the ER to perform their functions specified in Condition A30 of this schedule (including preparation of the ER monthly report), as well as:</p> <p>(a) the Complaints Register (to be provided on a weekly basis or as requested); and</p> <p>(b) a copy of any assessment carried out by the Proponent of whether proposed work is consistent with the approval (which must be provided to the ER before the commencement of the subject work).</p>	<p>Sydney Metro would provide the ER with the Complaints Register and any consistency assessments Sydney Metro undertakes.</p>

MCoA	Acoustics Advisor	A32	A suitably qualified and experienced Acoustics Advisor(s) (AA) in noise and vibration management, who is independent of the design and construction personnel, must be nominated by the Proponent and engaged for the duration of work (as required by Condition A35 of this schedule) and for no less than six (6) months following completion of construction of Stage 1 of the CSSI.	Not Applicable
MCoA	Acoustics Advisor	A33	Work must not commence until an AA has been nominated by the Proponent and approved by the Planning Secretary.	Full Compliance
MCoA	Acoustics Advisor	A34	The Proponent must cooperate with the AA by: (a) providing access to noise and vibration monitoring activities as they take place; (b) providing access to the Complaints Register if requested; (c) providing for review of noise and vibration documents required to be prepared under the conditions of this approval; and (d) considering any recommendations to improve practices and demonstrating, to the satisfaction of the AA, why any recommendation is not adopted.	Full Compliance
MCoA	Acoustics Advisor	A35	The Proponent may nominate additional suitably qualified and experienced persons to assist the lead AA for the Planning Secretary's approval.	Not Applicable
MCoA	Acoustics Advisor	A36	The approved AA must: (a) receive and respond to communication from the Planning Secretary in relation to the performance of Stage 1 of the CSSI in relation to noise and vibration; (b) consider and inform the Planning Secretary on matters specified in the conditions of this approval relating to noise and vibration; (c) consider and recommend, to the Proponent, improvements that may be made to avoid or minimise adverse noise and vibration impacts; (d) review all proposed night-time works (with the exception of low risk activities) to determine if sleep disturbance would occur and recommend measures to avoid sleep disturbance or appropriate additional alternative mitigation measures; (e) review all noise and vibration documents required to be prepared under the conditions of this approval and, should they be consistent with the conditions of this approval, endorse them before submission to the Planning Secretary (if required to be submitted to	The Principal Contractor must provide all information and documentation required by the AA to meet their obligations under this condition.

		<p>the Planning Secretary) or before implementation (if not required to be submitted to the Planning Secretary);</p> <p>(f) regularly monitor the implementation of all noise and vibration documents required to be prepared under the conditions of this approval to ensure implementation is in accordance with what is stated in the document and the conditions of this approval;</p> <p>(g) review the Proponent's notification of incidents in accordance with Condition A43 of this schedule;</p> <p>(h) in conjunction with the ER (where required), the AA must:</p> <p>(i) as may be requested by the Planning Secretary or Community Complaints Mediator (required by Condition B8 of this schedule), help plan, attend or undertake audits of noise and vibration management of Stage 1 of the CSSI including briefings, and site visits,</p> <p>(ii) in the event that conflict arises between the Proponent and the community in relation to the noise and vibration performance of Stage 1 of the CSSI, follow the procedure in the Overarching Community Communication Strategy referenced in Condition C-B1 of this schedule to attempt to resolve the conflict, and if it cannot be resolved, notify the Planning Secretary,</p> <p>(iii) if requested by the ER, consider relevant minor amendments made to the Site Establishment Management Plan, CEMP, relevant sub-plans and noise and vibration monitoring programs that require updating or are of an administrative nature, and are consistent with the conditions of this approval and the management plans and monitoring programs approved by the Planning Secretary and, if satisfied such amendment is necessary, endorse the amendment, (this does not include any modifications to the conditions of this approval),</p> <p>(iv) if requested by the ER, review the noise impacts of minor ancillary facilities, and</p> <p>(v) prepare and submit to the Planning Secretary and other relevant regulatory agencies, for information, a Monthly Noise and Vibration Report detailing the AA's actions and decisions on matters for which the AA was responsible in the preceding month. The Monthly Noise and Vibration Report must be submitted within seven (7) days following the end of each month for the duration of the AA's engagement for Stage 1 of the CSSI, or as otherwise agreed by the Planning Secretary.</p>	
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MCoA	Notification of Commencement	A37	The Department must be notified in writing of the date of commencement of construction before the commencement of construction.	Not Applicable
MCoA	Notification of Commencement	A38	If construction of Stage 1 of the CSSI is to be phased, the Department must be notified in writing before the commencement of each phase, of the date of the commencement of that phase.	Not Applicable
MCoA	Independent Environmental Audit	A39	Independent Audits of Stage 1 of the CSSI must be conducted and carried out in accordance with the <i>Independent Audit Post Approval Requirements</i> (DPIE, 2020).	Not Applicable
MCoA	Independent Environmental Audit	A40	Proposed independent auditors must be approved by the Planning Secretary before the commencement of an Independent Audit .	Not Applicable
MCoA	Independent Environmental Audit	A41	The Planning Secretary may require the initial and subsequent Independent Audits to be undertaken at different times to those specified in the <i>Independent Audit Post Approval Requirements</i> (DPIE, 2020), upon giving at least four (4) weeks' notice (or timing as stipulated by the Planning Secretary) to the Proponent of the date upon which the audit must be commenced.	Not Applicable
MCoA	Independent Environmental Audit	A42	Independent Audit Reports and the Proponent's response to audit findings must be submitted to the Planning Secretary within two (2) months of undertaking the independent audit site inspection as outlined in the <i>Independent Audit Post Approval Requirements</i> (DPIE, 2020), unless otherwise agreed by the Planning Secretary.	Full Compliance except that Sydney Metro would make all submissions to the Planning Secretary
MCoA	Incident and Non-compliance Notification and Reporting	A43	The Planning Secretary must be notified via phone or in writing via the Major Projects website immediately after the Proponent becomes aware of an incident. Any notification via phone must be followed up by a notification in writing via the Major Projects website within 24 hours of the initial phone call. The written notification must identify the CSSI (including the application number and the name of the CSSI if it has one) and set out the location and general nature of the incident.	The Principal Contractor must provide all information and documentation required by Sydney Metro to comply with this condition.
MCoA	Incident and Non-compliance Notification and Reporting	A44	Subsequent notification must be given and reports submitted in accordance with the requirements set out in Appendix A .	The Principal Contractor must provide all information and documentation required by Sydney Metro to comply with this condition.

MCoA	Incident and Non-compliance Notification and Reporting	A45	The Planning Secretary must be notified in writing via the Major Projects website within seven (7) days after the Proponent becomes aware of any non-compliance with the conditions of this approval.	The Principal Contractor must provide all information and documentation required by Sydney Metro to comply with this condition.
MCoA	Incident and Non-compliance Notification and Reporting	A46	<p>A non-compliance notification must identify the CSSI (including the application number for it), set out the condition of approval that the development is non-compliant with, the way in which it does not comply and the reasons for the non-compliance (if known) and what actions have been, or will be undertaken to address the non-compliance.</p> <p>Note: A non-compliance which has been notified as an incident does not need to also be notified as a non-compliance.</p>	The Principal Contractor must provide all information and documentation required by Sydney Metro to comply with this condition.
MCoA	Identification of workforce	A47	All Heavy Vehicles used for spoil haulage must be clearly marked on the sides and rear with the project name and application number to enable immediate identification by a person viewing the Heavy Vehicle standing 20 metres away.	Full Compliance
MCoA	Identification of workforce	A48	The CSSI name, application number, telephone number, postal address and email address required under Condition B3 of this schedule must be available on site boundary fencing / hoarding at each ancillary facility before the commencement of construction. This information must also be provided on the website required under Condition B11 of this schedule.	Full Compliance
MCoA	Community Information, Consultation and Involvement	B1	The Overarching Community Communication Strategy as provided in the documents listed in Condition A1 of this schedule must be implemented for the duration of the work.	The Principal Contractor must meet any obligation required of them by the OCCS.
MCoA	Complaints Management System	B2	A Complaints Management System must be prepared and implemented before the commencement of any work and maintained for the duration of construction and for a minimum for 12 months following completion of construction of Stage 1 of the CSSI.	The Principal Contractor must participate in the implementation of the Complaints Management System and provide Sydney Metro with all information it requires to comply with Condition B2.

MCoA	Complaints Management System	B3	<p>The following information must be available to facilitate community enquiries and manage complaints before the commencement of work and for 12 months following the completion of construction:</p> <ul style="list-style-type: none"> (a) a 24-hour telephone number for the registration of complaints and enquiries about the CSSI; (b) a postal address to which written complaints and enquiries may be sent; (c) an email address to which electronic complaints and enquiries may be transmitted; and (d) a mediation system for complaints unable to be resolved. <p>This information must be accessible to all in the community regardless of age, ethnicity, disability or literacy level.</p>	<p>The Principal Contractor must participate in the implementation of the Complaints Management System and provide Sydney Metro with all information it requires to comply with Condition B3.</p>
MCoA	Complaints Management System	B4	<p>A Complaints Register must be maintained recording information on all complaints received about the CSSI during the carrying out of any work and for a minimum of 12 months following the completion of construction. The Complaints Register must record the:</p> <ul style="list-style-type: none"> (a) number of complaints received; (b) date and time of the complaint; (c) number of people in the household affected in relation to a complaint, if relevant; (d) method by which the complaint was made; (e) any personal details of the complainant which were provided by the complainant or, if no such details were provided, a note to that effect; (f) issue of the complaint; (g) means by which the complaint was addressed and whether resolution was reached, with or without mediation; and (h) if no action was taken, the reason(s) why no action was taken. 	<p>The Principal Contractor must participate in the implementation of the Complaints Management System and provide Sydney Metro with all information and documentation it requires to comply with this condition.</p>

MCoA	Complaints Management System	B5	<p>Complainants must be advised of the following information before, or as soon as practicable after, providing personal information:</p> <ul style="list-style-type: none"> (a) the Complaints Register may be forwarded to government agencies, including the Department (Department of Planning Industry and Environment, 4 Parramatta Square, 12 Darcy Street, Parramatta NSW 2150), to allow them to undertake their regulatory duties; (b) by providing personal information, the complainant authorises the Proponent to provide that information to government agencies; (c) the supply of personal information by the complainant is voluntary; and (d) the complainant has the right to contact government agencies to access personal information held about them and to correct or amend that information (Collection Statement). <p>The Collection Statement must be included on the Proponent or development website to make prospective complainants aware of their rights under the Privacy and Personal Information Protection Act 1998 (NSW). For any complaints made in person, the complainant must be made aware of the Collection Statement.</p>	<p>The Principal Contractor must participate in the implementation of the Complaints Management System and provide Sydney Metro with all information and documentation it requires to comply with this condition.</p>
MCoA	Complaints Management System	B6	<p>The Complaints Register must be provided to the Planning Secretary upon request, within the timeframe stated in the request. Note: Complainants must be advised that the Complaints Register may be forwarded to Government agencies to allow them to undertake their regulatory duties.</p>	Not Applicable
MCoA	Complaints Management System	B7	<p>A Community Complaints Mediator that is independent of the design and construction personnel must be engaged by the Proponent, upon the referral of the complaint by the ER in accordance with the Overarching Community Communication Strategy.</p>	Not Applicable
MCoA	Complaints Management System	B8	<p>The role of the Community Complaints Mediator is to provide independent mediation services for any reasonable and unresolved complaint referred by the ER where a member of the public is not satisfied by the Proponent's response. Where a Community Complaints Mediator is required, a mediator accredited under the National Mediator Accreditation System (NMAS), administered by the Mediator Standards Board must be appointed.</p>	Not Applicable

MCoA	Complaints Management System	B9	Community Complaints Mediation will: (a) review any unresolved disputes, referred by the ER in accordance with the Overarching Community Communication Strategy; (b) make recommendations to the Proponent to satisfactorily address complaints, resolve disputes or mitigate against the occurrence of future complaints or disputes.	Not Applicable
MCoA	Complaints Management System	B10	Community Complaints Mediation will not be enacted before the Complaints Management System required by Condition B2 of this schedule has been executed for a complaint and will not consider issues such as property acquisition, where other dispute processes are provided for in this approval or clear government policy and resolution processes are available, or matters which are not within the scope of this CSSI.	The Principal Contractor must participate in the implementation of the Complaints Management System and provide Sydney Metro with all information and documentation it requires to comply with this condition.
MCoA	Provision of Electronic Information	B11	A website or webpage providing information in relation to the CSSI must be established before commencement of work and maintained for the duration of construction, and for a minimum of 24 months following the completion of all phases of construction of Stage 1 of the CSSI. Up-to-date information (excluding confidential, private, commercial information or other documents as agreed to by the Planning Secretary) must be published before the relevant work commencing and maintained on the website or dedicated pages including: (a) information on the current implementation status of Stage 1 of the CSSI; (b) a copy of the documents listed in Condition A1 of this schedule, and any documentation relating to any modifications made to the CSSI or the conditions of this approval; (c) a copy of this approval in its original form, a current consolidated copy of this approval (that is, including any approved modifications to its conditions), and copies of any approval granted by the Minister to a modification of the conditions of this approval, or links to the referenced documents where available; (d) a copy of each statutory approval, licence or permit required and obtained in relation to Stage 1 of the CSSI, or where the issuing agency maintains a website of approvals, licences or permits, a link to that website;	Sydney Metro will comply with B11(a), (b) and (c) and provide a link on Sydney Metro's website to the Principal Contractors website. Any documentation, statutory approval, licence or permit required to be produced or obtained by the Principal Contractor, that is also required to be on a website under this condition, must be uploaded or linked to the Principal Contractors website.

			<p>(e) a current copy of each document required under the conditions of this approval, which must be published within one (1) week of its approval or before the commencement of any work to which they relate or before their implementation, as the case may be; and</p> <p>(f) a copy of the audit reports required under this approval. Where the information / document relates to a particular work or is required to be implemented, it must be published before the commencement of the relevant work to which it relates or before its implementation.</p> <p>All information required in this condition is to be provided on the website or webpage, and easy to navigate.</p>	
MCoA	Construction Environmental Management Plan	C1	Construction Environmental Management Plans (CEMPs) and CEMP Sub-plans must be prepared in accordance with the Construction Environmental Management Framework (CEMF) included in the documents listed in Condition A1 of this schedule to detail how the performance outcomes, commitments and mitigation measures specified in the documents listed in Condition A1 of this schedule will be implemented and achieved during construction.	Full Compliance
MCoA	Construction Environmental Management Plan	C2	With the exception of any CEMPs expressly nominated by the Planning Secretary to be endorsed by the ER , all CEMPs must be submitted to the Planning Secretary for approval.	Full Compliance except that Sydney Metro would make all submissions to the Planning Secretary
MCoA	Construction Environmental Management Plan	C3	The CEMP(s) not requiring the Planning Secretary's approval must be submitted to the ER for endorsement no later than one (1) month before the commencement of construction or where construction is phased no later than one (1) month before the commencement of that phase. That CEMP must obtain the endorsement of the ER as being consistent with the conditions of this approval and all undertakings made in the documents listed in Condition A1 of this schedule.	Full Compliance
MCoA	Construction Environmental Management Plan	C4	Any CEMP to be approved by the Planning Secretary must be endorsed by the ER and then submitted to the Planning Secretary for approval no later than one (1) month before the commencement of construction or where construction is phased no later than one (1) month before the commencement of that phase.	Full Compliance except that Sydney Metro would make all submissions to the Planning Secretary

MCoA	Construction Environmental Management Plan	C5	<p>Of the CEMP Sub-plans required under Condition C1 of this schedule, the following CEMP Sub-plans must be prepared in consultation with the relevant government agencies identified for each CEMP Sub-plan. Details of issues raised by a government agency during consultation must be included in the relevant CEMP Sub-plan, including copies of all correspondence from those government agencies as required by Condition A6 of this schedule. Where a government agency (ies) request(s) is not included, the Proponent must provide the Planning Secretary / ER (whichever is applicable) justification as to why:</p> <ul style="list-style-type: none"> (a) Noise and vibration Sub-plan; consult with SOPA (in respect of Sydney Olympic Park), Place Management NSW (in respect of The Bays) and Relevant Council(s) (b) Flora and fauna Sub-plan; consult with DPIE EES, DPI Fisheries, SOPA (in respect of Sydney Olympic Park) and Relevant Council(s) (c) Soil and water Sub-plan; consult with DPIE EES, Relevant Council(s), SOPA (in respect of Sydney Olympic Park) and Sydney Water (if Sydney Water's assets are affected) (d) Heritage (Non-Aboriginal and Aboriginal) Sub-plan; consult with Heritage NSW, SOPA (in respect of Sydney Olympic Park), Place Management NSW (in respect of The Bays) and Relevant Council(s) (e) Spoil Sub-plan; consult with Relevant Council(s) and SOPA (in respect of Sydney Olympic Park) 	Full Compliance Except in relation to C5 (c) and (e)
MCoA	Construction Environmental Management Plan	C6	<p>The CEMP Sub-plans must state how:</p> <ul style="list-style-type: none"> (a) the environmental performance outcomes identified in the documents listed in Condition A1 of this schedule will be achieved; (b) the mitigation measures identified in the documents listed in Condition A1 of this schedule will be implemented; (c) the relevant conditions of this approval will be complied with; and (d) issues requiring management during construction (including cumulative impacts), as identified through ongoing environmental risk analysis, will be managed through SMART principles. 	Full Compliance
MCoA	Construction Environmental Management Plan	C7	<p>With the exception of any CEMP Sub-plans expressly nominated by the Planning Secretary to be endorsed by the ER, all CEMP Sub-plans must be submitted to the Planning Secretary for approval.</p>	Full Compliance except that Sydney Metro would make all submissions to the Planning Secretary

MCoA	Construction Environmental Management Plan	C8	The CEMP Sub-plans not requiring the Planning Secretary's approval must obtain the endorsement of the ER as being in accordance with the conditions of approval and all relevant undertakings made in the documents listed in Condition A1 of this schedule. Any of these CEMP Sub-plans must be submitted to the ER with, or subsequent to, the submission of the CEMP but in any event, no later than one (1) month before construction or where construction is phased no later than one (1) month before the commencement of that phase.	Full Compliance
MCoA	Construction Environmental Management Plan	C9	Any of the CEMP Sub-plans to be approved by the Planning Secretary must be submitted to the Planning Secretary with, or subsequent to, the submission of the CEMP but in any event, no later than one (1) month before construction or where construction is phased no later than one (1) month before the commencement of that phase.	Full Compliance except that Sydney Metro would make all submissions to the Planning Secretary
MCoA	Construction Environmental Management Plan	C10	Construction must not commence until the CEMP and all CEMP Sub-plans have been approved by the Planning Secretary or endorsed by the ER (whichever is applicable), unless otherwise agreed by the Planning Secretary. The CEMP and CEMP Sub-plans , as approved by the Planning Secretary or endorsed by the ER (whichever is applicable), including any minor amendments approved by the ER , must be implemented for the duration of construction. Where construction of Stage 1 of the CSSI is phased, construction of a phase must not commence until the CEMP and CEMP Sub-plans for that phase have been approved by the Planning Secretary or certified by the ER upon nomination by the Planning Secretary (whichever is applicable).	Full Compliance
MCoA	Construction Environmental Management Plan	C11	In addition to the relevant requirements of the CEMF , the Flora and fauna CEMP Sub-plan must include, but not be limited to: (a) site specific mitigation measures to manage impacts (including proposed techniques, timing, frequency and responsibility of implementing); (b) measures to minimise disturbance to habitat associated with <i>Myotis macropus</i> / Southern Myotis, including demolition inspections by a suitably qualified ecologist of any vegetation to be cleared and any buildings or structures identified as potential roosting habitat for microbats that are to be demolished or refurbished; (c) measures to minimise and mitigate disturbance to mangrove	Full Compliance

			<p>forests at the Clyde Maintenance and Stabling construction site to the extent necessary; and</p> <p>(d) details for undertaking and mitigating vegetation clearance through improved environmental outcomes.</p>	
MCoA	Construction Environmental Management Plan	C12	<p>In addition to the relevant requirements of the CEMF, the Soil and Water CEMP Sub-plan must include, but not be limited to:</p> <p>(a) details of construction activities and their locations which have the potential to expose areas known to contain, or potentially contain, contaminated soils and / or materials;</p> <p>(b) measures for the handling, treatment and management of hazardous and contaminated soils and materials including measures to manage and / or minimise worker and public health and safety with regards to exposure to contamination; and</p> <p>(c) a description of how the effectiveness of the actions and measures for managing contamination impacts would be monitored during the proposed works, clearly indicating how often this monitoring would be undertaken, the locations where monitoring would take place, and how the results of the monitoring would be recorded and reported.</p>	Not Applicable

MCoA	Construction Environmental Management Plan	C13	<p>In addition to the relevant requirements of the CEMF, the Heritage CEMP Sub-plan must include, but not be limited to:</p> <ul style="list-style-type: none"> (a) be prepared in consultation with a suitably qualified and experienced heritage expert; and (b) identify exclusion zones, archival recording requirements, baseline and periodic monitoring protocols (including before and during construction); (c) identify and assess the heritage significance of the ancillary structures proposed to be demolished or significantly impacted that are within the curtilage of White Bay Power Station and other items identified as retaining ‘potential heritage significance’ in the documents listed in Condition A1 of this schedule and which will be impacted by the CSSI; (d) in association with Condition D61 of this schedule, set out the final site inspections to be conducted within three (3) months of completion of construction for the following heritage sites unless otherwise agreed by the Planning Secretary: <ul style="list-style-type: none"> (i) the Roxy Theatre (SHR I00711); (ii) White Bay Power Station (SHR I01015); (iii) the former State Abattoirs (State Environmental Planning Policy (State Significant Precincts) 2005 Item 141); and (iv) the RTA Depot facade fronting Unwin Street (Parramatta Local Environmental Plan 2011 I576); and (e) set out means of rectification of any damage by the CSSI to Heritage items (d)(i) to (d)(iv) above within six (6) months of the completion of construction at the construction site identified in the relevant Heritage CEMP Sub-plan. This rectification work must be in consultation with a suitably qualified and experienced heritage consultant to ensure the use of appropriate materials, appropriate conservation practices and in accordance with existing heritage management documents (for example, conservation management plans or strategies) to protect and conserve the heritage significance of the items. <p>The Heritage CEMP Sub-plan must include Aboriginal cultural heritage management and mitigation measures (that may include conservation, archaeological salvage excavation and community collection) based on the Aboriginal Cultural Heritage Excavation Report and continuing Aboriginal community consultation.</p>	Full Compliance except for in relation to archival recording requirements, (c.) (d) (ii), (iii)
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MCoA	Construction Monitoring Programs	C14	<p>The following Construction Monitoring Programs must be prepared in consultation with the relevant government agencies identified for each to compare actual performance of construction of Stage 1 of the CSSI against the performance predicted in the documents listed in Condition A1 of this schedule or in the CEMP:</p> <ul style="list-style-type: none"> (a) Noise and vibration Monitoring program; consult with EPA, SOPA (in respect of Sydney Olympic Park), Place Management NSW (in respect of The Bays) and Relevant Council(s) (b) Blasting Monitoring program; consult with SOPA (in respect of Sydney Olympic Park), Place Management NSW (in respect of The Bays) and Relevant Council(s) (c) Surface water quality Monitoring program; consult with DPIE Water, Relevant Council(s) and Sydney Water (if any Sydney Water assets are impacted) (d) Groundwater Monitoring program; consult with DPIE Water and SOPA (in respect of Sydney Olympic Park) <p>Note: The Blasting Construction Monitoring Program is only required to be prepared if blasting is proposed to be conducted during construction.</p>	Full Compliance only in relation to C14 (a).
MCoA	Construction Monitoring Programs	C15	<p>Each Construction Monitoring Program must provide:</p> <ul style="list-style-type: none"> (a) details of baseline data available including the period of baseline monitoring; (b) details of baseline data to be obtained and when; (c) details of all monitoring of the project to be undertaken; (d) the parameters of the project to be monitored; (e) the frequency of monitoring to be undertaken; (f) the location of monitoring; (g) the reporting of monitoring results and analysis results against relevant criteria; (h) details of the methods that will be used to analyse the monitoring data; (i) procedures to identify and implement additional mitigation measures where the results of the monitoring indicated unacceptable project impacts; (j) a consideration of SMART principles; and (k) any consultation to be undertaken in relation to the monitoring programs; and (l) any specific requirements as required by Conditions C16 to 	Full Compliance

