POWERHOUSE PARRAMATTA ENVIRONMENTAL IMPACT STATEMENT

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APPENDIX L DETAILED SITE INVESTIGATION

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Detailed Site Investigation

Infrastructure NSW Powerhouse Parramatta, Phillip Street Parramatta NSW

3 April 2020 58352/128673 (Rev 0) JBS&G Australia Pty Ltd

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Abbreviations

Term	Definition
ACM	Asbestos Containing Material
AEC	Area of Environmental Concern
AHD	Australian Height Datum
bgs	Below Ground Surface
BTEX	Benzene, toluene, ethylbenzene and xylenes
B(a)P	Benzo(a)pyrene
COC	Chain of Custody
COPC	Contaminants of Potential Concern
CSM	Conceptual Site Model
DPIE	Department of Planning, Industry and Environment
DQI	Data Quality Indicator
DQOs	Data Quality Objectives
ESA	Environmental Site Assessment
EPA	Environmental Protection Authority
ha	Hectare
HIL	Health based Investigation level
HSL	Health Screening Level
JBS&G	JBS&G Australia Pty Ltd
LOR	Limit of Reporting
MAAS	Museum of Applied Arts and Sciences
NATA	National Association of Testing Authority
OCP	Organochlorine Pesticides
OEH	Office of Environment and Heritage
PAHs	Polycyclic Aromatic Hydrocarbons
PCB	Polychlorinated Biphenyl
PID	Photo – Ionisation Detector
QA/QC	Quality Assurance/Quality Control
RPD	Relative Percentage Difference
SAQP	Sampling, Analysis and Quality Plan
SEARs	Secretary's Environmental Assessment Requirements
TCLP	Toxicity Characteristic Leaching Procedure
TE	Telstra Exchange
TEQ	Toxicity Equivalent Quotient
ТРН	Total Petroleum Hydrocarbons
TRH	Total Recoverable Hydrocarbon
UCL	Upper Confidence Limit
VOC	Volatile Organic Compound



Executive Summary

JBS&G Australia Pty Ltd (JBS&G) was engaged by Infrastructure NSW (the client) to conduct a Detailed Site Investigation (DSI) of potential contamination at the proposed future location of the Museum of Applied Arts and Sciences (also referred to as the future Powerhouse Parramatta) at Philip Street, Parramatta NSW (the site). The total site is legally identified as Lot 1 and Lot 2 in DP1247122 and Lot 1 in DP128476 and occupies an area of approximately 2.5 hectares (ha). The site location and layout are shown on **Figures 1** and **2**, respectively.

Previous intrusive investigations identified potential sources of contamination at the site including imported fill materials of unknown origin and a substation present on a small portion of the site. Limited soil analyses undertaken across the site indicated elevated levels of lead, polycyclic aromatic hydrocarbons (PAHs) and asbestos in soils. It was recommended that additional investigations should be undertaken across the site.

The scope of works for this investigation comprised a review of available site history and publicly available information to identify potential areas of environmental concern (AECs) and associated contaminants of potential concern (COPC), groundwater monitoring well installation, soil and groundwater sampling, analysis of selected samples for identified COPC, comparison of collected data against relevant EPA endorsed criteria and preparation of a DSI report in general accordance with relevant EPA endorsed guidelines. The objective was to determine, from a site contamination perspective, whether the site was suitable for the proposed recreational open space land use for Parramatta Powerhouse. Recreational open space land use criteria was considered to be the most appropriate as the proposed development includes multiple recreational areas openly accessible to the public, inclusive of adults and children.

Based on the scope of work and subject to the limitations in **Section 11**, the following conclusions have been made:

- The review of historical site use information and inspection of site conditions identified potential areas of environmental concern and associated contaminants of concern which were associated with potential importation of fill materials from unknown origins and the historical operation of an electrical substation;
- Fill material comprised brown/dark brown/grey heterogeneous sandy clayey silt with inclusions of bitumen, mulch, brick, concrete, gravels and tiles. Depth of fill material ranged between 0 to 1.1 m bgs across the main portion of the site, with greater fill depths within the Parramatta River foreshore (up to 4.0 m bgs);
- Anthropogenic inclusions of plastic, concrete, brick, sandstone gravels, and slag were
 observed in fill materials. The relative quantity of these inclusions in fill are such that they
 are not considered to pose an unacceptable aesthetic issue for the proposed land use,
 presuming that the site surface across the proposed redevelopment will be finished with
 imported landscaping materials including soil and grass/shrubs/trees etc, new hardstand
 areas and new buildings;
- Intrusive soil investigations completed here and historically identified the following:
 - Elevated levels of heavy metals, TRHs and PAHs exceeding the adopted ecological criteria;
 - Elevated isolated hotspots with concentrations of lead, PAHs, polychlorinated biphenyls (PCBs) and asbestos exceeding the adopted human health criteria for the proposed recreational open space land use. These impacts are considered to be associated with constituents present in fill materials on the site, and were generally restricted to shallow



depths, as consistent with the vertical extent and historical placement of imported fill materials on the site and pose a potential risk to future on-site receptors if not remediated/managed;

- Elevated levels of heavy metals exceeding ecological criteria, apart from the highest levels of lead, are not considered likely to present a potential ecological risk on the site, noting the historical urbanised location of the site; and
- An assessment of groundwater was undertaken by a comparison of levels of environmental constituents present in hydrogeologically upgradient and downgradient monitoring wells. Levels of environmental constituents were found to be consistent with anticipated levels within an historically urbanised area, and further there was no indication of a site-specific source of groundwater impact.

Based on the results of the investigation and subject to the limitations in **Section 11**, the following recommendations have been made:

It is recommended that a RAP is prepared detailing the required remediation and/or ongoing management works to address the highest levels of lead, PAHs, PCBs and asbestos impacted soils on the site, as well as an ASSMP outlining the relevant management requirements if acid sulfate soils are encountered. The RAP (JBS&G 2020a¹) and ASSMP (JBS&G 2020b²) have been prepared and submitted in conjunction with this report.

¹ Remedial Action Plan, Powerhouse Parramatta, Phillip Street, Parramatta NSW, 3 April 2020, JBS&G Australia Pty Ltd, ref: 58352/128675 (Rev 0).

² Acid Sulfate Soil Management Plan, Powerhouse Parramatta, Phillip Street, Parramatta NSW, 3 April 2020, JBS&G Australia Pty Ltd, ref: 58352/128686 (Rev 0).



1. Introduction

JBS&G Australia Pty Ltd (JBS&G) was engaged by Infrastructure NSW (the client) to conduct a Detailed Site Investigation (DSI) of potential contamination at the proposed future location of the Museum of Applied Arts and Sciences (also referred to as the future Powerhouse Parramatta) at Philip Street, Parramatta NSW (the site). The total site is legally identified as Lot 1 and Lot 2 in DP1247122 and Lot 1 in DP128476 and occupies an area of approximately 2.5 hectares (ha). The site location and layout are shown on **Figures 1** and **2**, respectively.

This report supports a State Significant Development (SSD) Development Application (DA) for the development of the Powerhouse Parramatta at 34-54 & 30B Phillip Street and 338 Church Street, Parramatta. The Powerhouse Parramatta is a museum (information and education facility) that has a capital investment value in excess of \$30 million and as such the DA is submitted to the Minister for Planning pursuant to Part 4 of the Environmental Planning and Assessment Act 1979 (EP&A Act). Infrastructure NSW is the proponent of the DA.

The Department of Planning, Industry and Environment (DPIE) have issued Secretary's Environmental Assessment Requirements (SEARs) to the applicant for the preparation of an Environmental Impact Statement (EIS) for the proposed development. This report has been prepared having regard to the SEARs as issued for the management of site contamination issues. This detailed site investigation report has been prepared to determine the extent of contamination affecting the site and has been prepared in accordance with relevant guidelines made or approved by the NSW EPA.

1.1 Background

The Powerhouse is Australia's contemporary museum for excellence and innovation in applied arts and sciences. The museum was established in 1879 in the Garden Palace which emerged from a history of 19th Century grand exhibition halls, including the Grand Palais. It currently encompasses the Powerhouse in Ultimo, Sydney Observatory in The Rocks and the Museums Discovery Centre in Castle Hill. The Powerhouse has occupied the Ultimo site since 1988.

Parramatta, in the heart of Western Sydney, is entering a period of rapid growth. It was identified in 2014's A Plan for Growing Sydney as the metropolis' emerging second Central Business District, with the provision of supporting social and cultural infrastructure regarded as integral to its success. The strategic importance of Parramatta as an economic and social capital for Sydney has been subsequently reinforced and further emphasised through its designation as the metropolitan centre of the Central City under the Greater Sydney Region Plan.

Powerhouse Parramatta will be the first State cultural institution to be located in Western Sydney – the geographical heart of Sydney. In December 2019, the Government announced the winning design, by Moreau Kusunoki and Genton, for the Powerhouse Parramatta from an international design competition. Powerhouse Parramatta will establish a new paradigm for museums through the creation of an institution that is innately flexible. It will become a national and international destination renowned for its distinctive programs driven by original research and inspired by its expansive collections. It will be a place of collaboration, a mirror of its communities forever embedded in the contemporary identity of Greater Sydney and NSW.

Previous environmental assessments identified that the site was subject to historical filling which was potentially affected by a range of contaminants. Elevated levels of lead, semi and non-volatile petroleum hydrocarbons, polycyclic aromatic hydrocarbons (PAHs) and asbestos were identified in soils. Acid sulfate soils were also identified as likely to be present in deep soils and likely to be encountered by future piling works, or otherwise deep excavations.



1.2 Purpose

The DPIE have issued SEARs to the applicant for the preparation of an EIS for the proposed development. This report has been prepared having regard to the SEARs below:

SEAR	Where addressed
15. Contamination and Remediation The EIS shall:	Throughout this report, including the RAP (JBS&G 2020a)
 Demonstrate compliance with the requirements of SEPP 55 and if remediation works are required include a Remedial Action Plan 	and ASSMP (JBS&G 2020b)
 Identify geotechnical issues (including Acid Sulfate Soils) associated with the construction of the development. A Preliminary Site Investigation Study if needed, and/or further information as required by SEPP55 including an Acid Sulfate Soils Management Plan 	

The investigation has been completed in accordance with guidelines made or approved by the NSW Environment Protection Authority (EPA) and relevant Australian Standards in order to satisfy the above key issues identified in DPIE SEARs.

1.3 Objectives

The objectives of the investigation are to identify the potential for contamination based on current and historical site activities and to draw conclusions of the contamination status of the site as well as to assess potential soil, groundwater and vapour issues which may affect the site's proposed future land use for a open space / recreational purpose. Recreational open space land use criteria was considered to be the most appropriate as the proposed development includes multiple recreational areas openly accessible to the public, inclusive of adults and children.

1.4 Scope of Works

To achieve the objectives of the investigation, the scope of works comprised:

- A review of available site (including assessment area) history and background information to identify potential areas of environmental concern and associated contaminants of concern including:
 - A review of relevant information detailed in the Preliminary Site Investigation (PSI) completed by JBS&G (2016a³);
 - Update records of publicly available information held by NSW EPA, where readily available; and
 - Update licensed groundwater bores data present within a 1 km radius of the assessment area available on the online National Groundwater Information System, Bureau of Meteorology (2019/05) and WaterNSW (2019);
- Review of the environmental setting including topography, geology and hydrogeology of the site and surrounding areas;
- Development and documentation of a conceptual site model (CSM) and sampling and laboratory program (SAQP) based on the available information;
- A detailed site inspection to identify potential areas of environmental concern and confirm desktop findings;
- Soil sampling and analysis at 23 locations across the assessment area;

³ Preliminary Site Investigation, Proposed Museum of Applied Arts & Sciences, Parramatta NSW, JBS&G Australia Pty Ltd, 1 September 2016, ref: 51861/104899 Rev A, JBS&G 2016a.



- Installation of three additional groundwater wells;
- Groundwater sampling of three new and two existing groundwater wells; and
- Preparation of a DSI report, in general accordance with relevant EPA made or endorsed guidelines.



1.5 Overview of Proposed Development

The Powerhouse was established in 1879, and Powerhouse Parramatta will radically return to its origins through the creation of seven presentation spaces of extraordinary scale that will enable the delivery of an ambitious, constantly changing program that provides new levels of access to Powerhouse Collection. The Powerhouse will set a new international benchmark in experiential learning through the creation of an immensely scaled 360-degree digital space, unique to Australia.

Powerhouse Parramatta will reflect the communities and cultures of one of Australia's fastest growing regions. It will hold First Nations culture at its core and set a new national benchmark in culturally diverse programming. The Powerhouse will be highly connected through multiple transport links, and integrate into the fine grain of the city.

Powerhouse Parramatta will be an active working precinct and include the Powerlab, which will enable researchers, scientists, artists and students from across regional NSW, Australia and around the world to collaborate and participate in Powerhouse programs. The Powerlab will feature digital studios to support music and screen industries alongside co-working spaces, life-long learning and community spaces. Integrated into the Powerlab will be a research kitchen and library that will support a NSW industry development program including archives and oral histories.

This application will deliver an iconic cultural institution for Parramatta in the heart of Sydney's Central City. The SSD DA seeks consent for the delivery of the Powerhouse Parramatta as a single stage, comprising:

- Site preparation works, including the termination or relocation of site services and infrastructure, tree removal and the erection of site protection hoardings and fencing;
- Demolition of existing buildings including the existing Riverbank Car Park, 'Willow Grove', 'St George's Terrace' and all other existing structures located on the site;
- Construction of the Powerhouse Parramatta, including:
 - o Seven major public presentation spaces for the exhibition of Powerhouse Collection;
 - Front and back-of-house spaces;
 - Studio, co-working and collaboration spaces comprising the 'Powerlab', supported by 40 residences (serviced apartments) for scientists, researchers, students and artists artists, students, researchers and scientists, and 60 dormitory beds for school students;
 - Education and community spaces for staff, researchers and the Powerlab residents, the community, and education and commercial hirers;
 - Commercial kitchen comprising the 'Powerlab Kitchen' used for cultural food programs, research, education and events;
 - Film, photography, and postproduction studios that will connect communities with industry and content that will interpret the Powerhouse Collection;
 - Public facing research library and archive for community, industry, students and researchers to access materials; and
 - A mix of retail spaces including food and drink tenancies with outdoor dining.
- Operation and use of the Powerhouse Parramatta including use of the public domain provided on the site to support programs and functions;
- Maintenance of the existing vehicular access easement via Dirrabarri Lane, the removal of Oyster Lane and termination of George Khattar Lane, and the provision of a new vehicular access point to Wilde Avenue for loading;



- Public domain within the site including new public open space areas, landscaping and tree planting across the site; and
- Building identification signage.

The project does not seek consent for the carrying out of works outside of the site boundary, and in particular does not involve any alterations to the existing edge of the formed concrete edge of the Parramatta River or to the waterway itself.



2. Site Condition and Surrounding Environment

2.1 Assessment Area Identification

The site location and the assessment area are shown in **Figures 1** and **Figure 2**, respectively. The site is located at the northern edge of the Parramatta CBD on the southern bank of the Parramatta River. It occupies an area of approximately 2.5 hectares and has extensive frontages to Phillip Street, Wilde Avenue and the Parramatta River. A small portion of the site extends along the foreshore of the Parramatta River to the west, close to the Lennox Street Bridge on Church Street. The site excludes the GE Office Building at 32 Phillip Street.

Assessment area details are summarised in **Table 2.1** and described in detail in the following sections.

Table 2.11. Summary of Assessment Area Details				
Lot/DP	Lot 1 and Lot 2 DP1247122, Lot 1 DP128476			
Address	Philip Street, Parramatta			
Local Government Authority	City of Parramatta Council			
Approximate Area size	2.5 ha			
Current Zoning	B4 Mixed Use, RE1 Public Recreation			
Current Land Use	Carpark, commercial properties including restaurants and open space			
Previous Land Use	Carpark since 1960s			
Proposed Land Use	Open space / recreational – Powerhouse Parramatta plus open space areas for public access			

Table 2.1: Summary of Assessment Area Details

2.2 Site Description

A detailed inspection of the assessment area was conducted on 28 February 2020 by one of JBS&G's trained and experienced environmental scientists. Observations of the current site configuration and potential areas of concern are discussed below. A photographic log is presented as **Appendix B**.

The site is currently occupied by a number of buildings and structures, including:

- Riverbank Car Park a four-level public car park;
- Willow Grove a two-storey villa of Victorian Italianate style constructed in the 1870s;
- St George's Terrace a two-storey terrace of seven houses fronting Phillip Street constructed in the 1880s;
- 36 Phillip Street a two-storey building comprising retail and business premises;
- 40 Phillip Street a two-storey building comprising retail and business premises; and
- 42 Philip Street a substation building set back from the street.

The immediate context of the site comprises a range of land uses including office premises, retail premises, hotel, serviced apartments and residential apartments. To the north is the Parramatta River and open space corridor, beyond which are predominately residential uses. The Riverside Theatre is located to the north-west across the Parramatta River.

Two ground-level asphalt carparks situated to the south of the Riverbank Car Park and were divided by an open-space, private parkland and Willow Grove and St George's Terrace. Small landscaped areas consisting of vegetation and patchy grass/exposed soils were also situated at various locations throughout both carparks. A number of private carparks were also situated at the rear of the commercial properties along Phillip Street, with surface compositions comprising patchy asphalt and gravelled exposed soils.

Directly to the north of the commercial properties, Oyster Lane and George Khattar Lane merge and slope downwards in a northerly direction towards Parramatta River and to the east of the Riverbank



Car Park. A landscaped area comprising large trees and grass also exists between George Khattar Lane and Riverbank Car Park.

2.3 Surrounding Land Use

The land uses surrounding the proposed Powerhouse Parramatta have been identified as follows:

- North Parramatta River, River Foreshore Reserve, high density residential apartments, Riverside Theatres and low-density residential housing;
- East Wilde Avenue, commercial properties including restaurants and open parkland;
- South– Multistorey GE office building, Phillip Street, commercial estates including restaurants followed by George Street; and
- West High density residential apartments, commercial estates such as Bondi Pizza Parramatta.

2.4 Topography

A review of topographic information obtained from proposed plan packages⁴ indicated that the southern portion of the site lies at an elevation of approximately 7.5 m Australian Height Datum (AHD) and falls towards the north/Parramatta River with a final elevation of approximately 2.1 m AHD. The elevation is relatively consistent at approximately 7.5 m AHD from west to east.

2.5 Geology and Soils

Review of the 1:100 000 scale Sydney Geological Sheet Series 9130 (NSW DMR 1983⁵) indicates that the site is located on the Wianamatta Group Shale, consisting mostly of shale, carbonaceous claystone, laminate, fine to medium grade lithic sandstone. Previous investigations (see **Section 3.7**) reported fill over natural soils as silty sand/silty clay overlying sandstone.

Review of the NSW Department of Environment and Heritage online resource eSPADE⁶, indicated the site overlies the Birrong Soil Group which comprises deep (>250 cm) *Yellow Podzolic Soils* on older alluvial terraces, deep (>250 cm) Solodic Soils and Yellow Solonetz on the current floodplain. The soil landscape is prone to localised flooding and presents a high soil erosion hazard. Furthermore, the Birrong Soil Group can be characterised as saline subsoil with very low soil fertility and seasonal waterlogging.

2.6 Hydrology

The majority of surface area at the site is sealed concrete or asphalt. It is assumed that precipitation will migrate through municipal stormwater infrastructure and subsequently discharge to Parramatta River or north, downgradient towards Parramatta River.

⁴ 200402 SSDA Package, Moreau Kusunoki and Genton Architects, Powerhouse Parramatta, Rev 3.

⁵ Sydney 1:100,000 Geological Sheet 1930, 1st Edition. NSW Department of Mineral Resources 1983 (NSW DNR 1983)

⁶ eSPADE <u>https://www.environment.nsw.gov.au/eSpade2WebApp#</u> NSW Department of Environment and Heritage. Accessed 5 March 2020



2.7 Hydrogeology

Registered bore information obtained from the Water NSW online database (WNSW⁷) is included as **Attachment C**. The search identified four groundwater bores located within a 1 km radius of the site and are summarised following.

Bore Number	Approximate distance from site (km) and Eastings/Northings	Approximate distance from site (km)	Intended Use	Drilled depth (m bgs)	Standing Water Level (m bgs)	Geological Material
GW108611	0.46 E: 315129 N: 6257213	0.46	Water Supply	60.50	6.2	Fill to 1.00 m bgs, clay to 3.00 m bgs, shale to 5.50 m bgs, sandstone to 60.50 m bgs.
GW110912	0.66 E: 315997 N: 6257285	0.66	Exploration	10.00	7.0	Concrete to 0.10 m bgs, silty clay fill to 0.20 m bgs, natural sandy grey clay to 3.50 m bgs, clay with shale to 4.30 m bgs, shale to 6.80 m bgs, sandstone to 10.00 m bgs.
GW110913	0.66 E: 315992 N: 6257267	0.66	Exploration	10.00	7.0	Concrete to 0.10 m bgs, silty clay fill with gravel to 0.50 m bgs, natural red-brown sandy clay to 4.50 m bgs, clay with shale to 4.90 m bgs, sandstone to 4.90 m bgs, sandy clay with shale to 6.00 m bgs, sandstone to 10.00 m bgs.
GW110914	0.66 E: 315973 N: 6257260	0.66	Exploration	6.0	5.0	Silty sand fill to 0.20 m bgs, sandy clay fill to 1.10 m bgs, natural sandy clay to 2.50 m bgs, red clay to 5.00 m bgs, siltstone and shale to 5.50 m bgs, sandy clay to 5.50 m bgs, sandstone to 6.00 m bgs.

Table 2.2: Registered Groundwater Bore Search Summary

Based on the information obtained from groundwater bores and the mapped geology of the site, it is anticipated that shallow groundwater is encountered at the interface of residual soils and bedrock at greater than 5 m depth apart from the area immediately adjoining the Parramatta River. Based on the location of the site and local topography, the inferred groundwater flow direction is north towards Parramatta River.

2.8 Acid Sulfate Soils

Review of the Acid Sulfate Soil Risk Map (NSW DLWC)⁸ indicates that the site is located within an area of Disturbed Terrain which includes areas historically impacted by reclamation of low-lying wetlands, dredging, mining or urban development. The nearby Parramatta River comprises an area of high probability of acid sulfate soil occurrence in bottom sediments.

⁷ Water New South Wales, <u>http://realtimedata.waternsw.com.au</u>, accessed 26 March 2020.

⁸ 'Acid Sulphate Soil Risk Map – Prospect-Parramatta, 1997 1:25 000 (NSW DLWC)



2.9 Meteorology

A review of average climatic data for the nearest Bureau of Meteorology monitoring location (Bankstown Airport) indicates that the site is located within the following metrological setting:

- Average minimum temperatures vary from 4.5°C in July to 16.7°C in January;
- Average maximum temperatures vary from 17.5°C in June to 28.1°C in January;
- The average annual rainfall is approximately 914 mm; and
- Monthly rainfall varies from 51.4 mm in September to 99.1 mm in March with the wettest periods occurring on average in February, March and April.



3. Site History

3.1 Aerial Photographs

Aerial Photographs from 1930, 1943, 1956, 1961, 1970, 1982, 1994, 2005, 2016, and 2020 were obtained from the Department of Land and Property Information, summarised in **Table 3.1** and copies included in **Attachment D**.

Year	Observations
1930	The aerial is unclear, however parkland comprising trees and grassland dominated the central and northern portions of the site. Small and medium sized buildings were evident in the southern portion and appeared to be potentially utilised for commercial/residential purposes. There was a structure where Willow Grove house currently stands. A large warehouse was also situated directly to the southwest of the site and to the north of Phillip Street. The surrounding areas appeared to comprise small to medium sized commercial properties, parkland and low-density residential housing.
1943	The site remained predominantly the same with open parkland dominating the central and northern portions with small to medium sized commercial/residential structures situated in the southern portion. Two structures have been raised near the central western boundary, and one or more structures appeared in the location of the current carpark access road from Phillip Street. An additional structure was now visible immediately west of the structure present in the current location of Willow Grove. A factory building with sawtooth roof has been developed in the area currently occupied by the GE building, and some additional residential structures were built in the surrounding areas.
1956	The majority of vegetation and grassland that were apparent in the central and northern portion appeared to have been cleared with some exposed soils now visible. Additional structures have also been built in the south western corner of the site, with the two structures previously visible at the western boundary no longer present. The surrounding area remains mostly unchanged with a number of additional residential and commercial structures built.
1961	The large multi-storey carpark identified during the site investigation is in the process of being constructed. Temporary and/or permanent ground level carparks were also situated to the south and east of the new development, where existing asphalt car parking exists. A concrete footpath also traversed the northern portion of the site from east to west. The structure west of the Willow Grove house was removed. In addition, a number of smaller structures that were previously identified in the south eastern corner have been demolished and replaced with a carpark. The remaining surrounding areas remained mostly unchanged with a number of additional residential and commercial structures built. A number of small to medium sized structures that were previously located directly west of the site have been amalgamated into a large multi-storey structure.
1970	The large carpark structure in the centre of the site has been completed and the surrounding ground level carparks were paved with asphalt. Structures that were previously situated in the south western corner have been demolished and also replaced with a carpark and access way. The sawtooth-roofed building southwest of the site was removed and replaced with ground level carpark. The sawtooth roof of the building in the current GE building location was replaced with a newer roof. South of Phillip Street, a number of structures have also been demolished and replaced with a number of additional residential and commercial structures built.
1982	No major developments have occurred since the previous photograph with the exception of the yards located at the rear of the south eastern structures replaced with concrete hardstand, and the construction of Wilde Avenue and associated bridge directly to the east of the site. The ground level car park south of Phillip Street has been developed into a multi-storey carpark and commercial building.
1994	No major developments occurred since the previous photo with exception to a small structure having been demolished in the central portion of the site (adjoining the northeast of Willow Grove) and the development of the GE office building directly south of the site. Additional apartments and office buildings have also been built in the surrounding areas, including one immediately west of the Phillip Street accessway.

Table 3.1 Summary of Historical Aerial Imagery Review



Year	Observations
2005	No major developments occurred since the previous photo with exception to a removal of a large tree in the western-most carpark, and the construction of additional structures located in the central portion directly south of the large carpark building, adjoining Willow Grove.
2016	The site remained largely unchanged from the previous aerial. Redevelopment of the large apartments/commercial property to the west of the site, fronting the river, was in progress.
2020	The large apartment/commercial property to the west was completed. Besides that, the site remained largely unchanged from the previous aerial photograph.

3.2 Historical Land Title Records

A search of historical land title records has been conducted for a limited number of properties contained within the site and are summarised below with full records provided in **Appendix E**. The registered proprietors for the combined lots are detailed below.

The information obtained does not indicate any ownership or occupancy of the site for any purposes likely to involve potentially high-risk contaminating activities, consistent with the aerial photographic review herein.

3.2.1 30 B Phillip Street (historical Lot B D.P. 393866, Lot 102 D.P. 1031459 & Lot A D.P. 384927, current Lot 1-3 DP 1247122)

Lot B DP 393866

- 1898 to 1934 Fanny Eliza Houison (Widow).
- 1934 to 1954 Martha Florence Houison (Spinster) and Maude Mary Houison (Spinster).
- 1954 to 1955 James Keith Solling Houison (Accountant) and Gwenda Solling Houison (Spinster).
- 1955 to Date The Council of the City of Parramatta.

Lot 102 DP 1031459

- 1917 to 1935 Henry Edward Haddrill (Produce Merchant).
- 1935 to 1953 David Bruce Frater (Retired Grazier).
- 1953 to Date The Council of the City of Parramatta.

Lot A DP 384927

- 1910 to 1923 Elizabeth Melhuish (Married Woman).
- 1923 to 1926 Hartley John Wood (Cordial Maker) and Esther Amelia Ellen Wood (His Wife).
- 1926 to 1948 William James Laws (Cordial Manufacturer) and Ethel Elegar May Laws (His Wife).
- 1948 to 1953 Ethel Elegar May Laws (Widow).
- 1953 to Date The Council of the City of Parramatta.



3.2.2 34 Phillip Street (historical Lot 1 DP 569139, current Lot 2 DP 1247122)

- 1919 to 1923 Evangeline Estella Davidson (Married Woman).
- 1923 to 1949 May Victoria West (Spinster).
- 1949 to 1953 Frances Amy Thompson (Married Woman).
- 1953 to 1986 The Commonwealth of Australia.
- 1986 to 1987 Australian Telecommunications Commission.
- 1987 to 1994 Agostino Bros. Pty Limited.
- 1994 to 2009 Rex Gene Maughan.
- 2009 to 2015 Australia Investments LLC.
- 2015 to Date City of Parramatta Council.

3.2.3 44 Phillip Street (historical Lot 1 DP 742271, current Lot 2 DP 1247122)

- 1919 to 1935 Albert Harding Porter (Surgeon).
- 1935 to 1935 Rosamond Ellen Dudgeon (Widow).
- 1935 to 1949 Frances Evelyn Webber (Spinster) & her deceased estate.
- 1949 to 1969 Salvatore Messina (Market Gardener).
- 1969 to 2001 Waldor Development Pty Limited.
- 2001 to 2008 John Francis Surian, Christine Teresa Sharp, Andrew Brooks, David Ronald Lewarne, Redlee Imports Pty Ltd.
- 2008 to 2014 John Francis Surian, Christine Teresa Sharp, Andrew Brooks, Redlee Imports Pty Ltd.
- 2014 to 2015 John Francis Surian, Christine Teresa Sharp, Andrew Brooks, Redlee Imports Pty Ltd.
- 2015 to Date City of Parramatta Council.

3.2.4 47 Smith Street (historical Lot C DP 384927, current Lot 2 DP 1247122)

- 1910 to 1923 Elizabeth Melhuish (Married Woman)
- 1923 to 1926 Hartley John Wood (Cordial Maker) and Esther Amelia Ellen Wood (His Wife)
- 1926 to 1948 Esther Amelia Ellen Wood (His Wife) and Ethel Elegar May Laws (His Wife)
- 1948 to 1954 Ethel Elegar May Laws (His Wife)
- 1954 to 1959 Percy Whitton Leabeater (Merchant)
- 1959 to 1962 Scott's (Newcastle) Investments Limited
- 1962 to Date The Council of the City of Parramatta



3.3 Council Records

A representative number of Section 10.7 (2) and (5) planning certificates were acquired for three properties within the site including 44 Phillip Street, 30B Phillip Street and 34 Phillip Street. Complete copies of these planning certificate are provided in **Appendix F** and a summary of the information with respect to contamination is as follows for each selected property:

3.3.1 44 Phillip Street

- The site is zoned B4 Mixed Use.
- The land is identified as containing a Heritage Item in Parramatta Local Environmental Plan 2011. The land is not located in a heritage conservation area.
- The land is not affected by road widening or road realignment.
- The land is subject to Section 5.4 Preservation of Trees or Vegetation in Parramatta Development Control Plan 2011.
- The land is not affected by any of the matters contained in Clause 59(2) as amended in the Contaminated Land Management Act 1997.
- The land is identified as Class 4 on the Acid Sulfate Soils maps of the Parramatta Local Environmental Plan 2011. This details that development consent is required to carry out works more than 2 metres below the natural ground surface.

3.3.2 30 B Phillip Street

- The site is zoned B4 Mixed Use and RE1 Public Recreation.
- An item of environmental heritage is not situated on the land and the land is not located in a heritage conservation area.
- The land is not affected by road widening or road realignment.
- The land is subject to Section 5.4 Preservation of Trees or Vegetation in Parramatta Development Control Plan 2011.
- The land is not affected by any of the matters contained in Clause 59(2) as amended in the Contaminated Land Management Act 1997.
- The land is identified as Class 4 on the Acid Sulfate Soils maps of the Parramatta Local Environmental Plan 2011. This details that development consent is required to carry out works more than 2 metres below the natural ground surface.



3.3.3 34 Phillip Street

- The site is zoned B4 Mixed Use.
- The land is identified as containing a Heritage Item in Parramatta Local Environmental Plan 2011. The land is not located in a heritage conservation area.
- The land is not affected by road widening or road realignment.
- The land is subject to Section 5.4 Preservation of Trees or Vegetation in Parramatta Development Control Plan 2011.
- The land is not affected by any of the matters contained in Clause 59(2) as amended in the Contaminated Land Management Act 1997.
- The land is identified as Class 4 on the Acid Sulfate Soils maps of the Parramatta Local Environmental Plan 2011. This details that development consent is required to carry out works more than 2 metres below the natural ground surface.

3.4 EPA Records

A search of the NSW EPA's public register maintained under the Protection of the Environment Operations Act 1997 (POEO Act) was undertaken for the subject site and surrounding properties. The results of the search are presented in **Appendix G**. The search identified that there are were no current or former prevention, clean-up or prohibition notices for the site.

A search was also undertaken through the EPAs public contaminated land register (**Appendix G**). The search identified that there have been no notices issued under the Contaminated Land Management Act 1997 (CLM Act) for the site and immediate surrounds.

In addition, a review of the EPA's list of NSW Contaminated Sites Notified to OEH identified that the site or nearby sites have not been notified to EPA under Section 60 of the CLM Act. The review identified there were no records relating to the immediate vicinity of the site.

3.5 EPA Per- and Poly- Fluoroalkyl Substances (PFAS) Register

A search was also undertaken through the EPAs PFAS register of contaminated sites and is included in **Appendix G**. The search identified that there are no sites near Parramatta that are notified to the EPA with regards to PFAS contamination.