			C17 of this schedule.	
MCoA	Construction Monitoring Programs	C16	<p>The Noise and Vibration Construction Monitoring Program and Blasting Construction Monitoring Program must include:</p> <ul style="list-style-type: none"> (a) noise and vibration monitoring determined in consultation with the AA to confirm the best-achievable construction noise and vibration levels with consideration of all reasonable and feasible mitigation and management measures that will be implemented; (b) for the purposes of (a), noise monitoring must be undertaken during the day, evening and night-time periods and within the first month of work as well as throughout the construction period and cover the range of activities being undertaken at the sites; and (c) a process to undertake real time noise and vibration monitoring. The results of the monitoring must be readily available to the construction team, the Proponent, ER and AA. The Planning Secretary and EPA must be provided with access to the results on request. 	Full Compliance except in relation to the Blasting Construction Monitoring Program.
MCoA	Construction Monitoring Programs	C17	<p>Groundwater Construction Monitoring Program must include:</p> <ul style="list-style-type: none"> (a) groundwater monitoring networks at each construction excavation site; (b) detail of the location of all monitoring bores with nested sites to monitor both shallow and deep groundwater levels and quality; (c) define the location of saltwater interception monitoring where sentinel groundwater monitoring bores will be installed between the saline sources of the estuary or river and that of the stations or shafts; (d) results from existing monitoring bores; (e) monitoring and gauging of groundwater inflow to the excavations, appropriate trigger action response plan for all predicted groundwater impacts upon each noted neighbouring groundwater system component for each excavation construction site; (f) trigger levels for groundwater quality, salinity and groundwater drawdown in monitoring bores and / or other groundwater users; (g) daily measurement of the amount of water discharged from the water treatment plants; (h) water quality testing of the water discharged from treatment plants; (i) management and mitigation measures and criteria; 	Full Compliance

			(j) groundwater inflow to the excavations to enable a full accounting of the groundwater take from the Sydney Basin Central Groundwater Source; and (k) reporting of groundwater gauging at excavations, groundwater monitoring, groundwater trigger events and action responses; and (l) methods for providing the data collected to Sydney Water where discharges are directed to their assets.	
MCoA	Construction Monitoring Programs	C18	With the exception of any Construction Monitoring Programs expressly nominated by the Planning Secretary to be endorsed by the ER , all Construction Monitoring Programs must be submitted to the Planning Secretary for approval.	Full Compliance except that Sydney Metro would make all submissions to the Planning Secretary
MCoA	Construction Monitoring Programs	C19	The Construction Monitoring Programs not requiring the Planning Secretary's approval must obtain the endorsement of the ER as being in accordance with the conditions of approval and all undertakings made in the documents listed in Condition A1 of this schedule. Any of these Construction Monitoring Programs must be submitted to the ER for endorsement at least one (1) month before the commencement of construction or where construction is phased no later than one (1) month before the commencement of that phase.	Full Compliance
MCoA	Construction Monitoring Programs	C20	Any of the Construction Monitoring Programs which require Planning Secretary approval must be endorsed by the ER and then submitted to the Planning Secretary for approval at least one (1) month before the commencement of construction or where construction is phased no later than one (1) month before the commencement of that phase.	Full Compliance except that Sydney Metro would make all submissions to the Planning Secretary
MCoA	Construction Monitoring Programs	C21	Unless otherwise agreed with the Planning Secretary, construction must not commence until the Planning Secretary has approved, or the ER has endorsed (whichever is applicable), all of the required Construction Monitoring Programs and all relevant baseline data for the specific construction activity has been collected.	Full Compliance
MCoA	Construction Monitoring Programs	C22	The Construction Monitoring Programs , as approved by the Planning Secretary or the ER has endorsed (whichever is applicable), including any minor amendments approved by the ER , must be implemented for the duration of construction and for any longer period set out in the monitoring program or specified by the Planning Secretary or the ER (whichever is applicable), whichever is the greater.	Full Compliance

MCoA	Construction Monitoring Programs	C23	<p>The results of the Construction Monitoring Programs must be submitted to the Planning Secretary, ER and relevant regulatory agencies, for information in the form of a Construction Monitoring Report at the frequency identified in the relevant Construction Monitoring Program.</p> <p>Note: Where a relevant CEMP Sub-plan exists, the relevant Construction Monitoring Program may be incorporated into that CEMP Sub-plan.</p>	Full Compliance except that Sydney Metro would make all submissions to the Planning Secretary
MCoA	Air Quality	D1	All reasonably practicable measures must be implemented to minimise the emission of dust and other air pollutants during construction.	Full Compliance
MCoA	Biodiversity and Trees	D2	The clearing of native vegetation must be minimised to the greatest extent practicable with the objective of reducing impacts to threatened ecological communities and threatened species habitat.	Full Compliance
MCoA	Biodiversity and Trees	D3	Impacts to plant community types must not exceed those identified in the documents listed in Condition A1 of this schedule, unless otherwise approved by the Planning Secretary. In requesting the Planning Secretary's approval, an assessment of the additional impact(s) to plant community types and an updated ecosystem and / or species credit requirement under Condition D4 below, if required, must be provided.	Full Compliance except Sydney Metro will undertake any consistency assessments for changes it proposes and offset any additional biodiversity impacts
MCoA	Biodiversity and Trees	D4	<p>Before any vegetation clearing or tree removal that must be offset, credits specified in Table 3 below must be purchased and retired. The retirement of credits must be carried out in accordance with the offset rules of the BC Act.</p> <p>Mangrove Forests in estuaries of the Sydney Basin Bioregion and South East Corner Bioregion (Plant Community Type 920) - Poor: 3 Ecosystem Credits</p> <p><i>Myotis macropus</i> / Southern Myotis (Fauna): 3 Species Credits for Threatened Species</p> <p>Note: Credits have been calculated using the Biodiversity Assessment Method.</p>	Full Compliance except Sydney Metro will purchase credits specified in Table 3 and retire them
MCoA	Biodiversity and Trees	D5	The requirement to retire credits in Condition D4 above may be satisfied by payment to the Biodiversity Conservation Fund of an	Not Applicable

			amount equivalent to the class and number of species credits, as calculated by the Biodiversity Offsets Payment Calculator.	
MCoA	Biodiversity and Trees	D6	The Proponent must submit evidence of the retirement of credits required by Condition D4 above to the Planning Secretary for information within one (1) month of receiving evidence of the retirement of credits and / or a certificate confirming payment under Condition D5 above before any vegetation clearing or tree removal that must be offset.	Full Compliance except Sydney Metro will provide evidence of retired credits
MCoA	Biodiversity and Trees	D7	Before the removal or clearing of any vegetation, or the demolition of structures identified as potential roosting sites for microbats at the Clyde Stabling and Maintenance Facility site commences, pre-clearing / demolition inspections for the threatened species must be undertaken. The inspections, and any subsequent relocation of fauna and associated management / offset measures, must be undertaken under the guidance of a suitably qualified and experienced ecologist. Survey and relocation methodologies and management / offset measures must be included in the Flora and fauna CEMP Sub-plan required under Condition C5 of this schedule or the relevant Site Establishment Management Plan required by Condition A17 of this schedule.	Full Compliance
MCoA	Biodiversity and Trees	D8	In the event roosting sites have been identified under Condition D7 above, bat boxes must be provided or suitable habitat built within the Clyde Stabling and Maintenance Facility site.	Full Compliance
MCoA	Biodiversity and Trees	D9	As many mature trees and as much urban canopy as practicable must be retained during construction. Canopy trimming should be considered where practicable prior to any mature tree removal.	Full Compliance

MCoA	Flooding	D10	<p>Stage 1 of the CSSI must be designed and constructed to not worsen flooding characteristics within and in the vicinity of the CSSI. Not worsen existing flooding characteristics means the following:</p> <ul style="list-style-type: none"> (a) a maximum increase in inundation time of one hour in a one (1) per cent Annual Exceedance Probability (AEP) flood event; (b) a maximum increase of 10 mm in inundation at properties where floor levels are currently exceeded in a one (1) per cent AEP flood event; (c) a maximum increase of 50 mm in inundation of land at properties where floor levels would not be exceeded in a one (1) per cent AEP flood event; and (d) no inundation of floor levels which are currently not inundated in a one (1) per cent AEP flood event. <p>Measures identified in the documents listed in Condition A1 of this schedule to not worsen flooding characteristics or measures that achieve the same outcome must be incorporated into the detailed design of Stage 1 of the CSSI. The incorporation of these measures must be reviewed and endorsed by a suitably qualified and experienced person in consultation with directly affected landowners, DPIE Water, DPI Fisheries, DPIE EES, NSW State Emergency Service (SES), SOPA (in respect of Sydney Olympic Park) and Relevant Council(s).</p>	Not Applicable
MCoA	Flooding	D11	<p>Where flooding characteristics exceed the levels identified in Condition D10 above the Proponent must undertake the following:</p> <ul style="list-style-type: none"> (a) consult with property owners for properties adversely flood affected as a result of Stage 1 of the CSSI and mitigate where necessary; and (b) consult with the NSW State Emergency Service (SES), SOPA (in respect of Sydney Olympic Park) and Relevant Council(s) regarding the management of any residual flood risk beyond the 1 per cent AEP flood event and up to the probable maximum flood. 	Not Applicable

MCoA	Flooding	D12	<p>Flood information including flood reports, models and geographic information system outputs must be provided to the Relevant Council(s), SOPA (in respect of Sydney Olympic Park), DPIE EES and the SES in order to assist in preparing relevant documents and to reflect changes in flood behaviour as a result of Stage 1 of the CSSI. The Relevant Council(s), SOPA (in respect of Sydney Olympic Park), DPIE EES and the SES must be notified in writing that the information is available no later than one (1) month following the completion of construction.</p> <p>Information requested by the Relevant Council(s), SOPA (in respect of Sydney Olympic Park), DPIE EES or the SES must be provided no later than six (6) months following the completion of construction or within another timeframe agreed with the Relevant Council(s), SOPA (in respect of Sydney Olympic Park), DPIE EES and the SES. The project flood models and data must be uploaded to the NSW Flood Data Portal and access must be provided to the Relevant Council(s), DPIE EES, SES and SOPA (in respect of Sydney Olympic Park) no later than one (1) month following the completion of construction.</p>	Not Applicable
MCoA	Heritage	D13	<p>The Proponent must not destroy, modify or otherwise physically affect any Heritage item not identified in documents referred to in Condition A1 of this schedule. Unexpected heritage finds identified by Stage 1 of the CSSI must be managed in accordance with the Unexpected Finds Protocol outlined in Conditions D31 to D33 of this schedule. Consideration of avoidance and redesign to protect state significant unexpected finds must be addressed where this condition applies.</p>	Full Compliance
MCoA	Heritage	D14	<p>Before installing protective site boundary hoarding or equipment used for vibration and noise monitoring at any Heritage item identified in the documents listed in Condition A1 of this schedule, the advice of a suitably qualified and experienced built heritage expert must be obtained and implemented to ensure any such work does not have an adverse impact on the heritage significance of the item. The installation must also consider and avoid impacts to potential historical archaeology and seek advice from the Excavation Director approved under Condition D27 below.</p>	Full compliance except Sydney Metro will engage a built Heritage Expert.

MCoA	Heritage	D15	Before commencement of any excavation at the Parramatta metro station construction site, a detailed investigation must be undertaken to precisely locate the Parramatta Convict Drain. All options available to retain the Parramatta Convict Drain <i>in situ</i> must be considered. If retention of any part of the Parramatta Convict Drain located <i>in situ</i> is not feasible, the Proponent must satisfactorily demonstrate to the Planning Secretary why its removal is appropriate. If it is not feasible to retain the Parramatta Convict Drain <i>in situ</i> , archival recording must be undertaken on the affected section of the item in accordance with Heritage Council of NSW guidelines.	Not Applicable
MCoA	Heritage	D16	During construction, the Proponent must implement protective measures to prevent adverse impacts on the heritage significance of the Victorian Regency terraced shops at 41-45 George Street, Parramatta and Kia Ora Georgian House at 64 Macquarie Street, Parramatta. Before installing such measures, the advice of a suitably qualified and experienced built heritage expert must be obtained and implemented to ensure any such work does not have an adverse impact on the heritage significance of the item. Protection measures must also consider and avoid potential impacts to significant historical archaeology and seek the advice from the Excavation Director approved under Condition D27 below.	Full compliance except Sydney Metro will engage a built Heritage Expert.
MCoA	Heritage	D17	The Roxy Theatre, White Bay Power Station, the former State Abattoirs and the former RTA Depot facade fronting Unwin Street, must not be destroyed, modified or otherwise adversely affected, except as identified in the documents listed in Condition A1 of this schedule.	Full Compliance except in relation to the White Bay Power Station, and the former State Abattiors.
MCoA	Heritage	D18	Where Heritage items, or items assessed to be of local heritage significance in the documents listed in Condition A1 of this schedule, are proposed to be fully or partially destroyed, heritage salvage must occur in consultation with a suitably qualified heritage specialist. The Proponent must develop a salvaged materials and moveable heritage register. The register must identify significant items to be salvaged. Salvage must occur where significance is retained and / or the potential for re-use, reinstatement or re-sale has been identified. The salvage from any State- listed items must be undertaken in consultation with Heritage NSW.	Not Applicable

MCoA	Heritage	D19	All reasonable steps must be taken not to harm, modify or otherwise impact Aboriginal objects except as authorised by this approval.	Not Applicable
MCoA	Heritage	D20	The Registered Aboriginal Parties (RAPs) must be kept informed about Stage 1 of the CSSI. The RAPs must continue to be provided with the opportunity to be consulted about the Aboriginal cultural heritage management requirements of Stage 1 of the CSSI.	Sydney Metro will facilitate Aboriginal Focus Groups to coordinate consultation with RAPs
MCoA	Heritage	D21	Aboriginal archaeological test excavation must be undertaken at those areas identified in Table 25 of the revised Aboriginal Cultural Heritage Assessment Report (ACHAR) prepared by Artefact Heritage and dated November 2020.	Full Compliance
MCoA	Heritage	D22	An Aboriginal Archaeological Test Excavation Methodology(s) must be prepared and appropriately integrated with the revised Archaeological Research Design and Excavation Methodology . The Aboriginal Archaeological Salvage Excavation Methodology(s) must be prepared after analysis of the test excavation results.	Full Compliance
MCoA	Heritage	D23	At the completion of Aboriginal cultural heritage test and salvage excavations, an Aboriginal Cultural Heritage Excavation Report(s) , prepared by a suitably qualified expert, must be prepared in accordance with the <i>Guide to Investigation, assessing and reporting on Aboriginal cultural heritage in NSW</i> , OEH 2011 and the <i>Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales</i> , DECCW 2010. The Aboriginal Cultural Heritage Excavation Report(s) must document the results of the archaeological test excavations and any subsequent salvage excavations. The RAPs must be given a minimum of 28 days to consider the report and provide comments before the report is finalised. The final report must be provided to Heritage NSW within 24 months of the completion of the Aboriginal archaeological excavations (both test and salvage).	Full Compliance
MCoA	Heritage	D24	Where previously unidentified Aboriginal objects are discovered, all work must immediately stop in the vicinity of the affected area and a suitably qualified and experienced Aboriginal heritage expert must be contacted to provide specialist heritage advice, before construction recommences. The measures to consider and manage this process must be specified in the Heritage CEMP Sub-plan required by Condition C5 of this schedule and, where relevant,	Full Compliance

			include registration in the Aboriginal Heritage Information Management System (AHIMS).	
MCoA	Heritage	D25	<p>Before the commencement of any work at Parramatta and The Bays metro station construction sites, a revised Archaeological Research Design and Excavation Methodology(s) must be prepared in accordance with Heritage Council of NSW guidelines and with reference to the detailed design of Stage 1 construction of the CSSI to guide archaeological excavation. The revised Archaeological Research Design and Excavation Methodology(s) must be prepared by the Excavation Director (approved under Condition D27 below) and must include:</p> <ul style="list-style-type: none"> (a) site specific research for the Parramatta and The Bays metro station construction sites which is conducted by a professional historian to clearly articulate the historical development of the allotments to assist with the reassessment of potential and significance; (b) comparative analysis from archaeological investigations in Parramatta (including theses, publications and grey literature reports); (c) preparation of research questions based on the additional site-specific research required by this condition, and relevant research agendas from previously excavated early historical occupation in Parramatta including recovered artefact assemblages; and (d) a reconsideration of archaeological methods to manage the sites based on this additional assessment. <p>The revised Archaeological Research Design and Excavation Methodology(s) must apply to both Parramatta and The Bays metro station construction sites and be prepared in consultation with Heritage NSW and Place Management NSW (in respect of The Bays) and submitted to the Planning Secretary for approval.</p> <p>The revised Archaeological Research Design and Excavation Methodology(s) must be implemented throughout the archaeological excavation programs.</p> <p>Note: Nothing in these conditions prevents the Archaeological Research Design and Excavation Methodology to be separate</p>	Full Compliance except Sydney Metro will prepare the revised Archaeological Research Design and Excavation Methodology(s)

			procedures.	
MCoA	Heritage	D26	The revised Archaeological Research Design and Excavation Methodology(s) must include provision for early physical investigation of areas of impact identified as likely to contain State significant archaeology or subterranean Heritage items in the research design to inform excavation in these areas. This must include the Parramatta and The Bays metro station sites, including Parramatta Convict Drain, Parramatta Sand Body, White Bay Power Station (inlet) Canal and Beattie Street Stormwater Channel.	Not Applicable
MCoA	Heritage	D27	Before commencement of archaeological excavation, the Proponent must nominate a suitably qualified Excavation Director , who complies with Heritage Council of NSW's <i>Criteria for Assessment of Excavation Director</i> (September 2019), to oversee and advise on matters associated with historical archaeology for the approval of the Planning Secretary, in consultation with Heritage NSW. The Excavation Director must be present to oversee excavation, advise on archaeological issues, advise on the duration and extent of oversight required during archaeological excavations consistent with the approved Archaeological Research Design and Excavation Methodology(s) required under Condition D25 of this schedule. Aboriginal archaeological excavations must be conducted by a suitably qualified person in accordance with the requirements of the <i>Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales</i> (DECCW 2010). More than one Excavation Director may be engaged for Stage 1 of the CSSI to exercise the functions required under the conditions of this approval.	Full Compliance except that Sydney Metro would make all submissions to the Planning Secretary and engage an Excavation Director.
MCoA	Heritage	D28	Following completion of archaeological excavation programs, a Final Excavation Report and an Aboriginal Cultural Heritage Excavation Report must be prepared that includes further detailed and site-specific historical research undertaken to enhance the final reporting, and results of archaeological excavations. The report must include details of any significant artefacts recovered (salvaged), where they are located and details of their ongoing conservation. The Final Excavation Report must document significant results and artefacts which may be re-used in future stages of the CSSI. The Final Excavation Report must be prepared in accordance with guidelines and standards required by	Not Applicable

			Heritage Council of NSW.	
MCoA	Heritage	D29	<p>The Final Excavation Report and Aboriginal Cultural Heritage Excavation Report must be submitted to the Planning Secretary, Heritage NSW and the Relevant Council for information no later than 24 months after the completion of the archaeological excavation.</p>	Not Applicable
MCoA	Heritage	D30	<p>In the event the CSSI salvages state significant historical archaeology associated with early convict occupation at the Parramatta metro station construction site for which retention and future conservation is not possible:</p> <p>(a) the key findings of the archaeological investigations must be documented which explain their significance within the context of Parramatta and NSW no later than two (2) years after the completion of the archaeological excavations; and</p> <p>(b) provide for the curation, display and public access of artefacts, site records and final reports.</p> <p>Note: In reference to (b) above, this may involve partnerships with museums, local heritage centres and/or universities.</p>	Not Applicable
MCoA	Heritage	D31	<p>An Unexpected Heritage Finds and Human Remains Procedure must be prepared to manage unexpected heritage finds (heritage items and values) in accordance with any guidelines and standards prepared by the Heritage Council of NSW or Heritage NSW.</p>	Full Compliance
MCoA	Heritage	D32	<p>The Unexpected Heritage Finds and Human Remains Procedure must be prepared by a suitably qualified and experienced heritage specialist in consultation with the Heritage Council of NSW (with respect to non-Aboriginal cultural heritage) and in relation to Aboriginal cultural heritage, in accordance with the <i>Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales</i> (DECCW 2010) and submitted to the Planning Secretary for information no later than one (1) month before the commencement of construction.</p>	Full Compliance

MCoA	Heritage	D33	<p>The Unexpected Heritage Finds and Human Remains Procedure, as submitted to the Planning Secretary, must be implemented for the duration of construction.</p> <p>Note: Human remains that are found unexpectedly during the carrying out of work may be under the jurisdiction of the NSW State Coroner and must be reported to the NSW Police immediately. Management of human remains in NSW is subject to requirements set out in the Public Health Act 2010 (NSW) and Public Health Regulation 2012 (NSW). Nothing in these conditions prevents separate procedures for the Unexpected Heritage Finds and Human Remains Procedure.</p>	Full Compliance
MCoA	Noise and Vibration	D34	<p>A detailed land use survey must be undertaken to confirm sensitive receivers (including critical working areas such as operating theatres and precision laboratories) potentially exposed to construction noise and vibration and construction ground-borne noise. The survey may be undertaken on a progressive basis but must be undertaken in any one area before the commencement of work which generates construction noise, vibration or ground-borne noise in that area. The results of the survey must be included in the Noise and Vibration CEMP Sub-plan required under Condition C5 of this schedule.</p>	Full Compliance
MCoA	Noise and Vibration	D35	<p>Work must only be undertaken during the following hours:</p> <p>(a) 7:00am to 6:00pm Mondays to Fridays, inclusive; (b) 8:00am to 6:00pm Saturdays; and (c) at no time on Sundays or public holidays.</p>	Full Compliance
MCoA	Noise and Vibration	D36	<p>Except as permitted by an EPL, highly noise intensive work that results in an exceedance of the applicable NML at the same receiver must only be undertaken:</p> <p>(a) between the hours of 8:00 am to 6:00 pm Monday to Friday; (b) between the hours of 8:00 am to 1:00 pm Saturday; and (c) if continuously, then not exceeding three (3) hours, with a minimum cessation of work of not less than one (1) hour.</p> <p>For the purposes of this condition, 'continuously' includes any period during which there is less than one (1) hour between ceasing and recommencing any of the work.</p>	Full Compliance