3.6 Australian and NSW Heritage Register

A search of the Australian Heritage Trust database and the NSW Heritage Inventory was undertaken with records included in **Appendix H**. The search indicates that the site contains Phillip Street and two properties which have been identified as culturally significant in the NSW Heritage Database and are identified as Phillip Street (Archaeological Management Unit – 3155, 3173, 3174 and 3176), 44 Phillip Street (St George's Terrace and Potential Archaeological Site) and 34 Phillip Street (Willow Grove and Potential Archaeological Site). In addition, these properties are documented in *The Future of Parramatta's Past: An Archaeological Zoning Plan 1788 to 1844* (DoP, 2010⁹). Multiple additional properties in close proximity to the site were also identified on the NSW Heritage Register and are detailed in **Appendix H**.

A search of the Australian Heritage Database also identified Willow Grove at 34 Phillip Street as an item listed by the Register of the National Estate (non-statutory archive). No other properties on site or in proximity to the site were identified as culturally significant.

⁹ The Future of Parramatta's Past: An Archaeological Zoning Plan 1788 to 1844. Volume 1: Text and Volume 2: Inventory. The Department of Planning, The University of New South Wales 1989. (Reprinted 2010) (DoP, 2010)



3.7 Previous Investigations

3.7.1 Preliminary ESA (EIS 2013¹⁰)

A Phase 1 Environmental Site Assessment was completed on a portion of the site by Environmental Investigation Services on 28 October 2013 (EIS 2013) for City of Parramatta Council. This assessment was conducted in order to determine the suitability of a portion of the current proposed site for a proposed mixed-use development. The portion assessed included the foreshore area, multi-storey and ground level parking areas and the Phillip Street and Wilde Avenue access ways. The findings of the assessment are summarised below:

- Fill materials in the foreshore area were observed to include some anthropogenic materials in the fill profile, including ash at location (BH2). Fill was underlain by silty sand and silty clay overlying sandstone. Sandstone was encountered between 3 m and 9.5 m depth. Seepage water was noted between 4 and 6 m within boreholes south of the car park, and between 1.5 and 2 m in the foreshore area;
- PAHs reported as benzo(a)pyrene B(a)P toxicity equivalent quotient (TEQ) were reported at one location (BH2) exceeding the adopted human health criteria concentration of 3 mg/kg, as located in the foreshore area in the northwest of the site. These concentrations were equivalent to or above the adopted NEPC (2013) health-based investigation level (HIL) of 3 mg/kg and further exceeded the adopted ecological screening level (ESL);
- Toxicity characteristic leaching procedure (TCLP) results for B(a)P in samples from BH2 indicated that B(a)P was not leaching. This is consistent with the presence of ash materials identified by EIS in fill at BH2, whereby PAHs are bound into the ash material and 'naturally' immobilised;
- Elevated concentrations of nickel (37mg/kg) and zinc (320mg/kg) were encountered above the adopted ecological investigation levels (EILs) at two locations within the foreshore area. It is noted the consultant did not derive site-specific EILs for these metals, and so the assessment is likely conservative;
- Results indicated that deep penetration of the soils (greater than 5 m bgs) may result in the generation of potential ASS. Shallower soils at locations BH2 and BH4 (foreshore) were also found to be acidic following oxidation, although results were below the adopted ASS action criteria; and
- The results of the groundwater assessment on two samples were reported by EIS as being less than the adopted criteria, including hardness modified trigger values. A trace concentration of light fraction total petroleum hydrocarbon (TPH C6-C9) was encountered in the MW1 sample. EIS consider that this is likely to be the result of small surficial spills in the car park area.

¹⁰ Preliminary Environmental Site Assessment for Proposed Mixed Use Development at Riverbank Square, 30B Phillip Street, Parramatta. Environmental Investigation Services Pty Ltd, 28 October 2013 (EIS 2013)



3.7.2 JBS&G PSI & DSI for Substation at 42 Phillip St (2016a¹¹)

JBS&G was engaged by Endeavour Energy to provide a Preliminary and Detailed Site Investigation (PSI-DSI) for a cottage substation located at 42 Phillip Street, Parramatta. The objectives of the PSI/DSI were to assess potential contamination associated with use of the site as a substation and to determine the suitability of the site for land uses permitted under the zoning B4 Mixed Use. Based on the results of the investigation, the following conclusions were made:

- There were potentially unacceptable risks from B(a)P, lead and asbestos contaminated soils with respect to the proposed commercial/industrial land use;
- Asbestos impacts in soils were restricted to the upper 0.5 m of fill material;
- B(a)P and lead impacted material at the site was not subject to leaching under neutral conditions and migration of lead and B(a)P contamination to groundwater was therefore considered unlikely; and
- It was considered that the site could be made suitable subject to further investigation and/or management.

3.7.3 JBS&G PSI (2016b¹²) for the Proposed Museum of Applied Arts and Sciences Development

JBS&G were engaged by Pells Sullivan Meynink to provide a PSI of the area for the proposed Museum of Applied Arts and Sciences (MAAS) development in Parramatta, NSW (the site).

The investigation reported the following:

- Historical uses and activities on the site have the potential to have resulted in contamination, particularly from filling to raise site levels, predominantly along the foreshore area and where former structures have been demolished;
- Intrusive investigations identified the presence of elevated PAHs (and minor TRH) in fill material at levels exceeding open space land use criteria. The PAHs/TRH were considered to be associated with materials in the fill including ash and charcoal and asphaltic materials in shallow fill below car park areas;
- PAHs did not appear to be contaminated to unacceptable levels as a result of activities or conditions at the site;
- There was reported to a low likelihood of contaminants in fill migrating from the site via groundwater;
- No asbestos containing materials were observed or reported during the investigation. However, soil investigations were completed using boreholes to minimise disturbance of site surfaces and it was acknowledged that during bulk excavations, other materials in fill not observed during the investigation could be encountered;
- PASS conditions did not appear to be present in fill or shallow soils. However, it was noted that deeper soils (>7 m) may require ASS management if disturbed; and
- It was reported that not all areas were accessible during the investigation and remained subject to future environmental assessment.

It was recommended that a detailed site investigation be completed to better define the character and extent of contaminated fill and identify management requirements to enable the site to be made suitable for the intended land uses.

¹¹ Preliminary and Detailed Site investigation, 42 Phillip Street, Parramatta, NSW, JBS&G Australia Pty Ltd, 4 May 2016, (JBS&G 2016a)

¹² Preliminary Site Investigation, Proposed Museum of Applied Arts & Sciences, Parramatta, NSW, JBS&G Australia Pty Ltd, 1 September 2016 (JBS&G 2016b)



3.8 Integrity Assessment

The information obtained from formal published sources noted above has been found to be in general agreement regarding the history of the site.

Based on the range of sources and general consistency of the historical information, it is considered that the historical assessment has an acceptable level of accuracy with respect to the potentially contaminating activities historically occurring at the site.

It is noted that no historical dangerous goods records were sought for the site. Based on the information obtained from other sources and the inspection of the site, it is considered unlikely that storage of dangerous goods in any significant/recordable quantities would have occurred at the site. A search of dangerous goods records was completed in JBS&G (2016a).



4. Conceptual Site Model

4.1 Areas of Environmental Concern

Based on previous site investigations, the site history and observations of site conditions during the detailed site inspection, areas of environmental concern and potential contaminants of concern have been identified for the assessment and are presented in **Table 4.1**.

Area of Environmental Concern (AEC)	Contaminants of Potential Concern (COPC)
Fill material from unknown sources across areas of the site not previously investigated, and at identified 'hotspots' (EIS 2013, JBS&G 2016a and 2016b)	Heavy metals (As, Cd, Cr, Cu, Hg, Ni, Pb, Zn), PAHs, TRHs, volatile organic compounds (VOCs), organochlorine pesticides (OCP), polychlorinated biphenyls (PCBs), and asbestos
Substation	PCBs and TRH (dielectric fluids / coolants)
Groundwater underlying the site that may discharge to Parramatta River	Heavy metals, PAHs, TRH/VOCs
Natural soils and weathered parent rock underlying the	Potential acid sulfate soils (PASS) and potential impacts
site	from leachable COPCs in overlying fill materials

4.2 Potentially Contaminated Media

Potentially contaminated media at the site include:

- Fill material;
- Natural soils; and
- Groundwater.

Fill material is considered to be a potentially impacted medium based upon the age of the site (i.e., occupation since mid-1800's), likely filling of the site and previous demolition and construction works. Based on the potential leachability of some COPCs and the anticipated disturbed/filled nature of the site, natural soils are also considered to be potentially impacted media. As with the natural soils, the potential for groundwater impact will depend on the actual nature, occurrence and characteristic of impact within the overlying fill materials and, potentially, the natural soils.

4.3 Potential for Migration, Exposure Pathways and Receptors

Contaminants generally migrate from a site via a combination of windblown dusts, rainwater infiltration, groundwater migration and surface water runoff. The potential for contaminants to migrate is a combination of:

- The nature of the contaminants (solid/liquid and mobility characteristics);
- The extent of the contaminants (isolated or widespread);
- The location of the contaminants (surface soils or at depth); and
- The site topography, geology, hydrology and hydrogeology.

The potential contaminants of concern identified as part of the site history review and site inspection are in solid (e.g. asbestos, metals) liquid form (e.g. TRH/BTEX, OCPs, PCBs) or vapour form (VOCs).

The potential for migration of contaminated soil via wind and fugitive dust emissions is considered to be low, given that the majority of the site is generally sealed by building footprints, concrete, pavers or asphalt, and landscaped areas contain only minor areas of exposed soil.

The potential for contaminants to migrate vertically through the soil profile, impact groundwater and migrate offsite is considered to be low based on the generally sealed nature of the site and the low permeability and low hydraulic conductivities of the underlying natural clays (where saturated



horizons were anticipated). However, contact between shallow groundwater and fill could result in some impact to shallow groundwater.

The potential for contaminants to migrate via surface water runoff is considered to be low given the generally sealed nature of the site. There may be interactions between shallow groundwater and surface water along the immediate foreshore areas with the adjacent Parramatta River, however, based on dilution factors and previous investigation results, this is unlikely to result in any unacceptable contamination migration to the river.

4.4 Potential Exposure Pathways

Based on the COPCs identified in soil, groundwater and soil vapour, the potential exposure pathways for the site include:

- Oral and dermal pathways from impacted soils and groundwater (either through beneficial groundwater re-use [unlikely] or made accessible via excavation);
- Inhalation of airborne contaminants (including airborne asbestos fibres);
- Inhalation of vapour migrating from impacted soils and groundwater, although given the lack of volatile contaminants previously reported, this is unlikely; and
- Contaminant uptake via vegetation (flora) or bioaccumulation within fauna.

4.4.1 Potential Receptors

Potential receptors of environmental impact within the site which will need to be addressed with respect to the suitability of the site for the proposed use include:

- Current users of the site who may be potentially be exposed to COPC through direct contact with or ingestion of impacted soils and/or groundwater and/or inhalation of dusts/fibres/vapours associated with impacted media, although currently sealed surfaces mitigate potential exposure to current users;
- Excavation/construction/maintenance workers conducting activities at the site, who may potentially be exposed to COPCs through direct contact with impacted soils and/or groundwater present within excavations and/or inhalation of impacts associated with impacted media;
- Future workers and recreational users (i.e. users / visitors to the museum) who may potentially be exposed to COPC through direct contact with or ingestion of impacted soils and/or groundwater, and/or inhalation of dusts/fibres associated with impacted media;
- Flora and fauna on the site within future landscaped areas; and
- The fresh and marine water ecosystem of Parramatta River located hydro-geologically downgradient of the site.



5. Sampling and Analysis Plan

5.1 Data Quality Objectives

Data quality objectives (DQOs) were developed for the investigation, as discussed in the following sections.

5.1.1 State the Problem

It is understood that the client proposes to undertake a single-stage development of the new Powerhouse Parramatta museum, comprising:

- Site preparation works, including the termination or relocation of site services and infrastructure, tree removal and erection of site protection hoardings and fencing;
- Demolition of existing buildings including the existing Riverbank Car Park, 'Willow Grove', 'St George's Terrace' and all other existing structures located on the site;
- Construction of the new Powerhouse Parramatta museum;
- Operation and use of the new Powerhouse Parramatta museum including use of the public domain provided on the site to support programs and functions;
- Maintenance of the existing vehicular access easement via Dirrabarri Lane, the removal of Oyster Lane and termination of George Khattar Lane, and the provision of a new vehicular access point to Wilde Avenue for loading;
- Public domain within the site including new public open space areas, landscaping and tree planting across the site; and
- Building identification signage.

The objective of this investigation was to characterise potential contamination within the development footprint of the new Powerhouse Parramatta museum and to draw conclusions regarding site suitability for the proposed use.

5.1.2 Identify the Decision

Based on the decision making process for assessing urban redevelopment sites detailed in EPA (2017¹³), the following decisions must be made:

- Are there any unacceptable risks to likely future on-site receptors?
- Are there any impacts of chemical mixtures?
- Are there any aesthetic issues at the site?
- Is there any evidence of, or potential for, migration of contaminants from the site?
- Is a site management strategy required?

¹³ 'Contaminated Sites: Guidelines for the NSW Site Auditor Scheme, 3rd Edition', NSW Environmental Protection Authority, October 2017 (EPA 2017)



5.1.3 Identify Inputs to the Decision

Inputs identified to provide sufficient data to make the decisions nominated above include:

- A review of historical site information and inspection of the site to identify potential AECs and COPCs at the site;
- Detailed site inspection/walkover;
- Physical observations and interpretation of environmental data through collection and analysis of soil and groundwater samples;
- Development of appropriate assessment criteria for evaluation of soil and groundwater impacts;
- Laboratory analyses of soil and groundwater samples for potentially contaminated media regarding COPCs; and
- Confirmation that data generated by sample analyses are of sufficient quality to allow reliable comparison to assessment criteria as undertaken by assessment of quality assurance/quality control (QA/QC).

Specifically, sufficient data needs to be collected from each of the identified potentially impacted media in the identified AECs for the associated COPCs (**Table 4.1**).

5.1.4 Define the Study Boundaries

The site location is identified as established in **Section 2.1** and defined in **Figure 1** and **Figure 2**. The investigation area accounts for an approximate area of 2.5 ha.

With consideration to the objectives of the investigation, the intrusive investigation via boreholes extended to a maximum vertical depth of 6.0 m bgs or 0.5 m into natural materials (or prior to refusal), whichever was shallower. Groundwater wells were installed at a maximum depth of 6 m, 2 m below the encountered groundwater depth, or where solid flight auger refusal was reported on underlying sandstone, whichever was shallower.

The lateral study boundaries are limited to the assessment area of the site as shown on Figure 2.

Seasonality was not assessed as part of this investigation. Data is therefore representative of the timing and duration of the current investigation in which site inspection and sampling occurred during February/March 2020. Seasonality is not considered potentially significant to the potential occurrence of contaminants.



5.1.5 Develop a Decision Rule

Analytical data for potentially contaminated media was assessed against NSW EPA endorsed criteria as identified in **Section 6**.

Statistical analysis of the soil data set was not undertaken for this investigation due to the nature of contamination identified. The decision rules adopted to answer the decisions identified in **Section 5.1.2** are summarised in **Table 5.1**.

Decision Required to be Made	Decision Rule
1. Are there any unacceptable risks to on	Soil analytical data was compared against EPA endorsed criteria including
site future receptors from soils in the	NEPC (2013).
investigation areas?	If concentrations of contaminants were reported above the adopted EPA
	endorsed criteria, the answer is Yes .
	If concentrations of contaminants were reported below the adopted EPA
	endorsed criteria, the answer is No .
	Use of statistical methods:
	Statistical analysis was not undertaken for this investigation as the presence
	of contamination hotspots are considered to be isolated in nature and
	cannot be statistically compared to fill across the site
2. Are there any issues relating to local	Analytical data in natural soil samples were compared to the background
area background soil concentrations that	levels for urban areas of NSW as described in NEPC 2013. Where
exceed the appropriate soil criteria?	concentrations were less than the background levels, the answer to the
	decision was No .
	Otherwise the answer to the decision was Yes.
3. Are there any chemical mixtures?	Were there more than one group of contaminants present which increase
	the risk of harm?
	If there was, the answer to the decision was Yes .
	Otherwise, the answer to the decision was No.
4. Are there any aesthetic issues	If there were any unacceptable odours, soil discolouration or other aesthetic
associated with potentially impacted	aspect, the answer to the decision was Yes .
media within the investigation areas?	Otherwise, the answer to the decision was No.
5. Is there any potential for contaminant	A qualitative assessment of contaminant sources, migration pathways and
migration from the investigation areas?	receptors were completed during assessment of investigation data collected.
	If the assessment identifies unacceptable risks to off-site receptors, the
	answer to the decision was Yes .
	Otherwise the answer to the decision was No .
6. Is a site management strategy required?	Is the answer to any of the above decisions Yes ?
	If yes, a site management strategy is required.
	Otherwise, a site management strategy is not required.

5.1.6 Specific Limits on Decision Errors

This step seeks to establish the decision maker's tolerable limits on decision errors, which were used to establish performance goals for limiting inherent uncertainty in the data. Data generated during this project needs to be robust and reliable to facilitate decisions to be made with confidence.

Specific limits for this project were adopted in accordance with the appropriate guidance from the NSW EPA endorsed and NEPC's (2013) appropriate indicators of DQIs used to assess QA/QC and standard JBS&G procedures for field sampling and handling.

To assess the usability of the data prior to making decisions, the data was assessed against predetermined DQIs to assess precision, accuracy, representativeness, comparability, completeness and sensitivity (PARCCS parameters). The acceptable limit on decision error was 95% compliance with DQIs.

The pre-determined DQIs established for the project are discussed below in relation to the PARCCS parameters and are shown in **Table 5.2**.



- **Precision** measures the reproducibility of measurements under a given set of conditions. The precision of the laboratory data and sampling techniques is assessed by calculating the Relative Percent Difference (RPD) of duplicate samples.
- Accuracy measures the bias in a measurement system. The accuracy of the laboratory data that are generated during this study is a measure of the closeness of the analytical results obtained by a method to the 'true' value. Accuracy is assessed by reference to the analytical results of laboratory control samples, laboratory spikes and analyses against reference standards.
- Representativeness expresses the degree to which sample data accurately and precisely
 represent a characteristic of a population or an environmental condition.
 Representativeness is achieved by collecting samples on a representative basis across the
 site, and by using an adequate number of sample locations to characterise the site to the
 required accuracy.
- Comparability expresses the confidence with which one data set can be compared with another. This is achieved through maintaining a level of consistency in techniques used to collect samples; and ensuring analysing laboratories use consistent analysis techniques; and reporting methods.
- **Completeness** is defined as the percentage of measurements made which are judged to be valid measurements. The completeness goal is set at there being sufficient valid data generated during the study.
- Sensitivity expresses the appropriateness of the chosen laboratory methods, including the limits of reporting, in producing reliable data in relation to the adopted site assessment criteria.

Data Quality Indicators	Frequency	Data Quality Criteria
Precision		•
Split duplicates (intra laboratory)	1 / 20 samples	<50% RPD ¹
Blind duplicates (inter laboratory)	1 / 20 samples	<50% RPD ¹
Laboratory Duplicates	1 / 20 samples	<50% RPD ¹
Accuracy		
Surrogate spikes	All organic samples	70-130%
Laboratory control samples	1 per lab batch	70-130%
Matrix spikes	1 per lab batch	70-130%
Representativeness		
Sampling appropriate for media and analytes	All samples	_2
Samples extracted and analysed within holding times.	-	Soil: organics (14 days), inorganics (6
		months), asbestos (nil)
Laboratory Blanks	1 per lab batch	<lor< td=""></lor<>
Trip spike	1 per lab batch	70-130% recovery
Storage blank	1 per lab batch	<lor< td=""></lor<>
Rinsate sample (reusable sampling equipment)	1 per sampling event/media	<lor< td=""></lor<>
Comparability		
Standard operating procedures for sample collection & handling	All Samples	All Samples
Standard analytical methods used for all analyses	All Samples	National Association of Testing Authority (NATA) accreditation
Consistent field conditions, sampling staff and laboratory analysis	All Samples	All samples ²
Limits of reporting appropriate and consistent	All Samples	All samples ²
Completeness	•	•
Sample description and COCs completed and appropriate	All Samples	All samples ²
Appropriate documentation	All Samples	All samples ²

Table 5.2 Data Quality Indicators



Data Quality Indicators	Frequency	Data Quality Criteria
Satisfactory frequency and result for QC samples		95% compliance
Data from critical samples is considered valid	-	Critical samples valid
Sensitivity		
Analytical methods and limits of recovery appropriate for media and adopted Site assessment criteria	All samples	LOR<= Site assessment criteria

¹ If the RPD between duplicates were greater than the pre-determined data quality indicator, a judgment will be made as to whether the exceedance was critical in relation to the validation of the data set or unacceptable sampling error occurred in the field.

²A qualitative assessment of compliance with standard procedures and appropriate sample collection methods will be completed during the DQI compliance assessment.

5.2 Optimise the Design of Obtaining Data

Various strategies for developing a statistically based sampling plan are identified in *Contaminated Sites: Sampling Design Guidelines* (EPA 1995), including judgemental, random, systematic and stratified sampling patterns. The adopted sampling methodology is discussed in the following sections.

5.2.1 Soil and Groundwater Investigation Program

Given the current understanding of the site, limitations associated with existing structures and activities on site, and the previous investigations (EIS 2013; JBS&G 2016a; JBS&G 2016b), JBS&G collected samples in locations that generally provided coverage the site area, whilst also allowing for targeted sampling of the impacted fill material that was previously identified. Groundwater wells were installed at three locations across the site to assess the potential for contaminant migration to groundwater. Two existing monitoring well locations (BH1 and BH4) were present and utilised in the investigation.

5.3 Soil and Groundwater Investigation Methodology

5.3.1 Soil Sampling Methodology

Soil samples were collected at 23 locations (SB1-SB20, MW1-MW3) in accessible areas distributed across the extent of the site, with three locations converted into monitoring wells (MW1-MW3). Chosen locations were based on a combination of systematic and targeted sampling to areas of environmental concern. Sample locations were undertaken using a drill rig with solid flight augers and extended through fill material beneath asphalt/concrete hardstands to natural soils. The purpose of the works is to ensure a broad characterisation of the fill materials potentially present across the extent of the site.

Soil samples were collected from material at ground surface or directly underlying the paved ground-surface (0.1 m), at 0.5 m, and at each subsequent 0.5 m intervals to a maximum depth of 6.0m below ground surface (m bgs) or 0.5 m into natural materials (or prior refusal), whichever was shallower. Where physical evidence of gross contamination was identified, sample locations were extended vertically to delineate contamination. During the collection of soil samples, features such as seepage, discolouration, staining, odours and other indicators of contamination were noted on investigation logs presented in **Appendix I**.

All samples were collected using a new pair of powder free nitrile gloves at each sample location. Soil samples were screened on site during works using a photo-ionisation detector (PID) containing a standard ionisation lamp with standard electron voltage (eV) range associated with the ionisation potentials of typical volatile organic compounds (VOCs) including petroleum hydrocarbons. During the collection of soil samples, features such as seepage, discolouration, staining, odours, PASS indicators and other signs of contamination were noted (e.g. asbestos containing material, ACM).

Collected samples were immediately transferred to laboratory supplied sample jars. Sample jars were then transferred to a chilled ice box for sample preservation prior to and during shipment to the testing laboratory. A chain-of-custody form was completed and forwarded with the samples to



the testing laboratory. Based upon field observations, samples were analysed in accordance with the laboratory schedule provided in **Table 5.3**.

Not all samples collected were analysed. All samples remained at the primary laboratory for a period of two months for possible future analysis (subject to holding times) if required following the receipt of samples results.

On completion, each location was reinstated by returning material approximately in the order removed, and materials compacted.

5.4 Groundwater Monitoring Well Installation

Three soil sampling boreholes were converted into groundwater monitoring wells. Two monitoring wells were installed within the Parramatta River foreshore in the northern portion of the site (MW2 and MW3), with one in the south-eastern portion of the site (MW1, upgradient from the site).

MW1 was installed to a depth of 6 m bgs, with MW2 and MW3 installed to depths of 4 m bgs. The wells were constructed from 50 mm unplasticised polyvinyl chloride (uPVC) screen and casing, combined with a lockable cap and steel gatic cover. The screen was installed such that the encountered water level was within the screened interval, allowing for the detection of Light Non-Aqueous Phase Liquids (LNAPLs), if present. Surrounding the uPVC screen a graded (2mm) sand was utilised to construct a 'gravel pack' which limited clogging of the screen with excess soils. Additionally, above the screened interval, a bentonite seal was installed to reduce the potential for surface water, perched water and/or liquid phase contaminants to enter the well from outside the screened interval. The steel gatic cover was installed in concrete consistent with the surrounds.

After installation, the monitoring wells were developed to remove excess silt and sediment resultant from the installation process. The wells were then allowed to settle for six days prior to sampling.

5.4.1 Groundwater Sampling Methodology

Groundwater monitoring wells utilised for the assessment of groundwater at the site are shown in **Figure 3** comprising existing (BH1 and BH4) and newly installed monitoring wells (MW1 to MW3). Prior to sampling, standing water at the top of the monitoring wells was collected utilising a clear bailer to assess the potential presence of Light Non-Aqueous Phase Liquid (LNAPL). Following this, the monitoring wells were purged using a low-flow peristaltic pump and flow cell. Standing water within the monitoring wells was pumped out at the highest possible flow-rate whilst ensuring that minimal fluctuations in depth to water occurred. A flow cell was used to facilitate the continuous monitoring of water quality parameters using a water quality meter, that included: electrical conductivity (EC); redox potential (Eh); pH; dissolved oxygen (DO); and temperature. As per sampling guidance provided by the Victorian EPA (April 2000) - *Groundwater Sampling Guidelines,* groundwater samples were collected when:

- Consecutive EC readings are within 3%;
- Consecutive Eh readings are within 10mV;
- Consecutive DO readings are within 10%;
- Consecutive pH readings are within 0.05; and
- Consecutive temperature readings are within 0.2°C.

Sampling notes were completed for each monitoring well detailing parameter stabilisation and sampling observations. Collected groundwater samples were immediately filtered (as necessary) and transferred to laboratory supplied sample bottles specific to each analyte. Sample containers were then transferred to a chilled iced box for sample preservation prior to and during shipment to the testing laboratory. A chain-of-custody form was completed and forwarded with each sample batch to the laboratory. Groundwater samples were analysed in accordance with **Table 5.3**.



5.4.2 Decontamination

Prior to the commencement of soil sampling activities, non-disposable sampling equipment, including augers were cleaned with a high pressure water/detergent spray, rinsed with water and then air dried. The equipment was inspected to ensure that no soil, debris or other contaminants were apparent on the equipment prior to the commencement of works. Sampling equipment were subsequently decontaminated using the above process between each sampling location.

A rinsate sample was obtained from non-disposable sampling equipment following completion of field sampling activities to determine the effectiveness of the decontamination procedures implemented on re-usable sampling equipment.

5.4.3 Duplicate and Triplicate Sample Preparation

At selected sample locations, sufficient soil and groundwater was collected to provide a primary, blind (intra-laboratory) duplicate and split (inter-laboratory) duplicate (triplicate) samples using the sampling methodology outlined above.

The collected soil samples were divided laterally into three samples with minimal disturbance to reduce the potential for loss of volatiles and placed in three clean glass jars and sample bags as appropriate. Soil samples were not homogenised in order to minimise the loss of volatiles. Similarly, to soil, groundwater was divided laterally into three sample bottles with minimal disturbance to volatile contaminants.

Each sample was labelled with primary, duplicate or triplicate sample identification before being placed in the same chilled esky for transport to the laboratory.

5.4.4 Laboratory Analysis

JBS&G contracted Eurofins MGT (Eurofins) as the primary laboratory for the required chemical analyses. The secondary laboratory was Envirolab Services Pty Ltd (Envirolab). Both laboratories were NATA accredited for the required analyses. In addition, the laboratories were required to meet JBS&G's internal quality assurance/quality control (QA/QC) requirements. The completed analysis schedule is summarised in **Table 5.3**.

Sample Type	No. of Sampling Locations	Analyses (exc. QA/QC)
Soil	23	Heavy metals – 32 samples
		PAH – 32 samples
		TRH/VOCs – 15 samples
		OCP/PBBs – 6 samples
		Asbestos (500 mL) – 22 samples
Groundwater	5	Heavy metals – 5 samples
		PAH (low level) – 5 samples
		TRH/VOCs – 5 samples

Table 5.3 Analytical Schedule

In addition to the above primary analyses, to address the DQIs, field duplicate and triplicate soil samples were analysed at a rate of one per 20 primary samples. A rinsate sample was also obtained from non-disposable sampling equipment at the completion of sampling activities. Trip spike and trip blank samples were also analysed for BTEX to accompany the sampling event.



6. Assessment Criteria

6.1 Regulatory Guidelines

The following guidelines are applicable to this investigation:

- National Environment Protection (Assessment of Site Contamination) Measure 1999, National Environment Protection Council, 2013 (NEPC 2013);
- Contaminated Sites: Sampling Design Guidelines, NSW EPA, 1995 (EPA 1995);
- Contaminated Sites: Guidelines for Consultants Reporting on Contaminated Sites, NSW OEH, 2011 (OEH 2011);
- Contaminated Sites: Guidelines for the NSW Site Auditor Scheme, 3rd Edition, NSW EPA, October 2017 (EPA 2017);
- Contaminated Sites: Guidelines for the Assessment and Management of Groundwater Contamination, NSW Department of Environment and Conservation, March 2007 (DEC 2007);
- Australian and New Zealand Guidelines for Fresh and Marine Water Quality, Australian and New Zealand and Australian State and Territory Governments (ANZG, August 2018); and
- Guidelines for the Assessment Remediation and Management of Asbestos-Contaminated Sites in Western Australia, May 2009. Western Australia Department of Health (DOH), (DOH 2009).

6.2 Soil Assessment Criteria Selection

With consideration to the recreational and open-space land use of the site, the concentrations of contaminants in the soil have been compared against NEPC (2013) health based investigation and screening levels (HILs and HSLs), and ecological investigation and screening levels (EILs and ESLs), as outlined below:

- HILs for recreational/open space land use NEPC 2013 HIL-C;
- HSLs for petroleum hydrocarbons considering potential for vapour intrusion, coarse and fine grained soil for commercial/industrial land use as a conservative measure, at levels from 0-4.0 m bgs – NEPC 2013 HSL-D;
- HSLs for asbestos levels in soil for recreational/open space land use NEPC 2013 HSL-C;
- Aesthetic considerations NEPC 2013;
- EILs/ESLs for recreational/open space land use, coarse and fine grained soils (NEPC 2013); and (if required)
- Management Limits for TRH, coarse and fine grained soils for recreational/open space land use NEPC 2013.

Where there were no NSW EPA endorsed thresholds the laboratory LOR was adopted as an initial screening value for the purposes of this assessment.

Site-specific EILs were not derived for the site as the identification of multiple types of fill material during the investigation prohibited the derivation of reliable site specific EILs. The EILs used for this assessment are the most conservative values for the intended land use.

These background concentrations were consistent with the background heavy metal concentrations within natural soils from the site (from sample MW2-4.0), outlined in **Section 8** below.



Table 6.1 Average Background Concentrations

Contaminant	ABC*
Arsenic	5
Chromium (III)	8
Copper	18
DDT	Not Applicable
Lead	104
Naphthalene	Not Applicable
Nickel	5
Zinc	77

* ABCs based on Henry Olszowy Et Al. 1995; NSW, old suburbs, low traffic, 25 percentiles

6.3 Groundwater Assessment Criteria Selection

Groundwater analytical data for this assessment has been compared against the following groundwater criteria:

- ANZAST (2018) 95% Trigger Values for Marine and Fresh Water Aquatic Ecosystems (which ever was the lower value as a conservative measure); and
- HSLs for vapour intrusion for low-high density residential land uses for coarse grained soils (sand).

Guideline values for the protection of marine water ecosystems have been adopted noting the proximity of the site to Parramatta River. Australian Drinking Water Guidelines were not considered to be applicable to groundwater as there is no known beneficial use within the highly urbanised area.



7. Quality Assurance/Quality Control

The results of the quality assurance and quality control (QA/QC) assessment are provided in **Appendix L**.

In summary, based on the results of the QA/QC assessment the field sampling and handling procedures across the site produced QA/QC results which indicate that the soil data collected as part of the intrusive investigation is of an acceptable quality.

The NATA certified laboratory reports indicate that the project laboratories were achieving levels of performance within its recommended control limits during the period when the samples from this program were analysed.

Based on the results of the field and laboratory QA/QC program, the soil and groundwater data is of an acceptable quality upon which to draw conclusions regarding the environmental condition of the site.



8. Results

8.1 Soil Observations

Soil sampling was conducted at the assessment area on 28 February 2020. Sample locations are shown on **Figure 3**, with investigation logs summarising observations presented in **Appendix I**.

All sample locations encountered ground surface conditions comprising either bitumen, concrete, mulch, or grass. Fill material was comprising brown/dark brown/grey heterogeneous, sandy clayey silt with inclusions of bitumen (2-5 mm), mulch, brick, concrete, gravels and tiles. Depth of fill material ranged between 0 to 1.1 m bgs across the main portion of the site, with greater fill depths within the Parramatta River foreshore (up to 4.0 m bgs). No visible ACM was noted at any of the sample locations. Slight odours were recorded at SB5 (0.2 m), MW1 (0.2 m and 0.5 m), MW3 (2.0 m). Grey stained soils were observed at MW3 (2.0 m). It was unable to be reliably determined as to whether odours and/or staining were consequent of naturally occurring sources.

Fill materials were generally underlain by fine-grained to medium-grained homogeneous silty clayey sand/clay/sandstone. No elevated PID readings were measured, indicating low potential for typical volatile organic contaminants. Field calibration sheets are provided in **Appendix K**.

8.2 Soil Analytical Results

Soil sampling locations are shown on **Figure 3**. Detailed laboratory reports and chain of custody documentation are provided in **Appendix J**. Summarised soil laboratory results including results from EIS (2013), JBS&G (2016a) and JBS&G (2016b) locations are presented in **Table A**. Soil results are discussed in the following sections.

8.2.1 Heavy Metals

A range of heavy metal concentrations exceeded the lowest of the adopted ecological criteria that may be derived. These included elevated levels of copper, nickel, lead and zinc with concentration ranges of:

- 68-240 mg/kg for copper;
- 36-130 mg/kg for nickel;
- 610-1400 mg/kg for lead; and
- 75-820 mg/kg for zinc.

Lead concentrations also exceeded the adopted human health criterion (HIL C 600 mg/kg) at the following locations:

- MW1_0.2 with a concentration of 610 mg/kg (JBS&G 2020);
- SB13_0.2 with a concentration of 810 mg/kg (JBS&G 2020);
- HA01_0.15-0.25 with a concentration of 1,400 mg/kg (JBS&G 2016a); and
- HA04_0.5-0.6 with a concentration of 840 mg/kg (JBS&G 2016a).

Statistical analysis was not undertaken on the lead data set due to the variation and heterogeneity of fill material. In addition, lead concentrations at HA01_0.15-0.25 exceeds 250 % of the adopted criterion, which precludes use of a 95% UCL calculation to determine compliance with assessment criteria.



8.2.2 TRH/BTEX

Concentrations of TRH in soil samples were generally reported to be below the laboratory LOR or less than the adopted health based and ecological criteria for analysed soil samples with the exception of TRH F2 Fraction exceeding the adopted ecological criteria at MW1_0.5 (400 mg/kg concentration exceeding the ESL criterion of 120 mg/kg).

No BTEX compounds were reported at concentrations above laboratory LOR in analysed soil samples.

8.2.3 PAHs

Naphthalene was not reported above laboratory LOR within analysed soil samples.

PAHs were generally reported below the adopted soil criteria with the exception of B(a)P and carcinogenic PAHs (as B(a)P TEQs). BaP exceeded the adopted ecological criterion (ESL 0.7 mg/kg) at multiple locations across the site with concentrations ranging from 0.8-9.2 mg/kg. Carcinogenic PAHs (as B(a)P TEQ) was reported as exceeding the adopted human health criterion (HIL C 3 mg/kg) at the following locations:

- SB12_0.2 with a concentration of 10.62 mg/kg (JBS&G 2020);
- BH3 0.15-0.25 and BH3 0.4-0.5 with concentrations of 14 mg/kg and 6.4 mg/kg respectively (JBS&G 2016b);
- BH6 1.2-1.3 with a concentration of 3.8 mg/kg (JBS&G 2016b);
- HA01_0.15-0.25 with a concentration of 6.5 mg/kg (JBS&G 2016a);
- HA02_0.18-0.28 with a concentration of 6.3 mg/kg (JBS&G 2016a); and
- BH2_1.5-1.95 with a concentration of 4 mg/kg (EIS 2013).

Statistical analysis was not conducted as multiple concentrations of carcinogenic PAHs as B(a)P TEQ exceeded 250 % of the adopted criterion, which precludes use of a 95% UCL calculation to determine compliance with assessment criteria.

8.2.4 PCBs

PCBs were generally reported below the laboratory LOR, with the exception of SB12_0.2 with a concentration of 1.2 mg/kg, exceeding the adopted human health criterion of 1 mg/kg.

8.2.5 OCPs

OCPs were not reported above laboratory LOR in any of the analysed soil samples.

8.2.6 VOCs

VOCs were not reported above laboratory LOR in any of the analysed soil samples.

8.2.7 Asbestos

During previous investigations within the cottage substation located at 42 Phillip Street, Parramatta (JBS&G 2016a), one fragment of ACM was identified at HA05. Friable asbestos was also detected in sample HA01 (0.15-0.25) during the 2016 substation investigation, with a concentration of 0.0014 % w/w, exceeding the adopted human health criterion of 0.001 % w/w. Asbestos was not identified by the laboratory within the underlying sample HA01 (0.5-0.6).

A total of 22 soil samples were analysed for asbestos as part of this investigation. No asbestos (AF/FA) or ACM was identified during intrusive investigations of by the laboratories in the analysed samples.



8.3 Groundwater Field Observations

A groundwater monitoring event (GME) including sampling of the three installed monitoring wells and two existing wells on 6 March 2020 by an appropriately trained and experienced environmental consultant. Stabilised groundwater parameters as measured in the field prior to the collection of groundwater samples in this investigation are presented in **Table B** and summarised as follow:

- Recovered groundwater was observed to be grey-brown, slightly turbid to clear with no odours or sheen observed at any location;
- pH ranged from 6.28 (BH4) to 7.34 (MW1) indicating neutral conditions;
- Electrical Conductivity (EC) ranged from 817 μS/cm (MW1) to 1710 μS/cm (BH4), indicating a brackish water environment;
- Field redox (Eh) ranged from -39.3 mV (BH4) to 661.4 mV (MW1);
- Dissolved Oxygen (DO) ranged from 0.15 ppm (BH1) to 1.64 ppm (MW1), indicating slightly aerobic conditions; and
- Temperature ranged from 23.5°C (BH4) to 25.4°C (BH1).

Depths to groundwater are summarised in **Table 8.1** below.

Table 8.1 Depth to Groundwater (6 March 2020)

Well Reference	Depth to Groundwater (m bgs)
MW1	3.682
MW2	1.334
MW3	1.981
BH1	4.950
BH4	1.390

Based on the site topography and the well depth to groundwater, groundwater is inferred to flow in a northerly direction towards Parramatta River.

8.4 Groundwater Analytical Results

Detailed laboratory reports and chain of custody documentation are provided in **Appendix J**. Summarised groundwater analytical data for COPCs are presented in **Table C**. The results are discussed in **Section 8.4.1** to **Section 8.4.4**.

8.4.1 Metals

Heavy metal concentrations within the analysed samples were all reported to be below the adopted site assessment criteria with the exception of the following:

- Copper was detected at concentrations exceeding the adopted ecological criterion (0.0013 mg/L) in MW1 and MW3, with concentrations of 0.002 mg/L; and
- Zinc was detected at concentrations exceeding the adopted ecological criterion (0.008 mg/L) in MW1, MW2 and MW3, with concentrations ranging from 0.01 mg/L to 0.078 mg/L.

8.4.2 TRH/BTEX

TRH/BTEX were reported to be at concentrations below the laboratory LORs within the analysed samples.

8.4.3 PAHs

PAHs were reported to be at concentrations below the laboratory LORs within the analysed samples.



8.4.4 VOCs

VOCs were reported to be at concentrations below the laboratory LORs within the analysed samples.



9. Site Characterisation

Based on the decision-making process for assessing urban redevelopment sites detailed in EPA (2017) and discussed in **Section 5.1.5**, the decisions required to be made are discussed below.

9.1 Are there any unacceptable risks to onsite future receptors from soil?

In reference to the decision rules developed in **Section 5.1.5**, the following sections discuss potential risks posed to future onsite receptors from impacted media present at the site.

9.1.1 Soil Contamination

The results of the sampling and laboratory analysis program has resulted in the identification of several areas of contamination concern with regard to site soils as presented in **Figure 3** and outlined below.

Heavy Metals

Individual nickel, copper and zinc concentrations were reported to be at concentrations exceeding the adopted nickel EIL criterion in multiple samples selected for analysis across the site, including from previous environmental assessments as detailed in **Section 3.7**. Lead concentrations were also exceeding the adopted human health criterion at multiple locations across the site.

Apart from lead, levels of nickel, copper and zinc are considered to be consistent with anticipated levels in a historically urbanised area and not considered to pose a potential ecological risk with respect to the proposed development of the site. Locations where lead concentrations exceeded human health criteria for open space land use were generally restricted to shallow depths, as consistent with the vertical extent and historical placement of imported fill materials on the site. These hotspots will require remediation/management during the proposed development.

<u>PAHs</u>

Concentrations of B(a)P exceeded the adopted ecological criterion at multiple locations across the site. It is noted that NEPC (2013) Schedule B7 guidance¹⁴ notes that plant uptake of anthropogenic PAHs is limited. Therefore, it is considered that these B(a)P ecological exceedances do not represent an unacceptable risk to ecological receptors requiring remediation or management during the proposed development.

Carcinogenic PAHs (as B(a)P TEQ) at locations where concentrations significantly exceed the adopted human health criterion require remediation/management during the proposed development.

<u>PCBs</u>

Elevated PCB concentrations above the adopted human health criterion at one location (SB12) requires remediation/management during the proposed development.

¹⁴ NEPC (2013) has advised that plants grown on PAH contaminated soil have only limited ability to take up and incorporate anthropogenic PAHs through their roots and into their biomass, especially those PAHs with higher molecular weights including benzo(a)pyrene. Physical and biochemical processes within soil and the soil ecosystem in conjunction with the low solubility of benzo(a)pyrene generally result in benzo(a)pyrene bonding firmly to soil particles or the outside layers of root tissue with uptake rates being very slow and/or non-existent. As such, it was concluded that benzo(a)pyrene ecological exceedances did not represent an unacceptable risk requiring remediation or management.



<u>Asbestos</u>

Friable asbestos was identified to exceed the human health criteria for open space land use at location HA01 (JBS&G 2016a). This location requires remediation/management for asbestos during the proposed development.

Concentrations of asbestos (in bonded and friable form) at all other sample locations were reported below the adopted site criteria.

9.1.2 Groundwater

Elevated levels of copper and zinc were identified during the groundwater investigation. It is considered that these heavy metal concentrations are representative of minor influences of the surrounding urban environment rather than specific point sources of contamination, and further there was no indication of a site-specific source of groundwater impact. Therefore, it is considered that the elevated copper and zinc concentrations in groundwater do not pose an unacceptable risk that requires remediation or management.

9.2 Are there any issues relating to the local area background soil concentrations that exceed appropriate soil criteria?

In-situ natural site soils were analysed as part of the assessment. Reported contaminant concentrations present within natural soils were all within background levels for urban areas published in NEPC (2013). On this basis, there are considered to not be any issues associated with background soil concentrations that require further consideration.

9.3 Are there any chemical mixtures?

There were no potential chemical mixtures identified during the investigation that may pose an unacceptable contamination issue with respect to development and/or future permissible land uses.

9.4 Are there any aesthetic issues?

Inspection of the ground surface and excavated spoil was undertaken during the intrusive investigation for the presence of discolouration, fibrous cement fragments that may contain asbestos or other indications of potential land contamination. The inspection did not identify the presence of significantly odorous soils, hydrocarbon staining, ACM or other inclusions which may represent an aesthetic issue.

Trace anthropogenic inclusions such as bricks, road base gravels, asphalt, terracotta and tile were observed to be present in fill materials at some locations. However, the amount of anthropogenic inclusions was minor and the proposed development plans include sealing of the majority of ground surfaces to support overlying built form. Therefore, the anthropogenic inclusions in fill material are considered not to pose an unacceptable risk to the proposed land use or require management/remediation. Notwithstanding the more predominant occurrences occur with areas of the highest levels of soil impact, and will be addressed by remediation of these areas.

Based on the preliminary design plans provided by the client, some garden beds and open space landscaped areas are also proposed. Site fill material is considered to be of limited use within the garden beds due to anthropogenic inclusions, and suitable topsoil as approved by the landscapers or arborists should be (and is anticipated to be) used.

On this basis, there are not considered to be unacceptable aesthetic concerns at the site that will require ongoing management given the proposed land use of the site.



9.5 Is there any evidence of, or potential for, migration of contaminants from the site?

The potential for migration of contaminants from the site was considered to be low, based on the following:

- Site investigations did not identify leachable COPCs in soils that could mobilise to groundwater and migrate off-site;
- The investigation did not identify significant groundwater impacts underlying the site;
- Given that the site is largely covered with grass and hardstand pavements, dust and water erosion potential is minimised.

9.6 Is a site management strategy required?

Yes, a site management strategy is required to remediate and/or manage the identified lead, PAH, PCB and asbestos soil contamination at the site. A Remedial Action Plan (RAP, JBS&G 2020a) has been prepared and will be implemented in accordance with the relevant regulatory requirements and documents the procedures and standards to be followed in order to address the identified soil impacts at the site that will be remediated/managed during the Powerhouse Parramatta redevelopment works.

Due to identified potential ASS impacts that may be present at depth (and encountered during piling works or otherwise deep excavations), an Acid Sulfate Soil Management Plan (ASSMP) has been prepared (JBS&G 2020b). The ASSMP details the required management and treatment procedures to follow should ASS/PASS be encountered.



10. Conclusions and Recommendations

Based on the scope of work and subject to the limitations in **Section 11**, the following conclusions have been made:

- The review of historical site use information and inspection of site conditions identified potential areas of environmental concern and associated contaminants of concern which were associated with potential importation of fill materials from unknown origins and the historical operation of an electrical substation;
- Fill material comprised brown/dark brown/grey heterogeneous sandy clayey silt with inclusions of bitumen, mulch, brick, concrete, gravels and tiles. Depth of fill material ranged between 0 to 1.1 m bgs across the main portion of the site, with greater fill depths within the Parramatta River foreshore (up to 4.0 m bgs);
- Anthropogenic inclusions of plastic, concrete, brick, sandstone gravels, and slag were
 observed in fill materials. The relative quantity of these inclusions in fill are such that they
 are not considered to pose an unacceptable aesthetic issue for the proposed land use,
 presuming that the site surface across the proposed redevelopment will be finished with
 imported landscaping materials including soil and grass/shrubs/trees etc, new hardstand
 areas and new buildings;
- Intrusive soil investigations completed here and historically identified the following:
 - Elevated levels of heavy metals, TRHs and PAHs exceeding the adopted ecological criteria;
 - Elevated isolated hotspots with concentrations of lead, PAHs, polychlorinated bihenyls (PCBs) and asbestos exceeding the adopted human health criteria for the proposed recreational open space land use. These impacts are considered to be associated with constituents present in fill materials on the site, and were generally restricted to shallow depths, as consistent with the vertical extent and historical placement of imported fill materials on the site and pose a potential risk to future on-site receptors if not remediated/managed;
 - Elevated levels of heavy metals exceeding ecological criteria, apart from the highest levels of lead, are not considered likely to potential ecological risk on the site, noting the historical urbanised location of the site; and
- An assessment of groundwater was undertaken by a comparison of levels of environmental constituents present in hydrogeologically upgradient and downgradient monitoring wells. Levels of environmental constituents were found to be consistent with anticipated levels within an historically urbanised area, and further there was no indication of a site-specific source of groundwater impact.

Based on the results of the investigation and subject to the limitations in **Section 11**, the following recommendations have been made:

 It is recommended that a RAP is prepared detailing the required remediation and/or ongoing management works to address the highest levels of lead, PAHs, PCBs and asbestos impacted soils on the site, as well as an ASSMP outlining the relevant management requirements if acid sulfate soils are encountered. The RAP (JBS&G 2020a) and ASSMP (JBS&G 2020b) have been prepared and submitted in conjunction with this report.



11. Limitations

This report has been prepared for use by the client who has commissioned the works in accordance with the project brief only, and it has been based in part on information obtained from the client and other parties.

The advice herein relates only to this project and all results conclusions and recommendations made should be reviewed by a competent person with experience in environmental investigations, before being used for any other purpose.

JBS&G accepts no liability for use or interpretation by any person or body other than the client who commissioned the works. This report should not be reproduced without prior approval by the client or amended in any way without prior approval by JBS&G, and it should not be relied upon by other parties, who should make their own enquires.

Sampling and chemical analysis of environmental media is based on appropriate guidance documents made and approved by the relevant regulatory authorities. Conclusions arising from the review and assessment of environmental data are based on the sampling and analysis considered appropriate based on the regulatory requirements.

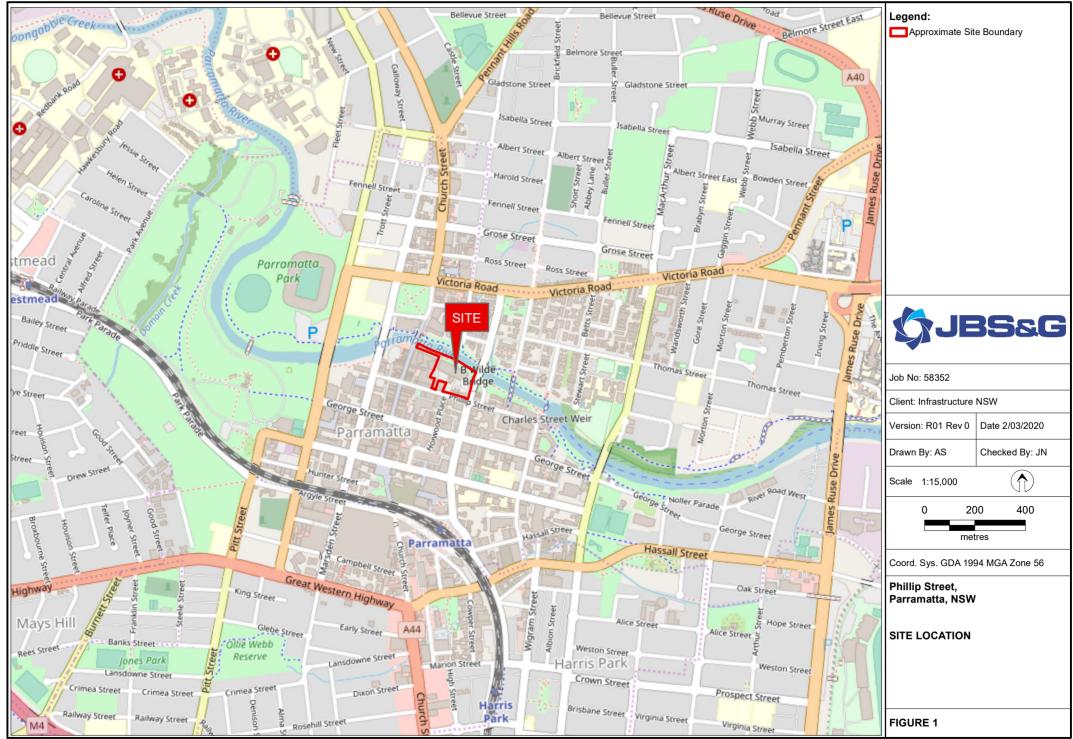
Limited sampling and laboratory analyses were undertaken as part of the investigations undertaken, as described herein. Ground conditions between sampling locations and media may vary, and this should be considered when extrapolating between sampling points. Chemical analytes are based on the information detailed in the site history. Further chemicals or categories of chemicals may exist at the site, which were not identified in the site history and which may not be expected at the site.

Changes to the subsurface conditions may occur subsequent to the investigations described herein, through natural processes or through the intentional or accidental addition of contaminants. The conclusions and recommendations reached in this report are based on the information obtained at the time of the investigations.

This report does not provide a complete assessment of the environmental status of the site, and it is limited to the scope defined herein. Should information become available regarding conditions at the site including previously unknown sources of contamination, JBS&G reserves the right to review the report in the context of the additional information.

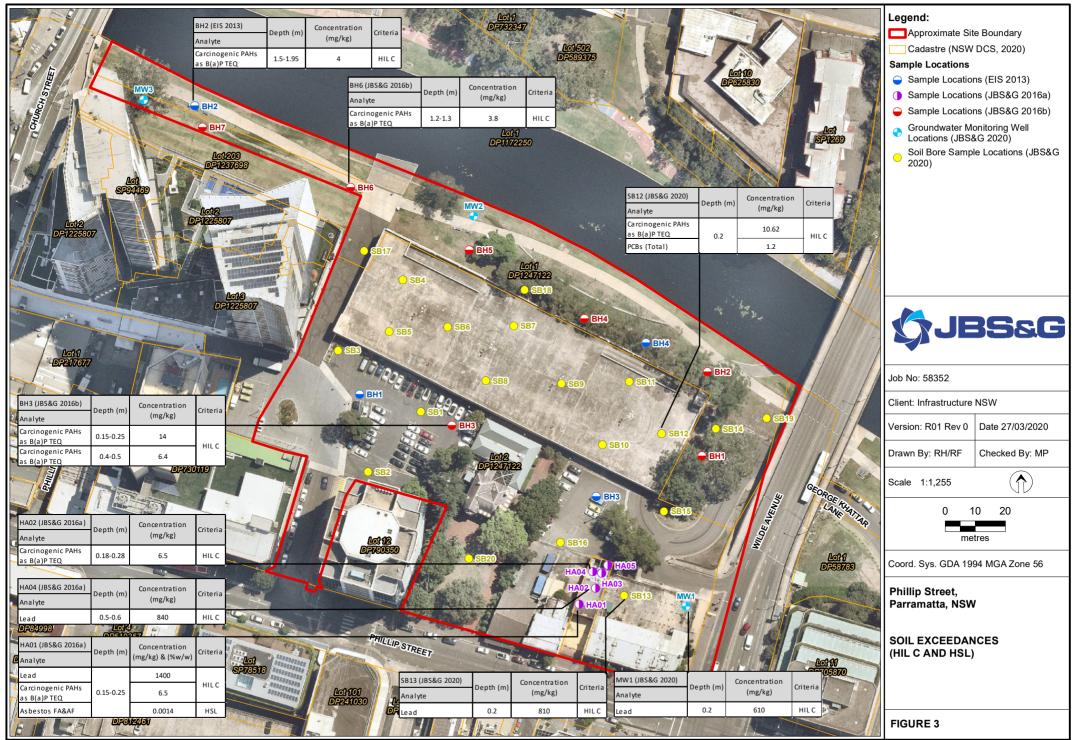


Figures

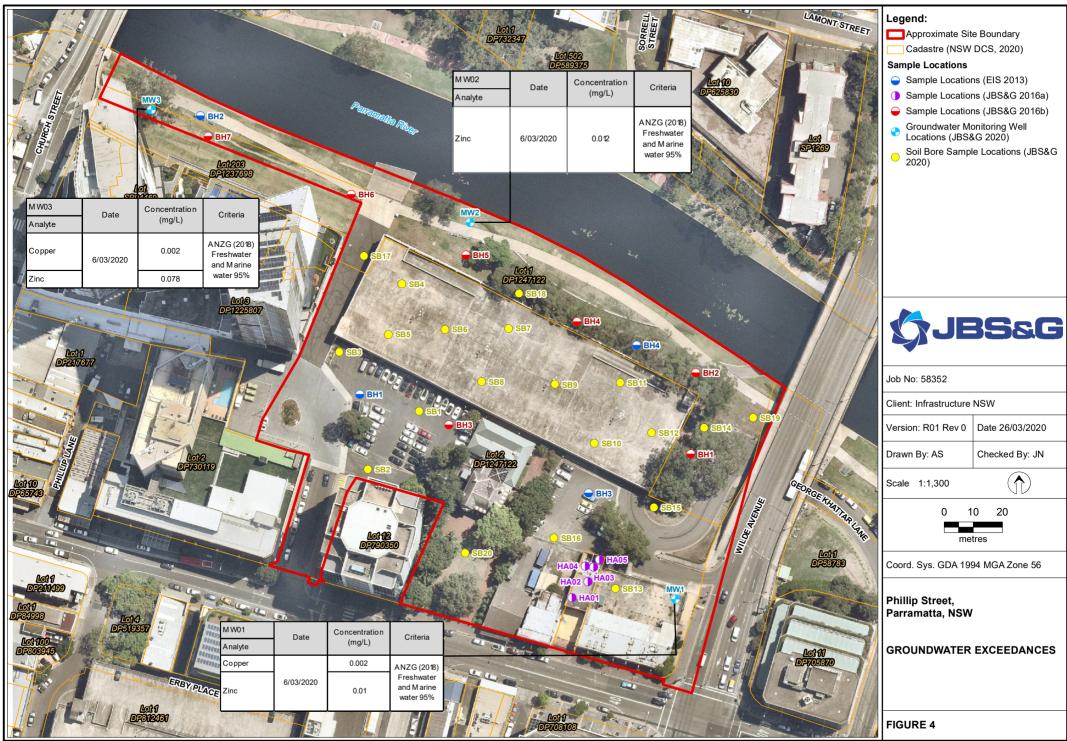


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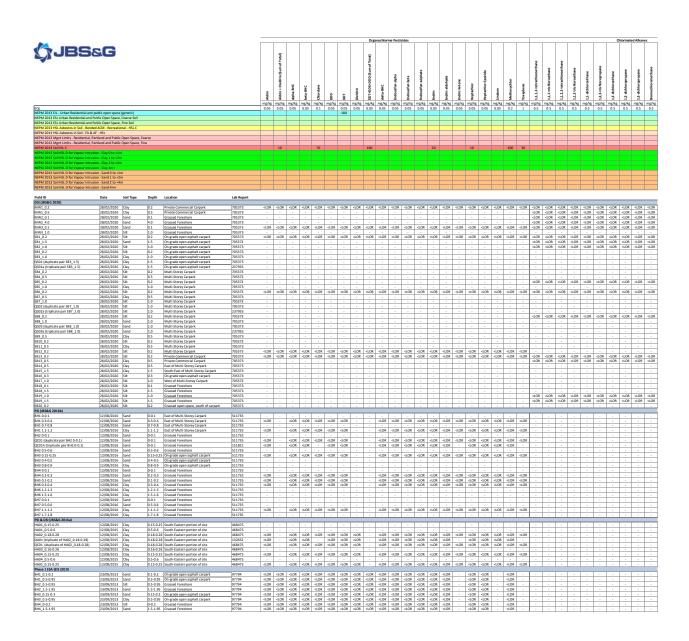