MCoA	Noise and Vibration	D37	<p>Notwithstanding Conditions D35 and D36 of this schedule work may be undertaken outside the hours specified in the following circumstances:</p> <p>(a) Safety and Emergencies, including:</p> <ul style="list-style-type: none"> (i) for the delivery of materials required by the NSW Police Force or other authority for safety reasons; or (ii) where it is required in an emergency to avoid injury or the loss of life, to avoid damage or loss of property or to prevent environmental harm. <p>On becoming aware of the need for emergency work in accordance with (a)(ii) above, the AA, the ER, the Planning Secretary and the EPA must be notified of the reasons for such work. The Proponent must use best endeavours to notify as soon as practicable all noise and/or vibration affected sensitive land user(s) of the likely impact and duration of those work.</p> <p>(b) Low impact, including:</p> <ul style="list-style-type: none"> (i) construction that causes LAeq(15 minute) noise levels: <ul style="list-style-type: none"> · no more than 5 dB(A) above the rating background level at any residence in accordance with the ICNG, and · no more than the 'Noise affected' NMLs specified in Table 3 of the ICNG at other sensitive land user(s); and (ii) construction that causes LAFmax(15 minute) noise levels no more than 15 dB(A) above the rating background level at any residence; or (iii) construction that causes: <ul style="list-style-type: none"> · continuous or impulsive vibration values, measured at the most affected residence are no more than the preferred values for human exposure to vibration, specified in Table 2.2 of Assessing Vibration: a technical guideline (DEC, 2006), or · intermittent vibration values measured at the most affected residence are no more than the preferred values for human exposure to vibration, specified in Table 2.4 of Assessing Vibration: a technical guideline (DEC, 2006). <p>(c) By Approval, including:</p> <ul style="list-style-type: none"> (i) where different construction hours are permitted or required under an EPL in force in respect of the CSSI; or (ii) works which are not subject to an EPL that are approved under an Out-of-Hours Work Protocol as required by Condition D38 of this schedule; or 	Full Compliance
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		<p>(iii) negotiated agreements with directly affected residents and sensitive land user(s).</p> <p>(d) By Prescribed Activity, including:</p> <ul style="list-style-type: none"> (i) tunnelling (excluding cut and cover tunnelling and surface works) are permitted 24 hours a day, seven days a week; or (ii) concrete batching at the Clyde construction site is permitted 24 hours a day, seven days a week; or (iii) delivery of material that is required to be delivered outside of standard construction hours in Condition D35 of this schedule to directly support tunnelling activities, except between the hours 10:00 pm and 7:00 am to / from the Five Dock and Westmead construction sites and to / from Burwood North construction site using any roads / streets other than directly from Parramatta Road; or (iv) haulage of spoil except between the hours of 10:00 pm and 7:00 am to / from the Five Dock and Westmead construction sites and to / from Burwood North construction site using any roads / streets other than directly from Parramatta Road; or (v) work within an acoustic shed where there is no exceedance of noise levels under Low impact circumstances identified in (b) above, unless otherwise agreed by the Planning Secretary. <p>Note: Tunnelling does not include station box excavation.</p>	
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MCoA	Noise and Vibration	D38	<p>An Out-of-Hours Work Protocol must be prepared to identify a process for the consideration, management and approval of work which are outside the hours defined in Conditions D35 and D36 of this schedule. The Protocol must be approved by the Planning Secretary before commencement of the out-of-hours work. The Protocol must be prepared in consultation with the ER, AA and EPA. The Protocol must provide:</p> <ul style="list-style-type: none"> (a) identification of low and high-risk activities and an approval process that considers the risk of activities, proposed mitigation, management, and coordination, including where: <ul style="list-style-type: none"> (i) the ER and AA review all proposed out-of-hours activities and confirm their risk levels; (ii) low risk activities can be approved by the ER in consultation with the AA; and (iii) high risk activities that are approved by the Planning Secretary; (b) a process for the consideration of out-of-hours work against the relevant NML and vibration criteria; (c) a process for selecting and implementing mitigation measures for residual impacts in consultation with the community at each affected location, including respite periods consistent with the requirements of Condition D50 of this schedule. The measures must take into account the predicted noise levels and the likely frequency and duration of the out-of-hours works that sensitive land user(s) would be exposed to, including the number of noise awakening events; (d) procedures to facilitate the coordination of out-of-hours work including those approved by an EPL or undertaken by a third party, to ensure appropriate respite is provided; and (e) notification arrangements for affected receivers for all approved out-of-hours works and notification to the Planning Secretary of approved low risk out-of-hours works. <p>This condition does not apply if the requirements of Condition D37(b) of this schedule are met.</p> <p>Note: Out-of-hours work is any work that occurs outside the construction hours identified in Condition D35 and D36 of this schedule.</p>	Full Compliance except that Sydney Metro would make all submissions to the Planning Secretary
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MCoA	Noise and Vibration	D39	<p>All reasonable and feasible mitigation measures must be implemented with the aim of achieving the following construction noise management levels and vibration criteria:</p> <ul style="list-style-type: none"> (a) construction 'Noise affected' noise management levels established using the Interim Construction Noise Guideline (DECC, 2009); (b) vibration criteria established using the Assessing vibration: a technical guideline (DEC, 2006) (for human exposure); (c) Australian Standard AS 2187.2 - 2006 "Explosives - Storage and Use - Use of Explosives" (for human exposure); (d) BS 7385 Part 2-1993 "Evaluation and measurement for vibration in buildings Part 2" as they are "applicable to Australian conditions"; and (e) the vibration limits set out in the German Standard DIN 4150-3: Structural Vibration- effects of vibration on structures (for structural damage for structurally unsound heritage items). <p>Any work identified as exceeding the noise management levels and / or vibration criteria must be managed in accordance with the Noise and Vibration CEMP Sub-plan.</p> <p>Note: The ICNG identifies 'particularly annoying' activities that require the addition of 5 dB(A) to the predicted level before comparing to the construction Noise Management Level.</p>	Full Compliance
MCoA	Noise and Vibration	D40	<p>All reasonable and feasible mitigation measures must be applied when the following residential ground-borne noise levels are exceeded:</p> <ul style="list-style-type: none"> (a) evening (6:00 pm to 10:00 pm) — internal LAeq(15 minute): 40 dB(A); and (b) night (10:00 pm to 7:00 am) — internal LAeq(15 minute): 35 dB(A). <p>The mitigation measures must be outlined in the Noise and Vibration CEMP Sub-plan, including in any Out-of-Hours Work Protocol, required by Condition D38 of this schedule.</p>	Full Compliance
MCoA	Noise and Vibration	D41	<p>Noise generating work in the vicinity of potentially-affected community, religious, educational institutions and noise and vibration-sensitive businesses and critical working areas (such as theatres, laboratories and operating theatres) resulting in noise</p>	Full Compliance

			levels above the NMLs must not be timetabled within sensitive periods, unless other reasonable arrangements with the affected institutions are made at no cost to the affected institution.	
MCoA	Noise and Vibration	D42	<p>Industry best practice construction methods must be implemented where reasonably practicable to ensure that noise levels are minimised around sensitive land user(s). Practices must include, but are not limited to:</p> <ul style="list-style-type: none"> (a) use of regularly serviced low sound power equipment; (b) temporary noise barriers (including the arrangement of plant and equipment) around noisy equipment and activities such as rock hammering and concrete cutting; and (c) use of alternative construction and demolition techniques. 	Full Compliance
MCoA	Noise and Vibration	D43	<p>Detailed Noise and Vibration Impact Statements (DNVIS) must be prepared for any work that may exceed the NMLs, vibration criteria and / or ground-borne noise levels specified in Conditions D39 and D40 of this schedule at any residence outside construction hours identified in Condition D35 of this schedule, or where receivers will be highly noise affected. The DNVIS must include specific mitigation measures identified through consultation with affected sensitive land user(s) and the mitigation measures must be implemented for the duration of the works. A copy of the DNVIS must be provided to the AA and ER before the commencement of the associated works. The Planning Secretary and the EPA may request a copy (ies) of the DNVIS.</p>	Full Compliance
MCoA	Noise and Vibration	D44	<p>DNVIS must be prepared for each construction site before construction noise and vibration impacts commence and include specific mitigation measures identified through consultation with affected sensitive land users.</p>	Full Compliance
MCoA	Noise and Vibration	D45	<p>Owners and occupiers of properties at risk of exceeding the screening criteria for cosmetic damage must be notified before works that generate vibration commences in the vicinity of those properties. If the potential exceedance is to occur more than once or extend over a period of 24 hours, owners and occupiers are to be provided a schedule of potential exceedances on a monthly basis for the duration of the potential exceedances, unless otherwise agreed by the owner and occupier. These properties must be identified and considered in the Noise and Vibration CEMP Sub-plan.</p>	Full Compliance

MCoA	Noise and Vibration	D46	Vibration testing must be conducted during vibration generating activities that have the potential to impact on Heritage items to identify minimum working distances to prevent cosmetic damage. In the event that the vibration testing and attended monitoring shows that the preferred values for vibration are likely to be exceeded, the Proponent must review the construction methodology and, if necessary, implement additional mitigation measures. Such measures must include, but not be limited to, review or modification of excavation techniques.	Full Compliance
MCoA	Noise and Vibration	D47	The Proponent must seek the advice of a heritage specialist on methods and locations for installing equipment used for vibration, movement and noise monitoring at Heritage items.	Full Compliance
MCoA	Noise and Vibration	D48	Before conducting at-property treatment at any Heritage item identified in the documents listed in Condition A1 of this schedule, the advice of a suitably qualified and experienced built heritage expert must be obtained and implemented to ensure any such work does not have an adverse impact on the heritage significance of the item.	Full compliance except Sydney Metro will engage a built Heritage Expert.
MCoA	Noise and Vibration	D49	If a Heritage item is found to be structurally unsound (following inspection) a more conservative cosmetic damage criterion of 2.5 mm/s peak component particle velocity (from DIN 4150) must be applied.	Full Compliance
MCoA	Noise and Vibration	D50	<p>All work undertaken for the delivery of Stage 1 of the CSSI, including those undertaken by third parties (such as utility relocations), must be coordinated to ensure respite periods are provided. The Proponent must:</p> <ul style="list-style-type: none"> (a) reschedule any work to provide respite to impacted noise sensitive receivers so that the respite is achieved in accordance with Condition D51 of this schedule; or (b) consider the provision of alternative respite or mitigation to impacted noise sensitive receivers; and (c) provide documentary evidence to the AA in support of any decision made by the Proponent in relation to respite or mitigation. <p>The consideration of respite must also include all other approved Critical SSI, SSI and SSD projects which may cause cumulative and / or consecutive impacts at receivers affected by the delivery of Stage 1 of the CSSI.</p>	Full Compliance

MCoA	Noise and Vibration	D51	<p>In order to undertake out-of-hours work outside the work hours specified under Condition D35 of this schedule, appropriate respite periods for the out-of-hours work must be identified in consultation with the community at each affected location on a regular basis. This consultation must include (but not be limited to) providing the community with:</p> <ul style="list-style-type: none"> (a) a progressive schedule for periods no less than three (3) months, of likely out-of-hours work; (b) a description of the potential work, location and duration of the out-of-hours work; (c) the noise characteristics and likely noise levels of the work; and (d) likely mitigation and management measures which aim to achieve the relevant NMLs under Condition D39 (including the circumstances of when respite or relocation offers will be available and details about how the affected community can access these offers). <p>The outcomes of the community consultation, the identified respite periods and the scheduling of the likely out-of-hour work must be provided to the AA, EPA and the Planning Secretary.</p> <p>Note: Respite periods can be any combination of days or hours where out-of-hours work would not be more than 5 dB(A) above the RBL at any residence.</p>	Full Compliance
MCoA	Noise and Vibration	D52	<p>Sensitive land uses located along local roads used to divert traffic from the closure of Alexandra Avenue in Westmead that will be affected by additional road traffic noise from the diverted traffic in excess of the criteria identified in the <i>NSW Road Noise Policy</i> (the RNP criteria) during construction of Stage 1 of the CSSI (the Affected Properties) are eligible to receive at-property noise mitigation treatments.</p> <p>Owners of Affected Properties must be advised of the range of noise mitigation options that can be installed at or in their property and given a choice as to which of these they agree to have installed. A copy of all noise mitigation guidelines and procedures that will be used to determine at-property treatment at each Affected Property must be provided to the property owner.</p>	Not Applicable

			At property mitigation measures and packages must be determined based on the measured exceedance levels above the RNP criteria. Road traffic noise levels must be measured before and after the altered traffic flow detour.	
MCoA	Noise and Vibration	D53	<p>Blasting associated with Stage 1 of the CSSI must only be undertaken during the following hours:</p> <ul style="list-style-type: none"> (a) 9:00am to 5:00pm, Monday to Friday, inclusive; (b) 9:00am to 1:00pm on Saturday; and (c) at no time on Sunday or public holidays; or (d) as authorised through an EPL. <p>This condition does not apply in the event of a direction from the NSW Police Force or other relevant authority for safety or emergency reasons to avoid loss of life, property loss and / or to prevent environmental harm.</p>	Not Applicable
MCoA	Noise and Vibration	D54	<p>A Blast Management Strategy must be prepared and must include:</p> <ul style="list-style-type: none"> (a) sequencing and review of trial blasting to inform blasting; (b) regularity of blasting; (c) intensity of blasting; (d) periods of relief; and (e) blasting program. 	Not Applicable
MCoA	Noise and Vibration	D55	The Blast Management Strategy must be endorsed by a suitably qualified and experienced person.	Not Applicable
MCoA	Noise and Vibration	D56	The Blast Management Strategy must be prepared in accordance with relevant guidelines in order to ensure that all blasting and associated activities are carried out so as not to generate unacceptable noise and vibration impacts or pose a significant risk to sensitive land user(s).	Not Applicable
MCoA	Noise and Vibration	D57	The Blast Management Strategy must be submitted to the Planning Secretary for information no later than one (1) month before the commencement of blasting. The Blast Management Strategy as submitted to the Planning Secretary, must be implemented for all blasting activities.	Not Applicable
MCoA	Socio-economic, Land Use and	D58	Stage 1 of the CSSI must be designed and constructed with the objective of minimising impacts to, and interference with, third party property and infrastructure, and that such infrastructure and	Full Compliance

	Property		property is protected during construction.	
MCoA	Socio-economic, Land Use and Property	D59	The utilities and services (hereafter "services") potentially affected by construction must be identified to determine requirements for diversion, protection and / or support. Alterations to services must be determined by negotiation between the Proponent and the service providers. Disruption to services resulting from construction must be avoided, wherever possible, and advised to customers where it is not possible.	Full Compliance
MCoA	Socio-economic, Land Use and Property	D60	A suitably qualified and experienced person must undertake condition surveys of all buildings, structures, utilities and the like identified in the documents listed in Condition A1 of this schedule as being at risk of damage before commencement of any work that could impact on the subject surface / subsurface structure. The results of the surveys must be documented in a Pre-construction Condition Survey Report for each item surveyed. Copies of Pre-construction Condition Survey Reports must be provided to the relevant owners of the items surveyed in the vicinity of the proposed work, and no later than one (1) month before the commencement of the work that could impact on the subject surface / subsurface structure.	Full Compliance
MCoA	Socio-economic, Land Use and Property	D61	Condition surveys of all items for which condition surveys were undertaken in accordance with Condition D60 of this schedule must be undertaken by a suitably qualified and experienced person after completion of the work identified in Condition D60 of this schedule. The results of the surveys must be documented in a Post-construction Condition Survey Report for each item surveyed. Copies of Post-construction Condition Survey Reports must be provided to the landowners of the items surveyed, and no later than three (3) months following the completion of the work that could impact on the subject surface / subsurface structure unless otherwise agreed by the Planning Secretary.	Full Compliance
MCoA	Socio-economic, Land Use and Property	D62	The Proponent, where liable, must rectify any property damage caused directly or indirectly (for example from vibration or from groundwater change) by the work at no cost to the owner. Alternatively, the Proponent may pay compensation for the property damage as agreed with the property owner. Rectification or compensation must be undertaken within 12 months of completion	Full Compliance

			of the work identified in Condition D60 of this schedule unless another timeframe is agreed with the owner of the affected surface or sub-surface structure or recommended by the IPIAP .	
MCoA	Socio-economic, Land Use and Property	D63	Appropriate equipment to monitor areas in proximity of construction sites and the tunnel route during construction must be installed with particular reference to at risk buildings, structures and utilities identified in the condition surveys required by Condition D60 of this schedule and / or geotechnical analysis as required. If monitoring during construction indicate exceedance of the vibration criteria identified in the DNVIS prepared under Condition D43 of this schedule, then all construction affecting settlement must cease immediately and must not resume until fully rectified or a revised method of construction is established that will ensure protection of affected buildings.	Full Compliance
MCoA	Socio-economic, Land Use and Property	D64	An Independent Property Impact Assessment Panel (IPIAP) must be established. The Planning Secretary must be informed of the members of the IPIAP and the IPIAP must comprise geotechnical and engineering experts independent of the design and construction team. The IPIAP will be responsible for independently verifying condition surveys undertaken under Conditions D60 and D61 of this schedule, the resolution of property damage disputes and the establishment of ongoing settlement monitoring requirements.	Not Applicable
MCoA	Socio-economic, Land Use and Property	D65	Either the affected property owner or the Proponent may refer unresolved disputes arising from potential and/or actual property impacts to the IPIAP for resolution. All costs incurred in the establishing and implementing of the panel must be borne by the Proponent regardless of which party makes a referral to the IPIAP . The findings and recommendations of the IPIAP are final and binding on the Proponent.	Full Compliance, except in relation to costs incurred in the establishment and implementation of the panel. This exclusion does not include costs as a result of findings or recommendations of the panel.
MCoA	Socio-economic, Land Use and Property	D66	Settlement must be monitored for any period beyond the minimum timeframe requirements of Condition D63 of this schedule if directed so by the IPIAP following its review of the monitoring data from the period not less than six (6) months after settlement has stabilised, consistent with Condition D63 of this schedule. The results of the monitoring must be made available to the Planning	Not Applicable

			Secretary upon request.	
MCoA	Socio-economic, Land Use and Property	D67	<p>A Community Benefit Plan(s) must be prepared, by a suitably qualified and experienced person, to guide the delivery of measures identified in the documents listed in Condition A1 of this schedule relating to social impacts and the development of community benefit initiatives. The Community Benefit Plan(s) must aim to:</p> <ul style="list-style-type: none"> (a) make a positive contribution to the potentially affected community; (b) respond to community priorities and needs; (c) create positive community or environmental outcomes; and (d) prioritise consideration of achieving outcomes for enhancing community character, community culture and the local surroundings. <p>Nothing in this condition prevents the preparation of individual Community Benefit Plans for each station precinct.</p>	Not Applicable
MCoA	Socio-economic, Land Use and Property	D68	The Community Benefit Plan(s) must be submitted to the Planning Secretary for information before construction. The Community Benefit Plan(s) must be implemented for the duration of construction.	Not Applicable
MCoA	Socio-economic, Land Use and Property	D69	Potential impacts on the operation of festivals or events at Parramatta, Sydney Olympic Park or Five Dock must be limited as reasonably practicable.	Full Compliance
MCoA	Socio-economic, Land Use and Property	D70	Small Business Owners Engagement Plan(s) must be implemented in accordance with the Overarching Community Communication Strategy to minimise impact on small businesses adjacent to major construction sites during construction of Stage 1 of the CSSI. These plans must be prepared and submitted to the Planning Secretary for information before construction at the relevant construction site.	Not Applicable

MCoA	Soils and Contamination	D71	<p>Before commencement of any construction that would result in the disturbance of moderate to high risk contaminated sites as identified in the documents identified in Condition A1 of this schedule, Detailed Site Investigations (for contamination) must be conducted to determine the full nature and extent of the contamination. The Detailed Site Investigation Report(s) and the subsequent report(s), must be prepared, or reviewed and approved, by consultants certified under either the Environment Institute of Australia and New Zealand's Certified Environmental Practitioner (Site Contamination) scheme (CEnvP(SC)) or the Soil Science Australia Certified Professional Soil Scientist Contaminated Site Assessment and Management (CPSS CSAM) scheme. The Detailed Site Investigations must be undertaken in accordance with guidelines made or approved under section 105 of <i>Contaminated Land Management Act 1997 (NSW)</i>. The Detailed Site Investigation for Sydney Olympic Park metro construction site must be prepared in consultation with SOPA.</p> <p>Note: Nothing in this condition prevents the Proponent from preparing individual Detailed Site Investigation Reports (for contamination) for separate sites.</p>	Full Compliance
MCoA	Soils and Contamination	D72	<p>Should remediation be required to make land suitable for the final intended land use, a Remedial Action Plan must be prepared, or reviewed and approved, by consultants certified under either the Environment Institute of Australia and New Zealand's Certified Environmental Practitioner (Site Contamination) scheme (CEnvP(SC)) or the Soil Science Australia Certified Professional Soil Scientist Contaminated Site Assessment and Management (CPSS CSAM) scheme. The Remedial Action Plan must be prepared in accordance with relevant guidelines made or approved by the EPA under section 105 of the <i>Contaminated Land Management Act 1997 (NSW)</i> and must include measures to remediate the contamination at the site to ensure the site will be suitable for the proposed use when the Remedial Action Plan is implemented. The Remedial Action Plan for Sydney Olympic Park metro construction site must be prepared in consultation with SOPA.</p> <p>Note: Nothing in this condition prevents the Proponent from</p>	Full Compliance

			preparing individual Remedial Action Plans for separate sites.	
MCoA	Soils and Contamination	D73	<p>Before commencing remediation, a Section B Site Audit Statement(s) must be prepared by an NSW EPA-accredited Site Auditor that certifies that the Remedial Action Plan(s) is/are appropriate and that the site can be made suitable for the proposed use. The Remedial Action Plan(s) must be implemented and any changes to the Remedial Action Plan(s) must be approved in writing by the NSW EPA-accredited Site Auditor.</p> <p>Note: Nothing in this condition prevents the Proponent from engaging an NSW EPA-accredited Site Auditor to prepare individual Site Audit Statements for Remedial Action Plans for separate sites.</p>	Full Compliance
MCoA	Soils and Contamination	D74	<p>Validation Report(s) must be prepared in accordance with <i>Consultants Reporting on Contaminated Land: Contaminated Land Guidelines</i> (EPA, 2020) and relevant guidelines made or approved under section 105 of the <i>Contaminated Land Management Act 1997</i> (NSW).</p> <p>Note: Nothing in this condition prevents the Proponent from preparing individual Validation Reports for separate sites.</p>	Full Compliance
MCoA	Soils and Contamination	D75	<p>A Section A1 or Section A2 Site Audit Statement (accompanied by an Environmental Management Plan) and its accompanying Site Audit Report, which state that the contaminated land disturbed by the work has been made suitable for the intended land use, must be submitted to the Planning Secretary, SOPA (in respect of Sydney Olympic Park) and the Relevant Council(s) after remediation and before the commencement of operation of the CSSI.</p> <p>Note: Nothing in this condition prevents the Proponent from obtaining Section A Site Audit Statements for individual parcels of remediated land.</p>	Full Compliance
MCoA	Soils and Contamination	D76	<p>A copy of Detailed Site Investigation Report(s), Remedial Action Plan(s), Validation Report(s), Site Audit Report(s) and Site Audit Statement(s) must be submitted to the Planning Secretary, SOPA (in respect of Sydney Olympic Park) and the Relevant Council(s) for information.</p>	Full Compliance