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Appendix A Summary Tables

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QS01a (triplicate pair SB3_1.5) SB4_0.2	28/02/2020 Clay 28/02/2020 Silt	1.5 On-grade open asphalt carpark 23793 0.2 Multi-Storey Carpark 70537	5 - 3 -		· · ·		· ·	-					· ·	-	-	•	· ·	-	-	· ·	-	· ·	-			· ·		· ·	-		-			-	· ·	<lor< th=""><th></th><th></th></lor<>		
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QS03 (duplicate pair S88_1.0) QS03a (triplicate pair S88_1.0) S89_0.5	28/02/2020 Sand 28/02/2020 Sand 28/02/2020 Clav	1.0 Multi-Storey Carpark 23793	5 -		· · ·										-	•													-							- -		5.4
589_0.5 5810_0.2 5811_0.5	28/02/2020 Clay 28/02/2020 Sit 28/02/2020 Clay	0.5 Multi-Storey Carpark 705373 0.2 Multi-Storey Carpark 705373 0.5 Multi-Storey Carpark 705373	3 .					-						-	-				-		-		-						-					-		<lor <lor <lor< th=""><th>KLOR -</th><th>12 4.3 12</th></lor<></lor </lor 	KLOR -	12 4.3 12
5812 0.2	28/02/2020 Sit	0.5 Milli-storey Carpank 70537 0.2 Multi-Storey Carpank 70537 0.2 Private Commercial Carpank 70537	3 .	- -	· · · ·	- - 8 (108 (· ·	- -					· · ·		-	<lor 4<="" th=""><th>LOR <lo< th=""><th></th><th>1.2 <</th><th>LOR <lor< th=""><th>1.2</th><th></th><th>- - R <108</th><th></th><th>· ·</th><th></th><th></th><th> </th><th></th><th>· ·</th><th>R (108</th><th></th><th></th><th>-</th><th> </th><th><lor <lor< th=""><th><lor -<="" th=""><th>4.2</th></lor></th></lor<></lor </th></lor<></th></lo<></th></lor>	LOR <lo< th=""><th></th><th>1.2 <</th><th>LOR <lor< th=""><th>1.2</th><th></th><th>- - R <108</th><th></th><th>· ·</th><th></th><th></th><th> </th><th></th><th>· ·</th><th>R (108</th><th></th><th></th><th>-</th><th> </th><th><lor <lor< th=""><th><lor -<="" th=""><th>4.2</th></lor></th></lor<></lor </th></lor<></th></lo<>		1.2 <	LOR <lor< th=""><th>1.2</th><th></th><th>- - R <108</th><th></th><th>· ·</th><th></th><th></th><th> </th><th></th><th>· ·</th><th>R (108</th><th></th><th></th><th>-</th><th> </th><th><lor <lor< th=""><th><lor -<="" th=""><th>4.2</th></lor></th></lor<></lor </th></lor<>	1.2		- - R <108		· ·			 		· ·	R (108			-	 	<lor <lor< th=""><th><lor -<="" th=""><th>4.2</th></lor></th></lor<></lor 	<lor -<="" th=""><th>4.2</th></lor>	4.2
5813_0.2 5813_0.5 5814_0.5	28/02/2020 Silt 28/02/2020 Clay 28/02/2020 Clay	0.5 Private Commercial Carpark 70537 0.5 East of Multi-Storey Carpark 70537	3 <10	LOR <	10R <10R <10		LOR <lof< th=""><th>t «LOR</th><th><108 <1</th><th>DR <lor< th=""><th><10R <1</th><th>DR <lor< th=""><th><lor <lor<="" th=""><th><lor< th=""><th><lor< th=""><th>-</th><th>· ·</th><th>-</th><th>-</th><th></th><th>-</th><th><lor <lor<="" th=""><th>R <lor< th=""><th><lor <l0<="" th=""><th>R <lor< th=""><th></th><th></th><th></th><th><lor< th=""><th><lor <lo<="" th=""><th></th><th><lor th="" ·<=""><th><lor< th=""><th><lor .<="" th=""><th>LOR <lor< th=""><th></th><th><10R 40</th><th>R 16 R 16 9.4</th></lor<></th></lor></th></lor<></th></lor></th></lor></th></lor<></th></lor<></th></lor></th></lor<></th></lor></th></lor<></th></lor<></th></lor></th></lor<></th></lor<></th></lof<>	t «LOR	<108 <1	DR <lor< th=""><th><10R <1</th><th>DR <lor< th=""><th><lor <lor<="" th=""><th><lor< th=""><th><lor< th=""><th>-</th><th>· 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SB15_1.5	28/02/2020 Clay 28/02/2020 Silt	1.5 South-East of Multi-Storey Carpark 70537	3 .	-	· · ·										-	•													-		-		:	-		<lor <lor< th=""><th><lor -<="" th=""><th>11 7.5</th></lor></th></lor<></lor 	<lor -<="" th=""><th>11 7.5</th></lor>	11 7.5
5816_0.3 5817_1.0 5818_0.1	28/02/2020 Silt 28/02/2020 Silt	0.3 On-grade open asphalt carpark 705373 1.0 West of Multi-Storey Carpark 705373 0.1 Grassed Foreshore 705373	3		· · ·	-	· ·	•		-				-		•			-		-	· ·	•		•				-				-	-	· ·	<lor <lor< th=""><th><lor -<="" th=""><th>11</th></lor></th></lor<></lor 	<lor -<="" th=""><th>11</th></lor>	11
5818_1.5 5819_1.0	28/02/2020 Silt 28/02/2020 Silt	1.5 Grassed Foreshore 70537 1.0 Grassed Foreshore 70537	3 <14												<lor< th=""><th>•</th><th>· ·</th><th>-</th><th>-</th><th></th><th>-</th><th></th><th>R <lor< th=""><th> «LOR «LO</th><th>R <lor< th=""><th> <lor <lo<="" th=""><th>1 <lor <<="" th=""><th> LOR <lor< th=""><th><lor< th=""><th></th><th>R <lor< th=""><th></th><th><lor< th=""><th><lor th="" •<=""><th>LOR <lor< th=""><th></th><th></th><th>12 9.9 R 6.3 R 14</th></lor<></th></lor></th></lor<></th></lor<></th></lor<></th></lor<></th></lor></th></lor></th></lor<></th></lor<></th></lor<>	•	· ·	-	-		-		R <lor< th=""><th> «LOR «LO</th><th>R <lor< th=""><th> <lor <lo<="" th=""><th>1 <lor <<="" th=""><th> LOR <lor< th=""><th><lor< th=""><th></th><th>R <lor< th=""><th></th><th><lor< th=""><th><lor th="" •<=""><th>LOR <lor< th=""><th></th><th></th><th>12 9.9 R 6.3 R 14</th></lor<></th></lor></th></lor<></th></lor<></th></lor<></th></lor<></th></lor></th></lor></th></lor<></th></lor<>	 «LOR «LO	R <lor< th=""><th> <lor <lo<="" th=""><th>1 <lor <<="" th=""><th> LOR <lor< th=""><th><lor< th=""><th></th><th>R <lor< th=""><th></th><th><lor< th=""><th><lor th="" •<=""><th>LOR <lor< th=""><th></th><th></th><th>12 9.9 R 6.3 R 14</th></lor<></th></lor></th></lor<></th></lor<></th></lor<></th></lor<></th></lor></th></lor></th></lor<>	 <lor <lo<="" th=""><th>1 <lor <<="" th=""><th> LOR <lor< th=""><th><lor< th=""><th></th><th>R <lor< th=""><th></th><th><lor< th=""><th><lor th="" •<=""><th>LOR <lor< th=""><th></th><th></th><th>12 9.9 R 6.3 R 14</th></lor<></th></lor></th></lor<></th></lor<></th></lor<></th></lor<></th></lor></th></lor>	1 <lor <<="" th=""><th> LOR <lor< th=""><th><lor< th=""><th></th><th>R <lor< th=""><th></th><th><lor< th=""><th><lor th="" •<=""><th>LOR <lor< th=""><th></th><th></th><th>12 9.9 R 6.3 R 14</th></lor<></th></lor></th></lor<></th></lor<></th></lor<></th></lor<></th></lor>	 LOR <lor< th=""><th><lor< th=""><th></th><th>R <lor< th=""><th></th><th><lor< th=""><th><lor th="" •<=""><th>LOR <lor< th=""><th></th><th></th><th>12 9.9 R 6.3 R 14</th></lor<></th></lor></th></lor<></th></lor<></th></lor<></th></lor<>	<lor< th=""><th></th><th>R <lor< th=""><th></th><th><lor< th=""><th><lor th="" •<=""><th>LOR <lor< th=""><th></th><th></th><th>12 9.9 R 6.3 R 14</th></lor<></th></lor></th></lor<></th></lor<></th></lor<>		R <lor< th=""><th></th><th><lor< th=""><th><lor th="" •<=""><th>LOR <lor< th=""><th></th><th></th><th>12 9.9 R 6.3 R 14</th></lor<></th></lor></th></lor<></th></lor<>		<lor< th=""><th><lor th="" •<=""><th>LOR <lor< th=""><th></th><th></th><th>12 9.9 R 6.3 R 14</th></lor<></th></lor></th></lor<>	<lor th="" •<=""><th>LOR <lor< th=""><th></th><th></th><th>12 9.9 R 6.3 R 14</th></lor<></th></lor>	LOR <lor< th=""><th></th><th></th><th>12 9.9 R 6.3 R 14</th></lor<>			12 9.9 R 6.3 R 14
5819_1.5 5820_0.2	28/02/2020 Silt 28/02/2020 Silt	1.5 Grassed Foreshore 70537 0.2 Grassed open space, south of carpark 70537	3 <10	LOR <	10R 410R 410	R <lor <<="" th=""><th>LOR <1.0F</th><th>t <lor -<="" th=""><th><lor <u<="" th=""><th>DR <lor< th=""><th><lor <l<="" th=""><th>DR <lor< th=""><th><lor <lor<="" th=""><th><lor< th=""><th><lor< th=""><th>•</th><th>· ·</th><th>-</th><th>-</th><th></th><th></th><th><lor <lor<="" th=""><th>R <lor< th=""><th><lor <l0<="" th=""><th>R <lor< th=""><th><lor <lo<="" th=""><th>t <lor <<="" th=""><th>LOR <lor< th=""><th><lor< th=""><th><lor <lo<="" th=""><th>R <1.0R</th><th><lor -<="" th=""><th><lor< th=""><th><lor th="" ·<=""><th>LOR <lor< th=""><th><lor< th=""><th>- <lo< th=""><th>R 14 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8H4 0.2-0.3 8H5 0.1-0.2	12/08/2016 Sand 12/08/2016 Sand 12/08/2016 Sand	0.2-0.3 Grassed Foreshore 51173 0.2-0.3 Grassed Foreshore 51173 0.1-0.2 Grassed Foreshore 51173	5.	-	· · ·										-	<lor <lor< th=""><th></th><th></th><th></th><th>LOR <lor< th=""><th></th><th></th><th></th><th>-</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>· <0</th><th>R -</th><th></th><th></th><th><lor <lor< th=""><th></th><th>9.0</th></lor<></lor </th></lor<></th></lor<></lor 				LOR <lor< th=""><th></th><th></th><th></th><th>-</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>· <0</th><th>R -</th><th></th><th></th><th><lor <lor< th=""><th></th><th>9.0</th></lor<></lor </th></lor<>				-								· <0	R -			<lor <lor< th=""><th></th><th>9.0</th></lor<></lor 		9.0
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8H7 0.5-0.6 8H7 1.1-1.2	12/08/2016 Sand 12/08/2016 Clay	0.5-0.6 Grassed Foreshore 511733 1.1-1.2 Grassed Foreshore 511733	5 -		· · ·	-	· ·	•						-		<lor< th=""><th>· ·</th><th>- R <lor< th=""><th><lo8 <<="" th=""><th> LOR <lor< th=""><th>- <lor< th=""><th>· ·</th><th>•</th><th></th><th></th><th></th><th></th><th></th><th>-</th><th></th><th></th><th>· ·</th><th> R -</th><th>-</th><th>· ·</th><th>-</th><th></th><th>19</th></lor<></th></lor<></th></lo8></th></lor<></th></lor<>	· ·	- R <lor< th=""><th><lo8 <<="" th=""><th> LOR <lor< th=""><th>- <lor< th=""><th>· ·</th><th>•</th><th></th><th></th><th></th><th></th><th></th><th>-</th><th></th><th></th><th>· ·</th><th> R -</th><th>-</th><th>· ·</th><th>-</th><th></th><th>19</th></lor<></th></lor<></th></lo8></th></lor<>	<lo8 <<="" th=""><th> LOR <lor< th=""><th>- <lor< th=""><th>· ·</th><th>•</th><th></th><th></th><th></th><th></th><th></th><th>-</th><th></th><th></th><th>· ·</th><th> R -</th><th>-</th><th>· ·</th><th>-</th><th></th><th>19</th></lor<></th></lor<></th></lo8>	 LOR <lor< th=""><th>- <lor< th=""><th>· ·</th><th>•</th><th></th><th></th><th></th><th></th><th></th><th>-</th><th></th><th></th><th>· ·</th><th> R -</th><th>-</th><th>· ·</th><th>-</th><th></th><th>19</th></lor<></th></lor<>	- <lor< th=""><th>· ·</th><th>•</th><th></th><th></th><th></th><th></th><th></th><th>-</th><th></th><th></th><th>· ·</th><th> R -</th><th>-</th><th>· ·</th><th>-</th><th></th><th>19</th></lor<>	· ·	•						-			· ·	 R -	-	· ·	-		19
BH7 1.7-1.8 PSI & DSI (JBS&G 2016a)	12/08/2016 Clay	1.7-1.8 Grassed Foreshore 51173	-																				-															20
HAD1_0.15-0.25 HAD1_0.5-0.6	12/08/2015 Clay 12/08/2015 Clay	0.15-0.25 South-Eastern portion of site 46847 0.5-0.6 South-Eastern portion of site 46847	5 -	-	· · ·		· ·	-		-	· ·			-	-	<lor -</lor 		R <lor< th=""><th><lor <<="" th=""><th>LOR <lor< th=""><th><lor .<="" th=""><th></th><th>-</th><th></th><th></th><th></th><th>-</th><th>· ·</th><th>-</th><th></th><th>-</th><th></th><th>-</th><th>-</th><th>· ·</th><th><lor c<="" th=""><th></th><th>18</th></lor></th></lor></th></lor<></th></lor></th></lor<>	<lor <<="" th=""><th>LOR <lor< th=""><th><lor .<="" th=""><th></th><th>-</th><th></th><th></th><th></th><th>-</th><th>· ·</th><th>-</th><th></th><th>-</th><th></th><th>-</th><th>-</th><th>· ·</th><th><lor c<="" th=""><th></th><th>18</th></lor></th></lor></th></lor<></th></lor>	LOR <lor< th=""><th><lor .<="" th=""><th></th><th>-</th><th></th><th></th><th></th><th>-</th><th>· ·</th><th>-</th><th></th><th>-</th><th></th><th>-</th><th>-</th><th>· ·</th><th><lor c<="" th=""><th></th><th>18</th></lor></th></lor></th></lor<>	<lor .<="" th=""><th></th><th>-</th><th></th><th></th><th></th><th>-</th><th>· ·</th><th>-</th><th></th><th>-</th><th></th><th>-</th><th>-</th><th>· ·</th><th><lor c<="" th=""><th></th><th>18</th></lor></th></lor>		-				-	· ·	-		-		-	-	· ·	<lor c<="" th=""><th></th><th>18</th></lor>		18
HA02_0.18-0.28 QA01 (triplicate of HA02_0.18-0.28)	12/08/2015 Clay 12/08/2015 Clay	0.5-0.6 South-Eastern portion of site 468479 0.18-0.28 South-Eastern portion of site 468479 0.18-0.28 South-Eastern portion of site 132652	2 .	-	· · ·					-				-	-	<lor <lor <<="" th=""><th>08 40</th><th>3 <108</th><th>408 4</th><th> LOR <lor LOR <lor< th=""><th></th><th></th><th>-</th><th></th><th></th><th></th><th></th><th>· ·</th><th>•</th><th></th><th>-</th><th>· <10</th><th>R -</th><th>-</th><th>· ·</th><th><lor .<="" th=""><th></th><th>23</th></lor></th></lor<></lor </th></lor></lor 	08 40	3 <108	408 4	 LOR <lor LOR <lor< th=""><th></th><th></th><th>-</th><th></th><th></th><th></th><th></th><th>· ·</th><th>•</th><th></th><th>-</th><th>· <10</th><th>R -</th><th>-</th><th>· ·</th><th><lor .<="" th=""><th></th><th>23</th></lor></th></lor<></lor 			-					· ·	•		-	· <10	R -	-	· ·	<lor .<="" th=""><th></th><th>23</th></lor>		23
QCD1 (duplicate of HA02_0.18-0.28) HA03_0.16-0.26	12/08/2015 Clay 12/08/2015 Clay	0.18-0.28 South-Eastern portion of site 46847 0.16-0.26 South-Eastern portion of site 46847	5 - 5 -	-	· · ·		· ·			-					-	<lor <lor< th=""><th>· 40</th><th>R <lor R <lor< th=""><th><lor <1<="" th=""><th>LOR <lor< th=""><th><lor <lor< th=""><th></th><th>•</th><th></th><th></th><th></th><th>-</th><th>· ·</th><th>-</th><th></th><th>-</th><th>· <10</th><th>R .</th><th>-</th><th>· ·</th><th></th><th><lor -<="" th=""><th>15</th></lor></th></lor<></lor </th></lor<></th></lor></th></lor<></lor </th></lor<></lor 	· 40	R <lor R <lor< th=""><th><lor <1<="" th=""><th>LOR <lor< th=""><th><lor <lor< th=""><th></th><th>•</th><th></th><th></th><th></th><th>-</th><th>· ·</th><th>-</th><th></th><th>-</th><th>· <10</th><th>R .</th><th>-</th><th>· ·</th><th></th><th><lor -<="" th=""><th>15</th></lor></th></lor<></lor </th></lor<></th></lor></th></lor<></lor 	<lor <1<="" th=""><th>LOR <lor< th=""><th><lor <lor< th=""><th></th><th>•</th><th></th><th></th><th></th><th>-</th><th>· ·</th><th>-</th><th></th><th>-</th><th>· <10</th><th>R .</th><th>-</th><th>· ·</th><th></th><th><lor -<="" th=""><th>15</th></lor></th></lor<></lor </th></lor<></th></lor>	LOR <lor< th=""><th><lor <lor< th=""><th></th><th>•</th><th></th><th></th><th></th><th>-</th><th>· ·</th><th>-</th><th></th><th>-</th><th>· <10</th><th>R .</th><th>-</th><th>· ·</th><th></th><th><lor -<="" th=""><th>15</th></lor></th></lor<></lor </th></lor<>	<lor <lor< th=""><th></th><th>•</th><th></th><th></th><th></th><th>-</th><th>· ·</th><th>-</th><th></th><th>-</th><th>· <10</th><th>R .</th><th>-</th><th>· ·</th><th></th><th><lor -<="" th=""><th>15</th></lor></th></lor<></lor 		•				-	· ·	-		-	· <10	R .	-	· ·		<lor -<="" th=""><th>15</th></lor>	15
HAD4_0.15-0.25 HAD4_0.5-0.6	12/08/2015 Clay 12/08/2015 Clay	0.15-0.25 South-Eastern portion of site 468479 0.5-0.6 South-Eastern portion of site 468479	5 -	-	· · ·	-	 	-		-	· ·	-		-	-	<lor <lor< th=""><th>· 40</th><th>R <lor R <lor< th=""><th><lor <1<br=""><lor <1<="" th=""><th>LOR <lor< th=""><th><lor <lor< th=""><th></th><th>-</th><th></th><th></th><th></th><th>-</th><th>· ·</th><th>-</th><th></th><th>-</th><th>· <10</th><th></th><th>-</th><th> </th><th><lor <lor< th=""><th><lor -<="" th=""><th>15</th></lor></th></lor<></lor </th></lor<></lor </th></lor<></th></lor></lor></th></lor<></lor </th></lor<></lor 	· 40	R <lor R <lor< th=""><th><lor <1<br=""><lor <1<="" th=""><th>LOR <lor< th=""><th><lor <lor< th=""><th></th><th>-</th><th></th><th></th><th></th><th>-</th><th>· ·</th><th>-</th><th></th><th>-</th><th>· <10</th><th></th><th>-</th><th> </th><th><lor <lor< th=""><th><lor -<="" th=""><th>15</th></lor></th></lor<></lor </th></lor<></lor </th></lor<></th></lor></lor></th></lor<></lor 	<lor <1<br=""><lor <1<="" th=""><th>LOR <lor< th=""><th><lor <lor< th=""><th></th><th>-</th><th></th><th></th><th></th><th>-</th><th>· ·</th><th>-</th><th></th><th>-</th><th>· <10</th><th></th><th>-</th><th> </th><th><lor <lor< th=""><th><lor -<="" th=""><th>15</th></lor></th></lor<></lor </th></lor<></lor </th></lor<></th></lor></lor>	LOR <lor< th=""><th><lor <lor< th=""><th></th><th>-</th><th></th><th></th><th></th><th>-</th><th>· ·</th><th>-</th><th></th><th>-</th><th>· <10</th><th></th><th>-</th><th> </th><th><lor <lor< th=""><th><lor -<="" th=""><th>15</th></lor></th></lor<></lor </th></lor<></lor </th></lor<>	<lor <lor< th=""><th></th><th>-</th><th></th><th></th><th></th><th>-</th><th>· ·</th><th>-</th><th></th><th>-</th><th>· <10</th><th></th><th>-</th><th> </th><th><lor <lor< th=""><th><lor -<="" th=""><th>15</th></lor></th></lor<></lor </th></lor<></lor 		-				-	· ·	-		-	· <10		-	 	<lor <lor< th=""><th><lor -<="" th=""><th>15</th></lor></th></lor<></lor 	<lor -<="" th=""><th>15</th></lor>	15
HAD5_0.15-0.25 Phase 1 FS4 (FIS 2019)	12/08/2015 Clay	0.15-0.25 South-Eastern portion of site 46847		•				-		-		-				<lor< th=""><th>· <10</th><th>R <lor< th=""><th><lor <<="" th=""><th>LOR <lor< th=""><th><lor< th=""><th></th><th>-</th><th></th><th>· ·</th><th></th><th>1 - 1</th><th></th><th>1.1</th><th></th><th>-</th><th>· <10</th><th>R .</th><th></th><th></th><th><lor< th=""><th>KLOR -</th><th></th></lor<></th></lor<></th></lor<></th></lor></th></lor<></th></lor<>	· <10	R <lor< th=""><th><lor <<="" th=""><th>LOR <lor< th=""><th><lor< th=""><th></th><th>-</th><th></th><th>· ·</th><th></th><th>1 - 1</th><th></th><th>1.1</th><th></th><th>-</th><th>· <10</th><th>R .</th><th></th><th></th><th><lor< th=""><th>KLOR -</th><th></th></lor<></th></lor<></th></lor<></th></lor></th></lor<>	<lor <<="" th=""><th>LOR <lor< th=""><th><lor< th=""><th></th><th>-</th><th></th><th>· ·</th><th></th><th>1 - 1</th><th></th><th>1.1</th><th></th><th>-</th><th>· <10</th><th>R .</th><th></th><th></th><th><lor< th=""><th>KLOR -</th><th></th></lor<></th></lor<></th></lor<></th></lor>	LOR <lor< th=""><th><lor< th=""><th></th><th>-</th><th></th><th>· ·</th><th></th><th>1 - 1</th><th></th><th>1.1</th><th></th><th>-</th><th>· <10</th><th>R .</th><th></th><th></th><th><lor< th=""><th>KLOR -</th><th></th></lor<></th></lor<></th></lor<>	<lor< th=""><th></th><th>-</th><th></th><th>· ·</th><th></th><th>1 - 1</th><th></th><th>1.1</th><th></th><th>-</th><th>· <10</th><th>R .</th><th></th><th></th><th><lor< th=""><th>KLOR -</th><th></th></lor<></th></lor<>		-		· ·		1 - 1		1.1		-	· <10	R .			<lor< th=""><th>KLOR -</th><th></th></lor<>	KLOR -	
8H1_0.1-0.2 8H1_0.5-0.95	23/09/2013 Sand 23/09/2013 Sand	0.1-0.2 On-grade open asphalt carpark 97794 0.5-0.95 On-grade open asphalt carpark 97794		-	· · ·		 	-	-					-	-	<lor <<="" th=""><th>LOR <1.0</th><th>R <lor R <lor< th=""><th><lor <<="" th=""><th>LOR <lor< th=""><th><lor <lor< th=""><th></th><th>-</th><th></th><th></th><th></th><th></th><th></th><th>1:1</th><th></th><th>-</th><th></th><th>+ -</th><th>-</th><th></th><th><lor .<="" th=""><th></th><th>11 3.1</th></lor></th></lor<></lor </th></lor<></th></lor></th></lor<></lor </th></lor>	LOR <1.0	R <lor R <lor< th=""><th><lor <<="" th=""><th>LOR <lor< th=""><th><lor <lor< th=""><th></th><th>-</th><th></th><th></th><th></th><th></th><th></th><th>1:1</th><th></th><th>-</th><th></th><th>+ -</th><th>-</th><th></th><th><lor .<="" th=""><th></th><th>11 3.1</th></lor></th></lor<></lor </th></lor<></th></lor></th></lor<></lor 	<lor <<="" th=""><th>LOR <lor< th=""><th><lor <lor< th=""><th></th><th>-</th><th></th><th></th><th></th><th></th><th></th><th>1:1</th><th></th><th>-</th><th></th><th>+ -</th><th>-</th><th></th><th><lor .<="" th=""><th></th><th>11 3.1</th></lor></th></lor<></lor </th></lor<></th></lor>	LOR <lor< th=""><th><lor <lor< th=""><th></th><th>-</th><th></th><th></th><th></th><th></th><th></th><th>1:1</th><th></th><th>-</th><th></th><th>+ -</th><th>-</th><th></th><th><lor .<="" th=""><th></th><th>11 3.1</th></lor></th></lor<></lor </th></lor<>	<lor <lor< th=""><th></th><th>-</th><th></th><th></th><th></th><th></th><th></th><th>1:1</th><th></th><th>-</th><th></th><th>+ -</th><th>-</th><th></th><th><lor .<="" th=""><th></th><th>11 3.1</th></lor></th></lor<></lor 		-						1:1		-		+ -	-		<lor .<="" th=""><th></th><th>11 3.1</th></lor>		11 3.1
8H2_0.5-0.95 8H2_1.5-1.95	23/09/2013 Sit 23/09/2013 Sand	0.5-0.95 Grassed Foreshore 97794 1.5-1.95 Grassed Foreshore 97794	-	-	· · ·	-	 	-					· · ·	-	-	<lor <<="" th=""><th>LOR <1.0</th><th>R <lor R <lor< th=""><th><lor <<="" th=""><th>LOR <lor< th=""><th><lor <lor< th=""><th></th><th>-</th><th></th><th></th><th></th><th>-</th><th>· ·</th><th>-</th><th></th><th>-</th><th>· ·</th><th>-</th><th>-</th><th>· ·</th><th><lor .<="" th=""><th></th><th>10</th></lor></th></lor<></lor </th></lor<></th></lor></th></lor<></lor </th></lor>	LOR <1.0	R <lor R <lor< th=""><th><lor <<="" th=""><th>LOR <lor< th=""><th><lor <lor< th=""><th></th><th>-</th><th></th><th></th><th></th><th>-</th><th>· ·</th><th>-</th><th></th><th>-</th><th>· ·</th><th>-</th><th>-</th><th>· ·</th><th><lor .<="" th=""><th></th><th>10</th></lor></th></lor<></lor </th></lor<></th></lor></th></lor<></lor 	<lor <<="" th=""><th>LOR <lor< th=""><th><lor <lor< th=""><th></th><th>-</th><th></th><th></th><th></th><th>-</th><th>· ·</th><th>-</th><th></th><th>-</th><th>· ·</th><th>-</th><th>-</th><th>· ·</th><th><lor .<="" th=""><th></th><th>10</th></lor></th></lor<></lor </th></lor<></th></lor>	LOR <lor< th=""><th><lor <lor< th=""><th></th><th>-</th><th></th><th></th><th></th><th>-</th><th>· ·</th><th>-</th><th></th><th>-</th><th>· ·</th><th>-</th><th>-</th><th>· ·</th><th><lor .<="" th=""><th></th><th>10</th></lor></th></lor<></lor </th></lor<>	<lor <lor< th=""><th></th><th>-</th><th></th><th></th><th></th><th>-</th><th>· ·</th><th>-</th><th></th><th>-</th><th>· ·</th><th>-</th><th>-</th><th>· ·</th><th><lor .<="" th=""><th></th><th>10</th></lor></th></lor<></lor 		-				-	· ·	-		-	· ·	-	-	· ·	<lor .<="" th=""><th></th><th>10</th></lor>		10
BH3_0.15-0.3 BH3_0.5-0.95	23/09/2013 Sand 23/09/2013 Clay	0.15-0.3 On-grade open asphalt carpark 97794 0.5-0.95 On-grade open asphalt carpark 97794		-	· · ·	-	· ·	<u> </u>						-	-	<lor <<="" th=""><th>LOR <1.0</th><th>R <lor R <lor< th=""><th><lor <1<="" th=""><th>LOR <lor< th=""><th><lor <lor< th=""><th></th><th>-</th><th></th><th></th><th>· ·</th><th>-</th><th></th><th>-</th><th></th><th>-</th><th></th><th></th><th>-</th><th></th><th><lor< th=""><th></th><th>9.1</th></lor<></th></lor<></lor </th></lor<></th></lor></th></lor<></lor </th></lor>	LOR <1.0	R <lor R <lor< th=""><th><lor <1<="" th=""><th>LOR <lor< th=""><th><lor <lor< th=""><th></th><th>-</th><th></th><th></th><th>· ·</th><th>-</th><th></th><th>-</th><th></th><th>-</th><th></th><th></th><th>-</th><th></th><th><lor< th=""><th></th><th>9.1</th></lor<></th></lor<></lor </th></lor<></th></lor></th></lor<></lor 	<lor <1<="" th=""><th>LOR <lor< th=""><th><lor <lor< th=""><th></th><th>-</th><th></th><th></th><th>· ·</th><th>-</th><th></th><th>-</th><th></th><th>-</th><th></th><th></th><th>-</th><th></th><th><lor< th=""><th></th><th>9.1</th></lor<></th></lor<></lor </th></lor<></th></lor>	LOR <lor< th=""><th><lor <lor< th=""><th></th><th>-</th><th></th><th></th><th>· ·</th><th>-</th><th></th><th>-</th><th></th><th>-</th><th></th><th></th><th>-</th><th></th><th><lor< th=""><th></th><th>9.1</th></lor<></th></lor<></lor </th></lor<>	<lor <lor< th=""><th></th><th>-</th><th></th><th></th><th>· ·</th><th>-</th><th></th><th>-</th><th></th><th>-</th><th></th><th></th><th>-</th><th></th><th><lor< th=""><th></th><th>9.1</th></lor<></th></lor<></lor 		-			· ·	-		-		-			-		<lor< th=""><th></th><th>9.1</th></lor<>		9.1
BH4_0-0.2 BH4_1.5-1.95	23/09/2013 Silt 23/09/2013 Sand	0-0.2 Grassed Foreshore 97794 1.5-1.95 Grassed Foreshore 97794	-	-	· · ·							-	 -	-	-	<lor <<="" th=""><th>LOR 4.0</th><th>< <lor R <lor< th=""><th><lor <1<br=""><lor <1<="" th=""><th>LOR <lor LOR <lor< th=""><th><lor <lor< th=""><th></th><th>-</th><th></th><th>-</th><th>· ·</th><th>-</th><th></th><th>1:</th><th></th><th>-</th><th></th><th>-</th><th>-</th><th></th><th><lor ·</lor </th><th>CLOR -</th><th>8.8 17</th></lor<></lor </th></lor<></lor </th></lor></lor></th></lor<></lor </th></lor>	LOR 4.0	< <lor R <lor< th=""><th><lor <1<br=""><lor <1<="" th=""><th>LOR <lor LOR <lor< th=""><th><lor <lor< th=""><th></th><th>-</th><th></th><th>-</th><th>· ·</th><th>-</th><th></th><th>1:</th><th></th><th>-</th><th></th><th>-</th><th>-</th><th></th><th><lor ·</lor </th><th>CLOR -</th><th>8.8 17</th></lor<></lor </th></lor<></lor </th></lor></lor></th></lor<></lor 	<lor <1<br=""><lor <1<="" th=""><th>LOR <lor LOR <lor< th=""><th><lor <lor< th=""><th></th><th>-</th><th></th><th>-</th><th>· ·</th><th>-</th><th></th><th>1:</th><th></th><th>-</th><th></th><th>-</th><th>-</th><th></th><th><lor ·</lor </th><th>CLOR -</th><th>8.8 17</th></lor<></lor </th></lor<></lor </th></lor></lor>	LOR <lor LOR <lor< th=""><th><lor <lor< th=""><th></th><th>-</th><th></th><th>-</th><th>· ·</th><th>-</th><th></th><th>1:</th><th></th><th>-</th><th></th><th>-</th><th>-</th><th></th><th><lor ·</lor </th><th>CLOR -</th><th>8.8 17</th></lor<></lor </th></lor<></lor 	<lor <lor< th=""><th></th><th>-</th><th></th><th>-</th><th>· ·</th><th>-</th><th></th><th>1:</th><th></th><th>-</th><th></th><th>-</th><th>-</th><th></th><th><lor ·</lor </th><th>CLOR -</th><th>8.8 17</th></lor<></lor 		-		-	· ·	-		1:		-		-	-		<lor ·</lor 	CLOR -	8.8 17

Well ID	Sample Date	Total Well Depth	Depth to Water	Depth to LNAPL	Vapour Well Head	Electrical Conductivity	рН	Dissolved Oxygen	Temperature	Redox
		m TOC	m TOC	m	ppm	μs/cm	-	mg/L	°C	mV
MW1	6/03/2020	6.020	3.682	-	5.4	817	7.34	1.64	24.9	661.4
MW2	6/03/2020	4.100	1.334	-	5.7	922	7.10	0.10	24	-120.6
MW3	6/03/2020	4.030	1.981	-	1.0	1188	7.19	0.16	24.1	-124.3
BH1	6/03/2020	6.03	4.950	-	0.0	1121	6.75	0.15	25.4	-96.7
BH4	6/03/2020	4.5	1.390	-	0.0	1710	6.28	0.25	23.5	-39.3

Comments
Clear, very low turbidity, no sheen, no odour
Brown/grey, moderate turbidity, no sheen, no odour
Grey, moderate turbidity, no sheen, no odour
Dark grey, high turbidity, no sheen, no odour
Clear, very low turbidity, no sheen, no odour

						Heavy	Metals					TPHs (NEPC 1	999)				TR	Hs (NEP	PC 2013)						BTEXN			
() IBS	68. G		Marsenic (Total)	Cadmium //Bu	للقط Chromium (Total) (Filtered)	Copper (Filtered)	Barriered)	Mercury (Inorganic) (Filtered)	Mickel (Filtered)	Zinc (Filtered)	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	Z9-C36 Fraction	Z10-C36 Fraction (Total)	>C10-C16 Fraction	>C16-C34 Fraction	>C34-C40 Fraction	>C10-C40 Fraction (Total)	bact 0-C16 less Naphthalene (F2)	C6-C10 Fraction	mg CG-C10 less BTEX (F1)	Benzene mg/L	Ethylbenzene mg/L	Toluene mg/L	Xylene (o)	Xylene (m & p) ^{mg/L}	Xylene (Total)	Maphthalene Mag
EQL			0.001	0.0001	0.001	0.001	0.001	0.00005	0.001	0.001	0.01				0.1	0.05	0.1	0.1	0.1	0.05	0.01	0.01	0.001	0.001	0.001	0.001	0.002	0.003	0.00001
ANZG (2018) Freshwater and Mar	ine water 95% toxicant D	DGVs		0.0002		0.0013	0.0034	0.0004	0.011	0.008													0.7	0.08	0.18	0.35	0.07		0.016
NEPM 2013 Groundwater HSL C fo	or Vapour Intrusion - San	nd 2 to <4m																		NL		NL	NL	NL	NL			NL	NL
NEPM 2013 Groundwater HSL C fo	or Vapour Intrusion - San	nd 4 to <8m																		NL		NL	NL	NL	NL			NL	NL
Field ID	Sample Date	Report Number																											
DSI (JBS&G 2020)																													
BH1	6/03/2020	706429	0.005	<0.0002		<0.001	<0.001	< 0.0001		<0.005		<0.05							<0.1		<0.02	<0.02	<0.001	<0.001	<0.001	< 0.001			<0.00001
BH4	6/03/2020	706429	0.002	<0.0002	<0.001		<0.001	< 0.0001		<0.005						<0.05			<0.1	<0.05		<0.02	<0.001	<0.001	<0.001	<0.001			<0.00001
MW1	6/03/2020	706429	<0.001	<0.0002	0.002	0.001	<0.001	< 0.0001	<0.001	0.01		<0.05			<0.1	<0.05		<0.1	<0.1	<0.05	<0.02	<0.02	<0.001	<0.001	<0.001		<0.002	<0.003	<0.00001
QC01 (duplicate pair MW1)	6/03/2020	706429	<0.001	<0.0002	0.002	0.002	<0.001	<0.0001	<0.001	0.011					<0.1	<0.05			<0.1	<0.05	<0.02	<0.02	<0.001	<0.001	<0.001	<0.001		<0.003	<0.00001
QC01A (triplicate pair MW1)	6/03/2020	238372	0.001	<0.0001	0.004	<0.001	<0.001	< 0.00005	0.001	0.01	<0.01	<0.05		<0.1	-	<0.05		<0.1	-	<0.05	<0.01	<0.01	<0.001	<0.001	< 0.001	<0.001		-	<0.0002
MW2	6/03/2020	706429	0.002	<0.0002	<0.001	0.001	<0.001	<0.0001	0.002	0.012		<0.05			_				<0.1	<0.05	<0.02	<0.02	<0.001	<0.001	<0.001		<0.002	<0.003	<0.00001
MW3	6/03/2020	706429	0.002	<0.0002	<0.001	0.002	<0.001	<0.0001	<0.001	0.078	<0.02	<0.05	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1	<0.05	<0.02	<0.02	<0.001	<0.001	<0.001	<0.001	<0.002	<0.003	<0.00001
Phase 1 ESA (EIS 2013)	1	1							_																				
MW1	30/09/2013		<0.001	<0.002	0.001	<0.002	<0.001	<0.00005	0.009	0.013				<0.1	-	-	-	-	-	-	-	-	<0.001	<0.001	<0.001	<0.001		<0.003	<0.0002
MW4	30/09/2013		0.001	<0.002	<0.001	<0.002	<0.001	< 0.00005	0.002	0.017	<0.01	<0.05	<0.1	<0.1	-	-	-	-	-	-	-	-	<0.001	<0.001	<0.001	<0.001	<0.002	<0.003	<0.0002

										Poly	cyclic Aroma	atic Hydroca	hons															hlorinate	d Alkanes							
() IB	5&. G		Acenaphthene	mg/L	Muthracene	mg Benz(a)anthracene	mg/L	Benzo(a)pyrene TEQ (WHO)	Benzo(b,j)fluoranthene	Benzo(g,h,i)perylene mg/T	mg/L	Chrysene mg/r	Dibenz(a, h) anthracene	Huoranthene	Building mg/L	mg Ty Indeno(1,2,3-c,d)pyrene	bhenanthrene M	mg/L	byrene WZ/T	Total Positive PAHs	2 1,1,1,2-tetrachloroethane	mg 1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	지, 1, 1, 2-trichloroethane 전체, 1, 1-dichloroethane	T/1,2,3-trichloropropane	I,2-dibromo-3-chloropropane	1,2-dichloroethane	1,2-dichloropropane	1, 3-dichloropropane	Z,2-dichloropropane Bromochloromethane	Zarbon tetrachloride	Chloroethane	Chloromethane	Dichlorodifluoromethane	Dichloromethane Mg/T	Trichlorofluoromethane
EQL			0.00001	0.00001	0.00001	0.00001	0.00001	1116/1	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	1116/ 2	0.	<u> </u>	<u>.</u>	0.001 0.00		1116/ 2	0.001	<u>.</u>	0.001	0.00		0.	0.	<u>.</u>	-	0.001
ANZG (2018) Freshwater and M	arine water 95% toxican	t DGVs			0.0004		0.0002							0.0014					0.002					1.9												
NEPM 2013 Groundwater HSL C	for Vapour Intrusion - S	and 2 to <4m																																		
NEPM 2013 Groundwater HSL C	for Vapour Intrusion - S	and 4 to <8m																																		
1	· · · ·																													<u> </u>		·				
Field ID	Sample Date	Report Number																																		
DSI (JBS&G 2020)																																				
BH1	6/03/2020	706429	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	-	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	< 0.00001	<0.00001	<0.00001	<0.00001	<0.001	<0.001	<0.001 <	0.001 <0.0	01 <0.001	-	<0.001	<0.001	<0.001	- <0.0	01 <0.001	<0.001	<0.001	<0.001	<0.001	<0.001
BH4	6/03/2020	706429	<0.00001	<0.00001	< 0.00001	<0.00001	<0.00001	-	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	< 0.00001	<0.00001	<0.00001	<0.00001	<0.001	<0.001	<0.001 <	0.001 <0.0	01 <0.001	-	<0.001	<0.001	<0.001	- <0.0	01 <0.001	<0.001	<0.001	<0.001	<0.001 ·	< 0.001
MW1	6/03/2020	706429	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	-	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	< 0.00001	<0.00001	<0.00001	<0.00001	<0.001	<0.001	<0.001 <	0.001 <0.0	01 <0.001	-	<0.001	<0.001	<0.001	- <0.0	/01 <0.001	<0.001	<0.001	<0.001	<0.001 ·	<0.001
QC01 (duplicate pair MW1)	6/03/2020	706429	<0.00001	<0.00001	< 0.00001	<0.00001	<0.00001	-	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	< 0.00001	<0.00001	<0.00001	< 0.00001	< 0.00001	<0.00001	< 0.00001	< 0.001	<0.001	< 0.001 <	0.001 <0.0	01 <0.001	-	< 0.001	<0.001	<0.001	- <0.0	001 <0.001	<0.001	<0.001	<0.001	<0.001 ·	<0.001
QC01A (triplicate pair MW1)	6/03/2020	238372	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0005	-	<0.0001	-	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	-	<0.0001	<0.0001	<0.001	<0.001	<0.001 <	0.001 <0.0	01 <0.001	<0.001	<0.001	<0.001	<0.001	<0.001 <0.0	001 <0.001	<0.01	<0.01	<0.01	-	<0.01
MW2	6/03/2020	706429	<0.00001	<0.00001	< 0.00001	<0.00001	<0.00001	-	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	< 0.00001	<0.00001	<0.00001	< 0.00001	<0.001	<0.001	< 0.001 <	0.001 <0.0	01 <0.001	-	<0.001	<0.001	<0.001	- <0.0	01 <0.001	<0.001	<0.001	<0.001	<0.001 ·	< 0.001
MW3	6/03/2020	706429	<0.00001	<0.00001	< 0.00001	< 0.00001	<0.00001	-	<0.00001	<0.00001	< 0.00001	<0.00001	< 0.00001	< 0.00001	<0.00001	<0.00001	< 0.00001	< 0.00001	<0.00001	< 0.00001	<0.001	< 0.001	< 0.001 <	0.001 <0.0	01 <0.001	-	< 0.001	<0.001	<0.001	- <0.0	001 <0.001	<0.001	<0.001	<0.001	<0.001 ·	< 0.001
Phase 1 ESA (EIS 2013)																																				
MW1	30/09/2013		< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	<0.0001	<0.0001	< 0.0001	<0.0001	< 0.0001	<0.0001	<0.0001	<0.0001	< 0.0001	<0.0001	<0.0001	< 0.0001	-	-	-		-	-	-	-	-		-	- ·	- T	- T	-	-
MW4	30/09/2013		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	-	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	-	-	-		-	-	-	-	-		-		- 1		-	-