MCoA	Soils and Contamination	D77	<p>An Unexpected Contaminated Land and Asbestos Finds Procedure must be prepared before the commencement of construction and must be followed should unexpected contaminated land or asbestos (or suspected contaminated land or asbestos) be excavated or otherwise discovered during construction.</p>	Full Compliance
MCoA	Soils and Contamination	D78	<p>The Unexpected Contaminated Land and Asbestos Finds Procedure must be implemented throughout construction.</p>	Full Compliance
MCoA	Sustainability	D79	<p>A Water Reuse Strategy must be prepared, which sets out options for the reuse of collected stormwater and groundwater during Stage 1 of the CSSI. The Water Reuse Strategy must include, but not be limited to:</p> <ul style="list-style-type: none">(a) evaluation of reuse options;(b) details of the preferred reuse option(s), including volumes of water to be reused, proposed reuse locations and/or activities, proposed treatment (if required), and any additional licences or approvals that may be required;(c) measures to avoid misuse of recycled water as potable water;(d) consideration of the public health risks from water recycling; and(e) time frame for the implementation of the preferred reuse option(s). <p>The Water Reuse Strategy must be prepared based on best practice and advice sought from relevant agencies, as required. The Strategy must be applied during construction.</p> <p>Justification must be provided to the Planning Secretary if it is concluded that no reuse options prevail.</p> <p>A copy of the Water Reuse Strategy must be made publicly available.</p> <p>Nothing in this condition prevents the Proponent from preparing separate Water Reuse Strategies for the construction phases of Stage 1 of the CSSI.</p>	Not Applicable
MCoA	Traffic and Transport	D80	<p>Access to all utilities and properties must be maintained during works, unless otherwise agreed with the relevant utility owner, landowner or occupier.</p>	Full Compliance

MCoA	Traffic and Transport	D81	Any property access physically affected by the CSSI must be reinstated to at least an equivalent standard, unless otherwise agreed by the landowner or occupier. Property access must be reinstated within one (1) month of the work that physically affected the access is completed or in any other timeframe agreed with the landowner or occupier.	Full Compliance
MCoA	Traffic and Transport	D82	Construction vehicles (including light vehicles) must not use Robert Street, Rozelle to access The Bays metro station construction site, unless required in the event of an emergency or in association with the delivery of the Rozelle power supply from the Rozelle sub-transmission substation to The Bays metro station construction site.	Not Applicable
MCoA	Traffic and Transport	D83	The locations of all Heavy Vehicles used for spoil haulage must be monitored in real time and the records of monitoring be made available electronically to the Planning Secretary and the EPA upon request for a period of no less than one (1) year following the completion of construction.	Not Applicable
MCoA	Traffic and Transport	D84	The primary egress routes for spoil haulage trucks at Sydney Olympic Park metro station construction site must be determined in consultation with SOPA.	Not Applicable
MCoA	Traffic and Transport	D85	Construction Traffic Management Plans (CTMPs) must be prepared in accordance with the Construction Traffic Management Framework. A copy of the CTMPs must be submitted to the Planning Secretary for information before the commencement of any construction in the area identified and managed within the relevant CTMP .	Full Compliance except that Sydney Metro would make all submissions to the Planning Secretary
MCoA	Traffic and Transport	D86	Local roads proposed to be used by Heavy Vehicles to directly access construction sites that are not identified in the documents listed in Condition A1 of this schedule must be approved by the Planning Secretary and be included in the CTMPs .	Full Compliance except that Sydney Metro would make all submissions to the Planning Secretary

MCoA	Traffic and Transport	D87	<p>All requests to the Planning Secretary for approval to use local roads under Condition D86 above must include the following:</p> <ul style="list-style-type: none"> (a) a swept path analysis; (b) demonstration that the use of local roads by Heavy Vehicles for the CSSI will not compromise the safety of pedestrians and cyclists or the safety of two-way traffic flow on two-way roadways; (c) details as to the date of completion of the road dilapidation surveys for the subject local roads; and (d) measures that will be implemented to avoid where practicable the use of local roads past schools, aged care facilities and child care facilities during their peak operation times; and (e) written advice from an appropriately qualified professional on the suitability of the proposed Heavy Vehicle route which takes into consideration items (a) to(d) of this condition. 	Full Compliance except that Sydney Metro would make all submissions to the Planning Secretary
MCoA	Traffic and Transport	D88	<p>Before any local road is used by a Heavy Vehicle for the purposes of construction of Stage 1 of the CSSI, a Road Dilapidation Report must be prepared for the road. A copy of the Road Dilapidation Report must be provided to the Relevant Road Authority(s) within three (3) weeks of completion of the survey and at no later than one (1) month before the road being used by Heavy Vehicles associated with the construction of Stage 1 of the CSSI.</p>	Full Compliance
MCoA	Traffic and Transport	D89	<p>If damage to roads occurs as a result of the construction of Stage 1 of the CSSI, the Proponent must either (at the Relevant Road Authority's discretion):</p> <ul style="list-style-type: none"> (a) compensate the Relevant Road Authority for the damage so caused; or (b) rectify the damage to restore the road to at least the condition it was in pre-work as identified in the Road Dilapidation Report. 	Full Compliance
MCoA	Traffic and Transport	D90	<p>Vehicles associated with the project workforce (including light vehicles and Heavy Vehicles) must be managed to:</p> <ul style="list-style-type: none"> (a) minimise parking on public roads; (b) minimise idling and queueing on state and regional roads; (c) not carry out marshalling of construction vehicles near sensitive land user(s); (d) not block or disrupt access across pedestrian or shared user paths at any time unless alternate access is provided; and (e) ensure spoil haulage vehicles adhere to the nominated haulage routes identified in the CTMPs. 	Full Compliance

MCoA	Traffic and Transport	D91	<p>A Construction Parking and Access Strategy must be prepared to identify and mitigate impacts resulting from on- and off-street parking changes during construction. The Construction Parking and Access Strategy must include, but not necessarily be limited to:</p> <ul style="list-style-type: none"> (a) achieving the requirements of Condition D90 above; (b) confirmation and timing of the removal of on- and off-street parking associated with construction of Stage 1 of the CSSI; (c) parking surveys of all parking spaces to be removed or occupied by the project workforce to determine current demand during peak, off-peak, school drop off and pickup, weekend periods and during special events; (d) consultation with affected stakeholders utilising existing on- and off-street parking stock which will be impacted as a result of construction; (e) assessment of the impacts to on- and off-street parking stock taking into consideration, occupation by the project workforce, outcomes of consultation with affected stakeholders and considering the impacts of special events; (f) identification of reasonable and practicable mitigation measures to manage impacts to stakeholders as a result of on- and off-street parking changes including, but not necessarily limited to, staged removal and replacement of parking, provision of alternative parking arrangements, managed staff parking arrangements and working with relevant council(s) to introduce parking restrictions adjacent to work sites and compounds or appropriate residential parking schemes; (g) where residential parking schemes already exist, off-road parking facilities must be provided for the project workforce; (h) mechanisms for monitoring, over appropriate intervals (not less than 6 months), to determine the effectiveness of implemented mitigation measures; (i) details of shuttle bus service(s) to transport the project workforce to construction sites from public transport hubs and off-site car parking facilities (where these are provided) and between construction sites; (j) provision of contingency measures should the results of mitigation or monitoring indicate implemented measures are ineffective; and 	Full Compliance except that Sydney Metro would make all submissions to the Planning Secretary
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			(k) provision of reporting of monitoring results to the Planning Secretary and Relevant Council(s) at six (6) monthly intervals.	
MCoA	Traffic and Transport	D92	The Construction Parking and Access Strategy must be submitted to the Planning Secretary for approval at least one (1) month before the commencement of any construction that reduces the availability of existing parking. The approved Construction Parking and Access Strategy must be implemented before impacting on on-street parking and incorporated into the CTMPs .	Full Compliance except that Sydney Metro would make all submissions to the Planning Secretary
MCoA	Traffic and Transport	D93	During construction, all reasonably practicable measures must be implemented to maintain pedestrian, cyclist and vehicular access to, and parking in the vicinity of, businesses and affected properties. Disruptions are to be avoided, and where avoidance is not possible, minimised. Where disruption cannot be minimised, alternative pedestrian, cyclist and vehicular access, and parking arrangements must be developed in consultation with affected businesses and implemented before the disruption. Adequate signage and directions to businesses must be provided before, and for the duration of, any disruption.	Full Compliance
MCoA	Traffic and Transport	D94	A Traffic and Transport Liaison Group(s) must be established in accordance with the Construction Traffic Management Framework to inform the development of CTMPs .	The Principal Contractor must participate in TTLG's were required by Sydney Metro.
MCoA	Traffic and Transport	D95	Supplementary analysis and modelling as required by TfNSW and / or the Traffic and Transport Liaison Group(s) must be undertaken to demonstrate that construction and operational traffic can be managed to minimise disruption to traffic network operations including changes to and the management of pedestrian, bicycle and public transport networks, public transport services, and pedestrian and cyclist movements. Revised traffic management measures must be incorporated into the CTMPs .	Full Compliance except in relation to operational traffic.

MCoA	Traffic and Transport	D96	<p>The permanent road works at Clyde / Rosehill must be designed, constructed and operated with the objective of integrating with existing and proposed road and related transport networks and minimising adverse changes to the safety, efficiency and, accessibility of the networks, and avoid deterioration in peak period levels of service in relation to permanent and operational changes. Design and assessment of related traffic, parking, pedestrian and cycle accessibility impacts and changes shall be undertaken:</p> <ul style="list-style-type: none"> (a) in consultation with, and to the reasonable requirements of the relevant Traffic and Transport Liaison Group; (b) in consideration of existing and future demand, connectivity (in relation to permanent changes), performance and safety requirements; (c) to minimise and manage local area traffic impacts; (d) to ensure access is maintained to property and infrastructure; and (e) to meet relevant design, engineering and safety guidelines, including Austroads, Australian Standards, and TfNSW requirements. <p>Copies of civil, structural and traffic signal design plans shall be submitted to the Relevant Road Authority for consultation during design development and before completion of construction of Stage 1 of the CSSI.</p>	Not Applicable
MCoA	Traffic and Transport	D97	<p>Permanent road works, including vehicular access, signalised intersection works, and works relating to pedestrians, cyclists, and public transport users must be subject to safety audits demonstrating consistency with relevant design, engineering and safety standards and guidelines. Safety audits must be prepared in consultation with the relevant Traffic and Transport Liaison Group before the completion and use of the subject infrastructure and must be made available to the Planning Secretary upon request.</p>	Not Applicable
MCoA	Traffic and Transport	D98	<p>Safe pedestrian and cyclist access must be maintained around construction sites during construction. In circumstances where pedestrian and cyclist access is restricted or removed due to construction activities, a proximate alternate route which complies with the relevant standards, must be provided and signposted before the restriction or removal of the impacted access.</p>	Full Compliance

MCoA	Traffic and Transport	D99	Opportunities to maximise spoil material removal by non-road methods must be investigated and implemented where reasonably practicable to minimise movements by road.	Not Applicable
MCoA	Traffic and Transport	D100	The Proponent must maintain emergency vehicle access, in consultation with TfNSW, emergency services and NSW Health, to Westmead Hospital at all times throughout Stage 1 of the CSSI. Measures must be outlined in the Construction Parking and Access Strategy required under Condition D91 above.	Full Compliance
MCoA	Utilities Management	D101	Utilities, services and other infrastructure potentially affected by construction must be identified before works affecting the item, to determine requirements for access to, diversion protection, and / or support. The relevant owner(s) and / or provider(s) of services must be consulted to make suitable arrangements for access to diversion, protection, and / or support of the affected infrastructure as required. The Proponent must ensure that disruption to any service is minimised and be responsible for advising local residents and businesses affected before any planned disruption of service.	Full Compliance
MCoA	Utilities Management	D102	A Utility Coordination Manager must be appointed for the duration of work associated with Stage 1 of the CSSI. The role of the Utility Coordination Manager must include, but not be limited to: (a) the management and coordination of all utility work associated with the delivery of Stage 1 of the CSSI, to ensure respite is provided to the community; (b) providing advice to the Sydney Metro Place Manager regarding upcoming utility work, including the scope of the work and the responsibility for the work; and (c) investigating complaints received from the Community Complaints Mediator or the Project communication team relating to utility work and providing a response as required.	Not Applicable
MCoA	Urban Design and Visual Amenity	D103	Wayfinding information must be incorporated on temporary hoardings to guide pedestrians around ancillary facilities and enhance their understanding and experience of the locality and space.	Full Compliance
MCoA	Urban Design and Visual Amenity	D104	Nothing in this approval permits advertising on any element of Stage 1 of the CSSI.	Full Compliance

MCoA	Urban Design and Visual Amenity	D105	The Proponent must undertake temporary placemaking initiatives for the benefit of the community, such as commercial “pop up” spaces, information booths, art installations, around the perimeter or in the vicinity of construction sites at Parramatta and Five Dock with the objective of temporarily enhancing visual amenity, providing gathering places in the local area and creating temporary active frontages to construction sites during Stage 1 of the CSSI.	Not Applicable
MCoA	Urban Design and Visual Amenity	D106	The acoustic shed at the Five Dock metro station eastern construction site must be designed and constructed in a manner that minimises visual amenity, solar access and overshadowing impacts to the residential apartments at 110 Great North Road, Five Dock facing the acoustic shed. The potential visual amenity, solar access and overshadowing impacts of the acoustic shed on the affected residential apartments must be assessed in a Visual Amenity, Solar Access and Overshadowing Report prepared by the Proponent.	Not Applicable
MCoA	Urban Design and Visual Amenity	D107	<p>The Visual Amenity, Solar Access and Overshadowing Report must include:</p> <ul style="list-style-type: none"> (a) visual amenity impact assessments from the relevant residential apartments to the acoustic shed at the Five Dock metro station eastern construction site; (b) solar access assessments of the relevant residential apartments, with consideration for the relevant development controls in the City of Canada Bay Development Control Plan (Version 4, 21 October 2020) and the Apartment Design Guide; and (c) a consultation plan to detail how potential impacts and mitigation measures will be discussed and negotiated with potentially affected property owners. <p>The Visual Amenity, Solar Access and Overshadowing Report must be provided to the Planning Secretary for approval within (1) month prior to the installation of the acoustic shed at the Five Dock metro station eastern construction site.</p>	Not Applicable
MCoA	Urban Design and Visual Amenity	D108	Where the acoustic shed causes a moderate (or greater) adverse visual amenity impact and / or unreasonable overshadowing and solar access impacts to any of the subject residential apartments, the Proponent must consult with the relevant affected property owners and occupiers to identify appropriate mitigation measures and an agreed implementation program. A copy of agreed	Not Applicable

			implementation programs must be provided to the Planning Secretary for information.	
MCoA	Urban Design and Visual Amenity	D109	Stage 1 of the CSSI must be constructed with the objective of minimising light spill to surrounding properties including from headlights of construction vehicles. All lighting associated with the construction of Stage 1 of the CSSI must be consistent with the requirements of <i>Australian Standard 4282-1997 Control of the obtrusive effects of outdoor lighting</i> and relevant Australian Standards in the series <i>AS/NZ 1158 – Lighting for Roads and Public Spaces</i> . Additionally, mitigation measures must be provided to manage any residual night lighting impacts to protect properties adjoining or adjacent to the CSSI, in consultation with affected landowners.	Full Compliance
MCoA	Urban Design and Visual Amenity	D110	Stage 1 of the CSSI must be constructed in a manner that minimises visual impacts of construction sites including, providing temporary landscaping and vegetative screening, minimising light spill, minimising impacts to identified significant view lines in respect of The Bays metro station construction site and incorporating architectural treatment and finishes within key elements of temporary structures that reflect the context within which the construction sites are located, wherever practicable.	Full Compliance
MCoA	Waste	D111	Waste generated during construction and operation must be dealt with in accordance with the following priorities: (a) waste generation must be avoided and where avoidance is not reasonably practicable, waste generation must be reduced; (b) where avoiding or reducing waste is not possible, waste must be re-used, recycled, or recovered; and (c) where re-using, recycling or recovering waste is not possible, waste must be treated or disposed of.	Full Compliance except for operation
MCoA	Waste	D112	The importation of waste and the storage, treatment, processing, reprocessing or disposal of such waste must comply with the conditions of the current EPL for Stage 1 of the CSSI, or be done in accordance with a Resource Recovery Exemption or Order issued under the <i>Protection of the Environment Operations (Waste) Regulation 2014</i> , as the case may be.	Full Compliance
MCoA	Waste	D113	Waste must only be exported to a site licensed by the EPA for the storage, treatment, processing, reprocessing or disposal of the subject waste, or in accordance with a Resource Recovery	Full Compliance

			Exemption or Order issued under the <i>Protection of the Environment Operations (Waste) Regulation 2014</i> , or to any other place that can lawfully accept such waste.	
MCoA	Waste	D114	All waste must be classified in accordance with the EPA's <i>Waste Classification Guidelines</i> , with appropriate records and disposal dockets retained for audit purposes.	Full Compliance
MCoA	Water	D115	Work on waterfront land must be carried out in accordance with controlled activity guidelines.	Full Compliance
MCoA	Water	D116	Before undertaking any works and during maintenance or construction activities, erosion and sediment controls must be implemented and maintained to prevent water pollution consistent with LandCom's <i>Managing Urban Stormwater</i> series (The Blue Book).	Full Compliance
MCoA	Water	D117	Stage 1 of the CSSI must be designed and constructed so as to maintain the <i>NSW Water Quality Objectives</i> (NSW WQO) where they are being achieved as at the date of this approval, and contribute towards achievement of the NSW WQO over time where they are not being achieved as at the date of this approval, unless an EPL in force in respect of the CSSI contains different requirements in relation to the NSW WQO, in which case those requirements must be complied with.	Not Applicable
MCoA	Water	D118	<p>Unless an EPL is in force in respect to Stage 1 of the CSSI and that licence specifies alternative criteria, discharges from wastewater treatment plants to surface waters must not exceed:</p> <ul style="list-style-type: none"> (a) the Australian and New Zealand Guidelines for Fresh and Marine Water Quality 2018 (ANZG (2018)) default guideline values for toxicants at the 95 per cent species protection level; (b) for physical and chemical stressors, the guideline values set out in Tables 3.3.2 and 3.3.3 of the Australian and New Zealand Guidelines for Fresh and Marine Water Quality 2000 (ANZECC/ARMCANZ); and (c) for bio accumulative and persistent toxicants, the ANZG (2018) guidelines values at a minimum of 99 per cent species protection level. <p>Where the ANZG (2018) does not provide a default guideline value for a particular pollutant, the approaches set out in the ANZG (2018) for deriving guideline values, using interim guideline values</p>	Not Applicable

			and/or using other lines of evidence such as international scientific literature or water quality guidelines from other countries, must be used.	
MCoA	Water	D119	If construction stage stormwater discharges are proposed, a Water Pollution Impact Assessment will be required to inform licensing consistent with section 45 of the POEO Act. Any such assessment must be prepared in consultation with the EPA and be consistent with the National Water Quality Guidelines, with a level of detail commensurate with the potential water pollution risk.	Not Applicable
MCoA	Water	D120	Drainage feature crossings (permanent and temporary watercourse crossings and stream diversions) and drainage swales and depressions must be carried out in accordance with relevant guidelines and designed by a suitably qualified and experienced person.	Not Applicable
MCoA	Water	D121	Make good provisions for groundwater users must be provided in the event of a material decline in water supply levels, quality or quantity from registered existing bores associated with groundwater changes from construction.	Not Applicable
MCoA	Water	D122	The Proponent must submit a revised Groundwater Modelling Report in association with Stage 1 of the CSSI to the Planning Secretary for information before bulk excavation at the relevant construction location. The Groundwater Modelling Report must include: <ul style="list-style-type: none"> (a) for each construction site where excavation will be undertaken, cumulative (additive) impacts from nearby developments, parallel transport projects and nearby excavation associated with the CSSI; (b) predicted incidental groundwater take (dewatering) including cumulative project effects; (c) potential impacts for all latter stages of the CSSI or detail and demonstrate why these later stages of the CSSI will not have lasting impacts to the groundwater system, ongoing groundwater incidental take and groundwater level drawdown effects; (d) actions required after Stage 1 to minimise the risk of inflows (including in the event latter stages of the CSSI are delayed or do not progress) and a strategy for accounting for any water taken beyond the life of the operation of the CSSI; (e) saltwater intrusion modelling analysis, from estuarine and 	Not Applicable

			saline groundwater in shale, into The Bays metro station site and other relevant metro station sites; and (f) a schematic of the conceptual hydrogeological model.	
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	REMMS Allocation				
Project	Parramatta & Clyde Enabling Works				
Approval Name:	SSI 10038				
Condition Type	Condition Classification	Condition Reference	Description	Allocation to PC	Location*
Location* refers to the stations and acronyms in the EIS Amendment Report, p103					
REMM	Traffic and transport	TT1	The community would be notified in advance of proposed road and pedestrian network changes through appropriate forms of community liaison.	Full Compliance	All
REMM	Traffic and transport	TT2	In the event of a traffic related incident, coordination would be carried out with Transport for NSW, including Transport Coordination and/or the Transport Management Centre's Operations Manager.	Full Compliance	All
REMM	Traffic and transport	TT3	Access to properties for emergency vehicles would be provided at all times.	Full Compliance	All
REMM	Traffic and transport	TT4	Vehicle access to and from construction sites would be managed to maintain pedestrian, cyclist and motorist safety. Depending on the location, this may require manual supervision, physical barriers, temporary traffic signals and modifications to existing signals or, on occasions, police presence.	Full Compliance	All
REMM	Traffic and transport	TT5	Additional enhancements for pedestrian, cyclist and motorist safety near the construction sites would be implemented during construction. This would include measures such as: <ul style="list-style-type: none"> • Assessing the suitability of construction haulage routes through sensitive land use areas with respect to road safety • Deployment of speed awareness signs in conjunction with variable message signs near construction sites to provide alerts to drivers • Providing community education and awareness 	Full Compliance, except that Sydney Metro will assess the suitability of construction haulage routes through sensitive land use areas with respect to road safety. Sydney Metro will make resources available to the Principal Contractor in relation to the Be Truck Aware program.	All

			<p>about sharing the road safely with heavy vehicles</p> <ul style="list-style-type: none"> • Specific construction driver training to understand route constraints, safety and environmental considerations such as sharing the road safely with other road users and limiting the use of compression braking • Requiring technology and equipment to improve vehicle safety, eliminate heavy vehicle blind spots, and monitor vehicle location and driver behaviour. 		
REMM	Traffic and transport	TT6	All trucks would enter and exit construction sites in a forward direction, where feasible and reasonable.	Full Compliance	All
REMM	Traffic and transport	TT7	Construction site traffic would be managed to minimise movements during peak periods.	Full Compliance	All
REMM	Traffic and transport	TT8	Construction site traffic immediately around construction sites would be managed to minimise vehicle movements through school zones during pick up and drop off times.	Full Compliance	WMS, PMS, BNS, FDS
REMM	Traffic and transport	TT9	Opportunities to minimise impacts at the Alexandra Avenue/Bridge Road intersection would be determined in consultation with Transport for NSW.	Not Applicable	WMS
REMM	Traffic and transport	TT10	Where existing parking is removed to facilitate construction activities, consultation would occur with the relevant local council to investigate opportunities to provide alternative parking facilities.	Full Compliance	All
REMM	Traffic and transport	TT11	<p>Construction sites would be managed to minimise the number of construction workers parking on surrounding streets by:</p> <ul style="list-style-type: none"> • Encouraging workers to use public or active transport • Encouraging ride sharing • Provision of alternative parking locations and shuttle bus transfers where feasible and reasonable. 	Full Compliance	All
REMM	Traffic and transport	TT12	Any temporary closure or relocation of bus stops and kiss-and-ride facilities would be carried out in consultation with Transport for NSW including Transport Coordination (for relevant locations), the relevant local council and bus operators. Wayfinding and customer information would be provided to notify	Not Applicable	WMS, NSMS, BNS, TBS

			customers of relocated bus stops.		
REMM	Traffic and transport	TT13	Opportunities to improve bus priority along the temporary detour at Westmead metro station construction site would be investigated during detailed design.	Not Applicable	WMS
REMM	Traffic and transport	TT14	Pedestrian and cyclist access would be maintained during the temporary closure of Alexandra Avenue. Wayfinding and customer information would be provided to guide pedestrians and cyclists to alternative routes.	Not Applicable	WMS
REMM	Traffic and transport	TT15	Where existing cyclist facilities (e.g. bicycle parking) would be temporarily unavailable to facilitate construction activities, suitable replacement facilities would be provided for this duration.	Full Compliance	WMS, PMS
REMM	Traffic and transport	TT16	Any relocation of taxi ranks would be carried out in consultation with Transport for NSW, the relevant local council and taxi operators. Wayfinding and customer information would be provided to notify customers of relocated taxi ranks.	Not Applicable	SOPMS
REMM	Traffic and transport	TT17	<p>During major special events, impacts to the transport and traffic network would be reduced by (as necessary):</p> <ul style="list-style-type: none"> • Minimising the level of construction activity, and if necessary, ceasing all construction activity • Maintaining appropriate access to all areas within the event precinct • Erection of hoardings, site fencing and gates at key locations within the construction site boundary to permit pedestrian movements adjacent to the construction site and separate pedestrians from construction vehicles • Scheduling deliveries to the construction site outside of event periods. <p>For special events that require specific traffic measures, those measures would be developed in consultation with Transport for NSW, including</p>	Full Compliance	PMS, CSMF, SOPMS

			Transport Coordination (for relevant locations) and the organisers of the event.		
REMM	Traffic and transport	TT18	Access to existing properties and buildings would be maintained in consultation with property owners.	Full Compliance	All
REMM	Traffic and transport	TT19	Traffic control measures required at the Parramatta metro station construction site access on George Street would be determined in consultation with Transport for NSW.	Full Compliance	PMS
REMM	Traffic and transport	TT20	Adjustments to site access arrangements and the local road network would be explored during detailed design to minimise conflicts with heavy vehicle movements.	Not Applicable	NSMS, FDS
REMM	Traffic and transport	TT21	Construction site traffic generated at the Five Dock Station construction site would be managed to avoid or minimise travel during the evening peak period.	Not Applicable	FDS
REMM	Traffic and transport	TT22	Construction site traffic generated at the Five Dock Station construction site would be managed to minimise movements during church service times at St Albans Anglican Church.	Not Applicable	FDS
REMM	Traffic and transport	TT23	Opportunities to provide vehicle access and egress directly to Parramatta Road and minimise the use of Loftus Street at the Burwood North Station construction site would be explored during detailed design.	Not Applicable	BNS
REMM	Traffic and transport	TT24	Co-ordination of traffic management arrangements between major construction projects would occur in consultation with Transport for NSW including Transport Coordination.	Not Applicable	TBS
REMM	Traffic and transport	TT25	If barging of spoil is progressed, a Marine Traffic Management Plan would be developed by the construction contractor. The plan would outline the general operational plan for the movement and management of barging vessels in accordance with TT27, TT28 and TT29. The Plan would also outline the process for consultation in accordance with TT26.	Not Applicable	TBS
REMM	Traffic and transport	TT26	If barging of spoil is progressed, clubs which operate watercraft would be consulted about potential barging and potential changes to courses for watercraft such	Not Applicable	TBS

			as yachts before the start of barging.		
REMM	Traffic and transport	TT27	If barging of spoil is progressed, barging vessel movements would be scheduled to avoid times and locations of high recreational marine traffic where feasible and reasonable in consultation with Transport for NSW.	Not Applicable	TBS
REMM	Traffic and transport	TT28	If barging of spoil is progressed, barging vessel movements would be managed to not interfere with port operations or the navigation of seagoing ships and ferries, unless prior approval has been obtained from the Harbour Master.	Not Applicable	TBS
REMM	Traffic and transport	TT29	If barging of spoil is progressed, barging vessel movements would not be undertaken during special events when navigation restrictions are in place.	Not Applicable	TBS
REMM	Construction and operation of vehicular traffic	TT30	The design of the temporary traffic arrangements at Westmead metro station construction site would consider construction traffic, alternate bus routes and bus stops, local vehicular traffic and pedestrian safety. The design of the temporary traffic arrangements would be undertaken in consultation with Transport for NSW, Schools Infrastructure, Heath Infrastructure, relevant local councils and bus operators.	Not Applicable	WMS
REMM	Potential parking impacts as a result of partial and full road closures required to facilitate construction works	TT31	Where existing parking is removed to facilitate construction activities for The Bays Station construction site power supply route, consultation would occur with the relevant local council, local businesses, the community and schools (where appropriate) to investigate opportunities to provide alternative parking facilities.	Not Applicable	TBS
REMM	Potential access and parking impacts as a result of partial and full road closures	TT32	Provision of assistance to carry shopping, luggage and other heavy or large goods between the alternative parking area at Ausgrid Rozelle sub-transmission substation (subject to final agreement between Sydney Metro and Ausgrid) and residences during times when access is limited.	Not Applicable	TBS

REMM	Noise and vibration	NV01	<p>Further engagement and consultation would be carried out with:</p> <ul style="list-style-type: none"> The affected communities to understand their preferences for mitigation and management measures. 'Other sensitive' receivers such as schools, medical facilities or places of worship to understand periods in which they are more sensitive to impacts. <p>Based on this consultation, appropriate mitigation and management options would be considered and implemented where feasible and reasonable to minimise the impacts.</p>	Full Compliance	All
REMM	Noise and vibration	NV02	<p>Alternative construction methodologies and measures that minimise noise and vibration levels during noise intensive works would be investigated and implemented where feasible and reasonable. This would include consideration of:</p> <ul style="list-style-type: none"> The use of hydraulic concrete shears in lieu of hammers/rock breakers Sequencing works to shield noise sensitive receivers by retaining building wall elements Locating demolition load out areas away from the nearby noise sensitive receivers Providing respite periods for noise intensive works Minimising structural-borne noise to adjacent buildings including separating the structural connection prior to demolition through saw-cutting and propping, using hand held splitters and pulverisers or hand demolition Installing sound barrier screening to scaffolding facing noise sensitive neighbours Using portable noise barriers around particularly noisy equipment, such as concrete saws Modifying demolition works sequencing / hours to minimise impacts during peak pedestrian times and / or adjoining neighbour outdoor activity periods. 	Full Compliance	All

REMM	Noise and vibration	NV03	Appropriate respite would be provided to affected receivers in accordance with the Sydney Metro Construction Noise and Vibration Standard. This would include consideration of impacts from Stage 1 utility and power supply works when determining appropriate respite periods for affected receivers. When determining appropriate respite, the need to efficiently undertake construction would be balanced against the communities' preferred noise and vibration management approach.	Full Compliance	All
REMM	Noise and vibration	NV04	The use of noise intensive equipment at construction sites with 'moderate' and 'high' out-of-hours noise management level exceedances would be scheduled for standard construction hours, where feasible and reasonable. Where this is not feasible and reasonable, the works would be undertaken as early as possible in each work shift.	Full Compliance	All
REMM	Noise and vibration	NV05	Air brake silencers would be used on heavy vehicles that access construction sites multiple times per night or over multiple nights.	Full Compliance	All
REMM	Noise and vibration	NV06	Perimeter site hoarding would be designed with consideration of on-site heavy vehicle movements with the aim of minimising sleep disturbance impacts.	Full Compliance	All
REMM	Noise and vibration	NV07	Long term construction site support equipment and machinery would be low noise emitting and suitable for use in residential areas, where feasible and reasonable. Examples include: <ul style="list-style-type: none"> • Low noise water pumps for use in water treatment facilities • Low noise generators and compressors • Low noise air conditioner units for use of amenities buildings. 	Full Compliance	All

REMM	Noise and vibration	NV08	<p>For all sites where acoustic sheds are proposed, the sheds would be designed and constructed to minimise noise emissions. This would likely include the following considerations:</p> <ul style="list-style-type: none"> • All significant noise producing equipment that would be used during the night-time would be inside the shed, where feasible and reasonable • Noise generating ventilation systems such as compressors, scrubbers, etc, would also be inside the shed and external air intake/discharge ports would be appropriately acoustically treated • The door of the acoustic shed would be kept closed during the night-time period, where feasible and reasonable. Where night-time vehicle access is required, the doors would be designed and constructed to minimise noise breakout. 	Not Applicable	WMS, SOPMS, BNS, FDS, TBS
REMM	Noise and vibration	NV09	Feasible and reasonable measures would be implemented to minimise ground-borne noise where exceedances are predicted. This may require implementation of less ground-borne noise and less vibration intensive alternative construction methodologies.	Full Compliance	All
REMM	Noise and vibration	NV10	The proximity of cross passages to nearby receivers and the corresponding construction ground-borne noise and vibration impacts during the excavation works would be considered when determining locations. Relocation of cross passages to be further away from sensitive receivers to mitigate potential construction impacts would be considered, where feasible and reasonable.	Not Applicable	Metro rail tunnels
REMM	Noise and vibration	NV11	An activity specific Construction Noise and Vibration Impact Statement (in accordance with the requirements of the Construction Noise and Vibration Standard) would be developed for rockbreaking in the tunnel and at cross passages, specifically addressing the activity where it is required between 10pm-7am.	Not Applicable	Metro rail tunnels

REMM	Noise and vibration	NV12	Blasting would be planned during hours that would cause the least disruption and disturbance to the nearest receivers. Notification protocols prior to blasting for the nearest sensitive receivers would be established.	Not Applicable	WMS, PMS, SSF, SOPMS, NSMS, BMS, FDS, TBS
REMM	Noise and vibration	NV13	Vibration and overpressure measurements would be completed at the start of any blasting activities to confirm that vibration levels are within the blasting criteria.	Not Applicable	WMS, PMS, SSF, SOPMS, NSMS, BMS, FDS, TBS
REMM	Noise and vibration	NV14	<p>Further assessment of construction traffic would be completed during detailed design, including consideration of the potential for exceedances of the NSW Road Noise Policy base criteria (where greater than 2 dB increases are predicted).</p> <p>The potential impacts would be managed using the following approaches, where feasible and reasonable:</p> <ul style="list-style-type: none"> • On-site spoil storage capacity would be maximised to reduce the need for truck movements during sensitive times • Vehicle movements would be redirected away from sensitive receiver areas and scheduled during less sensitive times • The speed of vehicles would be limited and the use of engine compression brakes would be avoided • Heavy vehicles would not be permitted to idle near sensitive receivers. 	Full Compliance	All
REMM	Noise and vibration	NV15	Consultation with the owners and operators of the horse stables near the Clyde stabling and maintenance facility construction site would be carried out so that potential impacts to horses are appropriately managed.	Full Compliance	CSMF
REMM	Noise and vibration	NV16	Where vibration levels are predicted to exceed the screening criteria, a more detailed assessment of the structure (in consultation with a structural engineer) and vibration monitoring would be carried out to ensure vibration levels remain below appropriate	Full Compliance	All

			limits for that structure. For heritage items, the more detailed assessment would specifically consider the heritage values of the structure in consultation with a heritage specialist to ensure sensitive heritage fabric is adequately monitored and managed.		
REMM	Noise and vibration	NV17	Condition surveys of buildings and structures near to the tunnel and excavations would be undertaken prior to the commencement of excavation at each site, where appropriate. For heritage buildings and structures the surveys would consider the heritage values of the structure in consultation with a heritage specialist.	Full Compliance	All
REMM	Noise and vibration	NV18	The likelihood of cumulative construction noise impacts would be reviewed during detailed design when detailed construction schedules are available. Co-ordination would occur between potentially interacting projects to minimise concurrent or consecutive works in the same areas, where possible. Specific mitigation strategies would be developed to manage impacts. Depending on the nature of the impact, this could involve adjustments to construction program or activities of Sydney Metro West or of other construction projects.	Full Compliance, except Sydney Metro will establish and lead a forum to co-ordinate and consult with stakeholders. The Principal Contractor would participate in this forum.	All
REMM	Noise and vibration	NV19	Further assessment of operational road traffic noise mitigation would be undertaken for receivers identified as being eligible for consideration of treatment. The mitigation would likely include at-property treatment. Receivers that are identified as requiring at-receiver noise mitigation would be identified and, where possible, offered treatment prior to the start of construction works which have the potential to affect them.	Not Applicable	WMS

REMM	Non-Aboriginal heritage	NAH1	<p>Archival recording and reporting of the following heritage items would be carried out in accordance with the NSW Heritage Office's How to Prepare Archival Records of Heritage Items (1998), and Photographic Recording of Heritage Items Using Film or Digital Capture (2006):</p> <ul style="list-style-type: none"> • Shops (and potential archaeological site)(Parramatta LEP Item No. I703) • Kia Ora (and potential archaeological site) (Parramatta LEP Item No. I716) • RTA Depot (Parramatta LEP Item No. I576) • State Abattoirs (SEPP Listing No. A) • White Bay Power Station (SHR Listing No. 01015) 	<p>The Principal Contractor is responsible for carrying out the physical salvage and storage of heritage items in accordance with any relevant requirements of the NSW Heritage Office's How to Prepare Archival Records of Heritage Items (1998), and Photographic Recording of Heritage Items Using Film or Digital Capture (2006)</p>	PMS, CSMF, SOPMS, TBS
REMM	Non-Aboriginal heritage	NAH2	A method for the demolition of existing buildings and/or structures at specified construction sites would be developed to minimise direct and indirect impacts to adjacent and/or adjoining heritage items.	Full Compliance	PMS, CSMF, SOPMS, TBS
REMM	Non-Aboriginal heritage	NAH3	Prior to commencement of demolition of heritage elements at White Bay Power Station within The Bays construction site, significant heritage fabric would be identified for salvage and reuse opportunities for salvaged fabric considered.	Not Applicable	TBS
REMM	Non-Aboriginal heritage	NAH4	The policies of the White Bay Power Station Conservation Management Plan would be considered in regard to visual impacts of the Stage 1 works, particularly the acoustic shed (or other acoustic measures) and any temporary structures. Significant view lines would be retained during Stage 1 works.	Not Applicable	TBS
REMM	Non-Aboriginal heritage	NAH5	Where heritage items, including significant archaeology are impacted by Stage 1 works, consideration would be given to their inclusion in the Heritage Interpretation Plan for future stages.	Not Applicable, except that the Principal contractor will provide Sydney Metro with any information it requires to inform the development of the Heritage Interpretation Plan.	All

REMM	Non-Aboriginal heritage	NAH6	<p>The archaeological research design would be implemented.</p> <p>Significant archaeological findings would be considered for inclusion in heritage implementation (as per NAHS) for the project and be developed in consultation with the relevant local council.</p>	<p>Full Compliance, except that Sydney Metro will make any considerations in relation to the inclusion of significant archaeological findings in heritage implementation, and undertake any consultation with local council</p>	All
REMM	Non-Aboriginal heritage	NAH7	An Archaeological Excavation Report would be prepared by the Excavation Director and be provided to the NSW Heritage Division within two years of the completion of archaeological excavations specified in the archaeological research design(s).	Full Compliance, except that Sydney Metro will make all submissions to the NSW Heritage Division	All
REMM	Non-Aboriginal heritage	NAH8	<p>In the event that State significant archaeology associated with early convict occupation is located at Parramatta metro station:</p> <ul style="list-style-type: none"> • In situ conservation would be considered. If in situ conservation is not feasible and reasonable, a strategy to mitigate impacts would be prepared in consultation with the NSW Heritage Council (or delegate) • An Archaeological Method Statement would be prepared in consultation with the NSW Heritage Council (or delegate) for management of the archaeological remains, whether for conservation or archaeological investigation and recording • An accessible publication would be prepared within two years of archaeological excavations to document the archaeological investigations • Sydney Metro would provide for the meaningful curation, display and public access of any artefacts collected. This may involve partnerships with museums, local heritage centres and/or universities. 	<p>Full Compliance, except that Sydney Metro would consider in-situ conservation and facilitate any consultation with NSW Heritage Council with the Principal Contractors participation.</p> <p>Sydney Metro would provide for the meaningful curation, display and public access of any artefacts collected.</p>	PMS
REMM	Non-Aboriginal heritage	NAH9	Condition deleted	Not Applicable	N/A

REMM	Non-Aboriginal heritage	NAH10	<p>An assessment of significance would be prepared in consultation with the relevant local council for the following potential unlisted heritage items:</p> <ul style="list-style-type: none"> • 220 Church Street, Parramatta • 48 Macquarie Street, Parramatta • Pine Inn at 19 Parramatta Road, Concord • 338-340 Parramatta Road, Burwood • Former warehouse shed, Glebe Island. <p>If the assessment of significance confirms these items have local heritage value, an archival recording would be undertaken.</p>	<p>Full Compliance in relation to:</p> <ul style="list-style-type: none"> • 220 Church Street, Parramatta • 48 Macquarie Street, Parramatta <p>Sydney Metro would undertake Archival recordings except any physical salvage and storage of any heritage items.</p>	PMS, BNS, TBS
REMM	Aboriginal heritage	AH1	Aboriginal stakeholder consultation would be carried out in accordance with the Heritage NSW, Department of Premier and Cabinet's Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010 (DECCW, 2010).	Full Compliance, except that Sydney Metro will facilitate consultation between Principal Contractors and Registered Aboriginal Parties	All
REMM	Aboriginal heritage	AH2	Archaeological test excavation (and salvage when required) would be carried out where intact natural profiles with the potential to contain significant archaeological deposits are encountered at the specified construction sites and the Parramatta power supply route. Excavations would be conducted in accordance with the methodology outlined in the Aboriginal cultural heritage assessment report.	Full Compliance, except in relation to the Parramatta Power Supply Route.	PMS, CSMF, TBS and PSR
REMM	Aboriginal heritage	AH3	If Aboriginal archaeological remains are recovered during Stage 1, results would be incorporated into Aboriginal heritage interpretation for the Concept in consultation with registered Aboriginal parties.	The Principal Contractor will provide Sydney Metro with any information it requires to inform Aboriginal Heritage Interpretation.	All
REMM	Aboriginal heritage	AH4	In the event that a potential burial site or potential human skeletal material is exposed during construction, the Sydney Metro Exhumation Management Plan would be implemented.	Full Compliance	All

REMM	Property and land use	LU1	Except where required for subsequent construction activities associated with future stages of the Concept, temporary use areas for construction purposes would be stabilised and appropriately rehabilitated as soon as feasible and reasonable following completion of construction. This would be carried out in consultation with the relevant landowner.	Full Compliance. Sydney Metro will assist in identifying the relevant areas.	All
REMM	Landscape and visual amenity	LV1	Where feasible and reasonable, the elements within construction sites would be located to minimise visual impacts (for example storing materials and machinery behind fencing).	Full Compliance	All
REMM	Landscape and visual amenity	LV2	The design and maintenance of construction site hoardings would aim to minimise visual amenity and landscape character impact.	Full Compliance, except that Sydney Metro will provide graphical designs for Hording to the Principal Contractor. The Principal Contractor will provide Sydney Metro any information it needs to provide the graphical designs.	All
REMM	Landscape and visual amenity	LV3	Graffiti would be removed promptly from hoardings and any other aspects of construction sites.	Full Compliance	All
REMM	Landscape and visual amenity	LV4	All structures (including acoustic sheds or other acoustic measures, site offices and workshop sheds) would be finished in a colour which aims to minimise their visual impact, if visible from areas external to the construction site. This finish is to be applied to all visible fixtures and fittings (including exposed downpipes).	Full Compliance	WMS, PMS, SOPMS, SNMS, BNS, FDS
REMM	Landscape and visual amenity	LV5	Lighting of construction sites would be orientated to minimise glare and light spill impacts on adjacent receivers.	Full Compliance	All

REMM	Landscape and visual amenity	LV6	Construction site hoardings would be designed in accordance with Sydney Metro Brand Design Guidelines and opportunities for public art on hoardings would be considered in high pedestrian locations.	Full Compliance, except Sydney Metro will provide the public art to be adopted on temporary hoarding in digital format.	All
REMM	Landscape and visual amenity	LV7	Works would be coordinated with the Department of Planning, Industry and Environment to manage the potential impact of construction on sporting events in other areas of Sydney Olympic Park.	Not Applicable	SOPMS
REMM	Landscape and visual amenity	LV8	Works would be coordinated with City of Canada Bay Council to manage the potential impact of construction on sporting events at Concord Oval.	Not Applicable	BNS
REMM	Landscape and visual amenity	LV9	Where feasible and reasonable the location and height of the acoustic shed at the Five Dock Station (if required) would be designed to minimise overshadowing of Fred Kelly Place between 10am and 3pm in mid-winter.	Not Applicable	FDS
REMM	Landscape and visual amenity	LV10	Opportunities to provide temporary activation in the vicinity of the Five Dock Station western construction site during construction would be explored in consultation with the City of Canada Bay Council.	Not Applicable	FDS
REMM	Landscape and visual amenity	LV11	Opportunities for the retention and protection of existing street trees and trees within the site would be identified during detailed construction planning.	Full Compliance	All
REMM	Landscape and visual amenity	LV12	Existing trees to be retained would be protected prior to the commencement of construction in accordance with Australian Standard AS4970 the Australian Standard for Protection of Trees on Development Sites and Adjoining Properties.	Full Compliance	All
REMM	Landscape and visual amenity	LV13	Trees removed by Stage 1 would be replaced to achieve no net loss to tree numbers and/or canopy in proximity to the site as a minimum in the long term (and part of future stages of Metro West).	The Principal Contractor must provide Sydney Metro with information detailing the number of tree's removed, the location of each tree removed and each removed tree's canopy area.	All