							с	hlorinated	d Alkenes						Solvents				Monocy	clic Aroma	atic Hydro	carbons					м	iscellaneo	us Hydro	carbons				Chl	orinated	Benzene	5		Т	rihalome	thanes			
() IB	3& G		1,1-dichloroethene	mg/L	2-chlorotoluene	3-chloropene mg/L	4-chlorotoluene	galacis-1,2-dichloroethene	Z cis-1,3-dichloropropene	Tetrachloroethene	trans-1,2-dichloroethene	trans-1,3-dichloropropene	mg Trichloroethene	Winyl Chloride	전 고-Propanone (Acetone)	3 1,2,4-trimethyl benzene	1,3,5-trimethyl benzene	Ma 4-isopropyl toluene	Bromobenzene mg/L	lsobrobylbenzene mg/L	n-butyl benzene mg/T	n-propyl benzene	sec-putyl benzene	styrene m8/r	Tert-butyl benzene	1,2-dibromoethane	Z-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Bromomethane	Cyclohexane T/ ² u	Dibromomethane	ndomethane mg/r	1,2,3-trichlorobenzene	2,2,4-trichlorobenzene	1,2-Dichlorobenzene	T/gm 7/3-dichlorobenzene	Z 1,4-dichlorobenzene	Chlorobenzene mg/L	mg/L	Chloroform	Dibromochloromethane	Tribromomethane	Hexachlorobutadiene	mg/T
EQL			0.001	<u> </u>			-	0.001	-	-			-	-	1		0.001		0.001					0.001	0.	0.001		0.001 0			0.001				0.001			0.001					0,	0.001
ANZG (2018) Freshwater and Ma	rine water 95% toxican	t DGVs				0.003																											0.01	0.08	0.16	0.26	0.06			0.77				
NEPM 2013 Groundwater HSL C	for Vapour Intrusion - S	and 2 to <4m																																										
NEPM 2013 Groundwater HSL C	for Vapour Intrusion - S	and 4 to <8m																																										
Field ID	Sample Date	Report Number																																										
DSI (JBS&G 2020)																																												
BH1	6/03/2020	706429	<0.001		-			0.019			<0.001			<0.001	2	<0.001		-	<0.001		-	-		<0.001					0.001		0.001		-								< 0.001 <			<0.001
BH4	6/03/2020	706429	<0.001		-			<0.001				<0.001		<0.001	<1	<0.001		-	<0.001		-	-	-	<0.001		<0.001		<0.001 <	0.001		0.001		-					<0.001 ·						<0.001
MW1	6/03/2020	706429	<0.001		-			<0.001			<0.001	<0.001	<0.001	<0.001	2	<0.001		-	<0.001		-	-	-	<0.001		<0.001		< 0.001 <			0.001		-					<0.001 ·						<0.001
QC01 (duplicate pair MW1)	6/03/2020	706429	<0.001	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<1	<0.001	<0.001	-	<0.001	<0.001	-	-	-	<0.001	-	<0.001	<0.001	<0.001 <	0.001	- <	0.001	<0.001	-		<0.001	<0.001	<0.001	<0.001	<0.001 <	<0.005	<0.001 <	0.001	- <	<0.001
QC01A (triplicate pair MW1)	6/03/2020	238372	<0.001	< 0.001	<0.001	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.01	-	<0.001	< 0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	- 4	0.01	<0.001 <	0.001	- <	0.001 <	<0.001 ·	<0.001	<0.001	<0.001	<0.001	<0.001 <	<0.001	<0.001 <	0.001 <	0.001	-
MW2	6/03/2020	706429	<0.001	-	-	<0.001	< 0.001	<0.001	<0.001	< 0.001	<0.001	<0.001	<0.001	<0.001	21	<0.001	< 0.001	-	<0.001	<0.001	-	-	-	<0.001	-	<0.001	0.001	< 0.001 <	0.001	- <	0.001	<0.001	-		<0.001	<0.001	<0.001	<0.001 ·	<0.001 <	<0.005	< 0.001 <	0.001	-	0.001
MW3	6/03/2020	706429	<0.001	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	3	<0.001	<0.001	-	<0.001	<0.001	-	-	-	<0.001	-	<0.001	<0.001	<0.001 <	0.001	- <	0.001	<0.001	-		<0.001	<0.001	<0.001	<0.001	<0.001 <	<0.005	<0.001 <	0.001	- <	<0.001
Phase 1 ESA (EIS 2013)																																												
MW1	30/09/2013		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW4	30/09/2013		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Appendix B Photographic Log

PHOTO 1: EASTERN END OF CARPARK BUILDING, FACING WEST



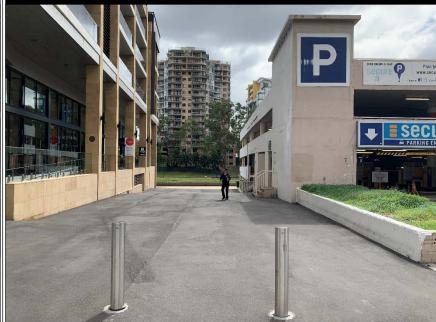
PHOTO 3: THREE STOREY CARPARK, FACING NORTH

PHOTO 2: PROPERTY IN THE SOUTH-EASTERN CORNER OF THE SITE, FACING SOUTH



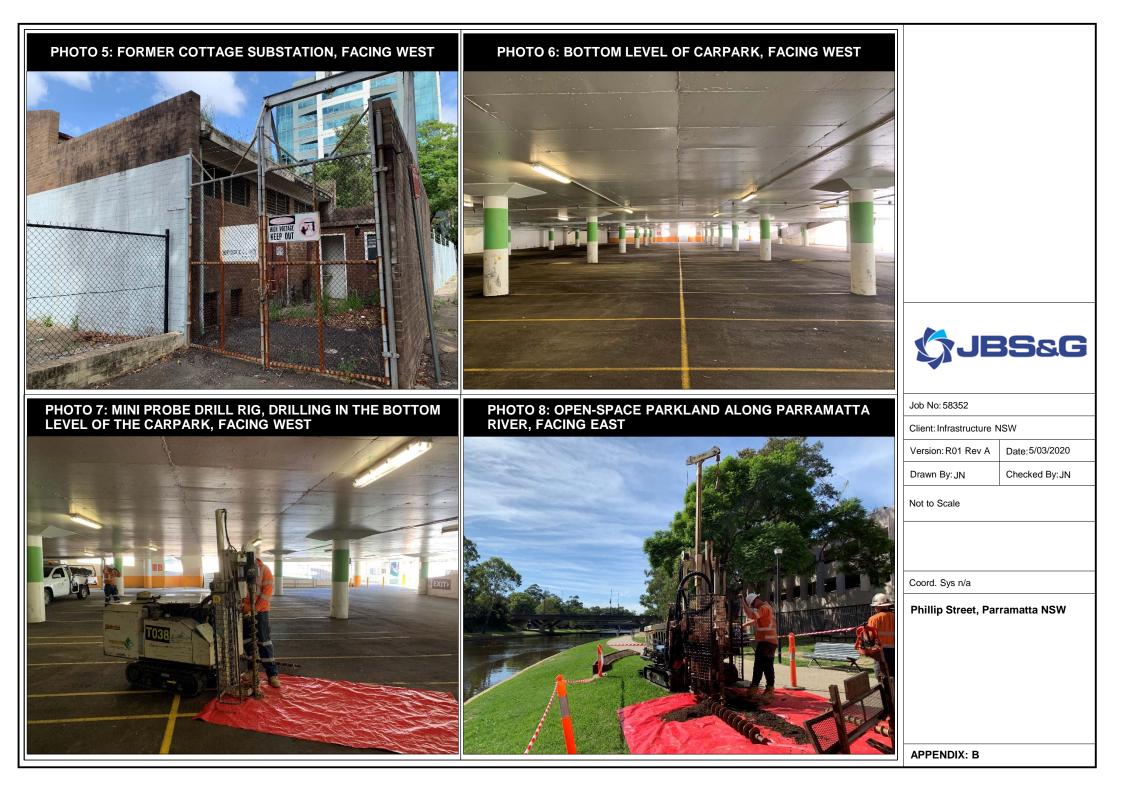
PHOTO 4: CARPARK ENTRANCE AT CENTRAL/WESTERN PART OF SITE, FACING NORTH







Job No: 58352	
Client: Infrastructure N	ISW
Version: R01 Rev A	Date:5/03/2020
Drawn By: JN	Checked By: JN
Not to Scale	
Coord. Sys n/a	
Detailed Site Inve	stigation
Phillip Street, Par	ramatta NSW



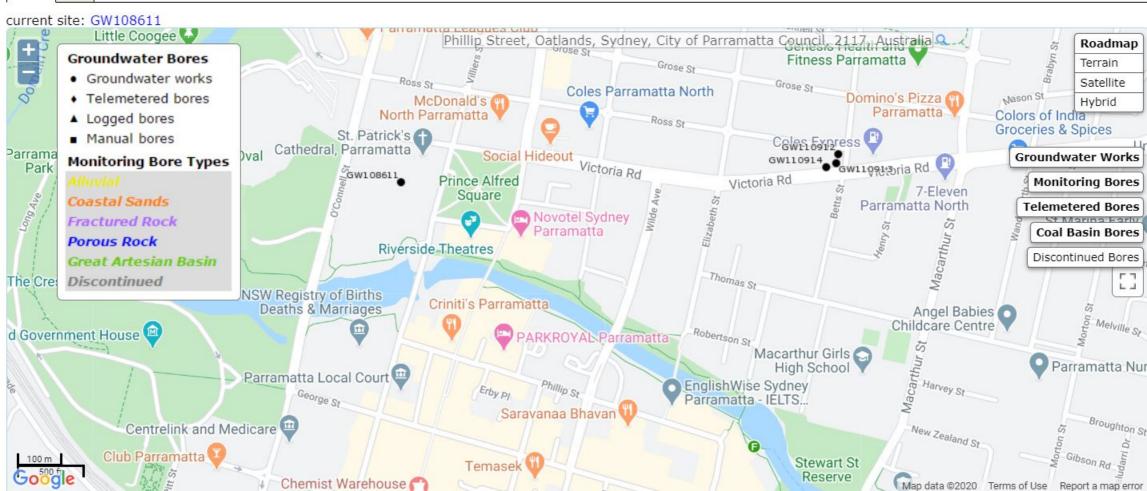


Appendix C Groundwater Bore Search

All Groundwater Site Details All Groundwater Map

All data times are Eastern Standard Time

Map Info



WaterNSW Work Summary

GW108611

Licence:	10WA108668	Licence Status:	CURRENT
		Authorised Purpose(s): Intended Purpose(s):	
Work Type:	Bore		
Work Status:	Supply Obtained		
Construct.Method:	Down Hole Hamm		
Owner Type:	Private		
Commenced Date: Completion Date:	20/04/2005	Final Depth: Drilled Depth:	
Contractor Name:	INTERTEC DRILLING SERVICES		
Driller:	William Crump		
Assistant Driller:			
Property:	ROMAN CATHOLIC CHURCH 1	Standing Water Level	6.200
GWMA: GW Zone:		(m): Salinity Description: Yield (L/s):	5.500

Site Details

Site Chosen By:

	County Form A: CUMBERLAND Licensed: CUMBERLAND	ParishCadastreFIELD OF1//1034092FIELD OF MARSWhole Lot 1//1034092
Region: 10 - Sydney South Coast	CMA Map: 9130-3N	
River Basin: 212 - HAWKESBURY RIVER Area/District:	Grid Zone:	Scale:
Elevation: 0.00 m (A.H.D.) Elevation Source: Unknown	Northing: 6257213.000 Easting: 315129.000	Latitude: 33°48'32.9"S Longitude: 151°00'09.8"E

GS Map: -

Construction

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

MGA Zone: 56

Coordinate Source: GIS - Geogra

Hole	Pipe	Component	Туре	From (m)		Outside Diameter (mm)		Interval	Details
1		Hole	Hole	0.00	11.50	206			Down Hole Hammer
1		Hole	Hole	11.50	60.50	165			Down Hole Hammer
1		Annulus	Concrete	-0.10	11.50	206			
1	1	Casing	Pvc Class 9	-0.50	29.50	140			Suspended in Clamps, Screwed and Glued
1	1	Casing	Steel	-0.50	11.50	168	158		Driven into Hole, Welded

Water Bearing Zones

	From m)	To (m)	Thickness (m)	WBZ Туре	-	D.D.L. (m)	(L/s)	Hole Depth (m)		Salinity (mg/L)
	46.10	46.30	0.20	Unknown			5.00		00:25:00	4650.00
Γ	56.50	56.60	0.10	Unknown	6.20		0.20		00:25:00	5300.00

Drillers Log

Fro (m	· .	-	Thickness (m)	Drillers Description	Geological Material	Comments
0	.00	1.00	1.00	Fill	Fill	
1	.00	3.00	2.00	Clay, brown	Clay	

3/26/2020

https://realtimedata.waternsw.com.au/wgen/users/5db9c958543a4a17a6ec53aee48399f7/gw108611.agagpf_org.wsr.htm?15852022...

3.00	5.50	2.50	Shale	Shale
5.50	7.00	1.50	Sandstone, with Shale bedding	Sandstone
7.00	22.00	15.00	Sandstone, grey	Sandstone
22.00	23.30	1.30	Sandstone, soft	Sandstone
23.30	46.10	22.80	Sandstone, grey	Sandstone
46.10	46.30	0.20	Sandstone, fractured	Sandstone
46.30	47.50	1.20	Sandstone, grey	Sandstone
47.50	47.70	0.20	Sandstone, fractured	Sandstone
47.70	56.50	8.80	Sandstone, grey	Sandstone
56.50	56.60	0.10	Sandstone, fractured	Sandstone
56.60	60.50	3.90	Sandstone, grey	Sandstone

Remarks

20/04/2005: Form A Remarks:

Airlift tests at 60m = 5.5 Lps, 42m = 4.0 Lps. Water has a strange odour & is discoloured. 04/03/2010: Updated from original form A.

*** End of GW108611 ***

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

WaterNSW Work Summary

GW110912

Licence:		Licence Status:	
		Authorised Purpose(s): Intended Purpose(s):	MONITORING BORE
Work Type:	Well		
Work Status:			
Construct.Method:	Auger - Solid		
Owner Type:	Private		
Commenced Date: Completion Date:	20/01/2010	Final Depth: Drilled Depth:	10.00 m 10.00 m
Contractor Name:	Terratest Pty Ltd		
Driller:	Wisam Abouchrouche		
Assistant Driller:			
Property:		Standing Water Level (m):	7.000
GWMA:		Salinity Description:	
GW Zone:		Yield (L/s):	
te Details			

Site Chosen By:

	County Form A: CUMBERLAND Licensed:	ParishCadastreFIELD OF1//509643
Region: 10 - Sydney South Coast	СМА Мар:	
River Basin: - Unknown Area/District:	Grid Zone:	Scale:
Elevation: 0.00 m (A.H.D.) Elevation Source: Unknown	Northing: 6257285.000 Easting: 315997.000	Latitude: 33°48'31.1"S Longitude: 151°00'43.6"E
GS Map: -	MGA Zone: 56	Coordinate Source: Unknown

GS Map: -

Construction

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

Hole	Pipe	Component	Туре	From (m)		Outside Diameter (mm)	 Interval	Details
1		Hole	Hole	0.00	10.00	125		Auger - Solid Flight
1		Annulus	Waterworn/Rounded	0.00	0.00			Graded
1	1	Opening	Screen	3.00	10.00	50	0	PVC Class 18, Screwed, A: 1.00mm

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Туре	-	 (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
7.00	10.00	3.00	Unknown	7.00				

Drillers Log

From	То	Thickness	Drillers Description	Geological Material	Comments
(m)	(m)	(m)			
0.00	0.10	0.10	CONCRETE	Conglomerate	
0.10	0.50	0.40	FILL, SILTY CLAY, GRAVEL	Fill	
0.50	1.80	1.30	CLAY SANDY GREY RED	Clay Loam	
1.80	2.50	0.70	CLAY SANDY GREY BROWN	Clay Loam	
2.50	3.00	0.50	CLAY SANDY GREY	Clay Loam	

3/26/2020

https://realtimedata.waternsw.com.au/wgen/users/5db9c958543a4a17a6ec53aee48399f7/gw110912.agagpf_org.wsr.htm?15852022...

3.00	3.50	0.50	CLAY SANDY SOME SHALE FRAGMENTS	Clay Loam	
3.50	4.30	0.80	SHALE CLAY BROWN	Shale	
4.30	5.00	0.70	SHALE LOW STRENGTH,IRONSTONE,SANDSTONE	Shale	
5.00	5.20	0.20	SHALE LOW STRENGTH DARK GREY	Shale	
5.20	6.50	1.30	SHALE LOW STRENGTH BROWN SANDSTONE BANDS	Shale	
6.50	6.80	0.30	SANDSTONE LOW STRENGTH WHITE	Sandstone	
6.80	10.00	3.20	SANDSTONE MEDIUM STRENGTH WHITE	Sandstone	

*** End of GW110912 ***

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

WaterNSW Work Summary

GW110913

Licence:		Licence Status:	
		Authorised Purpose(s): Intended Purpose(s):	
Work Type:	Well		
Work Status:			
Construct.Method:	Auger - Solid		
Owner Type:	Private		
Commenced Date: Completion Date:		Final Depth: Drilled Depth:	
Contractor Name:	Terratest Pty Ltd		
Driller:	Wisam Abouchrouche		
Assistant Driller:			
Property:		Standing Water Level	7.000
GWMA:		(m): Salinity Description:	
GW Zone:		Yield (L/s):	
te Details			

Site Chosen By:

	County Form A: CUMBERLAND Licensed:	ParishCadastreFIELD OF1//509643	
Region: 10 - Sydney South Coast	СМА Мар:		
River Basin: - Unknown Area/District:	Grid Zone:	Scale:	
Elevation: 0.00 m (A.H.D.) Elevation Source: Unknown	Northing: 6257267.000 Easting: 315992.000	Latitude: 33°48'31.7 Longitude: 151°00'43.	-
GS Map: -	MGA Zone: 56	Coordinate Source: Unknown	

Construction

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

Hole	Pipe	Component	Туре	From (m)		Outside Diameter (mm)	 Interval	Details
1		Hole	Hole	0.00	10.00	125		Auger - Solid Flight
1		Annulus	Waterworn/Rounded	0.00	0.00			
1	1	Opening	Screen	6.00	10.00	50	0	PVC Class 18, Screwed, A: 1.00mm

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Туре	-	 (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
7.00	10.00	3.00	Unknown	7.00				

Drillers Log

Fro (m)	n To (m)	Thickness (m)	Drillers Description	Geological Material	Comments
0.	0.10	0.10	CONCRETE	Unknown	
0.	10 0.20	0.10	CLAY SILTY RED BROWN	Unknown	
0.1	20 1.20	1.00	CLAY SANDY RED BROWN	Unknown	
1.1	20 2.00	0.80	CLAY SANDY RED	Unknown	
2.	0 3.50	1.50	CLAY SANDY BROWN	Unknown	

3/26/2020

https://realtimedata.waternsw.com.au/wgen/users/5db9c958543a4a17a6ec53aee48399f7/gw110913.agagpf_org.wsr.htm?15852021...

	3.50	4.50	1.00	CLAY SANDY BROWN/SHALE	Unknown	
	4.50	4.90	0.40	SANDSTONE BROWN LOW STRENGTH	Unknown	
[4.90	6.00	1.10	CLAY SANDY BROWN SHALE	Unknown	
ŀ	6.00	6.20	0.20	SANDSTONE WEATHERED GREY WHITE	Linknown	
H					-	
L	6.20	10.00	3.80	SANDSTONE WHITE	Unknown	

*** End of GW110913 ***

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

WaterNSW Work Summary

GW110914

Work Type: Well Work Status: Construct.Method: Auger - Solid Owner Type: Private Commenced Date: Fina	tus:
Work Status: Construct.Method: Auger - Solid Owner Type: Private Completion Date: 20/01/2010 Contractor Name: Terratest Pty Ltd Driller: Wisam Abouchrouche Assistant Driller: Standing War	e(s): e(s): Monitoring Bore
Construct.Method: Auger - Solid Owner Type: Private Commenced Date: 20/01/2010 Fina Completion Date: 20/01/2010 Drille Contractor Name: Terratest Pty Ltd Driller: Wisam Abouchrouche Assistant Driller: Property: Standing War	
Owner Type: Private Commenced Date: 20/01/2010 Completion Date: 20/01/2010 Contractor Name: Terratest Pty Ltd Driller: Wisam Abouchrouche Assistant Driller: Standing War	
Commenced Date: Fina Completion Date: 20/01/2010 Contractor Name: Terratest Pty Ltd Driller: Wisam Abouchrouche Assistant Driller: Standing Wate	
Completion Date: 20/01/2010 Drille Contractor Name: Terratest Pty Ltd Driller: Wisam Abouchrouche Assistant Driller: Property: Standing Wat	
Driller: Wisam Abouchrouche Assistant Driller: Property: Standing Wat	pth: 6.00 m pth: 6.00 m
Assistant Driller: Property: Standing Wa	
Property: Standing Wa	
GWMA: Salinity Des	evel 5.000 (m):
-	ion:
GW Zone: Yi	_/s):

Site Chosen By:

	County Form A: CUMBERLAND Licensed:	Parish FIELD OF	Cadastre 1//509643
Region: 10 - Sydney South Coast	СМА Мар:		
River Basin: - Unknown Area/District:	Grid Zone:	Scale:	
Elevation: 0.00 m (A.H.D.) Elevation Source: Unknown	Northing: 6257260.000 Easting: 315973.000		33°48'31.9"S 151°00'42.6"E
GS Map: -	MGA Zone: 56	Coordinate Source:	Unknown

Construction

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

Hole	Pipe	Component	Туре	From (m)	To (m)	Outside Diameter (mm)	Inside Diameter (mm)	Interval	Details
1		Hole	Hole	0.00	6.00	125			Auger - Solid Flight
1		Annulus	Waterworn/Rounded	0.00	0.00				Graded
1	1	Opening	Screen	2.50	6.00	50		0	PVC Class 18, Screwed, A: 1.00mm

Water Bearing Zones

- H.		To (m)	Thickness (m)	WBZ Туре	-	 (L/s)	Hole Depth (m)	Salinity (mg/L)
	5.00	6.00	1.00	Unknown	5.00			

Drillers Log

From (m)	To (m)	Thickness (m)	Drillers Description	Geological Material	Comments
0.00	0.20	0.20	FILL, SILTY SAND BROWN	Fill	
0.20	0.40	0.20	FILL, SANDY CLAY RED GREY	Fill	
0.40	1.10	0.70	FILL SANDY CLAY RED	Fill	
1.10	2.50	1.40	CLAY SANDY RED	Clay Loam	
2.50	3.20	0.70	CLAY RED	Clay Loam	

3/26/2020

https://realtimedata.waternsw.com.au/wgen/users/5db9c958543a4a17a6ec53aee48399f7/gw110914.agagpf_org.wsr.htm?15852022...

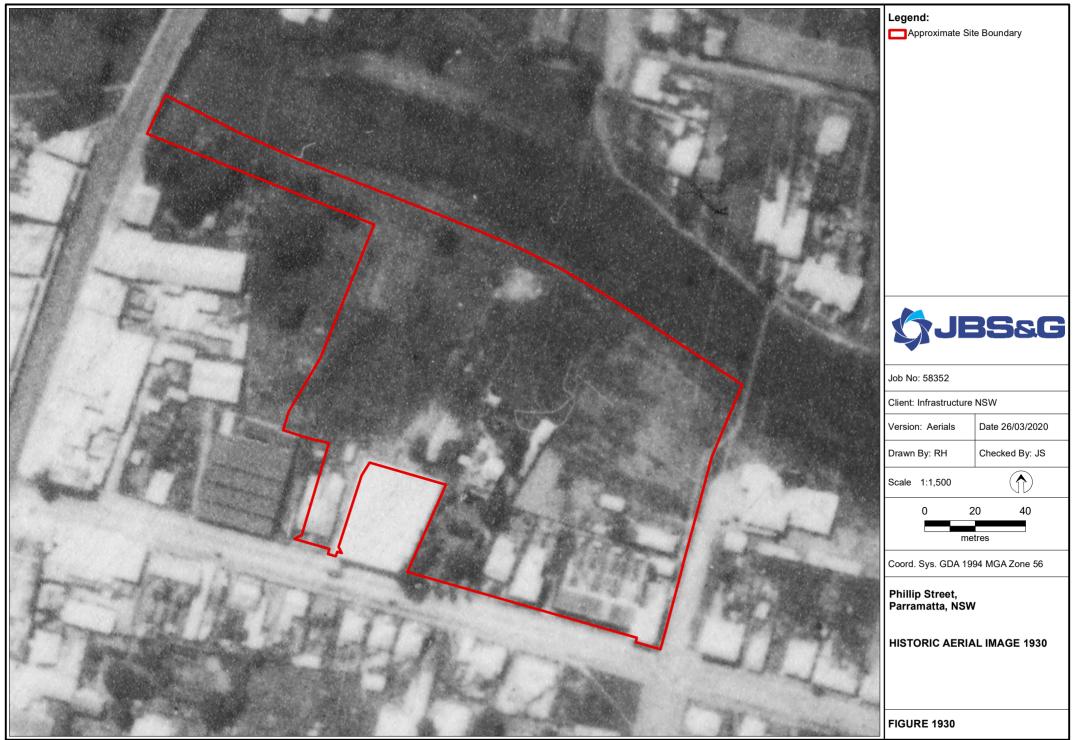
3.20	5.00	1.80	SILTSTONE, SHALE FRAGMENTS	Siltstone	
5.00	5.50	0.50	CLAY SANDY BROWN	Clay Loam	
5.50	6.00	0.50	SANDSTONE BROWN LOW STRENGTH	Sandstone	

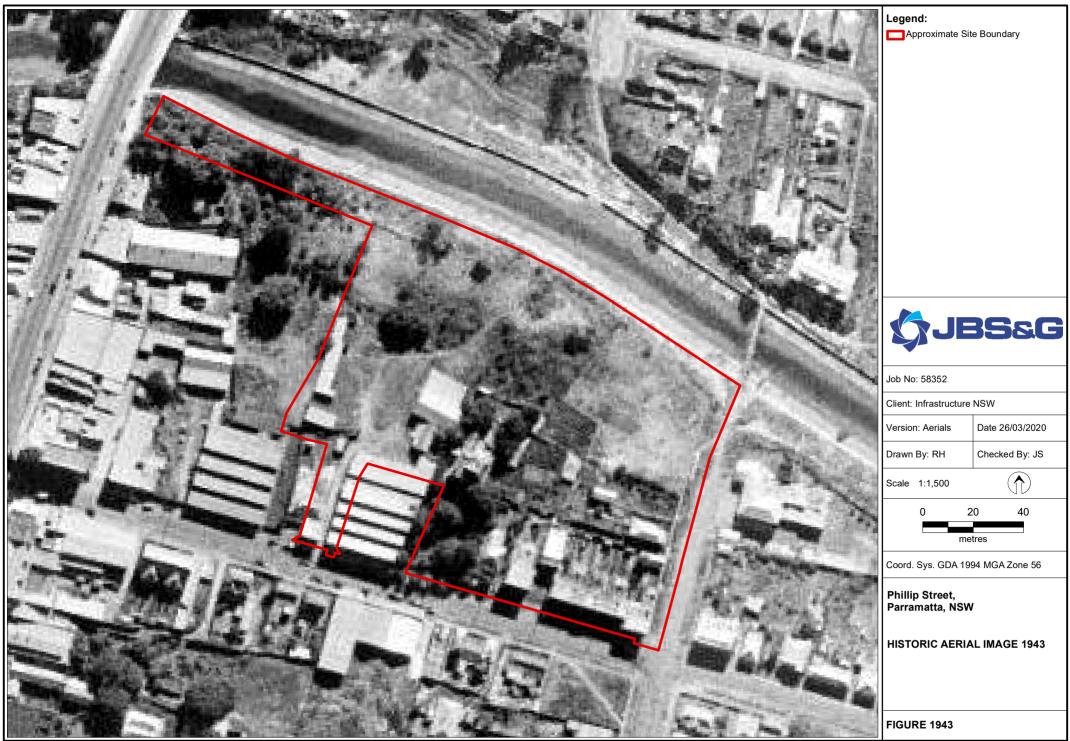
*** End of GW110914 ***

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



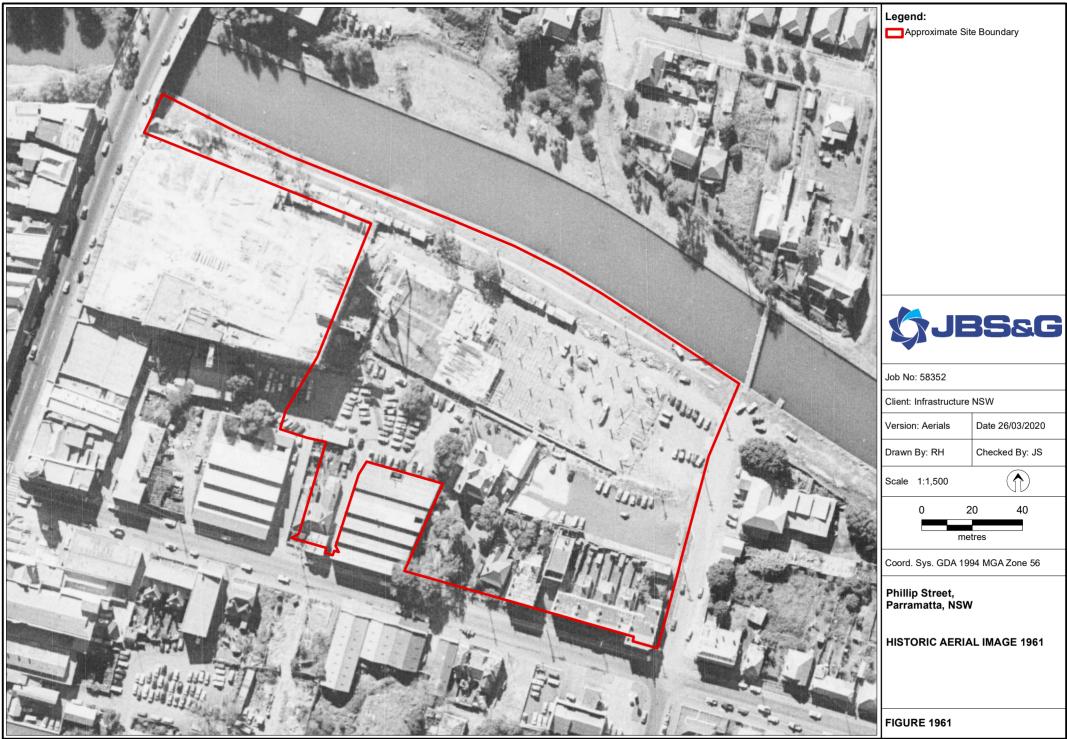
Appendix D Historical Aerials





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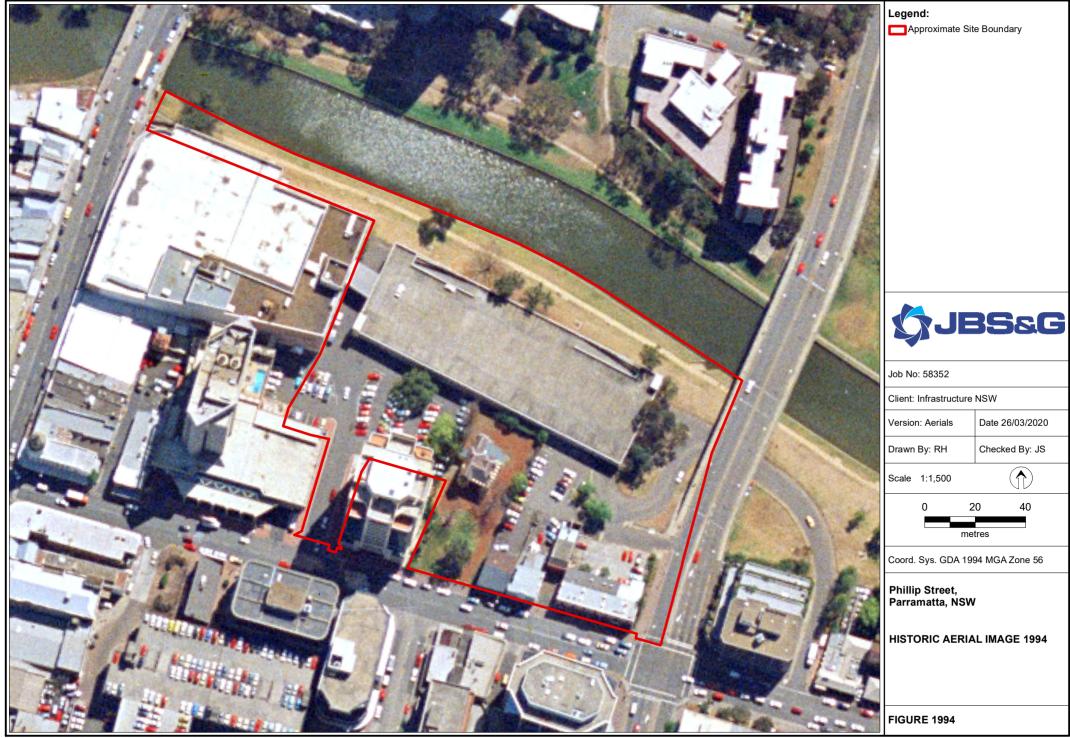


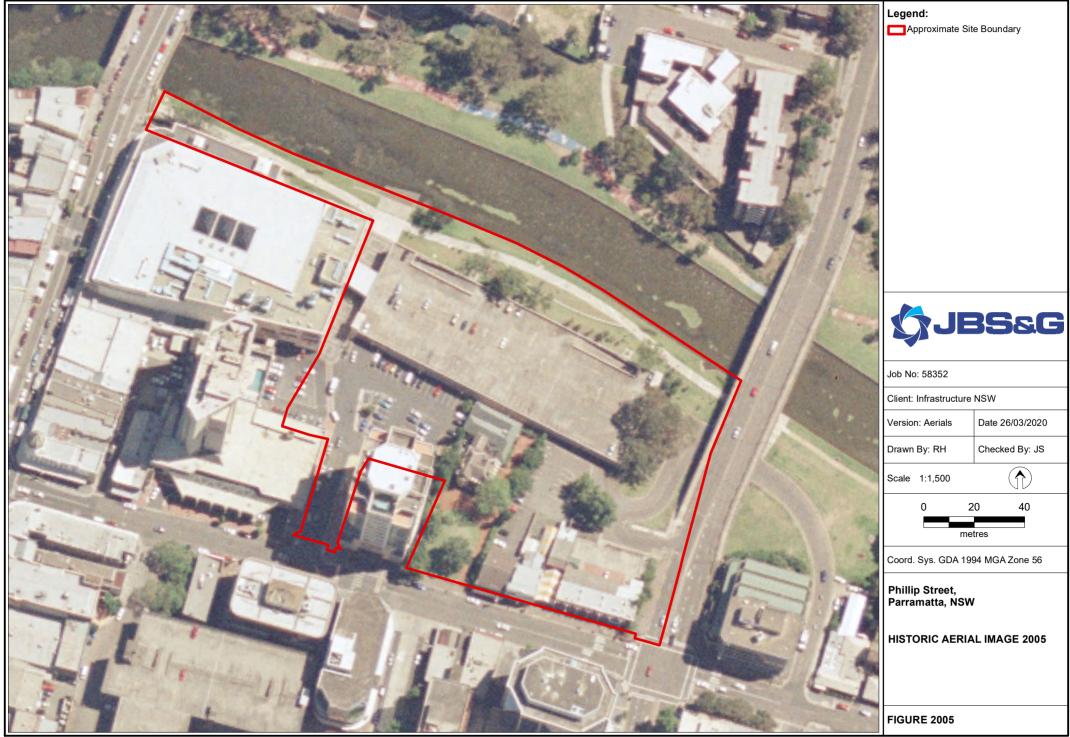
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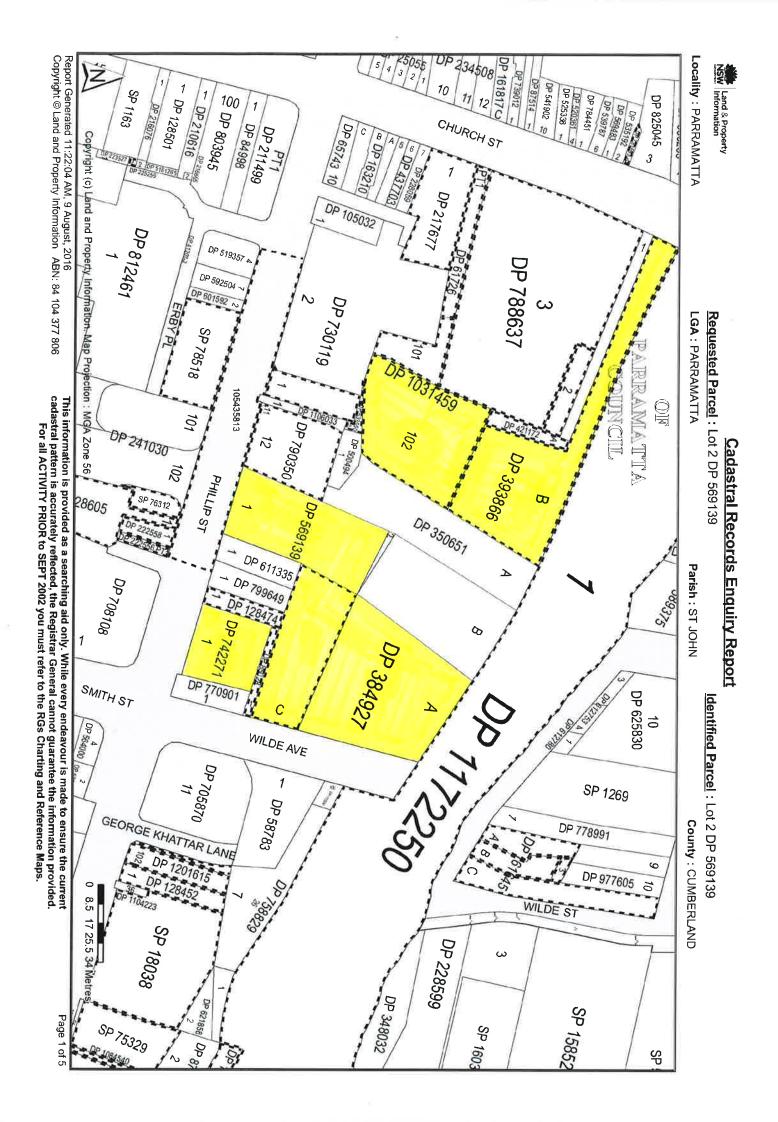
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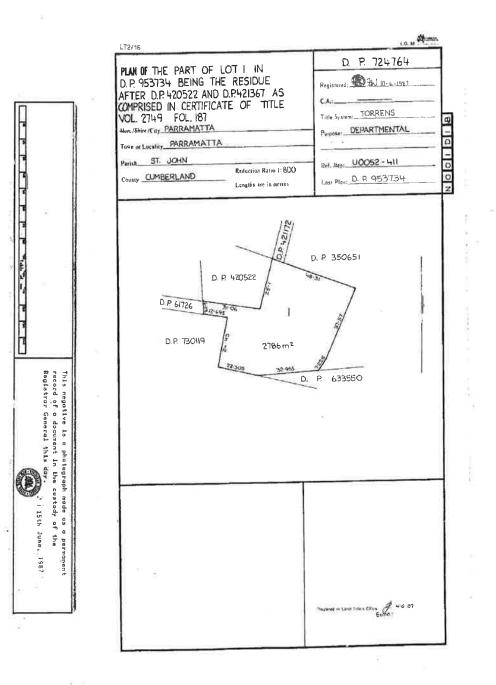


File Name: \\JBSG-NSW-FS01\Company Data\Projects\Infrastructure NSW\58352 - Parramatta Powerhouse\GIS\Maps\R01 Rev A\Aerials\58352_2020.mxd Reference: www.nearmap.com - Imagery 22-01-2020

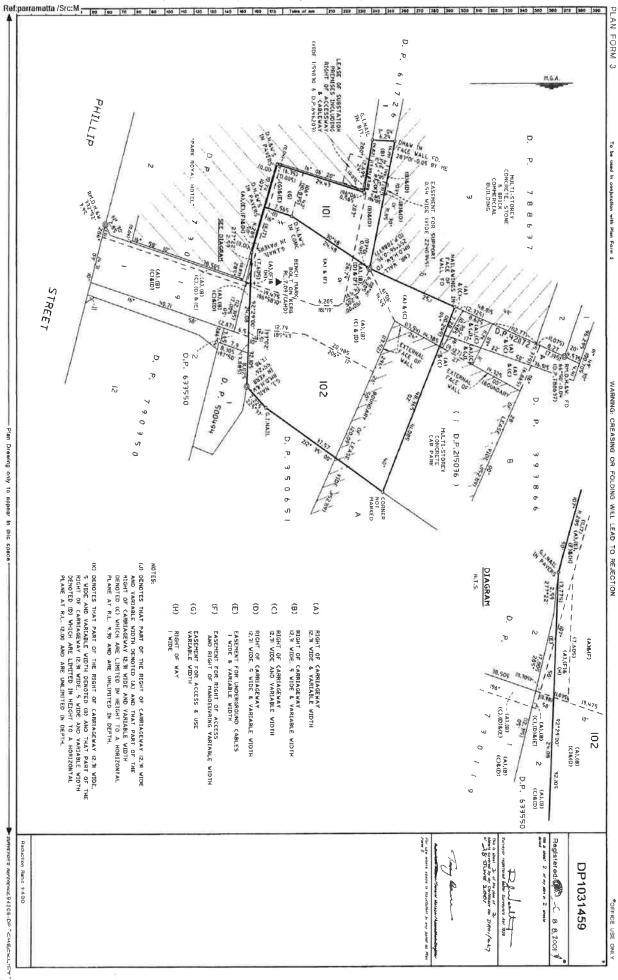


Appendix E Land Title Records

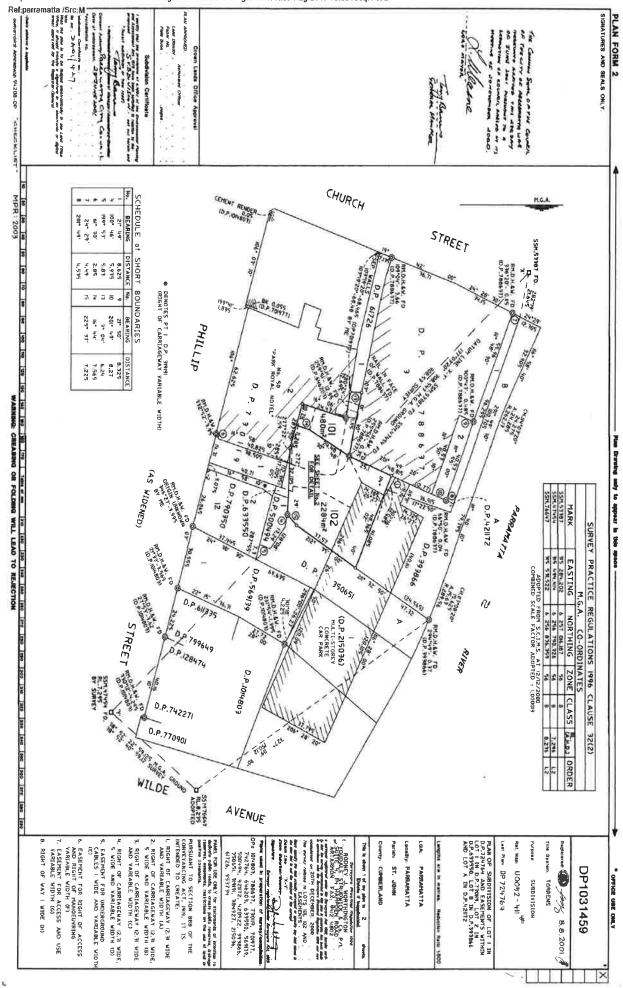




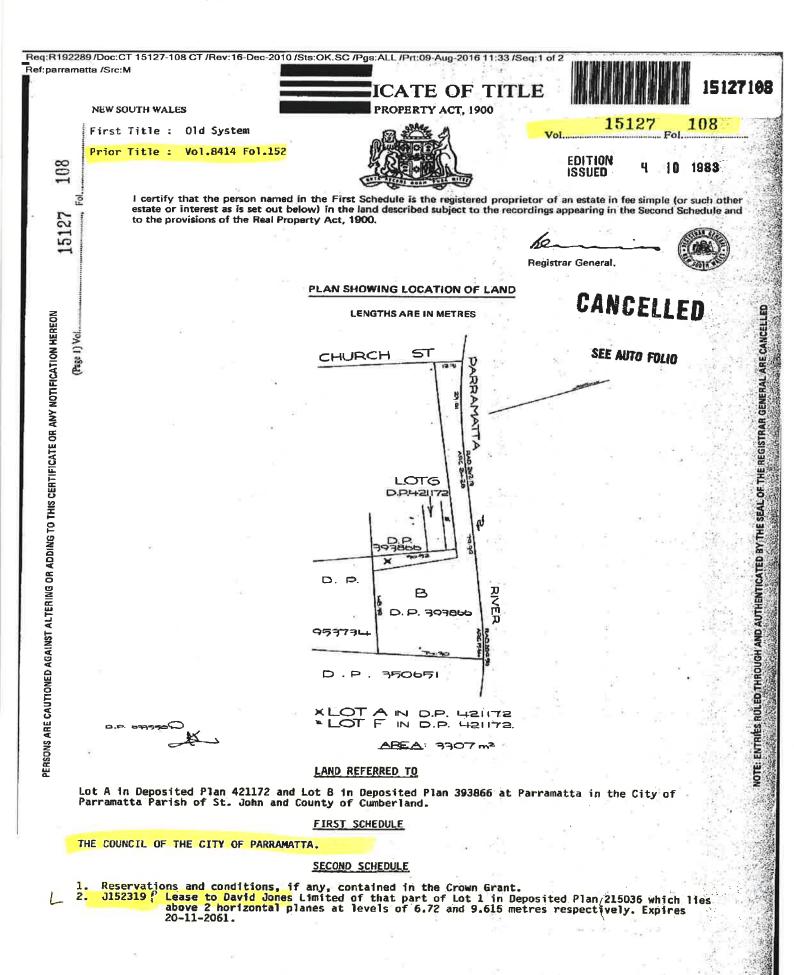
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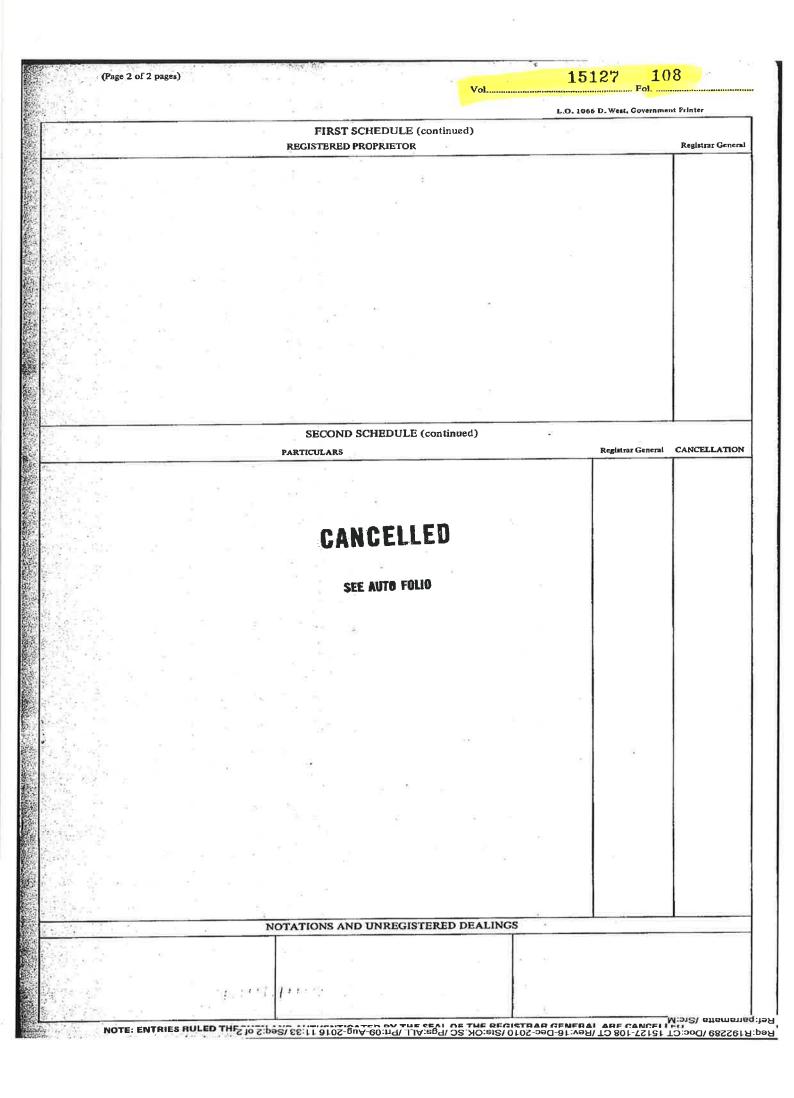


Reg:R193566 /Doc:DP 1031459 P /Rev:10-Aug-2001 /Sts:SC.OK /Pgs:ALL /Prt:09-Aug-2016 13:00 /Seq:2 of 2



Req:R193566 /Doc:DP 1031459 P /Rev:10-Aug-2001 /Sts:SC.OK /Pgs:ALL /Prt:09-Aug-2016 13:00 /Seq:1 of 2







Information Provided Through John McLaren & Co (NSW) Ph. 02 9231 4872 Fax. 02 9233 6557

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - HISTORICAL SEARCH

SEARCH DATE -----3/8/2016 7:45PM

FOLIO: AUTO CONSOL 15127-108

Recorded	Number	Type of Instrument	C.T. Issue
 19/2/1992		CONSOL HISTORY RECORD CREATED FOR AUTO CONSOL 15127-108	
		PARCELS IN CONSOL ARE: B/393866, A/421172.	
14/10/1996	2531470	DEPARTMENTAL DEALING	
17/10/1996	2482330	TRANSFER OF LEASE	
19/11/1996	2612687	MORTGAGE OF LEASE	
29/3/1999 29/3/1999 29/3/1999	5709942	DISCHARGE OF MORTGAGE TRANSFER OF LEASE MORTGAGE OF LEASE	
8/8/2001	DP1031459	DEPOSITED PLAN	EDITION 1
12/3/2002	8383390	CHANGE_OF_NAME	
12/3/2002 12/3/2002		MORTGAGE OF LEASE MORTGAGE OF LEASE	
26/6/2003 26/6/2003 26/6/2003 26/6/2003	9655519 9233090	DISCHARGE OF MORTGAGE DISCHARGE OF MORTGAGE DISCHARGE OF MORTGAGE SURRENDER OF LEASE	
26/6/2003		LEASE NODWCACE OF LEACE	
26/6/2003 21/7/2004	9655520 AA796278	MORTGAGE OF LEASE	EDITION 2
15/10/2007	AD413619	TRANSFER OF LEASE	
7/11/2007	AD544262	MORTGAGE OF LEASE	
14/8/2008	AE150031	DISCHARGE OF MORTGAGE	
15/10/2008	AE259990	DEPARTMENTAL DEALING	
6/6/2011 6/6/2011	AG229150 AG229151	DISCHARGE OF MORTGAGE TRANSFER OF LEASE	

END OF PAGE 1 - CONTINUED OVER

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - HISTORICAL SEARCH

FOLIO: AUTO CONSOL 15127-108

PAGE 2

Recorded	Number	Type of Instrument	C.T. Issue
18/12/2015	AK77891	SURRENDER OF LEASE	EDITION 3

*** END OF SEARCH ***

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Title Search

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - TITLE SEARCH

FOLIO: AUTO CONSOL 15127-108

		-	

SEARCH DATE	TIME	EDITION NO	DATE
3/8/2016	7:51 PM	3	18/12/2015

LAND

LAND DESCRIBED IN SCHEDULE OF PARCELS AT PARRAMATTA LOCAL GOVERNMENT AREA CITY OF PARRAMATTA PARISH OF ST JOHN COUNTY OF CUMBERLAND TITLE DIAGRAM SEE SCHEDULE OF PARCELS

FIRST SCHEDULE

THE COUNCIL OF THE CITY OF PARRAMATTA

SECOND SCHEDULE (3 NOTIFICATIONS)

1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)

2 DP1031459 RIGHT OF CARRIAGEWAY 12.31 WIDE AND VARIABLE WIDTH AFFECTING THE PART(S) SHOWN SO BURDENED AND DESIGNATED (A) IN DP1031459

3 DP1031459 RIGHT OF CARRIAGEWAY 12.31 WIDE AND VARIABLE WIDTH AFFECTING THE PART(S) SHOWN SO BURDENED AND DESIGNATED (C) IN DP1031459

NOTATIONS

UNREGISTERED DEALINGS: PE DP1203630.

SCHEDULE OF PARCELS

LOT B IN DP393866 LOT A IN DP421172 TITLE DIAGRAM DP393866 DP421172.

*** END OF SEARCH ***

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Historical Title

Information Provided Through John McLaren & Co (NSW) Ph. 02 9231 4872 Fax. 02 9233 6557

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - HISTORICAL SEARCH

SEARCH DATE -----3/8/2016 7:44PM

FOLIO: 1/724764

First Title(s): OLD SYSTEM Prior Title(s): VOL 2749 FOL 187

Recorded	Number	Type of Instrument	C.T. Issue
16/6/1987	DP724764	DEPOSITED PLAN	LOT RECORDED FOLIO NOT CREATED
29/2/1988	X299786	APPLICATION FOR REPLACEMENT CERTIFICATE OF TITLE	FOLIO CREATED EDITION 1
14/10/1996	2531470	DEPARTMENTAL DEALING	
17/10/1996	2482330	TRANSFER OF LEASE	
19/11/1996	2612687	MORTGAGE OF LEASE	
29/3/1999 29/3/1999 29/3/1999	5709941 5709942 5709943	DISCHARGE OF MORTGAGE TRANSFER OF LEASE MORTGAGE OF LEASE	
8/8/2001	DP1031459	DEPOSITED PLAN	FOLIO CANCELLED

*** END OF SEARCH ***

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LAND AND PROPERTY INFORMATION NEW SOUTH WALES - HISTORICAL SEARCH

FOLIO: 102/1031459

First Title(s): OLD SYSTEM Prior Title(s): 1/724764

Recorded	Number	Type of Instrument	(
8/8/2001	DP1031459	DEPOSITED PLAN	:

12/3/2002	8383390	CHANGE OF NAME
12/3/2002	8383393	MORTGAGE OF LEASE
12/3/2002	8383394	MORTGAGE OF LEASÉ
15/7/2002	8678283	REQUEST
26/6/2003	96 <mark>55</mark> 517	DISCHARGE OF MORTGAGE
26/6/2003	<mark>9655518</mark>	DISCHARGE OF MORTGAGE
26/6/2003	9655519	DISCHARGE OF MORTGAGE
26/6/2003	9233090	SURRENDER OF LEASE
26/6/2003	9233091	LEASE
26/6/2003	9655520	MORTGAGE OF LEASE
21/7/2004	AA796278	CAVEAT
15/10/2007	AD413619	TRANSFER OF LEASE
7/11/2007	AD544262	MORTGAGE OF LEASE
14/8/2008	AE150031	DISCHARGE OF MORTGAGE
2/10/2008	AE248075	TRANSFER OF LEASE
C/C/0011		
6/6/2011	AG229150	DISCHARGE OF MORTGAGE
6/6/2011	AG229151	TRANSFER OF LEASE
30/10/0015		
18/12/2015	AK77891	SURRENDER OF LEASE
00/6/0016		
29/6/2016	AK558617	DEPARTMENTAL DEALING

*** END OF SEARCH ***

С.Т. 1	lssue
FOLIO	CREATED
EDITIC	DN 1

EDITION 2

EDITION 3

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Title Search

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - TITLE SEARCH

FOLIO: 102/1031459

SEARCH DATE	TIME	EDITION NO	DATE
9/8/2016	1:12 PM	3	18/12/2015

LAND

LOT 102 IN DEPOSITED PLAN 1031459 AT PARRAMATTA LOCAL GOVERNMENT AREA CITY OF PARRAMATTA PARISH OF ST JOHN COUNTY OF CUMBERLAND TITLE DIAGRAM DP1031459

FIRST SCHEDULE

THE COUNCIL OF THE CITY OF PARRAMATTA

SECOND SCHEDULE (7 NOTIFICATIONS)

1	RESERVATIONS	TIME	CONDITITONS	TN	TUT	CDOMIN	CDANT (C)	1
1	VEDEVATIOND	AIVD	CONDITIONS	TTA	TUL	CROWIN	GRANI (S.	,

2	DP1031459	RIGHT OF CARRIAGEWAY 12.31 WIDE AND VARIABLE WIDTH
		AFFECTING THE PART(S) SHOWN SO BURDENED AND DESIGNATED
		(A) IN THE TITLE DIAGRAM
2	DD1021450	DICUM OF CARDIACEWAY 12 21 MIDE 5 MIDE AND MARIARIE

5 DP1031459	RIGHT OF CARRIAGEWAY 12.31 WIDE, 5 WIDE AND VARIABLE
	WIDTH AFFECTING THE PART(S) SHOWN SO BURDENED AND
	DESIGNATED (B) IN THE TITLE DIAGRAM

- 4 DP1031459 RIGHT OF CARRIAGEWAY 12.31 WIDE AND VARIABLE WIDTH AFFECTING THE PART(S) SHOWN SO BURDENED AND DESIGNATED (C) IN THE TITLE DIAGRAM
- 5 DP1031459 RIGHT OF CARRIAGEWAY 12.31 WIDE, 5 WIDE AND VARIABLE WIDTH AFFECTING THE PART(S) SHOWN SO BURDENED AND DESIGNATED (D) IN THE TITLE DIAGRAM
- 6 DP1031459 EASEMENT FOR UNDERGROUND CABLES 1 WIDE AND VARIABLE WIDTH AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM
- 7 DP1031459 EASEMENT FOR RIGHT OF ACCESS AND RIGHT OF MANOEUVRING VARIABLE WIDTH AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM

NOTATIONS

UNREGISTERED DEALINGS: PE DP1203630.

*** END OF SEARCH ***

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LAND AND PROPERTY INFORMATION NEW SOUTH WALES - HISTORICAL SEARCH

FOLIO: AUTO CONSOL 6792-237

Recorded Number ------15/2/1993

Type of Instrument CONSOL HISTORY RECORD CREATED FOR AUTO CONSOL 6792-237 C.T. Issue

ED

PARCELS IN CONSOL ARE: A-B/384927.

14/10/1996	2531470	DEPARTMENTAL DEALING
17/10/1996	2482330	TRANSFER OF LEASE
19/11/1996	2612687	MORTGAGE OF LEASE
29/3/1999 29/3/1999 29/3/1999	5709941 5709942 5709943	DISCHARGE OF MORTGAGE TRANSFER OF LEASE MORTGAGE OF LEASE
21/2/2000 21/2/2000	6504297 6504298	CAVEAT CAVEAT
29/6/2000 29/6/2000	6889731 6889732	REQUEST REQUEST
27/7/2001	7810392	DEPARTMENTAL DEALING
12/3/2002	8383390	CHANGE OF NAME
12/3/2002 12/3/2002		CHANGE OF NAME MORTGAGE OF LEASE
12/3/2002		MORTGAGE OF LEASE
	8383393	
12/3/2002	8383393	MORTGAGE OF LEASE
12/3/2002 12/3/2002 19/9/2002	8383393 8383394	MORTGAGE OF LEASE MORTGAGE OF LEASE
12/3/2002 12/3/2002	8383393 8383394 8891233	MORTGAGE OF LEASE MORTGAGE OF LEASE CAVEAT
12/3/2002 12/3/2002 19/9/2002	8383393 8383394 8891233	MORTGAGE OF LEASE MORTGAGE OF LEASE CAVEAT
12/3/2002 12/3/2002 19/9/2002 19/9/2002	8383393 8383394 8891233 8891234	MORTGAGE OF LEASE MORTGAGE OF LEASE CAVEAT CAVEAT
12/3/2002 12/3/2002 19/9/2002 19/9/2002 26/6/2003	8383393 8383394 8891233 8891234 9655517	MORTGAGE OF LEASE MORTGAGE OF LEASE CAVEAT CAVEAT DISCHARGE OF MORTGAGE
12/3/2002 12/3/2002 19/9/2002 19/9/2002 26/6/2003 26/6/2003	8383393 8383394 8891233 8891234 9655517 9655518	MORTGAGE OF LEASE MORTGAGE OF LEASE CAVEAT CAVEAT DISCHARGE OF MORTGAGE DISCHARGE OF MORTGAGE
12/3/2002 12/3/2002 19/9/2002 19/9/2002 26/6/2003 26/6/2003 26/6/2003	8383393 8383394 8891233 8891234 9655517 9655518 9655519	MORTGAGE OF LEASE MORTGAGE OF LEASE CAVEAT CAVEAT DISCHARGE OF MORTGAGE DISCHARGE OF MORTGAGE DISCHARGE OF MORTGAGE
12/3/2002 12/3/2002 19/9/2002 19/9/2002 26/6/2003 26/6/2003 26/6/2003 26/6/2003	8383393 8383394 8891233 8891234 9655517 9655518 9655519 9233090	MORTGAGE OF LEASE MORTGAGE OF LEASE CAVEAT CAVEAT DISCHARGE OF MORTGAGE DISCHARGE OF MORTGAGE DISCHARGE OF MORTGAGE SURRENDER OF LEASE
12/3/2002 12/3/2002 19/9/2002 26/6/2003 26/6/2003 26/6/2003 26/6/2003 26/6/2003	8383393 8383394 8891233 8891234 9655517 9655518 9655519 9233090 9233091	MORTGAGE OF LEASE MORTGAGE OF LEASE CAVEAT CAVEAT DISCHARGE OF MORTGAGE DISCHARGE OF MORTGAGE DISCHARGE OF MORTGAGE SURRENDER OF LEASE LEASE

EDITION 1

END OF PAGE 1 - CONTINUED OVER

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LAND AND PROPERTY INFORMATION NEW SOUTH WALES - HISTORICAL SEARCH

SEARCH DATE

3/8/2016 7:44PM

FOLIO: AUTO CONSOL 6792-237

PAGE 2

Recorded 15/10/2007	Number AD413619	Type of Instrument TRANSFER OF LEASE	C.T. Issue
7/11/2007	AD544262	MORTGAGE OF LEASE	
14/8/2008	AE150031	DISCHARGE OF MORTGAGE	
2/10/2008	AE248075	TRANSFER OF LEASE	
6/6/2011 6/6/2011	AG229150 AG229151	DISCHARGE OF MORTGAGE TRANSFER OF LEASE	×
18/12/2015	AK77891	SURRENDER OF LEASE	EDITION 2

*** END OF SEARCH ***

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LAND AND PROPERTY INFORMATION NEW SOUTH WALES - TITLE SEARCH

FOLIO: AUTO CONSOL 6792-237

SEARCH DATE	TIME	EDITION NO	DATE
9/8/2016	2:15 PM	2	18/12/2015

LAND

LAND DESCRIBED IN SCHEDULE OF PARCELS LOCAL GOVERNMENT AREA CITY OF PARRAMATTA PARISH OF ST JOHN COUNTY OF CUMBERLAND TITLE DIAGRAM DP384927

FIRST SCHEDULE

THE COUNCIL OF THE CITY OF PARRAMATTA

SECOND SCHEDULE (5 NOTIFICATIONS)

- 1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
- 2 6504297 CAVEAT BY PARRAMATTA REALTY PTY LIMITED AFFECTING PART BEING LOT A IN DP3849237
- * 6889731 ORDER OF COURT
- * 9233091 CAVEATOR CONSENTED
- * 3 6504298 CAVEAT BY PARRAMATTA REALTY PTY LIMITED & BODY CORPORATE MANAGEMENT SERVICES PTY LIMITED AFFECTING PART BEING LOT A IN DP384927
- * 6889732 ORDER OF COURT
- * 9233091 CAVEATOR CONSENTED
- * 4 8891233 CAVEAT BY PARRAMATTA REALTY PTY LIMITED OF PART BEING LOT A DP384927
- * 9233091 CAVEATOR CONSENTED

* 5 8891234 CAVEAT BY PARRAMATTA REALTY PTY LIMITED & BODY CORPORATE MANAGEMENT SERVICES PTY LTD OF PART BEING LOT A DP 384927 * 9223091 CONVENTOR CONSENTED

* 9233091 CAVEATOR CONSENTED

NOTATIONS

UNREGISTERED DEALINGS: NIL

SCHEDULE OF PARCELS

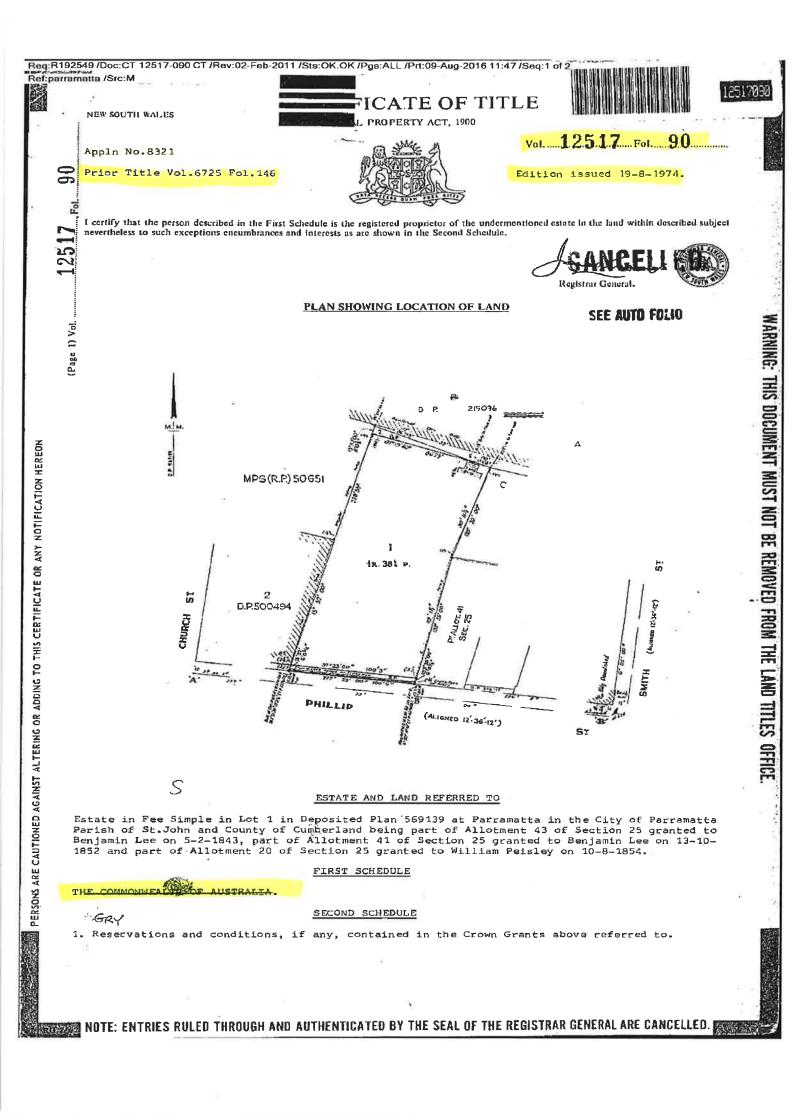
LOT A IN DP384927 LOT B IN DP384927.