REMM	Landscape and visual amenity	LV14	Opportunities would be investigated with the relevant local council to provide plantings in proximity to the impacted areas prior to construction commencing where feasible and reasonable.	Full Compliance	All
REMM	Business impacts	BI1	Small business owner engagement would be undertaken to assist small business owners adversely impacted by construction.	Full Compliance	All
REMM	Business impacts	BI2	Planned power and utility interruptions would be scheduled to before or after typical business hours where feasible and reasonable. Prior notice would be provided to all affected business owners of the interruptions.	Full Compliance	All
REMM	Business impacts	BI3	Hoarding and screening impacting the visibility of business would be minimised where feasible and reasonable, without compromising public safety or the effective management of construction airborne noise. Clear pathways and signage would be implemented around construction sites to maximise visibility of retained businesses, including sufficient lighting along pedestrian footpaths during night-time where relevant.	Full Compliance	All
REMM	Social impacts	S1	Consultation would be carried out with managers of social infrastructure located near construction sites about the timing and duration of construction works and management of potential impacts, with the aim of minimising potential disruptions to the use of the social infrastructure from construction activity.	Full Compliance	WMS, PMS, CSMF, SSF, SOPMS, NSMS, BNS, FDS, TBS
REMM	Social impacts	S2	Engagement would be carried out with Parramatta City Council to identify alternative locations for the Parramatta Artist Studios to provide opportunities for facilitating local creative and cultural activities.	Full Compliance	PMS
REMM	Social impacts	S3	A Community Benefit Plan would be developed to guide the development of community benefit initiatives (by Principal Contractors) during construction of Stage 1 to make a positive contribution to the potentially affected community. The key objectives of the plan would include: <ul style="list-style-type: none">• Identify opportunities to create environmental and	Not Applicable	WMS, PMS, SOPMS, NSMS, BNS, FDS, TBS

			<p>community benefits and provide positive social outcomes</p> <ul style="list-style-type: none"> • Respond to community priorities and needs in the locality of each relevant construction site. 		
REMM	Social impacts	S4	In addition to mitigation measure TT17, consultation would be carried out with festival and event organisers in proximity to construction sites to mitigate potential impacts on the operation of the festival or event.	Full Compliance	PMS, FDS
REMM	Social impacts	S5	In addition to mitigation measure LV6, consultation would be carried out with stakeholders to identify opportunities for public art to reflect community values, culture and identity of the local community.	Not Applicable	WMS, PMS, SOPMS, NSMS, BNS, FDS
REMM	Social impacts	S6	In addition to mitigation measure LV10, potential temporary activation in the vicinity of the Five Dock Station western construction site would include opportunities to provide spaces and places for the community to gather and meet each other, culture and identity.	Not Applicable	FDS
REMM	Social impacts	S7	In addition to mitigation measure S1, ongoing engagement would be undertaken with NSW Department of Education to continue to investigate feasible and reasonable mitigation measures related to construction traffic, pedestrian safety, construction noise and vibration, and air quality.	Full Compliance, except Sydney Metro would facilitate any consultation with NSW Department of Education.	WMS, PMS, BNS, FDS
REMM	Groundwater and ground movement	GW1	Site inspection would be carried out on private domestic supply bore GW305646 to confirm the current viability of that bore. If found to be viable, and predicted to be significantly impacted, make good measures would be implemented if a loss of yield were to occur.	Not Applicable	BNS

REMM	Groundwater and ground movement	GW2	A review of additional geotechnical and hydrogeology data would be undertaken to confirm the geological and groundwater conditions and determine, based on these local conditions, whether predicted groundwater drawdown from Stage 1 is likely to occur in the vicinity of these creeks. Where the additional data review shows local conditions and predicted groundwater drawdown are likely to cause surface water/groundwater interaction, then additional site investigations (in accordance with GW3) would be undertaken for those creeks or surface water bodies.	Not Applicable	WMS, CSMF, SOPMS, NSMS
REMM	Groundwater and ground movement	GW3	Additional site investigations would be carried out at creeks or surface water bodies where the additional data review in GW2 shows there is a likely surface water/groundwater interaction. This would involve baseline monitoring of creek flows (streamflow gauging) prior to construction, and baseflow streamflow analysis to confirm the existing groundwater baseflow contribution to streamflow for each creek. Where a significant reduction in baseflow is predicted due to Stage 1, design responses would be implemented at station and shaft excavations to reduce potential baseflow loss.	Not Applicable	WMS, CSMF, SOPMS, NSMS
REMM	Groundwater and ground movement	GW4	Monitoring of groundwater levels and quality at the site area would occur before, during and after construction. This would also include monitoring of potential contaminants of concern. Groundwater level data would be regularly reviewed during and after construction by a qualified hydrogeologist. Groundwater monitoring data would be provided to the NSW Environment Protection Authority and Department of Planning, Industry, Environment, Water and the Natural Resources Access Regulator for information prior to commencement of construction.	Not Applicable	WMS, PMS, CSMF, SSF, SOPMS, NSMS, BNS, FDS, TBS

REMM	Groundwater and ground movement	GW5	<p>A detailed geotechnical and hydrogeological model for Stage 1 would be developed and progressively updated during design and construction. The detailed geotechnical and hydrogeological model would include:</p> <ul style="list-style-type: none"> • Assessment of the potential for damage to structures, services, basements and other subsurface elements through settlement or strain • Predicted groundwater inflows, groundwater take and changes to groundwater levels, including at nearby water supply works. <p>Where building damage risk is rated as moderate or higher (as per the CIRIA 1996 risk-based criteria), a structural assessment of the affected buildings/structures would be carried out and specific measures implemented to address the risk of damage.</p> <p>Where a significant exceedance of target changes to groundwater levels are predicted at surrounding land uses and nearby water supply works, an appropriate groundwater monitoring program would be developed and implemented. The program would aim to confirm no adverse impacts on groundwater levels or to appropriately manage any impacts. Monitoring at any specific location would be subject to the status of the water supply work and agreement with the landowner.</p>	Not Applicable	Where required
REMM	Groundwater and ground movement	GW6	Condition surveys of buildings and structures in the vicinity of the tunnel and excavations would be carried out prior to the commencement of excavation at each site.	Not Applicable	Where required
REMM	Soils and surface water quality	SSWQ1	Prior to ground disturbance in areas of potential acid sulfate soil occurrence, testing would be carried out to determine the presence of actual and/or potential acid sulfate soils. If acid sulfate soils are encountered, they would be managed in accordance with the Acid Sulfate Soil Manual (ASSMAC, 1998)	Not Applicable	PMS, CSMF, TBS

REMM	Soils and surface water quality	SSWQ2	Prior to ground disturbance in high probability salinity areas, testing would be carried out to determine the presence of saline soils. If salinity is encountered, excavated soils would not be reused or it would be managed in accordance with Book 4 Dryland Salinity: Productive Use of Saline Land and Water (NSW DECC 2008). Erosion controls would be implemented in accordance with Blue Book (Landcom, 2004).	Not Applicable	All
REMM	Soils and surface water quality	SSWQ3	Erosion and sediment measures would be implemented at all construction sites in accordance with the principles and requirements in Managing Urban Stormwater – Soils and Construction, Volume 1 (Landcom 2004) and Volume 2D (NSW Department of Environment, Climate Change and Water 2008), commonly referred to as the 'Blue Book'. Additionally, any water collected from construction sites would be appropriately treated and discharged to avoid any potential contamination or local stormwater impacts. Temporary sediment basins would be designed in accordance with Managing Urban Stormwater: Soils and Construction and Managing Urban Stormwater, Volume 2D: Main Road Construction (DECC, 2008).	Full Compliance	All
REMM	Soils and surface water quality	SSWQ4	Works in waterways and surrounding low lying areas would be carried out in accordance with progressive erosion and sediment control plans.	Full Compliance	CSMF
REMM	Soils and surface water quality	SSWQ5	The water treatment plants would be designed so that wastewater is treated to a level that is compliant with the ANZECC/ARMCANZ (2000) and ANZG (2018) and draft ANZG (2020) default guidelines for 95 per cent species protection and 99 per cent species protection and 99 per cent species protection for toxicants that bioaccumulate unless other discharge criteria are agreed with relevant authorities.	Not Applicable	All

REMM	Soils and surface water quality	SSWQ6	<p>A surface water monitoring program would be implemented to observe any changes in surface water quality that may be attributable to Stage 1 and inform appropriate management responses.</p> <p>The program would be developed in consultation with the EPA and relevant Councils. The program would consider monitoring being undertaken as part of other infrastructure projects such as the WestConnex M4 East monitoring.</p> <p>Monitoring would occur during pre-construction and during construction at all waterways with the potential to be impacted. Monitoring sites could be located upstream and downstream of the potential discharges and would include sampling for key indicators of concern.</p>	Not Applicable	All
REMM	Soils and surface water quality	SSWQ7	<p>Further design development would confirm the local stormwater system capacity to receive construction water treatment plant inflows. In the event there is a stormwater infrastructure capacity issue with existing infrastructure, mitigation measures such as storage detention to control water outflow during wet weather events would be implemented.</p>	Not Applicable	All
REMM	Contamination	C1	<p>For sites where potential contamination risk is moderate, high or very high, a further review of data would be performed.</p> <p>Where the additional data review provides sufficient information to confirm that contamination is likely to have a very low or low risk, the site would then be managed in accordance with the Soil and Water Management Plan. This would typically occur where there is minor, isolated contamination that can be readily remediated through standard construction practices such as excavation and off-site disposal.</p>	<p>Full Compliance except very low or low risk contamination would be managed in accordance with the CEMP</p>	All

REMM	Contamination	C2	<p>Where data from the additional data review (mitigation measure C1) is insufficient to understand the risk of contamination, a Detailed Site Investigation would be carried out in accordance with the National Environment Protection Measure (2013) and other guidelines made or endorsed by the NSW EPA.</p> <p>The sites requiring a Detailed Site Investigation would be confirmed following the additional data review (mitigation measure C1), however on the basis of the Stage 1 assessment, it is anticipated that Detailed Site Investigations would be required at the specified application locations.</p>	Full Compliance	CSMF, SSF, SOPMS, TBS
REMM	Contamination	C3	<p>Where data from the additional data review (mitigation measure C1) or the Detailed Site Investigation (mitigation measure C2) confirms that contamination would have a moderate, high or very high risk, a Remediation Action Plan would be developed for the area of the construction footprint. Each Remediation Action Plan would detail the remediation works required to mitigate risks from contamination throughout and following completion of construction. The Remediation Action Plan would be prepared in accordance with relevant NSW EPA guidelines and where applicable, detail remediation methodologies in accordance with Australian Standards and other relevant government guidelines and codes of practice.</p> <p>Remediation would be performed as an integrated component of construction and to a standard commensurate with the proposed end use of the land.</p> <p>The sites requiring Remediation Action Plans and remediation would be confirmed following the additional data review (mitigation measure C1) and Detailed Site Investigation (mitigation measure C2), however on the basis of the Stage 1 assessment, it is anticipated that Remediation Action Plans and remediation could be required at the specified</p>	Full Compliance	CSMF, SSF, SOPMS, TBS

			application locations.		
REMM	Contamination	C4	Where contamination is highly complex, such as significant groundwater contamination; contamination associated with vapour; contamination that requires specialised remediation techniques; or contamination that requires ongoing active management during and beyond construction, an accredited Site Auditor would review and approve the Remediation Action Plan, and would develop a Site Audit Statement and Site Audit Report upon completion of remediation. The sites requiring Site Audit Statements would be confirmed following the preparation of Remediation Action Plans (mitigation measure C3), however on the basis of the Stage 1 assessment, it is anticipated that Site Audit Statements would be required at the specified application locations.	Full Compliance	CSMF, SOPMS, TBS, and as applicable
REMM	Contamination	C5	Ongoing management and monitoring measures would be documented in an appropriate form and implemented for any areas where minor, residual contamination remains following construction.	Full Compliance	As applicable
REMM	Hydrology and flooding	HF1	Detailed construction planning would consider flood risk at construction sites. This would include: <ul style="list-style-type: none"> • Identification of measures to not worsen flood impacts on the community and on other property and infrastructure during construction up to and including the one per cent AEP flood event • Provide flood-proofing to excavations at risk of flooding or coastal inundation during construction, where feasible and reasonable, such as raised entry into shafts and/or pump-out facilities to minimise ingress of floodwaters into shafts and the dive structure • Review of site layout and staging of construction works to avoid or minimise obstruction of overland flow paths and limit the extent of flow diversion required. This includes design of site hoardings to minimise disruption to flow paths (if possible). Not worsen is defined as:	Not Applicable	PMS, CSMF, SSF, NSMS, TBS

			<ul style="list-style-type: none"> • A maximum increase in flood levels of 50mm in a one per cent AEP flood event • A maximum increase in time of inundation on one hour in a one per cent AEP flood event • No increase in potential soil erosion and scouring from any increase in flow velocity in a one per cent AEP flood event. 		
REMM	Hydrology and flooding	HF2	Condition deleted	Not Applicable	N/A
REMM	Hydrology and flooding	HF3	<p>Further design refinement at the Clyde stabilising and maintenance facility construction site would occur during detailed design to mitigate the identified potential impacts including:</p> <ul style="list-style-type: none"> • The increases in flood levels of up to 0.03 metres in Duck Creek and adjacent properties in the one per cent AEP flood event • Increases in flow velocities and the potential increased risk of scour at the proposed creek crossings and in the downstream channels • The potential flooding impacts from filled features 	Not Applicable	CSMF
REMM	Hydrology and flooding	HF4	Drainage at construction sites would be designed, where feasible and reasonable, to mitigate potential alterations to local runoff conditions due to construction sites.	Full Compliance	All
REMM	Hydrology and flooding	HF5	Detailed construction planning for The Bays Station construction would aim to minimise changes to existing levels in relation to potential impacts on flood behaviour, along the north-western side of site adjacent to low-lying property, to minimise reduction in floodplain storage.	Not Applicable	TBS
REMM	Hydrology and flooding	HF6	Consultation would occur with the proponent of the Camellia Town Centre redevelopment to understand potential flood impacts from the redevelopment on Stage 1 and to identify any additional flood protection (if required).	Not Applicable	PMS
REMM	Hydrology and flooding	HF7	Construction planning regarding flooding matters would be carried out in consultation with the NSW State Emergency Service and the relevant local	Not Applicable	PMS, CSMF, TBS

			council.		
REMM	Hydrology and flooding	HF8	Detailed construction planning for The Bays Station construction site would aim to avoid conflicts with the potential construction of flood mitigation works in Robert Street, in consultation with Inner West Council.	Not Applicable	TBS
REMM	Biodiversity	B1	During construction, sufficient flow and fish passage would be maintained similar to current conditions during in-stream works where feasible and reasonable.	Full Compliance	CSMF
REMM	Biodiversity	B2	The A'Becketts Creek and Duck Creek crossings would be designed to: <ul style="list-style-type: none"> • Provide sufficient fish passage in accordance with Policy and guidelines for fish habitat conservation and management Update 2013 (DPI (Fisheries NSW) 2013) • Incorporate suitable scour protection • Avoid worsening existing flow velocities downstream from the crossing locations • Incorporate a vegetated riparian zone within the realigned open channel sections where feasible and reasonable. 	Not Applicable	CSMF
REMM	Biodiversity	B3	Additional investigations and assessment would be completed to confirm the potential for impacts to groundwater dependent ecosystems due to groundwater drawdown, and to identify any required mitigation through design.	Not Applicable	WMS, PMS, CMSF, NSMS, BNS, FDS
REMM	Air quality	AQ1	The following best-practice dust management measures would be implemented during all construction works: <ul style="list-style-type: none"> • Regularly wet-down exposed and disturbed areas including stockpiles, especially during dry weather • Adjust the intensity of activities based on measured and observed dust levels and weather forecasts • Minimise the amount of materials stockpiled and position stockpiles away from surrounding receivers • Regularly inspect dust emissions and apply 	Full Compliance	All

			<p>additional controls as required</p> <ul style="list-style-type: none"> • Consider all relevant measures listed in the UK IAQM corresponding to the highest level of risk determined around each Stage 1 construction site. 		
REMM	Air quality	AQ2	<p>Plant and equipment would be maintained in a proper and efficient manner. Visual inspections of emissions from plant would be carried out as part of pre-acceptance checks.</p>	Full Compliance	All
REMM	Air quality	AQ3	<p>The following best-practice odour management measures would be implemented during relevant construction works:</p> <ul style="list-style-type: none"> • The extent of opened and disturbed contaminated soil at any given time would be minimised • Temporary coverings or odour suppressing agents would be applied to excavated areas where appropriate • Regular monitoring would be conducted during excavation to verify that no offensive odours are detected beyond the site boundary. 	Full Compliance	All
REMM	Spoil, waste management and resource use	WR1	<p>All waste would be assessed, classified, managed, transported and disposed of in accordance with the Waste Classification Guidelines and the Protection of the Environment Operations (Waste) Regulation 2014.</p>	Full Compliance	All
REMM	Spoil, waste management and resource use	WR2	<p>A hazardous material survey would be completed for those buildings and structures suspected of containing hazardous or special waste materials (particularly asbestos) prior to their demolition. If hazardous waste or special waste (e.g. asbestos) is encountered, it would be handled and managed in accordance with relevant legislation, codes of practice and Australian standards.</p>	Full Compliance	All
REMM	Spoil, waste management and resource use	WR3	<p>Construction waste would be minimised by accurately calculating materials brought to the site and limiting materials packaging.</p>	Full Compliance	All
REMM	Spoil, waste management and resource use	WR4	<p>Waste streams would be segregated to avoid cross-contamination of materials and maximise reuse and recycling opportunities.</p>	Full Compliance	All

REMM	Reuse on Sydney Metro West sites	WR5	A materials tracking system would be implemented for material transferred between Sydney Metro West sites and to offsite locations such as licensed waste management facilities.	Full Compliance	All
REMM	Hazards	HA1	The method for delivery of explosives would be developed prior to the commencement of blasting (if proposed) in consultation with the Department of Planning, Industry and Environment and be timed to avoid the need for on-site storage.	Not Applicable	All
REMM	Hazards	HA2	Dial before you dig searches and non-destructive digging would be carried out to identify the presence of underground utilities.	Full Compliance	All
REMM	Hazards	HA3	Ongoing consultation would be carried out with utility providers for high pressure gas or petroleum pipelines to identify appropriate construction methodologies to be implemented. Any interaction with high pressure gas or petroleum pipelines would comply with the relevant standards, including AS 2885 Pipelines – Gas and Liquid Petroleum.	Full Compliance	All
REMM	Sustainability and climate change	SCC1	Sustainability initiatives would be incorporated into the detailed design and construction to support the achievement of the Sydney Metro West sustainability objectives.	Full Compliance	All
REMM	Sustainability and climate change	SCC2	Best practice level of performance would be achieved using market leading sustainability rating tools during design and construction.	Not Applicable	All
REMM	Sustainability and climate change	SCC3	Climate change risk treatments would be confirmed and incorporated into the detailed design.	Not Applicable	All
REMM	Sustainability and climate change	SCC4	An iterative process of greenhouse gas assessments and design refinements would be carried out during detailed design and construction to identify opportunities to minimise greenhouse gas emissions. Performance would be measured in terms of a percentage reduction in greenhouse gas emissions from a baseline inventory calculated at the detailed design stage.	Full Compliance	All
REMM	Sustainability and climate change	SCC5	25 per cent of the greenhouse gas emissions associated with consumption of electricity during	Full Compliance	All

			construction would be offset.		
REMM	Occurrence of cumulative impacts	CI1	<p>Co-ordination and consultation with the following stakeholders would occur where required to manage the interface of projects under construction at the same time:</p> <ul style="list-style-type: none"> • Other parts of Transport for NSW including Transport Coordination • Department of Planning, Industry and Environment • Sydney Trains • NSW Trains • Sydney Buses • Sydney Water • Port Authority of NSW • Sydney Motorways Corporation • Emergency service providers • Utility providers • Construction contractors. <p>Co-ordination and consultation with these stakeholders would include:</p> <ul style="list-style-type: none"> • Provision of regular updates to the detailed construction program, construction sites and haul routes • Identification of key potential conflict points with other construction projects • Developing mitigation strategies in order to manage conflicts. Depending on the nature of the conflict, this could involve: <ul style="list-style-type: none"> • Adjustments to the Sydney Metro construction program, work activities or haul routes; or adjustments to the program, activities or haul routes of other construction projects • Co-ordination of traffic management arrangements between projects. 	Full Compliance, except Sydney Metro will establish and lead a forum to co-ordinate and consult with stakeholders. The Principal Contractor would participate in this forum.	All



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2 December 2021

PRA Job No.: PRJ000712 Sydney Metro West - Westmead

Tim Hawkins
Project Manager
83 Bourke Rd, Alexandria, NSW 2015
Email: tim.hawkins@deltagroup.com.au

Dear Tim,

RE: GROUND SURFACE ASBESTOS INVESTIGATION AND ASSESSMENT – SYDNEY METRO WEST - WESTMEAD SITE

Background

Property Risk Australia Pty Ltd (PRA) have been engaged by Delta Group Pty Ltd (Delta), to undertake asbestos fibre air monitoring, visual inspections and clearance inspections during all site establishment works at the Sydney Metro West - Westmead site, on Alexandra Avenue, Westmead NSW 2145.

PRA have been conducting during the site mobilisation works including: installation of fence lines, small structure removal, vegetation clearing, tree removal, and test pit excavation (undertaken by ADE Consulting) to conduct initial site investigations.

PRA have visually assessed the site during the above-mentioned works and have found numerous occurrences of asbestos unexpected finds. This report represents the findings of the unexpected finds across the site.

Scope / Methodology

The visual inspections were conducted by: Derrick Scott (Licenced Asbestos Assessor No.: LAA 2317095 (QLD)), Kathleen Du (Licenced Asbestos Assessor No.: LAA001538), Dennis Liang (Licenced Asbestos Assessor No.: LAA001472), Wayne Duffy and Brendon Phan.

All asbestos inspections were conducted in accordance with the NSW SafeWork Code of Practice *How to Manage and Control Asbestos in the Workplace* (2019) and the site-specific unexpected finds procedure for Sydney Metro West [Delta Ref.: SOP – *Unexpected Discovery of Asbestos and Procedure 37 – Unexpected (Asbestos) Find*]. An Unexpected Finds Asbestos register is presented in **Appendix B**. Please see **Appendix A** for approximate locations of unexpected finds, **Appendix C** for photographs, **Appendix D** for unexpected finds procedure and **Appendix E** for NATA accredited certificates of analysis.