*** END OF SEARCH ***

parramatta

PRINTED ON 9/8/2016

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



	R192549 /Doc:CT 12517-090 CT /Rev:02-Feb-20 parramatta /Src:M (Forge 2 of 2 poges)	1 /Sts:OK.OK /Pgs:ALL /Pr	rt:09-Aug-2016	6 11:47 /Seq:2 of Vol.	12517	Fol. 90	
FIRST SCHEDULE (continued) Navage in hitting Sign with in the second of the secon		NBO3218 ^P Mortbage to Hunter BNZ Finan	INSTRUMENT NUMBER			Adostino Bros. Pty. Limited by Transf.	20
INSTRUMENT OATE ENTERED Registration of registration o		ce Limited. Registered	SECOND SCHEDULE (continued)	SEE AUTO FOLIO	CANCELLED	Registered 26-3-1987	
INSTRUMENT ENTERED Signature of Registrance of and and and and and and and and and and			ENTERED			NAT	
CANCELLATION			Signature of Registrar General				INS
Registror General						DATE	
Registrer General			CANCELLATION				EN TEOPH
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Information Provided Through John McLaren & Co (NSW) Ph. 02 9231 4872 Fax. 02 9233 6557

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - HISTORICAL SEARCH

SEARCH DATE ------3/8/2016 7:44PM

FOLIO: 1/569139

First Title(s): SEE PRIOR TITLE(S) Prior Title(s): VOL 12517 FOL 90

	Recorded	Number	Type of Instrument	C.T. Issue
	28/3/1988		TITLE AUTOMATION PROJECT	LOT RECORDED FOLIO NOT CREATED
	8/8/1988		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED
23	16/8/1988	X623467	DISCHARGE OF MORTGAGE	EDITION 1
	25/8/1988	DP776173	DEPOSITED PLAN	
	22/12/1988	Y81060	DEPARTMENTAL DEALING	EDITION 2
	15/3/1989	Y.238540	MORTGAGE	EDITION 3
	1/6/1989	Y295334	MORTGAGE	EDITION 4
	15/8/1990	Z167932	DISCHARGE OF MORTGAGE	EDITION 5
	15/8/1994	U530531	DISCHARGE OF MORTGAGE	
	15/8/1994	U530532	TRANSFER	EDITION 6
	8/2/1996	0898268	REQUEST	EDITION 7
	25/8/2009	AE832752	TRANSFER	EDITION 8
	26/5/2015	AJ519382	CAVEAT	
	22/6/2015	AJ588489	TRANSFER	EDITION 9
	29/6/2016	AK558617	DEPARTMENTAL DEALING	

*** END OF SEARCH ***

parramatta

Req:R194175 /Doc:DL U530532 /Rev:26-M	ar-2010 /Sts:OK.SC /Pgs:ALL /Prt:09-	Aug-2016 13:57 /Seg:1 of 1			
Ref:parramatta /Src:M มา-มา	Real Property Act, 1900	U 530532 F			
£2		State Revenue use only E0/28092 70 1202 768011			
(A) LAND TRANSFERRED Show no more than 20 References to Titl If appropriate, specify the share transferre	Folio Identifier 1/569139				
(B) LODGED BY	74S The Chiff	And Telephane & HEMSLEY Solicitors & Notaries ey Tower, 2 Chiffey Square, Sydney Telephone: 230 4000 LTO 74S Fax: 233 7022 aracters): DAC 1047722 CX4			
(C) TRANSFEROR	AGOSTINO BROS PTY LIMITE (ACN 001 236 997)	D			
(D) acknowledges receipt of the consi and as regards the land specified	deration of\$875,000 above transfers to the transferee an es				
(E) subject to the following ENCU	MBRANCES 1	2 3			
	REX GENE MAUGHAN				
(G) (H) We certify this dealing correct for		11 August 1994			
Property Act, 1900 Signed in my presence by the trar known to me The COMMON SEAL of AGOSTINO was_affixed_in_the_presence. Signature of Witness Director Address of Witness	BROS PTY LIMITED Conclose of a Secol	JDirector MAA Signafure of Transferor Secretary			
Director/Secretary Signed in my presence by the tran known to me		. • • :			
Signature of Witness		da			
Name of Witness (BLOCK LE		Man			
Address of Witness		Signature of Transferce 's Solicitor			
INSTRUCTIONS FOR FILLING OUT THIS FORM A H. C. MARTYN & SONS (AUST.) PTY, LTD, PH: (02) 699 2499	RE AVAILABLE FROM THE LAND TITLES OFFICE	CHECKED BY (office use only)			

Req:R194176 /Doc:DL AE832752 /Rev:27-Aug-2009 /Sts:NO.OK /Pgs:ALL /Prt:09-Aug-2016 13:57 /Seq:1 of 3 Ref:parramatta /Src:M

٠	⊁orm: 01T Release: 3.5 www.lands.nsw.g		TRANSFER New South Wales				
	PRIVACY NOTE:	Section 31B of the Real Property Ac	Real Property Act 1900 t 1900 (RP Act) authorises	# AE8327	52G		
	by this form for the establishment and maintenance of the Real Property						
	STAMP DUTY Office of State Revenue use only NEW SOUTH VALES CUTY						
				24+06-2009 TRANSFER- TRANSF	0005388084-001		
					\$ ******3,000,000.00		
					\$ \$\$\$\$\$\$\$\$\$150,490.00		
(A)	TORRENS TITLE	1/569139					
(B)	LODGED BY	Document Name, Address or DX. Telephone, and LLPN if any					
		Collection Allens Arthur Bohlmoon 14 BN 123024W					
		Box DX 105 Sydney Tel: 9230 4000					
		45 Reference: VKHS: 206007894: PATS*6057					
(C)	TRANSFEROR						
	REX GENE MAUGHAN						
(2)	000000000000000						
(D)		SIDERATION The mansferor acknowledges receipt of the consideration of \$ 10.00 and as regards					
(E) (F)	ESTATE SHARE	the above land transfers to the tran	sicree an estate in	n tee simple			
(1)	TRANSFERRED	2					
(G)		Encumbrances (if applicable):					
(H)	TRANSFEREE			a second s			
		AUSTRALIA INVESTMENTS, Corporation Commission		gistered in the Arizona			
(I)	TENANCY:						
	DATE 29	tune 2009		protection of the second se			
		-une 2001					
(J)	 (1) I certify that the person(s) signing opposite, with whom I am personally acquainted or as to whose identity I am Otherwise satisfied, signed this instrument in my presence. 						
	Signature of with	ess:	Signa	ature of transferor:			
	FOR EXECUTION SEE						
Name of witness: ANNEXURE 'A'							
	I certify that the person(s) signing opposite, with whom I am personally acquainted or as to whose identity I an otherwise satisfied, signed this instrument in my presence.						
	Signature of with	essi	Signa	uure of transferee:			
	Name of witness:	FOR EXECUTION SEE					
	Address of witnes	S: ANNEXURE 'A'					
RELC							
	ALL HANDWRITING	MUST BE IN BLOCK CAPITALS.		DEPAR	TMENT OF LANDS		
	0902		Page 1 of 23	LAND AND PROPERTY INFORM	IATION DIVISION		
14 AUG 2009							
	1			Somme	Ind al		
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ME: 5.47							
	Dictoria Attanan						
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Req:R194176 /Doc:DL AE832752 /Rev:27-Aug-2009 /Sts:NO.OK /Pgs:ALL /Prt:09-Aug-2016 13:57 /Seq:2 of 3 Ref:parramatta /Src:M

> THIS IS ANNEXURE A TO TRANSFER FROM REX GENE MAUGHAN TO AUSTRALIA INVESTMENTS, LLC DATED 2009

Certified correct for the purposes of the Real Property Act 1900 by the transferor,

I certify that the person signing opposite, with whom I am personally acquainted or as to whose identity I am otherwise satisfied, sloped this instrument in my presence

signed this instrument in my presence Witness Signature Signa ind Print Name 3501 Address Scotter

Certilied correct for the purposes of the Real Property Act 1900 by the transferee.

over

Executed by AUSTRALIA INVESTMENTS,

LLC, a company registered in the Arizona Corporation Commission, USA, in accordance with its Articles of Organisation in the presence of:

color Witness Signature

REX G AUGH the

Member, Maughan Revocable Trust of 2007

inda 3 Print Name

McCarmic 1000 Address sclale 8508

ee. Page 2

pats A0112176134v1 206007894 25.3.2009

Req:R194176 /Doc:DL AE832752 /Rev:27-Aug-2009 /Sts:NO.OK /Pgs:ALL /Prt:09-Aug-2016 13:57 /Seq:3 of 3 Ref:parramatta /Src:M

FILM WITH

1.1

DECLARATION

I, REX GENE MAUGHAN of 7501 East McCormick Parkway, Scottsdale, Arizona 85258 USA, am a Trustee of the Maughan Revocable Trust of 2007, which is the sole member of Australia Investments, L.L.C. ("the Company") and do hereby swear, affirm and state under the penalty of perjury under the laws of the United States of America, as follows:

1. I am an adult person, competent to make this declaration on behalf of the Company and have personal knowledge of the matters set forth herein.

2. The Company is a foreign company.

3. The Company is not a registered foreign company.

4. The Company does not have an Australia Registered Body Number.

5. The Company does not carry on business in Australia within the meaning of s21(3) of the Corporations Act 1989.

6. All of the foregoing information is true and correct to the best of my knowledge, information and belief. If called upon to testify in court, I would testify $/^{1}$ as I have set forth above.

Dated this ______ July, 2009

MAUGHAN

3

Title Search

Information Provided Through John McLaren & Co (NSW) Ph. 02 9231 4872 Fax. 02 9233 6557

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - TITLE SEARCH

FOLIO: 1/569139

SEARCH DATE	TIME	EDITION NO	DATE
	a a construction of the second se		
3/8/2016	7:51 PM	9	22/6/2015

LAND

LOT 1 IN DEPOSITED PLAN 569139 AT PARRAMATTA LOCAL GOVERNMENT AREA CITY OF PARRAMATTA PARISH OF ST JOHN COUNTY OF CUMBERLAND TITLE DIAGRAM DP569139

FIRST SCHEDULE

PARRAMATTA CITY COUNCIL

(T AJ588489)

SECOND SCHEDULE (3 NOTIFICATIONS)

1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)

2 DP776173 RESTRICTION(S) ON THE USE OF LAND

3 0898268 POSITIVE COVENANT

NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

parramatta

PRINTED ON 3/8/2016

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Information Provided Through John McLaren & Co (NSW) Ph. 02 9231 4872 Fax. 02 9233 6557

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - HISTORICAL SEARCH

SEARCH DATE -----3/8/2016 7:44PM

FOLIO: 1/742271

First Title(s): OLD SYSTEM Prior Title(s): CA17906

Recorded	Number	Type of Instrument	C.T. Issue
23/3/1987		CONVERSION ACTION	FOLIO CREATED EDITION 1
18/5/1989	Y373361	VARIATION OF MORTGAGE	EDITION 2
22/3/1991	Z551537	VARIATION OF MORTGAGE	EDITION 3
22/4/1991	Z604589	LEASE	EDITION 4
9/2/1993	I105619	VARIATION OF MORTGAGE	EDITION 5
1/2/1995	U982687	DISCHARGE OF MORTGAGE	
1/2/1995 1/2/1995	U982688 U982689	LEASE VARIATION OF LEASE	EDITION 6
21/9/1995	0548854	LEASE	
21/9/1995 21/9/1995	0548855 0548856	LEASE LEASE	EDITION 7
29/9/1995	0574410	LEASE	EDITION 8
5/6/1998	5036788	VARIATION OF LEASE	EDITION 9
11/8/1999	6083251	CAVEAT	
22/10/1999	6288013	SURRENDER OF LEASE	EDITION 10
4/6/2001	7436431	APPLICATION FOR PREPARATION OF LAPSING NOTICE	
	7912663	REQUEST	
4/9/2001	7912664	TRANSFER	
4/9/2001	7912665	MORTGAGE	EDITION 11
31/3/2004	AA534350	LEASE	EDITION 12
16/8/2007	AD320581	LEASE	EDITION 13
29/7/2008	AE116754	TRANSFER	EDITION 14

END OF PAGE 1 - CONTINUED OVER

parramatta

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - HISTORICAL SEARCH

PAGE 2

Recorded	Number	Type of Instrument	C.T. Issue
12/10/2009	AE784457	LEASE	EDITION 15
2/3/2012 2/3/2012	AG818337 AG818338	DISCHARGE OF MORTGAGE MORTGAGE	EDITION 16
7/12/2013	AI221604	DISCHARGE OF MORTGAGE	EDITION 17
22/1/2014	AI318294	TRANSFER	EDITION 18
20/5/2014	AI590551	TRANSFER	EDITION 19
17/4/2015	AJ412502	CAVEAT	
13/8/2015	AJ728014	WITHDRAWAL OF CAVEAT	
13/8/2015	AJ728015	TRANSFER	EDITION 20
29/6/2016	AK558617	DEPARTMENTAL DEALING	

*** END OF SEARCH ***

parramatta

FOLIO: 1/742271

PRINTED ON 3/8/2016

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	331 /Doc:DL 7912 natta /Src:M	2664 /Rev:07-Sep-2001 /Sts:NO.	.OK /Pgs:ALL /F	rt:09-Aug-2016 14:4	13 /Seq:1 of 1	
	Form: 01T Release: 1 www.lpi.nsw.gov					
	www.ipi.iisw.go		Real Property Act	1900	<u>912664.</u>	
	STAMP DUTY	TRANS	No. 1387067	ST/	оп и(ервилласона Амр №. 789 SNATURE, Сукася TE29 [6/200.]	Le
(A)	TORRENS TITLE	1/740071			WARLAN FRANK SALAKING FRANK ANAL SALAKIN	and the second
		1/742271				
(B)	LODGED BY	Delivery Box 24J CTB				CODES T TW
(C)	TRANSFEROR	WALDOR DEVELOPMENT PTY.		N. 000 308 510		(Sheriff)
(D) (E)		The transferor acknowledges receipt of the land specified above transfers to			0	and as regards
(E) (F)	SHARE	the faile spectree above transfers to	the transferee and	estate în ree simple		
(G)	TRANSFERRED	Encumbrances (if applicable):				
1387067 AUTEF	ATION NUTLER	JOHN FRANCIS SURIAN, CHF DAVID RONALD LEWARNE and TENANCY: Tenants in Commo	I REDLEE IMPO	ORTS PTY LTD A.	1 BROOKS, C.N. 072 007	366
ŝ	Certified correct for by the corporation was affixed pursua	1 person:	hich le presence) below. Sig Na	mache of authorised p 65. ANTICE me of authorised perso fice held: 3 (per	erson:	ON SEAL S
			190 Sig Sig	rtified for the purposes 00 by the person whose gnature: 10 WARRAN IO gnatory's name: W gnatory's name; W	e signature appears be	LE TEMAS TEMAS TEMAJ.
	All handwriting mu	st be in block capitals.	Page 1 of number additiona pages sequentiall	-	nd and Property Infor	mation NSW.

Contraction of the second

Req:R194832 /Doc:DL A Ref:parramatta /Src:M	E116754 /Rev:31-Jul-2008 /Sts:NO.OK /Pgs:/	ALL /Prt:09-Aug-2016 14:43 /Seq:1 of 1
Form: 01T Licence: 01-05-025	U TRANS	
	Software Pty Limited	
PRIVACY NOTE: See	Real Property Act 1900 (RP Act) au	Act 1900 Ithorises the Registrar General to collect the information
required by this form	for the establishment and maintenance of the Realizable to any person for search upon payment of a	I Property Act Register, Section 96B RP Act requires that the
STAMP DUTY	Office of State Revenue use only	NEW SOUTH WALES DUTY
		10-07-2008 0005062376-001
		TRANSFER- TRANSFER
(A) TORRENS TITLE	If appropriate, specify the part transferred FOLIO IDENTIFIER 1/742271	OUTY \$ \$\$\$\$\$\$\$\$17,990.00
(B) LODGED BY	Delivery Name, Address or DX and Telephe Box	LLPN: 123836E
	245	
	Reference (optional): 4792	2-teol (Sheriff)
(C) TRANSFEROR		(onerity)
	DAVID RONALD LEWARNE	
(D) CONSIDERATION	The transferor acknowledges receipt of the consistent of the consistent of the consistent of the last	deration of \$500,000.00 and as regards
(E) ESTATÉ (F) SHARE	the land specified above transfers to the transfer	ee an estate in fee simple.
TRANSFERRED		
	Encumbrances (if applicable): Mortgage regis	tered No. 7912665
(H) TRANSFEREE	ANDREW BROOKS and JOHN FRANCIS SL	RIAN
(1)	TENANCY: Tenants in Common in Equal Shares	
DATE 10 0	7/2008	
I am personally acq	rson(s) signing opposite, with whom uainted or as to whose identity 1 am signed this instrument in my presence.	Certified correct for the purposes of the Real Property Act 1900 by the transferor
Signature of witnes	del	and the second sec
-	THE	Signature of transferor
Name of witness: Address of witness:	There younes. Sy Sorred St.	\mathcal{O} is
	rson(s) signing opposite, with whom	Certified correct for the purposes of the Real
	uainted or as to whose identity I am signed this instrument in my presence.	Property Act 1900 by the transferee.
Signature of witness		Signature of transferee
Name of witness:	Jesah ming	
Address of witness:		and the second sec
	206 CORUNNA ROAD	and and
	PETERSHAM 2049	
	· •	- T

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ALL HANDWRITING MUST BE IN BLOCK CAPITALS

Page 1 of <u>1</u> number additional pages sequentially

q:R194833 /Doc:[_ Al318294 /Rev:24-Jan-2014 /Sts:NO.OK /Pgs:ALL /Prt:09-Aug-2016 14:43 /Seq:1 of 1
f:parramatta /Src: Licence: 05-1 Licensee: Softe Matthews Folbigg f	636 New South Wales A Limited Real Property Act 1900
PRIVACY NOTE: by this form for t	Section 31B of the Real Property Act 1900 (RP Act) authorises the establishment and maintenance of the Real Property Act Register. Section AI318294E
STAMP DUT	Office of State Revenue use only Client No: 2312805 1887 Duty: 1510 - Truce Ne: 7447115 Asst details:
(A) TORRENS TI	LE 1/742271
(B) LODGED BY	Document Collection BoxName, Address or DX, Telephone, and Customer Account Number if any INALLIEWSTOIDIOSCODES T CODESBoxTel: 9635 7966 Fax: 9689 3494 PO Box 248 Parramatta 2124 DX 8233 Parramatta Reference (optional Joax: 307VCODES T T DC G I32245T T TW
(C) TRANSFERG	
(D) CONSIDERAT	ON The transferor acknowledges receipt of the consideration of \$ 590,000.00 and as regards the land
(E) ESTATE	specified above transfers to the transferee an estate in fee simple.
(F) SHARE TRANSFERR	
(G)	Encumbrances (if applicable):
(H) TRANSFERE	REDLEE IMPORTS PTY LTD (ACN 072 007 366)
(I)	TENANCY:
DATE	20, 12, 13
and executed authorised pu pursuant to t Company: R Authority: S Signature of Name of auth	ect for the purposes of the Real Property Act 1900 on behalf of the company named below by the rson(s) whose signature(s) appear(s) below e authority specified. EDLEE IMPORTS PTY LTD (ACN 072 007 366) ction 127(1) of the Corporations Act 2001 authorised person: Forised person: Robert Henry Walsman Director
ė	Certified correct for the purposes of the Real Property Act 1900 by the person whose signature appears below.
	Signature: MMMM. Signatory's name: Phillip Brophy Capacity: Solicitor for the transferee
	s's solicitor certifies that the eNOS data relevant to this dealing has been submitted and ENOS ID No. Full Name:

* s117 RP Act requires that you must have known the signatory for more than 12 months or have sighted identifying documentation. ALL HANDWRITING MUST BE IN BLOCK CAPITALS Page 1 of 1 Number additional pages sequentially

lef:parr For Lic Lic Matt	amatta /Src:M m: 01T ence: 05-11-638 ensee: Softdocs thews Folbigg Pty Lir VACY NOTE: Sect	nited ion 31B of the	Real Property Act 1	TRANSF New South W Real Property Ad 1900 (RP Act) auti	ER ales ct 1900 norises the		
by t mad	his form for the es le available to any STAMP DUTY	person for sea	nd maintenance of t rch upon payment of te Revenue use only	of a fee, if any.	Act Register.	Section 96B RP Act requires the	
						Client No: 2312805 Duty: 510:00 Trans No: 7/ Asst dot:ils:	1867 105440
(A)	TORRENS TITLE	1/742271					
(B)	LODGED BY	Document Collection Box 307V	Name, Address or D Acc. No. 123198 DX 8233 PARRA Tel: 9635 7966 Reference (optional)	BL Matthews F			CODES T TW
(C)	TRANSFEROR	JOHN FRAI					
	CONSIDERATION ESTATE		or acknowledges rec we transfers to the t	-			regards the land
(F) (G)	SHARE TRANSFERRED	Encumbrance	es (if applicable):		<u>u a</u>	1	
	TRANSFEREE		RIAN PTY LTD A	CN 001 906 11	8		
(I)		TENANCY:			(a)		
(J)	I certify I am and signed this dealin [See note* below	eligible witnes g in my presen]	s and that the transf nce.	feror	1900 by the t	101	Property Act
	Signature of with Name of witness: Address of witnes	Sue 51:1 21 C	ADDIES (BE HILL		Signature of	transferor:	
	and executed on l authorised person pursuant to the au Company: JOHN	behalf of the contract of the	es of the Real Prope ompany named belo nature(s) appear(s) l ed. TY LTD ACN 001 e Corporations Act	ow by the below 906 118		. 10	Λ
	Signature of authoris Name of authoris Office held:	ed person: K	mancy d	winan surian	Signature of a Name of auth Office held: y		Surior
(K)		olicitor certifi	es that the eNOS da		-		
	stored under eNC	DS ID No.	Full N	Vame:	••••••••	Signature:	

* s117 RP Act requires that you must have known the signatory for more than 12 months or have sighted identifying documentation. ALL HANDWRITING MUST BE IN BLOCK CAPITALS Page 1 of 1 Number additional pages sequentially

Title Search

Information Provided Through John McLaren & Co (NSW) Ph. 02 9231 4872 Fax. 02 9233 6557

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - TITLE SEARCH

FOLIO: 1/742271

SEARCH DATE	TIME	EDITION NO	DATE
			1000 Carl 100 Carl
9/8/2016	2:32 PM	20	13/8/2015

LAND

LOT 1 IN DEPOSITED PLAN 742271 AT PARRAMATTA LOCAL GOVERNMENT AREA CITY OF PARRAMATTA PARISH OF ST JOHN COUNTY OF CUMBERLAND TITLE DIAGRAM DP742271

FIRST SCHEDULE

PARRAMATTA CITY COUNCIL

(T AJ728015)

SECOND SCHEDULE (2 NOTIFICATIONS)

1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)

2 LIMITED TITLE. LIMITATION PURSUANT TO SECTION 28T(4) OF THE REAL PROPERTY ACT, 1900. THE BOUNDARIES OF THE LAND COMPRISED HEREIN HAVE NOT BEEN INVESTIGATED BY THE REGISTRAR GENERAL.

NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

parramatta

PRINTED ON 9/8/2016

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Information Provided Through John McLaren & Co (NSW) Ph. 02 9231 4872 Fax. 02 9233 6557

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - HISTORICAL SEARCH

SEARCH DATE -----9/8/2016 11:23AM

FOLIO: C/384927

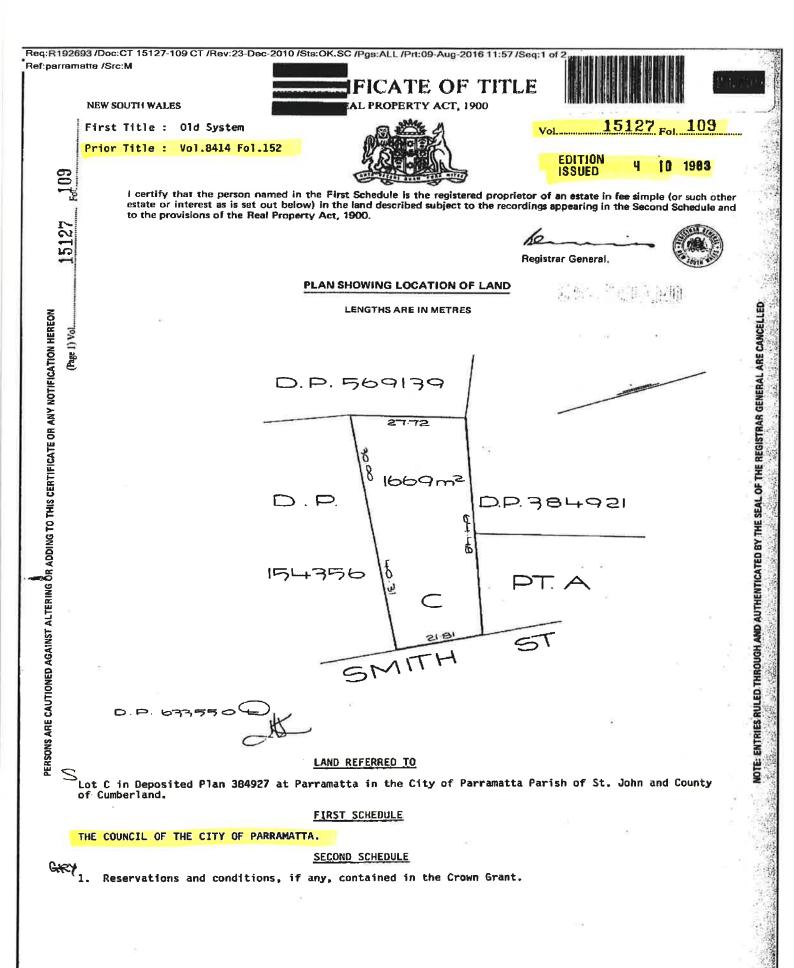
First Title(s): SEE PRIOR TITLE(S) Prior Title(s): VOL 15127 FOL 109

Recorded	Number	Type of Instrument	C.T. Issue
29/7/1989		TITLE AUTOMATION PROJECT	LOT RECORDED FOLIO NOT CREATED
26/9/1989		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED
12/8/1999	6084941	CAVEAT	
21/2/2000 21/2/2000	6504297 6504298	CAVEAT CAVEAT	
29/6/2000 29/6/2000	6889731 6889732	REQUEST REQUEST	
27/7/2001	7810392	DEPARTMENTAL DEALING	
7/2/2002	DP1014803	REJECTED - DEPOSITED PLAN	
24/5/2002 24/5/2002	6796013 6796014	WITHDRAWN - REQUEST WITHDRAWN - REQUEST	
19/9/2002 19/9/2002	8891233 8891234	CAVEAT CAVEAT	
25/9/2007	AD439976	DEPARTMENTAL DEALING	
29/6/2016	AK558617	DEPARTMENTAL DEALING	

*** END OF SEARCH ***

parramatta

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(Page 2 of 2 pages)		Vol	15127 1(9
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С.,	NOTATIONS AND UNREC	DISTERED DEALINGS		
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Title Search

Information Provided Through John McLaren & Co (NSW) Ph. 02 9231 4872 Fax. 02 9233 6557

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - TITLE SEARCH

FOLIO: C/384927

SEARCH DATE	TIME	EDITION NO	DATE
	2010020100		
9/8/2016	2:27 PM	a	2

VOL 15127 FOL 109 IS THE CURRENT CERTIFICATE OF TITLE

LAND

LOT C IN DEPOSITED PLAN 384927 AT PARRAMATTA LOCAL GOVERNMENT AREA CITY OF PARRAMATTA PARISH OF ST JOHN COUNTY OF CUMBERLAND TITLE DIAGRAM DP384927

FIRST SCHEDULE

THE COUNCIL OF THE CITY OF PARRAMATTA

SECOND SCHEDULE (6 NOTIFICATIONS)

1	RESERVATIONS		CONDITIONC	TNT		CDOUNT	
<u>+</u>	VESEKANTONS	AND	CONDITIONS	TIN	TUL	CROWN	GRANIISI

* 2 6084941 CAVEAT BY RIVERQUAY DEVELOPMENTS PTY LIMITED

- * 3 6504297 CAVEAT BY PARRAMATTA REALTY PTY LIMITED
- * 6889731 ORDER OF COURT

* 4 6504298 CAVEAT BY PARRAMATTA REALTY PTY LIMITED & BODY CORPORATE MANAGEMENT SERVICES PTY LIMITED

- * 6889732 ORDER OF COURT
- * 5 8891233 CAVEAT BY PARRAMATTA REALTY PTY LIMITED
- * 6 8891234 CAVEAT BY PARRAMATTA REALTY PTY LIMITED & BODY CORPORATE MANAGEMENT SERVICES PTY LTD

NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

parramatta

PRINTED ON 9/8/2016

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



Appendix F Council Certificates



PLANNING CERTIFICATE

CERTIFICATE UNDER SECTION 149

Environmental Planning and Assessment Act, 1979 as amended

Fee: \$133.00

- Issue Date: 3 August 2016
- **Receipt No:** 4706939
- Applicant Ref: PSM PARRAMATTA:49215

DESCRIPTION OF LAND

Address: St Georges Terrace 44 Phillip Street PARRAMATTA NSW 2150

Lot Details: Lot 1 DP 742271

SECTION A

The following Environmental Planning Instrument to which this certificate relates applies to the land:

Parramatta Local Environmental Plan 2011

For the purpose of **Section 149(2)** it is advised that as the date of this certificate the abovementioned land is affected by the matters referred to as follows:





The land is zoned: B4 Mixed Use PLEP2011

Issued pursuant to Section 149 of the Environmental Planning and Assessment Act, 1979. <u>NOTE:</u> This table is an excerpt from Parramatta Local Environmental Plan 2011 and must be read in conjunction with and subject to the other provisions of that instrument, and in force at that date.

1 Objectives of zone

- To provide a mixture of compatible land uses.
- To integrate suitable business, office, residential, retail and other development in accessible locations so as to maximise public transport patronage and encourage walking and cycling.
- To encourage development that contributes to an active, vibrant and sustainable neighbourhood.
- To create opportunities to improve the public domain and pedestrian links.
- To support the higher order Zone B3 Commercial Core while providing for the daily commercial needs of the locality.
- To protect and enhance the unique qualities and character of special areas within the Parramatta City Centre.

2 Permitted without consent

Home occupations

3 Permitted with consent

Boarding houses; Building identification signs; Business identification signs; Child Commercial premises; Community care centres: facilities: Educational establishments; Entertainment facilities; Function centres; Hotel or motel accommodation; Information and education facilities; Light industries; Medical centres; Passenger transport facilities; Recreation facilities (indoor); Registered clubs: Respite day care centres; Restricted premises; 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 launching ramps; Boat sheds; Camping grounds; Caravan parks; Cemeteries; Charter and tourism boating facilities; Crematoria; Depots; Dual occupancies; Dwelling houses; Eco-tourist facilities; Electricity generating works; Exhibition homes; Exhibition villages; Extractive industries; Farm buildings; Forestry; Freight transport facilities; Heavy industrial storage establishments; Helipads; Highway service centres; Home industries; Home occupations (sex services); Industrial retail outlets; Industrial training facilities; Industries; Marinas; Mooring pens; Moorings; Mortuaries; Open cut mining; Port facilities; Recreation facilities (major); Research stations; Rural industries; Rural workers' dwellings; Secondary dwellings; Semi-detached dwellings; Sewerage systems; Sex services premises; Signage; Storage premises; Transport depots; Truck depots; Vehicle body repair workshops; Warehouse or distribution centres; Waste or resource management facilities; Water recreation structures; Water supply systems; Wharf or boating facilities; Wholesale supplies



SECTION B

State Policies and Regional Environmental Plans

The land is affected by State Environmental Planning Policies and Regional Environmental Plans as detailed in Annexure "B1".