Findings and Risk Assessment

To date there have been 117 confirmed unexpected asbestos finds (see **Appendix A** - Figure 1).

The 117 asbestos unexpected finds were identified by PRA consultants using their experience and knowledge of asbestos containing materials (i.e. visual identification) and sampling. The debris consisted of fibre cement sheeting fragments, electrical backing board fragments and moulded fibre cement roofing fragments. Asbestos debris sizes ranged from $\varnothing \sim 10 - 100\text{mm}$ (see **Appendix C** for photographic examples of asbestos debris).

In addition, representative samples were also taken and placed in double plastic sealed clip-lock bags by PRAs consultants, then transported under a Chain of Custody to PRA's NATA accredited internal laboratory (NATA Accreditation Number 20447.) for secondary confirmation. The samples were analysed using Polarised Light Microscopy and Dispersion Staining Techniques in accordance with Australian Standard (AS) 4964-2004 *Method for the qualitative identification of asbestos in bulk samples* and supplementary in-house method Asbestos in Bulk Material (ASB2). To date, all samples are considered non-friable in nature and were positive for the presence of asbestos. Please see the NATA accredited sample analysis reports in **Appendix E**.

PRA have mapped the unexpected finds across the site (see **Appendix A** – Figure 1) and are of the opinion that non-friable asbestos fibre cement debris contamination is widespread across the ground surface and highly likely to be beneath the ground surface soil throughout the site; minor soil disturbance from vegetation clearing, foot traffic, plant movement, rainfall and run-off erosion are likely to uncover further contamination throughout the site establishment and demolition process.

Conclusion

PRA are of the opinion that there is a high likelihood of recurring non-friable asbestos fibre cement debris contamination throughout the ground surface at the Sydney Metro Westmead site.

Distribution of the contamination within the shallow topsoil (presumably fill material) and the historic prevalent use of asbestos fill material within Western Sydney area indicate that the potential for asbestos debris to be dispersed throughout the soil to be high; therefore, unexpected finds would now be considered expected finds and must be controlled more stringently, particularly as the project transitions from site establishment to demolition and bulk excavation works for the underground Metro railway and station. There is an increased potential for a greater number of site workers to encounter asbestos.

Any ground disturbing activity that will disturb the in-situ asbestos materials present within the soil must be controlled as per *NSW WHS Regulations Chapter 8, Part 8.1 – Clause 419*.

All excavation works and ground penetrating disturbance works must be conducted by or in direct supervision with a Class A or Class B licensed asbestos removal contractor and excavation works should be conducted under asbestos removal conditions.



Recommendations

Asbestos Removal Works

Asbestos materials must be removed in accordance with Chapter 8 – Asbestos, of the *WHS Regulation* and the *Code of Practice: How to Safely Remove Asbestos* (SafeWork NSW, 2019). This is to ensure that workers are not exposed to airborne contaminants that exceed the exposure standards for asbestos as stated in *Workplace Exposure Standards for Airborne Contaminants* (Safe Work Australia, 2019).

Asbestos materials must be removed by licensed removal contractor (Class A Asbestos Removal Licence for friable materials and Class B for non-friable materials). The licensed removal contractor (LARC) must:

- o Notify SafeWork NSW at least five business days before commencement;
- o Ensure removal workers have been appropriately trained and certified for the licence class, provided with information about the health risks of licensed asbestos removal work and trained in site specific risks and the ARCP;
- o Inform the person with management or control of a workplace of the intended asbestos removal work, who will inform all persons at the workplace prior to commencement;
- o Ensure workers are provided with appropriate Personal Protective Equipment (PPE), inclusive of Respiratory Protective Equipment (RPE);
- o Workers must be fit-tested for the provided RPE;
- o All workers directly involved with the asbestos removal process must have the appropriate medical clearance;
- o Ensure the asbestos removalist supervisor is readily available or present when the work is being carried out;
- o Display signs and labels in the asbestos work area;
- o Limit access to the asbestos work area;
- o Ensure appropriate decontamination facilities are in place;
- o Ensure waste contamination and disposal procedures are in place for asbestos and contaminated PPE/RPE;
- o Ensure visual clearance inspections are conducted and clearance certificates are issued by a Licensed Asbestos Assessor (friable) or competent person (non-friable). The Clearance Certificate must be in writing and state the person ‘found no visible asbestos residue from asbestos removal work in the area, or in the vicinity of the area’;
- o Install geofabric where asbestos-containing materials or services remain in-situ when excavation works have reached the required depth. This will act as an indicator that asbestos-containing materials remain in-situ below this level. The installation of geofabric and signage should be conducted by the LARC under the instruction of the onsite Asbestos Assessor. All areas should be noted in the asbestos register finds for the site if to remain in-situ or as assessed by PRA ensuring that all the contaminated material has been removed;
- o Implement dust suppression measures to minimise the potential for airborne dust generation, thus reducing potential inhalation by workers. Dust suppression measures include spraying of haul roads with water by means of water cart, use of hoses for water sprays in dusty work areas etc. Dust suppression should be monitored and improved if necessary;
- o Cover stockpiles when there are high winds predicted and or extended periods of site shut down i.e. long weekends; and



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- o Decontaminate all personnel and plant working within exclusion zone prior to exiting the work area in order to minimise the risk of exposure to hazardous substances and the migration of contamination off site.

Should you have any questions, please do not hesitate to contact the undersigned.

Yours sincerely,

A handwritten signature in black ink, appearing to read "Nigel Johnson".

Nigel Johnson
Occupational Hygienist
(Licenced Asbestos Assessor No. LAA000118)
PROPERTY RISK AUSTRALIA PTY LTD
M: 0457 755 777
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APPENDIX A FIGURE 1





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APPENDIX B UNEXPECTED FINDS ASBESTOS REGISTER



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Table 1: Asbestos Unexpected Finds Register

Date Asbestos Identified or Assumed Present	Unexpected Find No.	Type of Material and Friability	Condition of Material	Specific Location of Identified or Assumed Asbestos	Competent Person	Comments	Area Inaccessible?
15/11/2021	Sample: PRJ000712-W06-AS001	Fibre cement sheet debris (non-friable)	Poor	External, 24 Alexandra Avenue, southern yard, ground surface of test pit	PRA: Brendon Phan	ADE Consulting undertaking test pit works encountered asbestos fibre cement debris on ground surface and within soil subsurface in various locations around site.	No
15/11/2021	Samples: PRJ000712-W10-AS001 & AS002	Fibre cement sheet debris (non-friable)	Poor	External, 29 Alexandra Avenue, ground surface throughout	PRA: Brendon Phan	Ground surface survey undertaken in 29 Alexandra Avenue following clearing of overgrown vegetation. Samples representative of contamination throughout area.	No
16/11/2021 to 19/11/2021	-	Fibre cement sheet debris (non-friable)	Poor	External, 29 Alexandra Avenue and Common Area, ground surface throughout	PRA: Brendon Phan	Removal (hand picking) of asbestos debris from ground surface within Common Area and 29 Alexandra Avenue by ASP (class A LARC) under controlled conditions.	No
20/11/2021	-	-	-	External, 29 Alexandra Avenue and Common Area, ground surface throughout	PRA: Brendon Phan	Visual clearance inspections verified the ground surface was free of visible asbestos contamination. Clearance inspection reports: PRJ000712-W21-ACM001 PRJ000712-W10-ACM001	No



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Date Asbestos Identified or Assumed Present	Unexpected Find No.	Type of Material and Friability	Condition of Material	Specific Location of Identified or Assumed Asbestos	Competent Person	Comments	Area Inaccessible?
22/11/2021	PRA visually identified fifty (50) unexpected finds	Fibre cement sheet debris (non-friable)	Poor	External, 29 Alexandra Avenue and Common Area, ground surface throughout	PRA: Brendon Phan	PRA documented evidence of widespread recurring asbestos contamination following rainfall and erosional events. Asbestos debris was marked to facilitate removal works by ASP.	No
23/11/2021	PRA visually identified eighteen (18) unexpected finds	Fibre cement sheet debris (non-friable)	Poor	External, 29 Alexandra Avenue and Common Area, ground surface throughout	PRA: Brendon Phan	PRA documented evidence of widespread recurring asbestos contamination following rainfall and erosional events. Asbestos debris was marked to facilitate removal works by ASP.	No
23/11/2021	-	Fibre cement sheet debris (non-friable)	Poor	External, 29 Alexandra Avenue and Common Area, ground surface throughout	PRA: Brendon Phan	Removal (hand picking) of asbestos debris from ground surface within Common Area and 29 Alexandra Avenue by ASP (class A LARC) under controlled conditions.	No
23/11/2021	-	-	-	External, 29 Alexandra Avenue and Common Area, ground surface throughout	PRA: Brendon Phan	Visual clearance inspections verified the ground surface was free of visible asbestos contamination. Clearance inspection reports: PRJ000712-W21-ACM002	



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Date Asbestos Identified or Assumed Present	Unexpected Find No.	Type of Material and Friability	Condition of Material	Specific Location of Identified or Assumed Asbestos	Competent Person	Comments	Area Inaccessible?
24/11/2021	PRA identified nine (9) unexpected finds Sample: PRJ000712-W21-AS001	Fibre cement sheet debris (non-friable)	Poor	External, 29 Alexandra Avenue and Common Area, ground surface throughout	PRA: Brendon Phan	Sample PRJ000712-W21-AS001 taken for analysis - representative of contamination throughout Common Area.	No
25/11/2021	PRA identified three (3) unexpected finds	Fibre cement sheet debris (non-friable)	Poor	External, Common Area, ground surface throughout	PRA: Brendon Phan	Visual inspection during site walk. Further asbestos debris found directly in ground surface (particularly areas of higher gradient) following rainfall event. Rain and run-off have washed off soil and uncovered debris that was presumably sitting just below the surface.	No
26/11/2021	PRA identified eight (8) unexpected finds	Fibre cement sheet debris (non-friable)	Poor	External, Common Area, ground surface throughout	PRA: Kathleen Du & Brendon Phan	Visual inspection during site walk. Further asbestos debris found directly in ground surface (particularly areas of higher gradient) following rainfall event. Rain and run-off have washed off soil and uncovered debris that was presumably sitting just below the surface.	No



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Date Asbestos Identified or Assumed Present	Unexpected Find No.	Type of Material and Friability	Condition of Material	Specific Location of Identified or Assumed Asbestos	Competent Person	Comments	Area Inaccessible?
30/11/2021	PRA identified four (4) unexpected finds	Fibre cement sheet debris (non-friable)	Poor	External, Common Area, ground surface throughout	PRA: Wayne Duffy & Brendon Phan	Visual inspection during environmental site walk through the western common area. Asbestos debris was observed directly in ground surface and washed up from a large rainfall event (particularly in areas of higher gradient).	No
01/12/2021	PRA identified twenty-one (21) unexpected finds	Fibre cement sheet debris (non-friable)	Poor	External, 29 Alexandra Avenue and Common Area, ground surface throughout	PRA: Dennis Liang & Brendon Phan	Visual inspection during site walk through the western common area. Asbestos debris was observed directly in ground surface and washed up from a large rainfall event (particularly in areas of higher gradient).	No



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APPENDIX C PHOTOGRAPHS

Table 2: Photographs

	
Photo 1: Ground surface fibre cement debris unexpected find following large rainfall event.	Photo 2: Ground surface fibre cement debris unexpected find following large rainfall event.
	
Photo 3: Ground surface north of 33 Bailey Street – fibre cement debris unexpected finds marked with yellow paint.	Photo 4: Ground surface west of 139 Hawkesbury Road – fibre cement debris unexpected finds marked with yellow paint.
	
Photo 5: Small fragment of asbestos fibre cement approximately 10mm in diameter.	Photo 6: Large fragment of asbestos fibre cement approximately 100mm in diameter.



Photo 7: Ground surface fibre cement debris unexpected find uncovered from rain run-off.



Photo 8: Ground surface fibre cement debris unexpected find uncovered from rain run-off.



Photo 9: Ground surface south-west of 29 Alexandra Avenue - fibre cement debris unexpected finds marked with yellow paint.



Photo 10: Ground surface north of 33 Bailey Street following rainfall event – asbestos debris visible after soil has been washed off surface.



Photo 11: Ground surface north of 33 Bailey Street following rainfall event – debris from previous photo uncovered to confirm asbestos.



Photo 12: Ground surface east of 135 Hawkesbury Road - asbestos debris visible after soil has been washed off surface.



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APPENDIX D UNEXPECTED FINDS PROCEDURE

INTEGRATED MANAGEMENT SYSTEM

UNEXPECTED FIND

Procedure

Contents

1. Scope
2. Key Requirements
3. Definitions
4. Authority
5. Unexpected (Asbestos) Find
6. Notification
7. Wildlife
8. Reference

1. Scope

This procedure is to provide advice to an unidentified and unexpected (situation) find/s in the workplace, to ensure that unexpected finds (e.g. asbestos) are controlled and managed so as to prevent harmful effects to personnel from short-term irritation to long-term health effects.

2. Key Requirements

This procedure shall apply to all operations performed on Demolition/Civil sites where Delta has responsibility for unexpected finds.

3. Definitions

Asbestos-related	Any material, object, product or debris that contains asbestos.
<i>Foreman - Supervisor Project manager</i>	Also means contractor and sub-contractor
<i>Asbestos Removal</i>	Asbestos removal work requires the appointment of a Principal Contractor. Asbestos removal work is a high-risk construction activity.
<i>Asbestos Material Report</i>	A report by an appropriately qualified person which states: <ul style="list-style-type: none"> • Where and what the types of materials that were found; • The form of the materials. • The condition of the material (i.e. friable, poorly bonded, unstable). • The potential health risks to building occupants.
<i>Asbestos Register</i>	A register that must be kept by the owner of the building and which must: <ul style="list-style-type: none"> • Contain information, including any changes/updates, from the Asbestos Material Report. • Be available for inspection by any person requiring inspection. • Be available to all maintenance/building contractors. • Be available to any contractors.
<i>Bonded ACM (B class)</i>	When asbestos fibers are bonded in another material, such as cement or resin binder, it is known as bonded ACM. Bonded ACM cannot be crumbled, pulverised or reduced to a powder by hand pressure when dry. Asbestos cement (AC) sheeting is the most common form of bonded ACM in buildings.
<i>Friable ACM (A class)</i>	Some materials containing asbestos are potentially more hazardous than others. These materials are described as friable which means they crumble easily and have the potential to release asbestos fibres into the air. When dry, friable ACM can be crumbled, pulverised or reduced to powder by hand pressure. It is this friability that releases asbestos fibers into the atmosphere and increases the risk of exposure. For example, sprayed-on fireproofing is considered a friable ACM as it is very easily crumbled to a powder.
Competent person	A competent person is a person who possesses adequate qualifications, such as suitable training and sufficient knowledge, experience or skill, to perform a specific task safely.
Unidentified and or Unexpected find	A sudden unexpected event, (unidentified material) including work required by non-routine failures of equipment, that may result in persons being exposed to unidentified or hazardous materials including airborne asbestos fibres. Unexpected also means unidentified and vice versa

4. Authority

National QSE Manager

- Approve this procedure
- Oversee this procedure

5. Unexpected (Asbestos) Find

Subject	Action Steps	Responsible
Procedural steps to follow when an unexpected find occurs	<p>In an unexpected situation, the demolisher must cease work in the immediate vicinity of the unexpected find and report their findings to their supervisor. The unexpected find area should be barricaded off until the unexpected find sample can be verified. Turn off fans and air-conditioners and seal ducts and vents to prevent the spread of any dust, use water spray to dampen the unexpected find clothing considered affected by airborne particles should remove their outer clothing and place clothing in a 200-micron thick plastic bag marked asbestos waste, the bag should be goose-neck wrapped for disposal to an asbestos approved collection site. An employer or self-employed person must not remove from a workplace protective clothing contaminated with asbestos unless the clothing is—</p> <p>(a) disposed of—</p> <p>(i) as soon as is reasonably practicable; and</p> <p>(ii) in an appropriate manner that eliminates the release of airborne asbestos fibres; and</p> <p>(iii) at a waste disposal site licensed by the Environment Protection Authority; or</p> <p>(b) laundered at a commercial laundry and for that purpose the clothing is contained so as to eliminate the release of airborne asbestos fibres and the exterior of the container—</p> <p>(i) is decontaminated before being removed from the work area; and</p> <p>(ii) indicates the presence of asbestos before the clothing is transferred to the laundry.</p> <p>Sampling should be arranged for a competent person to take a sample of the material and have it analysed by a National Association of Testing Authorities (NATA) accredited laboratory.</p>	Project Manager
Procedural steps to follow when an unexpected find occurs, continued	<p>In an unexpected find situation, the contractor involved in the work must not later than 24 hours after identifying the asbestos removal work, notify the Authority of the unexpected find.</p> <p>A notification must be in writing and include the information below:</p> <ol style="list-style-type: none"> 1. The name, registered business name, Australian Business Number, licence number and contact details of the licence holder. 2. The name of the supervisor who will oversee the asbestos removal work and the supervisor's contact details. 3. The client name and contact details. 4. The name, including registered business or corporate name, and address of the workplace and type of workplace where the asbestos removal work will be performed including the specific location if it is a large workplace. 5. The date of notification. 	Project Manager Operations Manager

Subject	Action Steps	Responsible
Procedural steps to follow when an unexpected find occurs, continued	<p>6. The commencement date and estimated duration of the asbestos removal work.</p> <p>7. Whether the asbestos is friable asbestos-containing material or non-friable asbestos-containing material.</p> <p>8. If friable asbestos-containing material is to be removed, details of the way that the area where the asbestos removal work is to be performed will be enclosed.</p> <p>9. The type of asbestos-containing material.</p> <p>10. The estimated quantity of asbestos to be removed.</p> <p>11. The number of employees who will perform the asbestos removal work.</p> <p>12. Details of training and experience of those individual employees, if different to the information notified previously.</p> <p>13. The date of any asbestos register or employer's asbestos register used to prepare the asbestos control plan.</p> <p>The Authority may vary the notification requirements by including a specific condition in a licence with respect to the notification. Additionally, the Project Manager and the Operations Manager must inform the National QSE Manager</p>	Project Manager Operations Manager
Limited asbestos removal work without licence permitted	An employer or self-employed person may perform asbestos removal work in relation to non-friable asbestos-containing material if— <ul style="list-style-type: none"> (a) the area of asbestos-containing material to be removed does not exceed 10 square metres in total; and (b) the total time over which asbestos removal work is performed in any period of 7 days does not exceed 1 hour. 	Project Manager
Duty to inform	An employer at a workplace must, before asbestos removal work commences at the workplace, inform employees in the immediate and adjacent areas of the workplace of the proposed removal work.	Project Manager
Identification of asbestos-related activities	An employer must identify whether an asbestos-related activity is being carried out at the employer's workplace.	Project Manager
Uncertainty as to presence of asbestos	If there is uncertainty (based on reasonable grounds) as to whether an activity is an asbestos-related activity, the employer must— <ul style="list-style-type: none"> • assume that asbestos is present; or • arrange for analysis of a sample to be undertaken 	Project Manager
Asbestos register must be obtained	<p>If any asbestos-related activities are carried out at an employer's workplace, the employer must obtain—</p> <ul style="list-style-type: none"> • a copy of the asbestos register in relation to the activities; or • if there are other employers at the workplace where the activities are carried out, a copy of the employer's asbestos register of each of those other employers <p>The relevant asbestos-related activities are:</p> <ul style="list-style-type: none"> • research involving asbestos • sampling or analysis involving suspected asbestos • the enclosing or sealing of asbestos • hand drilling and cutting of asbestos-containing material 	Project Manager

Subject	Action Steps	Responsible
	<ul style="list-style-type: none"> • any other activity that is likely to produce airborne asbestos fibres • any other activity determined by the Authority 	
Specific measures to control risk	<ol style="list-style-type: none"> 1. An employer must ensure that any risk associated with an asbestos-related activity is eliminated so far as is reasonably practicable. 2. If it is not reasonably practicable to eliminate a risk associated with an asbestos-related activity, an employer must ensure that the risk is reduced so far as is reasonably practicable by— <ul style="list-style-type: none"> • isolation; or • using engineering controls; or • combination of both 3. If an employer has complied with the (1) and (2) so far as is reasonably practicable and a risk associated with an asbestos-related activity remains, the employer must, so far as is reasonably practicable, use administrative controls to reduce the risk. 4. If an employer has complied with (1), (2) and (3) so far as is reasonably practicable and a risk associated with an asbestos-related activity remains, the employer must reduce the risk by providing personal protective equipment to employees at risk. 5. If an employer provides personal protective equipment under measurement (4), the employer must ensure that— <ul style="list-style-type: none"> • the person carrying out the asbestos-related activity is provided with— <ul style="list-style-type: none"> ○ appropriate personal protective clothing that is suitable for the activity being carried out ○ appropriate respiratory protective equipment that is suitable for the activity being carried out; and • the clothing and equipment provided are correctly fitted 	Project Manager
Specific measures to control risk, continued	<p>An employer must ensure that any measures implemented to control a risk associated with an asbestos-related activity are reviewed and, if necessary, revised:</p> <ol style="list-style-type: none"> a) before any alteration is made to systems of work related to the activity that is likely to result in any increased risk to health or safety; or b) after any incident occurs that involves an asbestos-related activity; or c) if, for any other reason, the risk control measures do not adequately control the risks; or d) after receiving a request from a health and safety representative <p>A health and safety representative may make a request if the health and safety representative believes on reasonable grounds that—</p> <ul style="list-style-type: none"> • any of the circumstances above (a, b, and c) exists; or • the employer has failed— <ul style="list-style-type: none"> ○ to properly review risk control measures ○ to take account of any of the circumstances above (a, b, c) in conducting a review of, or revising, the risk control measures 	Project Manager
Review of risk control measures	<p>An employer must ensure that any measures implemented to control a risk associated with an asbestos-related activity are reviewed and, if necessary, revised:</p> <ol style="list-style-type: none"> a) before any alteration is made to systems of work related to the activity that is likely to result in any increased risk to health or safety; or b) after any incident occurs that involves an asbestos-related activity; or c) if, for any other reason, the risk control measures do not adequately control the risks; or d) after receiving a request from a health and safety representative <p>A health and safety representative may make a request if the health and safety representative believes on reasonable grounds that—</p> <ul style="list-style-type: none"> • any of the circumstances above (a, b, and c) exists; or • the employer has failed— <ul style="list-style-type: none"> ○ to properly review risk control measures ○ to take account of any of the circumstances above (a, b, c) in conducting a review of, or revising, the risk control measures 	Project Manager
Work area to be separate and signed	<p>An employer must ensure that the work area used for an asbestos-related activity—</p> <ul style="list-style-type: none"> • is kept separate from any other work area • so far as is reasonably possible, has appropriately placed signs and barricades that indicate the area where the activity is being carried out 	Project Manager

Subject	Action Steps	Responsible
Work area to be kept clean	<p>An employer must, so far as is reasonably practicable, ensure that the work area used for an asbestos-related activity is kept clean.</p> <p>An employer must ensure that the methods used to clean the work area—</p> <ul style="list-style-type: none"> • do not create a risk to health • do not have the potential to spread airborne asbestos fibres beyond the work area 	Foreman Supervisor Project Manager
Medical examinations	<p>Following exposure to an unexpected find and before arranging a medical examination Delta will await the hygienist report results of the substance. If asbestos is confirmed the employer then has 30 days to arrange an appropriate medical examination to be conducted by a registered medical practitioner for each employee who is considered to have been exposed to ACM dust (airborne particulate) and or, employees engaged in ongoing asbestos-related activities if there is a risk of exposure to airborne asbestos fibres above one half of the asbestos exposure standard. Direction for this task is administered through the National QSE Manager.</p>	
Medical examinations, continued	<p>The purpose of the medical examination is to monitor the employee's health for the purpose of identifying changes in the employee's health status to occupational exposure to asbestos due to an unexpected find (or other).</p> <p>Respiratory protective equipment must not be considered in establishing whether there is a risk of exposure to airborne asbestos fibres above one half of the asbestos exposure standard.</p> <p>An employer must ensure that atmospheric monitoring at the workplace is provided if there is uncertainty (based on reasonable grounds) as to whether a medical examination may be required under this Division.</p> <p>An employer must ensure that medical examinations are provided to an employee—</p> <ul style="list-style-type: none"> • at intervals of not more than 2 years • within 30 days after the employee has ceased an asbestos-related activity (unexpected find), unless the employee has had a medical examination within the preceding year <p>The duties of an employer in relation to medical examinations extend to an independent contractor.</p>	QSE Supervisor Project Manager
Results of atmospheric monitoring to be made available	An employer must ensure that copies of the results of atmospheric monitoring are accessible to the health and safety representative of any affected designated work group and to the affected employees.	Supervisor Project manager
Notice of medical practitioner	The employer must notify the Authority in writing within 7 days of the name and contact details of the registered medical practitioner the employer has engaged to undertake medical examinations.	Supervisor Project manager
Exposure to asbestos	Details of persons exposed to asbestos at the workplace will be registered with the Australian Government Asbestos Safety and Eradication Agency http://www.asbestossafety.gov.au/	RTW Coordinator
Results of medical examination	<p>An employer must ensure that a summary of results of a medical examination indicating whether an asbestos-related disease exists and the employee's fitness for asbestos-related activities is provided to the employer by the registered medical practitioner.</p> <p>The employer must retain a copy of the summary of results:</p> <ul style="list-style-type: none"> • a period (not exceeding 30 years) determined by the Authority 	Supervisor Project manager

Subject	Action Steps	Responsible
	<ul style="list-style-type: none"> • if no period has been determined by the Authority, 30 years 	
Decontamination facilities	<p>An employer carrying out an asbestos-related activity must ensure that a person does not remove personal protective clothing or personal protective equipment that is likely to be contaminated with asbestos from the work area used for the asbestos-related activity unless the clothing or equipment is decontaminated or contained before its removal.</p>	Supervisor Project manager
Decontamination facilities, continued	<p>An employer carrying out an asbestos-related activity must ensure that any equipment (other than personal protective equipment) that is used for the asbestos-related activity and that is likely to be contaminated with asbestos is—</p> <ul style="list-style-type: none"> • decontaminated before removal from the work area used for the asbestos-related activity • placed in a sealed container, the exterior of which is decontaminated before the container is removed from the work area used for the asbestos-related activity 	
Waste containment	<p>An employer carrying out an asbestos-related activity must ensure that—</p> <ul style="list-style-type: none"> • any asbestos derived from or associated with the activity, and that is no longer required in connection with the activity, is contained so as to eliminate the release of airborne asbestos fibres • the exterior of the container— <ul style="list-style-type: none"> ○ is decontaminated before being removed from the work area used for the activity ○ indicates the presence of asbestos 	Foreman Supervisor Project manager
Disposal of asbestos waste	<p>An employer carrying out an asbestos-related activity must ensure that asbestos waste is—</p> <ul style="list-style-type: none"> • disposed of as soon as is reasonably practicable • disposed of in an appropriate manner that eliminates the release of airborne asbestos fibres • disposed of at a waste disposal site licensed by the Environment Protection Authority 	Foreman Supervisor Project manager
Laundering of clothing contaminated with asbestos	<p>An employer carrying out an asbestos-related activity must provide for the laundering of personal protective clothing that is used for an asbestos-related activity and that is likely to be contaminated with asbestos and that is not contained and disposed. If the employer arranges for personal protective clothing that is likely to be contaminated with asbestos to be laundered at a commercial laundry, the employer must ensure that—</p> <ul style="list-style-type: none"> • the clothing is contained so as to eliminate the release of airborne asbestos fibres; and • the exterior of the container— <ul style="list-style-type: none"> ○ is decontaminated before being removed from the work area; and ○ indicates the presence of asbestos before the clothing is transferred to the laundry 	Project manager
Provision of information to job applicants	<p>An employer must provide each applicant who applies for employment with the employer to carry out an asbestos-related activity with information about the nature of the hazard and the risks associated with exposure to airborne asbestos fibres.</p>	Project Manager

Subject	Action Steps	Responsible
Training record	An employer must make a record of training provided in relation to carrying out asbestos-related activities and retain that record for so long as it is applicable	QSE Manager Project Manager

6. Notification

A sudden, unexpected find, including work required by non-routine failures of equipment, that may result in persons being exposed to airborne asbestos fibres; or an unexpected breakdown of an essential service (including gas, water, sewerage, electricity and telecommunications) that requires immediate rectification to enable continuance of that service. In an unexpected situation, the asbestos licence holder must, not later than 24 hours after commencing asbestos removal work, notify the Authority of the removal work in accordance with legislation.

7. Wildlife

Subject	Action Steps	Responsible
Wildlife and Protected species	<p>Kangaroo: If the kangaroo approaches, turn your body sideways, exposing a narrow profile to the animal and protecting your face and organs. Raise your hands and lean your head away from the animal to minimize the chances of being scratched across the face by the kangaroo's nasty claws. Retreat, but do not turn your back and run.</p> <p>Snake: If you discover a snake, do not approach it closely. If you step on a snake or are very close to a snake then move away quickly. If the snake is only about a meter away, freeze at first and see the snakes' reaction - it will likely look for an escape route. If it is cornered, back away slowly.</p> <p>Bats: Do not be alarmed. Like most wild animals, bats are shy. You are advised to leave bats alone. They will fly away after they have done feeding. As bats are drawn to fruit trees such as Chiku (Manilkara zapota), especially when they are fruiting, residents are advised to harvest the fruits within their premises. Bats are shy and will usually not attack humans unless they feel threatened or are attacked. You are advised to leave bats alone, they will usually fly off after feeding. To discourage bats from visiting your property, install bright outdoor lights as they prefer dark places.</p> <p>Fox: If you encounter a fox or dingo who does not immediately run away, make some noise. Yell, clap your hands, wave your arms, stomp your feet—make your presence felt, but do not approach or chase the animal.</p> <p>Bull: Use your common sense and instincts when handling or walking in a pasture with a bull in it, to avoid getting charged at the bull, do not instigate him nor tease him. Climb the nearest tree if you can, if you are or end up in a treed area, try to keep a large tree between you and the bull and stay close to the fence.</p> <p>Pigeons: Pigeons are a problem because their droppings stain buildings and public amenities. They can also spread diseases to humans. In some areas, you can be fined for feeding pigeons. If you have a problem with pigeons in your neighbourhood or home, contact your town council or estate manager. You can also hire a pest control company.</p>	Project Management Team

8. Reference

OHS/OSH/WHS Act - OHS/OSH/WHS Regulations
Australian Standard 1319: 1994 Safety Signs for the Occupational Environment
Australia/New Zealand Standard 1715: 1994 Selection Use and Maintenance of Respiratory Protective Devices
Australia/New Zealand Standard 1716: 2003 Respiratory Protective Devices
Australian Standard 3544: 1988 Industrial Vacuum Cleaners for Particulates Hazardous to Health
Australian Standard 4260: 1997 High Efficiency Particulate Air (HEPA) Filters – Classification, Construction and Performance
WorkSafe Australia - Code of Practice for the Safe Removal of Asbestos NOHSC: 2002 (2005).
WorkSafe Australia - Code of practice for the Management and Control of Asbestos in Workplaces [NOHSC: 2018 (2005)] AS 2601-2001 Demolition of Structures
Environmental Protection Act
Environmental Protection Regulations
Planning and Development Act
Public Health Act
Managing Asbestos in Workplaces Compliance Code (VWA)
Removing Asbestos in Workplaces Compliance Code (VWA)
Coveralls used for Asbestos Removal (VWA)
Asbestos-A Handbook for Workplaces (VWA)
Asbestos Removal Application Package (VWA)
Notification of Asbestos Removal (VWA)
COP for the safe removal of asbestos (NOHSC)
COP for the management & control of asbestos in workplaces (NOHSC)
COP How to safely remove asbestos in the workplace (QLD)
COP How to safely remove asbestos (NSW)
COP How to manage and control asbestos in the workplace (SA)

National QSE Manager: 0409 754 114



GROUND SURFACE ASBESTOS INVESTIGATION AND ASSESSMENT
SYDNEY METRO WEST - WESTMEAD

APPENDIX E NATA ACCREDITED LABORATORY CERTIFICATES OF ANALYSIS



Property Risk Australia Pty Ltd
ABN:65 611 579 223
PO BOX 95, Mascot NSW 1460
www.propertyrisk.com.au

Certificate of Analysis
Asbestos Fibre Identification Report

PRA Ref:	PRJ000712_W06_AS001_V1	Report Date:	16/11/2021
Client Name:	Delta Group	Client Contact:	David Mullane
Client Address:	83 Bourke Rd, Alexandria NSW 2015		
Site Address:	24 Alexandra Avenue, Westmead NSW 2145		
Sampled By:	Brendon Phan	Sampled Date:	15/11/2021
No. of Samples:	1	Received Date:	15/11/2021

Method

Qualitative identification for asbestos fibre in bulk samples using Polarised Light Microscopy and dispersion staining techniques including synthetic mineral fibre (SMF) and organic fibre as per Australia Standard 4964-2004 and supplementary in-house method Asbestos in Bulk Material (ASB2). The practical detection limit for this techniques is 0.01 - 0.1% equivalent to 0.1 - 1g/kg.

Due to nature of asbestos in bulk material such as vinyl, resins, mastic and caulking , asbestos may be difficult to detect (as per AS 4964 Note). Confirmation by independent analytical technique may be required.

Samples were analysed by Approved Identifier Aida Marner on 16/11/2021 at the PRA Base Laboratory at Unit 24, 34-36 Ralph Street, Alexandria, NSW, 2015.

Measurement of Uncertainty:	Due to the qualitative nature of the methodology relating to the identification of asbestos in bulk samples, an estimation of uncertainty of measurement cannot be performed.
Disclaimer:	The results within this report relate only to the sampling locations specified and their analysis. This report shall not be reproduced, except in full. Sections of this report denoted with an asterisk (*) are not covered by the NATA accreditation. When samples are analysed 'As Received', PRA accepts no responsibility for the initial collection, packing or transportation of samples submitted by client.

Technical Review By:

Approved Identifier: Aida Marner

Approved By:

Approved Signatory: Paul Ching

Samples are routinely disposed of approximately 3 months from receipt. Request for longer term sample storage must be received in writing.



NATA Accreditation Number: 20477
Accredited for compliance with ISO/IEC 17025 - Testing



Certificate of Analysis
Asbestos Bulk Identification Report

PRA Ref:	PRJ000712_W06_AS001_V1	Date of Analysis:	16/11/2021	
Site Address:	24 Alexandra Avenue, Westmead NSW 2145			
Sample No.	Sample Location	Sample Size (mm) or Weight (g) and Description	Result	Trace Analysis Result
PRJ000712_W06_AS001	External, 24 Alexandra Avenue, southern yard, within excavated pit	3.89g Beige compressed fibre cement material	Chrysotile asbestos detected, Amosite asbestos detected, Organic fibre detected	-

- Shaded row indicates positive result for asbestos



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Certificate of Analysis
Asbestos Fibre Identification Report

PRA Ref:	PRJ000712_W10_AS001-AS003_V1	Report Date:	16/11/2021
Client Name:	Delta Group	Client Contact:	David Mullane
Client Address:	83 Bourke Rd, Alexandria NSW 2015		
Site Address:	29 Alexandra Avenue, Westmead NSW 2145		
Sampled By:	Brendon Phan	Sampled Date:	15/11/2021
No. of Samples:	3	Received Date:	16/11/2021

Method

Qualitative identification for asbestos fibre in bulk samples using Polarised Light Microscopy and dispersion staining techniques including synthetic mineral fibre (SMF) and organic fibre as per Australia Standard 4964-2004 and supplementary in-house method Asbestos in Bulk Material (ASB2). The practical detection limit for this techniques is 0.01 - 0.1% equivalent to 0.1 - 1g/kg.

Due to nature of asbestos in bulk material such as vinyl, resins, mastic and caulking , asbestos may be difficult to detect (as per AS 4964 Note). Confirmation by independent analytical technique may be required.

Samples were analysed by Approved Identifier Aida Marner on 16/11/2021 at the PRA Base Laboratory at Unit 24, 34-36 Ralph Street, Alexandria, NSW, 2015.

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Technical Review By:

Approved Identifier: Aida Marner

Approved By:

Approved Signatory: Paul Ching

Samples are routinely disposed of approximately 3 months from receipt. Request for longer term sample storage must be received in writing.



NATA Accreditation Number: 20477
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Certificate of Analysis
Asbestos Bulk Identification Report

PRA Ref:	PRJ000712_W10_AS001-AS003_V1	Date of Analysis:	16/11/2021	
Site Address:	29 Alexandra Avenue, Westmead NSW 2145			
Sample No.	Sample Location	Sample Size (mm) or Weight (g) and Description	Result	Trace Analysis Result
PRJ000712_W10_AS001	External, 29 Alexandra Ave, north-east side, ground surface	15.71g Beige compressed fibre cement material	Chrysotile asbestos detected, Amosite asbestos detected, Crocidolite asbestos detected	-
PRJ000712_W10_AS002	External, 29 Alexandra Ave, east side, ground surface	14.43g Brown fibre cement material	Chrysotile asbestos detected, Organic fibre detected	-
PRJ000712_W10_AS003	External, 29 Alexandra Ave, south-east side, adjacent shed, ground surface	7.22g Brown vinyl sheeting	No asbestos detected, Organic fibre detected	No asbestos detected

- Shaded row indicates positive result for asbestos



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Certificate of Analysis
Asbestos Fibre Identification Report

PRA Ref:	PRJ000712_W21_AS001_V1	Report Date:	24/11/2021
Client Name:	Delta Group	Client Contact:	Tim Hawkins
Client Address:	83 Bourke Rd, Alexandria NSW 2015		
Site Address:	Alexandra Avenue, Westmead NSW 2145		
Sampled By:	Brendon Phan	Sampled Date:	24/11/2021
No. of Samples:	1	Received Date:	24/11/2021

Method

Qualitative identification for asbestos fibre in bulk samples using Polarised Light Microscopy and dispersion staining techniques including synthetic mineral fibre (SMF) and organic fibre as per Australia Standard 4964-2004 and supplementary in-house method Asbestos in Bulk Material (ASB2). The practical detection limit for this techniques is 0.01 - 0.1% equivalent to 0.1 - 1g/kg.

Due to nature of asbestos in bulk material such as vinyl, resins, mastic and caulking , asbestos may be difficult to detect (as per AS 4964 Note). Confirmation by independent analytical technique may be required.

Samples were analysed by Approved Identifier Paul Ching on 24/11/2021 at the PRA Base Laboratory at Unit 24, 34-36 Ralph Street, Alexandria, NSW, 2015.

Measurement of Uncertainty:	Due to the qualitative nature of the methodology relating to the identification of asbestos in bulk samples, an estimation of uncertainty of measurement cannot be performed.
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Technical Review By:	Approved By:

Samples are routinely disposed of approximately 3 months from receipt. Request for longer term sample storage must be received in writing.



NATA Accreditation Number: 20447
Accredited for compliance with ISO/IEC 17025 - Testing



Certificate of Analysis
Asbestos Bulk Identification Report

PRA Ref:	PRJ000712_W21_AS001_V1	Date of Analysis:	24/11/2021	
Site Address:	Alexandra Avenue, Westmead NSW 2145			
Sample No.	Sample Location	Sample Size (mm) or Weight (g) and Description	Result	Trace Analysis Result
PRJ000712-W21-AS001	External, common yard area between 27 Alexandra Avenue and 37 Bailey Street, ground surface, debris	12.81g Grey compressed fibre cement material	Chrysotile asbestos detected	-

- Shaded row indicates positive result for asbestos



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21 November 2021

PRA Job No.: PRJ000712-W10_ASAR_001_V1

Timothy Hawkins
Project Manager
Delta Group
83 Bourke Road,
Alexandria NSW 2015

Email: tim.hawkins@deltagroup.com.au

ASBESTOS MATERIALS BULK SAMPLE ANALYSIS REPORT – 29 ALEXANDRA AVENUE, WESTMEAD, NSW 2145

Property Risk Australia (PRA) were engaged by Tim Hawkins of Delta Group Pty Ltd (the client) to attend site at 29 Alexandra Avenue, Westmead, NSW 2145 and undertake bulk sampling of suspected asbestos-containing material/s (ACM) in the following location:

- o External, 29 Alexandra Avenue (vacant land), ground surface throughout.

Methodology

Brendon Phan of PRA, conducted an inspection of the client specified areas on 15 November 2021 and 3 (three) samples were collected in accordance with the requirements of the NSW *Code of Practice: How to Manage and Control Asbestos in The Workplace* (SafeWork NSW, 2019) and PRA's in-house procedure QSE-3M. The sample/s were placed in plastic sealed clip-lock bags and transported under Chain of Custody to PRA's NATA accredited laboratory facility. The samples were analysed using PRA's in-house test method ASB-2 an in accordance with Australian Standard (AS) 4964-2004 *Method for the qualitative identification of asbestos in bulk samples*.

Accreditation	NATA Accreditation Number 20447.
Inspection Body	Accredited for compliance with ISO/IEC 17020



Findings

Asbestos was identified in 2 (two) of the samples collected. Refer to **Tables 1 and 2** for bulk sample results, **Figure 1** for sample locations and **Appendix A** for the Laboratory Certificate of Analysis.

Table 1:

Asbestos-containing materials

Sample No.: PRJ000712-W10-AS001	
	Asbestos Detected: Yes
	Friability: Non-Friable
	Location: External
29 Alexandra Avenue, north-east side, ground surface, fibre cement debris.	
	Extent Throughout
Sample No.: PRJ000712-W10-AS002	
	Asbestos Detected: Yes
	Friability: Non-Friable
	Location: External
29 Alexandra Ave, east side, ground surface, fibre cement debris. Note: Localised area adjacent eastern fence shows signs of burning and charred material. Material remains non-friable.	
	Extent Throughout

Table 2:

Materials with no asbestos detected

Sample No.: PRJ000712-W10-AS002	
	Asbestos Detected: No
	Location: Internal
29 Alexandra Avenue, south-east side adjacent shed, ground surface, vinyl sheeting debris.	
	Extent ~1 sqm



Site Boundary	
Sample locations - asbestos-containing materials (approximate)	
Sample locations – no asbestos detected (approximate)	
Sample reference number	

Source: Nearmap accessed 17/11/2021

Figure 1: Sample locations



ASBESTOS BULK SAMPLE ANALYSIS REPORT
9-11 HASSALL STREET, WESTMEAD NSW 2145

Recommendations

The findings should be incorporated into the site asbestos register and all ACM should be managed in accordance with the site Asbestos Management Plan (AMP), the recommendations provided and Code of Practice: How to Manage and Control Asbestos in the Workplace (SafeWork NSW, 2019).

WHS Regulation 2017 clause 425 states that a person with management or control of a workplace must ensure an asbestos register is prepared and kept at the workplace. If asbestos or ACM is identified then an AMP should be developed for the site (WHS Regulation 2017 clause 429).

ACM should be removed prior to any demolition or major refurbishment works that may disturb them in accordance with the Code of Practice: How to Safely Remove Asbestos (SafeWork NSW, 2019).

Should you have any questions, please do not hesitate to contact the undersigned.

Technical review by	Approved by
 Brendon Phan (Consultant) M: 0437 277 286 E: brendon.phan@propertyrisk.com.au Date: 20 November 2021	 Derrick Scott (Technical Manager) LAA No. 2371095 (QLD) M: 0416 729 634 E: derrick.scott@propertyrisk.com.au Date: 21 November 2021



ASBESTOS BULK SAMPLE ANALYSIS REPORT
9-11 HASSALL STREET, WESTMEAD NSW 2145

APPENDIX A LABORATORY CERTIFICATE OF ANALYSIS



Property Risk Australia Pty Ltd
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Certificate of Analysis
Asbestos Fibre Identification Report

PRA Ref:	PRJ000712_W10_AS001-AS003_V1	Report Date:	16/11/2021
Client Name:	Delta Group	Client Contact:	David Mullane
Client Address:	83 Bourke Rd, Alexandria NSW 2015		
Site Address:	29 Alexandra Avenue, Westmead NSW 2145		
Sampled By:	Brendon Phan	Sampled Date:	15/11/2021
No. of Samples:	3	Received Date:	16/11/2021

Method

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Due to nature of asbestos in bulk material such as vinyl, resins, mastic and caulking , asbestos may be difficult to detect (as per AS 4964 Note). Confirmation by independent analytical technique may be required.

Samples were analysed by Approved Identifier Aida Marner on 16/11/2021 at the PRA Base Laboratory at Unit 24, 34-36 Ralph Street, Alexandria, NSW, 2015.

Measurement of Uncertainty:	Due to the qualitative nature of the methodology relating to the identification of asbestos in bulk samples, an estimation of uncertainty of measurement cannot be performed.
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Technical Review By:

Approved Identifier: Aida Marner

Approved By:

Approved Signatory: Paul Ching

Samples are routinely disposed of approximately 3 months from receipt. Request for longer term sample storage must be received in writing.



NATA Accreditation Number: 20477
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Certificate of Analysis
Asbestos Bulk Identification Report

PRA Ref:	PRJ000712_W10_AS001-AS003_V1	Date of Analysis:	16/11/2021	
Site Address:	29 Alexandra Avenue, Westmead NSW 2145			
Sample No.	Sample Location	Sample Size (mm) or Weight (g) and Description	Result	Trace Analysis Result
PRJ000712_W10_AS001	External, 29 Alexandra Ave, north-east side, ground surface	15.71g Beige compressed fibre cement material	Chrysotile asbestos detected, Amosite asbestos detected, Crocidolite asbestos detected	-
PRJ000712_W10_AS002	External, 29 Alexandra Ave, east side, ground surface	14.43g Brown fibre cement material	Chrysotile asbestos detected, Organic fibre detected	-
PRJ000712_W10_AS003	External, 29 Alexandra Ave, south-east side, adjacent shed, ground surface	7.22g Brown vinyl sheeting	No asbestos detected, Organic fibre detected	No asbestos detected

- Shaded row indicates positive result for asbestos



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info@ade.group www.ade.group

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