Draft Local Environmental Plan

The land is not affected by a Draft Local Environmental Plan which has been placed on Public Exhibition and has not yet been published.

Development Control Plan

The land is affected by Parramatta Development Control Plan 2011.

The Minister for Planning has issued directions that provisions of an EPI do not apply to certain Part 4 development where a concept plan has been approved under Part 3A.

Development Contribution Plan

The Parramatta Civic Improvement Plan (Amendment No. 4) applies to this land.

Heritage Item/Heritage Conservation Area

The land is identified as containing a Heritage Item in Parramatta Local Environmental Plan 2011

The land is not located in a heritage conservation area.

Road Widening

The land is not affected by road widening or road realignment under:

- (a) Division 2 of Part 3 of the Roads Act 1993.
- (b) Any Environmental Planning Instrument.
- (c) Any Resolution of Council.

Land Reservation Acquisition

The land is not affected by Land Reservation Acquisition in Parramatta Local Environmental Plan 2011.

Site Compatibility Certificate (Seniors Housing, Infrastructure and Affordable Rental Housing) At the date of issue of this certificate Council is not aware of any

- a. Site compatibility certificate (affordable rental housing),
- b. Site compatibility certificate (infrastructure),
- c. Site compatibility certificate (seniors housing)

in respect to the land issued pursuant to the Environmental Planning & Assessment Amendment (Site Compatibility Certificates) Regulation 2009 (NSW).

Contamination

The land is not affected by any of the matters contained in Clause 59(2) as amended in the Contaminated Land Management Act 1997 – as listed

- a. that the land to which the certificate relates is significantly contaminated land
- b. that the land to which the certificate relates is subject to a management order



- c. that the land to which the certificate relates is the subject of an approved voluntary management proposal
- d. that the land to which the certificate relates is subject to an ongoing maintenance order
- e. that the land to which the certificate relates is the subject of a site audit statement

Tree Preservation

The land is subject to Section 5.4 Preservation of Trees or Vegetation in Parramatta Development Control Plan 2011.

Council has not been notified of an order under the Trees (Disputes Between Neighbours) Act 2006 to carry out work in relation to a tree on the land.

Coastal Protection

The land is not affected by Section 38 or 39 of the Coastal Protection Act 1979.

Has an order been made under Part 4D of the Coastal Protection Act 1979 in relation to temporary coastal protection works (within the meaning of the Act) on the land (or on public land adjacent to that land)?

NO

Has Council been notified under section 55x of the Coastal Protection Act 1979 that temporary coastal protection works (within the meaning of the Act) have been placed on the land (or on public land adjacent to that land)?

Has the owner (or any previous owner) of the land been 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)?

Council Policy

Council has not adopted a policy to restrict the development of the land by reason of the likelihood of projected sea level rise (coastal protection), tidal inundation, subsidence or any other risk on land subject to the Parramatta Local Environmental Plan 2011.

Council has adopted a policy covering areas subject to the Parramatta Local Environmental Plan 2011 to restrict development of any land by reason of the likelihood of flooding.

Council has adopted by resolution a policy on contaminated land that applies to areas subject to the Parramatta Local Environmental Plan 2011. The Policy will restrict the development of the land if the circumstances set out in the policy prevail. A copy of the policy is available on Councils website at www.parracity.nsw.gov.au or from the Customer Service Centre.



Mine Subsidence

The land is not affected by Section 15 of the Mine Subsidence Compensation Act 1961 proclaiming land to be a Mine Subsidence District.

Bushfire Land

The land is not bushfire prone land.

Threatened Species

The Director General with responsibility for the Threatened Species Conservation Act 1995 has not advised Council that the land includes or comprises a critical habitat.

State Environmental Planning Policy (Exempt and Complying Development Codes) 2008

This does not constitute a Complying Development Certificate under section 85 of the EP&A Act

This information only addresses matters raised in **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.

It is your responsibility to ensure that you comply with the general requirements of the State Environmental Planning Policy (Exempt and Complying Codes) 2008. Failure to comply with these provisions may mean that a Complying Development Certificate issued under the provisions of State Environmental Planning Policy (Exempt and Complying Codes) 2008 is invalid.

General Housing Code

Complying Development pursuant to the General Housing Code **may not** be carried out on the land. The land is wholly affected by specific land exemptions under **Clause 1.17A or Clause 1.18 (1) (c3)** of State Environmental Planning Policy (Exempt and Complying Development Codes) 2008. The land exemptions are:

• the land comprises, or contains an item of environmental heritage (that is listed on the State Heritage Register or that is subject to an interim heritage order under the *Heritage Act 1977* or that is identified as an item of environmental heritage in an environmental planning instrument),

Rural Housing Code

Complying Development pursuant to the Rural Housing Code **may not** be carried out on the land. The land is wholly affected by specific land exemptions under **Clause 1.17A or Clause 1.18 (1) (c3)** of State Environmental Planning Policy (Exempt and Complying Development Codes) 2008. The land exemptions are:

 the land comprises, or contains an item of environmental heritage (that is listed on the State Heritage Register or that is subject to an interim heritage order under the *Heritage Act 1977* or that is identified as an item of environmental heritage in an environmental planning instrument),

Housing Alterations Code



Complying Development pursuant to the Housing Alterations Code **may not** be carried out on the land. The land is wholly affected by specific land exemptions under **Clause 1.17A or Clause 1.18 (1) (c3)** of State Environmental Planning Policy (Exempt and Complying Development Codes) 2008. The land exemptions are:

• the land comprises, or contains an item of environmental heritage (that is listed on the State Heritage Register or that is subject to an interim heritage order under the *Heritage Act 1977* or that is identified as an item of environmental heritage in an environmental planning instrument),

General Development Code

Complying Development pursuant to the General Development Code **may not** be carried out on the land. The land is wholly affected by specific land exemptions under **Clause 1.17A or Clause 1.18 (1) (c3)** of State Environmental Planning Policy (Exempt and Complying Development Codes) 2008. The land exemptions are:

• the land comprises, or contains an item of environmental heritage (that is listed on the State Heritage Register or that is subject to an interim heritage order under the *Heritage Act 1977* or that is identified as an item of environmental heritage in an environmental planning instrument),

Demolition Code

Complying Development pursuant to the Demolition Code **may not** be carried out on the land. The land is wholly affected by specific land exemptions under **Clause 1.17A or Clause 1.18 (1) (c3)** of State Environmental Planning Policy (Exempt and Complying Development Codes) 2008. The land exemptions are:

• the land comprises, or contains an item of environmental heritage (that is listed on the State Heritage Register or that is subject to an interim heritage order under the *Heritage Act 1977* or that is identified as an item of environmental heritage in an environmental planning instrument),

Commercial and Industrial (New Buildings and Additions) Code

Complying Development pursuant to Commercial and Industrial (New Buildings and Additions) Code **may not** be carried out on the land. The land is wholly affected by specific land exemptions under **Clause 1.17A or Clause 1.18 (1) (c3)** of State Environmental Planning Policy (Exempt and Complying Development Codes) 2008. The land exemptions are:

• the land comprises, or contains an item of environmental heritage (that is listed on the State Heritage Register or that is subject to an interim heritage order under the *Heritage Act 1977* or that is identified as an item of environmental heritage in an environmental planning instrument),

General Commercial and Industrial (Alterations) Code

Complying Development pursuant to the General Commercial and Industrial (Alterations) Code **may not** be carried out on the land. The land is wholly affected by specific land exemptions under **Clause 1.17A or Clause 1.18 (1) (c3)** of State Environmental Planning Policy (Exempt and Complying Development Codes) 2008. The land exemptions are:



• the land comprises, or contains an item of environmental heritage (that is listed on the State Heritage Register or that is subject to an interim heritage order under the *Heritage Act 1977* or that is identified as an item of environmental heritage in an environmental planning instrument),

Subdivision Code

Complying Development pursuant to the Subdivision Code **may not** be carried out on the land. The land is wholly affected by specific land exemptions under **Clause 1.17A or Clause 1.18 (1) (c3)** of State Environmental Planning Policy (Exempt and Complying Development Codes) 2008. The land exemptions are:

• the land comprises, or contains an item of environmental heritage (that is listed on the State Heritage Register or that is subject to an interim heritage order under the *Heritage Act 1977* or that is identified as an item of environmental heritage in an environmental planning instrument),

Fire Safety Code

Complying Development pursuant to the Fire Safety Code **may not** be carried out on the land. The land is wholly affected by specific land exemptions under **Clause 1.17A or Clause 1.18 (1) (c3)** of State Environmental Planning Policy (Exempt and Complying Development Codes) 2008. The land exemptions are:

• the land comprises, or contains an item of environmental heritage (that is listed on the State Heritage Register or that is subject to an interim heritage order under the *Heritage Act 1977* or that is identified as an item of environmental heritage in an environmental planning instrument),



SPECIAL NOTES

The land is identified as Class 4 on the Acid Sulfate Soils map. Refer to Clause 6.1 of Parramatta Local Environmental Plan 2011.

Applicants for Sections 149 Certificates are advised that Council does not hold sufficient information to fully detail the effect of any encumbrances on the title of the subject land. The information available to Council is provided on the basis that neither Council nor its servants hold out advice or warrant to you in any way its accuracy, nor shall Council or its servants, be liable for any negligence in the preparation of that information. Further information should be sought from relevant Statutory Departments.



SECTION C

The following additional information is issued under Section 149(5)

Pursuant to S149(5) the Council supplies information as set out below on the basis that the Council takes no responsibility for the accuracy of the information. The information if material should be independently checked by the applicant.

This land is identified on the Additional Local Provisions Map of the Parramatta Local Environmental Plan 2011. Part 7 Additional local provisions – Parramatta City Centre of the Parramatta Local Environmental Plan 2011 applies to the land.

This land is identified as a "Key site" on the Key Sites Map of the Parramatta Local Environmental Plan 2011.

Aboriginal Heritage – High Sensitivity – potential to contain items of Aboriginal heritage. Contact Council's Customer Service/Duty Planner (02) 9806 5050 for more information.

The land is considered by Council TO BE ABOVE the 1 in 100 year mainstream flood level.

This information is based on data available to the Council. It is provided on the basis that neither Council nor its servants hold out advice or warrant to you in any way its accuracy, nor shall the Council or its servants, be liable for any negligence in the preparation of that information.

Note: Advisory Information regarding Loose-Fill asbestos Insulation

Research undertaken by the Loose-Fill Asbestos Insulation Taskforce has determined that there is a potential for loose-fill asbestos insulation to be found in residential dwellings constructed prior to 1980 in 28 local government areas including the City of Parramatta.

Some residential homes located in the City of Parramatta may contain loose-fill asbestos insulation, for example in the roof space. NSW Fair Trading maintains a Register of homes that are affected by loose-fill asbestos insulation.

You should make your own enquiries as to the age of the buildings on the land to which this certificate relates and, if it contains a building constructed prior to 1980, the council strongly recommends that any potential purchaser obtain advice from a licensed asbestos assessor to determine whether loose fill asbestos is present in any building on the land and, if so, the health risks (if any) this may pose for the building's occupants.

Please Contact NSW Fair Trading for further information.

This information has been provided pursuant to section 149(5) of the Environmental Planning and Assessment Act, 1979 as amended.



ANNEXURE "B1"

Issued pursuant to Section 149 of the Environmental Planning and Assessment Act 1979. Note:The following information is supplied in respect of Section 149 and embodies the requirements of Department of Planning Circular No. A2 dated 17 March 1989 and the Ministerial Notification dated 15 December 1986.

STATE ENVIRONMENTAL PLANNING POLICY NO.1 - Development Standards

STATE ENVIRONMENTAL PLANNING POLICY NO.19 - Bushland in Urban Areas

STATE ENVIRONMENTAL PLANNING POLICY NO.21 - Caravan Parks

STATE ENVIRONMENTAL PLANNING POLICY NO.32 - Urban Consolidation (Redevelopment of Urban Land)

STATE ENVIRONMENTAL PLANNING POLICY NO.33 - Hazardous and Offensive Development

STATE ENVIRONMENTAL PLANNING POLICY NO.55 - Remediation of Land

STATE ENVIRONMENTAL PLANNING POLICY NO.64 - Advertising and Signage

STATE ENVIRONMENTAL PLANNING POLICY NO.65 – Design Quality of Residential Flat Development.

STATE ENVIRONMENTAL PLANNING POLICY NO.70 – Affordable Housing (Revised Schemes)

STATE ENVIRONMENTAL PLANNING POLICY – (Housing for Seniors or People with a Disability) 2004

STATE ENVIRONMENTAL PLANNING POLICY - (Building Sustainability Index: BASIX) 2004

STATE ENVIRONMENTAL PLANNING POLICY – (Major Development) 2005

STATE ENVIRONMENTAL PLANNING POLICY – (Mining, Petroleum Production and Extractive Industries) 2007

STATE ENVIRONMENTAL PLANNING POLICY - (Temporary Structures) 2007

STATE ENVIRONMENTAL PLANNING POLICY (Infrastructure) 2007

STATE ENVIRONMENTAL PLANNING POLICY (Exempt and Complying Development Codes) 2008

STATE ENVIRONMENTAL PLANNING POLICY (Affordable Rental Housing) 2009

SYDNEY REGIONAL ENVIRONMENTAL PLAN NO.9 (No.2) - Extractive Industries

SYDNEY REGIONAL ENVIRONMENTAL PLAN NO.24 - Homebush Bay Area

SYDNEY REGIONAL ENVIRONMENTAL PLAN – (Sydney Harbour Catchment) 2005

N.B. All enquiries as to the application of Draft, State and Regional Environmental Planning Policies should be directed to The Department of Planning and Infrastructure – 23-33 Bridge Street Sydney NSW 2000.



Greg Dyer Interim General Manager

per

Masta

dated 3 August 2016



PLANNING CERTIFICATE

CERTIFICATE UNDER SECTION 149

Environmental Planning and Assessment Act, 1979 as amended

Certificate No:	2016/3872

- **Fee:** \$133.00
- Issue Date: 4 August 2016
- **Receipt No:** 4706939
- Applicant Ref: PSM PARRAMATTA:49215

DESCRIPTION OF LAND

- Address: CBD Foreshore Reserve (Pk 439) 30B Phillip Street PARRAMATTA NSW 2150
- Lot Details: Lot 1 DP 730119 Lot 1 DP 500494 Lot 2 DP 633550 Lot 102 DP 1031459 Lot A DP 421172 Lot B DP 393866 Lot A DP 350651 Lot B DP 384927 Lot 2 DP 569139 Lot A DP 384927 Lot 1 DP 1106033

SECTION A

The following Environmental Planning Instrument to which this certificate relates applies to the land:

Parramatta Local Environmental Plan 2011

For the purpose of **Section 149(2)** it is advised that as the date of this certificate the abovementioned land is affected by the matters referred to as follows:





The land is zoned: B4 Mixed Use PLEP2011

Issued pursuant to Section 149 of the Environmental Planning and Assessment Act, 1979. <u>NOTE:</u> This table is an excerpt from Parramatta Local Environmental Plan 2011 and must be read in conjunction with and subject to the other provisions of that instrument, and in force at that date.

1 Objectives of zone

- To provide a mixture of compatible land uses.
- To integrate suitable business, office, residential, retail and other development in accessible locations so as to maximise public transport patronage and encourage walking and cycling.
- To encourage development that contributes to an active, vibrant and sustainable neighbourhood.
- To create opportunities to improve the public domain and pedestrian links.
- To support the higher order Zone B3 Commercial Core while providing for the daily commercial needs of the locality.
- To protect and enhance the unique qualities and character of special areas within the Parramatta City Centre.

2 Permitted without consent

Home occupations

3 Permitted with consent

Boarding houses; Building identification signs; Business identification signs; Child care centres; Commercial premises; Community facilities; Educational establishments; Entertainment facilities; Function centres; Hotel or motel accommodation; Information and education facilities; Light industries; Medical centres; Passenger transport facilities; Recreation facilities (indoor); Registered clubs; Respite day care centres; Restricted premises; 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 launching ramps; Boat sheds; Camping grounds; Caravan parks; Cemeteries; Charter and tourism boating facilities; Crematoria; Depots; Dual occupancies; Dwelling houses; Eco-tourist facilities; Electricity generating works; Exhibition homes; Exhibition villages; Extractive industries; Farm buildings; Forestry; Freight transport facilities; Heavy industrial storage establishments; Helipads; Highway service centres; Home industries; Home occupations (sex services); Industrial retail outlets; Industrial training facilities; Industries; Marinas; Mooring pens; Moorings; Mortuaries; Open cut mining; Port facilities; Recreation facilities (major); Research stations; Rural industries; Rural workers' dwellings; Secondary dwellings; Semi-detached dwellings; Sewerage systems; Sex services premises; Signage; Storage premises; Transport depots; Truck depots; Vehicle body repair workshops; Warehouse or distribution centres; Waste or resource management facilities; Water recreation structures; Water supply systems; Wharf or boating facilities; Wholesale supplies

The land is zoned: RE1 Public Recreation PLEP2011



Issued pursuant to Section 149 of the Environmental Planning and Assessment Act, 1979. <u>NOTE:</u> This table is an excerpt from Parramatta Local Environmental Plan 2011 and must be read in conjunction with and subject to the other provisions of that instrument, and in force at that date.

1 Objectives of zone

- To enable land to be used for public open space or recreational purposes.
- To provide a range of recreational settings and activities and compatible land uses.
- To protect and enhance the natural environment for recreational purposes.
- To conserve, enhance and promote the natural assets and cultural heritage significance of Parramatta Park.
- To create a riverfront recreational opportunity that enables a high quality relationship between the built and natural environment.

2 Permitted without consent

Environmental protection works; Flood mitigation works

3 Permitted with consent

Boat launching ramps; Boat sheds; Charter and tourism boating facilities; Community facilities; Environmental facilities; Information and education facilities; Jetties; Kiosks; Markets; Recreation areas, Recreation facilities (indoor); Recreation facilities (major); Recreation facilities (outdoor); Restaurants or cafes; Roads; Take away food and drink premises; Water recreation structures; Water recycling facilities

4 Prohibited

Any development not specified in item 2 or 3

SECTION B

State Policies and Regional Environmental Plans

The land is affected by State Environmental Planning Policies and Regional Environmental Plans as detailed in Annexure "B1".

Draft Local Environmental Plan

The land is not affected by a Draft Local Environmental Plan which has been placed on Public Exhibition and has not yet been published.

Development Control Plan

The land is affected by Parramatta Development Control Plan 2011.

The Minister for Planning has issued directions that provisions of an EPI do not apply to certain Part 4 development where a concept plan has been approved under Part 3A.

Development Contribution Plan

The Parramatta Civic Improvement Plan (Amendment No. 4) applies to this land.

Heritage Item/Heritage Conservation Area

An item of environmental heritage is not situated on the land.



The land is not located in a heritage conservation area.

Road Widening

The land is not affected by road widening or road realignment under:

- (a) Division 2 of Part 3 of the Roads Act 1993.
- (b) Any Environmental Planning Instrument.
- (c) Any Resolution of Council.

Land Reservation Acquisition

The land is not affected by Land Reservation Acquisition in Parramatta Local Environmental Plan 2011.

Site Compatibility Certificate (Seniors Housing, Infrastructure and Affordable Rental Housing) At the date of issue of this certificate Council is not aware of any

- a. Site compatibility certificate (affordable rental housing),
- b. Site compatibility certificate (infrastructure),
- c. Site compatibility certificate (seniors housing)

in respect to the land issued pursuant to the Environmental Planning & Assessment Amendment (Site Compatibility Certificates) Regulation 2009 (NSW).

Contamination

The land is not affected by any of the matters contained in Clause 59(2) as amended in the Contaminated Land Management Act 1997 – as listed

- a. that the land to which the certificate relates is significantly contaminated land
- b. that the land to which the certificate relates is subject to a management order
- c. that the land to which the certificate relates is the subject of an approved voluntary management proposal
- d. that the land to which the certificate relates is subject to an ongoing maintenance order
- e. that the land to which the certificate relates is the subject of a site audit statement

Tree Preservation

The land is subject to Section 5.4 Preservation of Trees or Vegetation in Parramatta Development Control Plan 2011.

Council has not been notified of an order under the Trees (Disputes Between Neighbours) Act 2006 to carry out work in relation to a tree on the land.

Coastal Protection

The land is not affected by Section 38 or 39 of the Coastal Protection Act 1979.

Has an order been made under Part 4D of the Coastal Protection Act 1979 in relation to temporary coastal protection works (within the meaning of the Act) on the land (or on public land adjacent to that land)?

NO



Has Council been notified under section 55x of the Coastal Protection Act 1979 that temporary coastal protection works (within the meaning of the Act) have been placed on the land (or on public land adjacent to that land)?

Has the owner (or any previous owner) of the land been 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)?

Council Policy

Council has not adopted a policy to restrict the development of the land by reason of the likelihood of projected sea level rise (coastal protection), tidal inundation, subsidence or any other risk on land subject to the Parramatta Local Environmental Plan 2011.

Council has adopted a policy covering areas subject to the Parramatta Local Environmental Plan 2011 to restrict development of any land by reason of the likelihood of flooding.

Council has adopted by resolution a policy on contaminated land that applies to areas subject to the Parramatta Local Environmental Plan 2011. The Policy will restrict the development of the land if the circumstances set out in the policy prevail. A copy of the policy is available on Councils website at www.parracity.nsw.gov.au or from the Customer Service Centre.

Mine Subsidence

The land is not affected by Section 15 of the Mine Subsidence Compensation Act 1961 proclaiming land to be a Mine Subsidence District.

Bushfire Land

The land is not bushfire prone land.

Threatened Species

The Director General with responsibility for the Threatened Species Conservation Act 1995 has not advised Council that the land includes or comprises a critical habitat.

State Environmental Planning Policy (Exempt and Complying Development Codes) 2008

This does not constitute a Complying Development Certificate under section 85 of the EP&A Act

This information only addresses matters raised in **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 odes) 2008.



It is your responsibility to ensure that you comply with the general requirements of the State Environmental Planning Policy (Exempt and Complying Codes) 2008. Failure to comply with these provisions may mean that a Complying Development Certificate issued under the provisions of State Environmental Planning Policy (Exempt and Complying Codes) 2008 is invalid.

General Housing Code

Complying Development pursuant to the General Housing Code **may** be carried out on the land under **Clause 1.17A (1) (c) to (e), (2), (3) and (4) and Clause 1.18 (1)(c3)** of State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.

Complying Development pursuant to the General Housing Code **may** be carried out on the land under **Clause 1.19** of State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.

Rural Housing Code

Complying Development pursuant to the Rural Housing Code **may** be carried out on the land under **Clause 1.17A (1) (c) to (e), (2), (3) and (4) and Clause 1.18 (1)(c3)** of State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.

Complying Development pursuant to the Rural Housing Code **may** be carried out on the land under **Clause 1.19** of State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.

Housing Alterations Code

Complying Development pursuant to the Housing Alterations Code **may** be carried out on the land under **Clause 1.17A (1) (c) to (e), (2), (3) and (4) and Clause 1.18 (1)(c3)** of State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.

Complying Development pursuant to the Housing Alterations Code **may** be carried out on the land under **Clause 1.19** of State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.

General Development Code

Complying Development pursuant to the General Development Code **may** be carried out on the land under **Clause 1.17A (1) (c) to (e), (2), (3) and (4) and Clause 1.18 (1) (c3)** of State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.

Complying Development pursuant to the General Development Code **may** be carried out on the land under **Clause 1.19** of State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.



Demolition Code

Complying Development pursuant to the Demolition Code **may** be carried out on the land under **Clause 1.17A (1) (c) to (e), (2), (3) and (4) and Clause 1.18 (1)(c3)** of State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.

Complying Development pursuant to the Demolition Code **may** be carried out on the land under **Clause 1.19** of State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.

Commercial and Industrial (New Buildings and Additions) Code

Complying Development pursuant to the Commercial and Industrial (New Buildings and Additions) Code **may** be carried out on the land under **Clause 1.17A (1) (c) to (e), (2), (3) and (4) and Clause 1.18 (1)(c3)** of State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.

Complying Development pursuant to the Commercial and Industrial (New Buildings and Additions) Code **may** be carried out on the land under **Clause 1.19** of State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.

General Commercial and Industrial (Alterations) Code

Complying Development pursuant to the General Commercial and Industrial (Alterations) Code **may** be carried out on the land under **Clause 1.17A (1) (c) to (e)**, **(2), (3) and (4) and Clause 1.18 (1)(c3)** of State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.

Complying Development pursuant to the General Commercial and Industrial (Alterations) Code **may** be carried out on the land under **Clause 1.19** of State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.

Subdivision Code

Complying Development pursuant to the Subdivision Code **may** be carried out on the land under **Clause 1.17A (1) (c) to (e), (2), (3) and (4) and Clause 1.18 (1)(c3)** of State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.

Complying Development pursuant to the Subdivision Code **may** be carried out on the land under **Clause 1.19** of State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.

Fire Safety Code

Complying Development pursuant to the Fire Safety Code **may** be carried out on the land under **Clause 1.17A (1) (c) to (e), (2), (3) and (4) and Clause 1.18 (1)(c3)** of State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.

Complying Development pursuant to the Fire Safety Code **may** be carried out on the land under **Clause 1.19** of State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.



SPECIAL NOTES

The land is identified as Class 4 on the Acid Sulfate Soils map. Refer to Clause 6.1 of Parramatta Local Environmental Plan 2011.

Applicants for Sections 149 Certificates are advised that Council does not hold sufficient information to fully detail the effect of any encumbrances on the title of the subject land. The information available to Council is provided on the basis that neither Council nor its servants hold out advice or warrant to you in any way its accuracy, nor shall Council or its servants, be liable for any negligence in the preparation of that information. Further information should be sought from relevant Statutory Departments.



SECTION C

The following additional information is issued under Section 149(5)

Pursuant to S149(5) the Council supplies information as set out below on the basis that the Council takes no responsibility for the accuracy of the information. The information if material should be independently checked by the applicant.

This land is identified on the Additional Local Provisions Map of the Parramatta Local Environmental Plan 2011. Part 7 Additional local provisions – Parramatta City Centre of the Parramatta Local Environmental Plan 2011 applies to the land.

This land is identified as a "Key site" on the Key Sites Map of the Parramatta Local Environmental Plan 2011.

Aboriginal Heritage – High Sensitivity – potential to contain items of Aboriginal heritage. Contact Council's Customer Service/Duty Planner (02) 9806 5050 for more information.

The land is affected by a 100 year Average Recurrence Interval flood as indicated by Council's current flooding information. As such Council is required to take that into account when determining any development application made in respect of the land.

Further information is available at the Catchment Management Section within Council's City Assets and Environment Unit.

Additional advice should be also sought from an appropriately qualified person as to the extents and potential hazards associated with the likely flooding of the land. The names of qualified persons maybe obtained from the Institution of Engineers Australia.

Note: Advisory Information regarding Loose-Fill asbestos Insulation Research undertaken by the Loose-Fill Asbestos Insulation Taskforce has determined that there is a potential for loose-fill asbestos insulation to be found in residential dwellings constructed prior to 1980 in 28 local government areas including the City of Parramatta.

Some residential homes located in the City of Parramatta may contain loose-fill asbestos insulation, for example in the roof space. NSW Fair Trading maintains a Register of homes that are affected by loose-fill asbestos insulation.

You should make your own enquiries as to the age of the buildings on the land to which this certificate relates and, if it contains a building constructed prior to 1980, the council strongly recommends that any potential purchaser obtain advice from a licensed asbestos assessor to determine whether loose fill asbestos is present in any building on the land and, if so, the health risks (if any) this may pose for the building's occupants.

Please Contact NSW Fair Trading for further information.

This information has been provided pursuant to section 149(5) of the Environmental Planning and Assessment Act, 1979 as amended.



ANNEXURE "B1"

Issued pursuant to Section 149 of the Environmental Planning and Assessment Act 1979. Note:The following information is supplied in respect of Section 149 and embodies the requirements of Department of Planning Circular No. A2 dated 17 March 1989 and the Ministerial Notification dated 15 December 1986.

STATE ENVIRONMENTAL PLANNING POLICY NO.1 - Development Standards

STATE ENVIRONMENTAL PLANNING POLICY NO.19 - Bushland in Urban Areas

STATE ENVIRONMENTAL PLANNING POLICY NO.21 - Caravan Parks

STATE ENVIRONMENTAL PLANNING POLICY NO.32 - Urban Consolidation (Redevelopment of Urban Land)

STATE ENVIRONMENTAL PLANNING POLICY NO.33 - Hazardous and Offensive Development

STATE ENVIRONMENTAL PLANNING POLICY NO.55 - Remediation of Land

STATE ENVIRONMENTAL PLANNING POLICY NO.64 - Advertising and Signage

STATE ENVIRONMENTAL PLANNING POLICY NO.65 – Design Quality of Residential Flat Development.

STATE ENVIRONMENTAL PLANNING POLICY NO.70 – Affordable Housing (Revised Schemes)

STATE ENVIRONMENTAL PLANNING POLICY – (Housing for Seniors or People with a Disability) 2004

STATE ENVIRONMENTAL PLANNING POLICY - (Building Sustainability Index: BASIX) 2004

STATE ENVIRONMENTAL PLANNING POLICY - (Major Development) 2005

STATE ENVIRONMENTAL PLANNING POLICY – (Mining, Petroleum Production and Extractive Industries) 2007

STATE ENVIRONMENTAL PLANNING POLICY - (Temporary Structures) 2007

STATE ENVIRONMENTAL PLANNING POLICY (Infrastructure) 2007

STATE ENVIRONMENTAL PLANNING POLICY (Exempt and Complying Development Codes) 2008

STATE ENVIRONMENTAL PLANNING POLICY (Affordable Rental Housing) 2009

SYDNEY REGIONAL ENVIRONMENTAL PLAN NO.9 (No.2) - Extractive Industries

SYDNEY REGIONAL ENVIRONMENTAL PLAN NO.24 - Homebush Bay Area

SYDNEY REGIONAL ENVIRONMENTAL PLAN – (Sydney Harbour Catchment) 2005

N.B. All enquiries as to the application of Draft, State and Regional Environmental Planning Policies should be directed to The Department of Planning and Infrastructure – 23-33 Bridge Street Sydney NSW 2000.



Greg Dyer Interim General Manager

per

Masta

dated 4 August 2016



PLANNING CERTIFICATE

CERTIFICATE UNDER SECTION 149

Environmental Planning and Assessment Act, 1979 as amended

Fee: \$133.00

- Issue Date: 4 August 2016
- **Receipt No:** 4706939
- Applicant Ref: PSM PARRAMATTA:49215

DESCRIPTION OF LAND

Address: Willow Grove 34 Phillip Street PARRAMATTA NSW 2150

Lot Details: Lot 1 DP 569139

SECTION A

The following Environmental Planning Instrument to which this certificate relates applies to the land:

Parramatta Local Environmental Plan 2011

For the purpose of **Section 149(2)** it is advised that as the date of this certificate the abovementioned land is affected by the matters referred to as follows:





The land is zoned: B4 Mixed Use PLEP2011

Issued pursuant to Section 149 of the Environmental Planning and Assessment Act, 1979. <u>NOTE:</u> This table is an excerpt from Parramatta Local Environmental Plan 2011 and must be read in conjunction with and subject to the other provisions of that instrument, and in force at that date.

1 Objectives of zone

- To provide a mixture of compatible land uses.
- To integrate suitable business, office, residential, retail and other development in accessible locations so as to maximise public transport patronage and encourage walking and cycling.
- To encourage development that contributes to an active, vibrant and sustainable neighbourhood.
- To create opportunities to improve the public domain and pedestrian links.
- To support the higher order Zone B3 Commercial Core while providing for the daily commercial needs of the locality.
- To protect and enhance the unique qualities and character of special areas within the Parramatta City Centre.

2 Permitted without consent

Home occupations

3 Permitted with consent

Boarding houses; Building identification signs; Business identification signs; Child Commercial premises; Community care centres: facilities: Educational establishments; Entertainment facilities; Function centres; Hotel or motel accommodation; Information and education facilities; Light industries; Medical centres; Passenger transport facilities; Recreation facilities (indoor); Registered clubs: Respite day care centres; Restricted premises; 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 launching ramps; Boat sheds; Camping grounds; Caravan parks; Cemeteries; Charter and tourism boating facilities; Crematoria; Depots; Dual occupancies; Dwelling houses; Eco-tourist facilities; Electricity generating works; Exhibition homes; Exhibition villages; Extractive industries; Farm buildings; Forestry; Freight transport facilities; Heavy industrial storage establishments; Helipads; Highway service centres; Home industries; Home occupations (sex services); Industrial retail outlets; Industrial training facilities; Industries; Marinas; Mooring pens; Moorings; Mortuaries; Open cut mining; Port facilities; Recreation facilities (major); Research stations; Rural industries; Rural workers' dwellings; Secondary dwellings; Semi-detached dwellings; Sewerage systems; Sex services premises; Signage; Storage premises; Transport depots; Truck depots; Vehicle body repair workshops; Warehouse or distribution centres; Waste or resource management facilities; Water recreation structures; Water supply systems; Wharf or boating facilities; Wholesale supplies



SECTION B

State Policies and Regional Environmental Plans

The land is affected by State Environmental Planning Policies and Regional Environmental Plans as detailed in Annexure "B1".

Draft Local Environmental Plan

The land is not affected by a Draft Local Environmental Plan which has been placed on Public Exhibition and has not yet been published.

Development Control Plan

The land is affected by Parramatta Development Control Plan 2011.

The Minister for Planning has issued directions that provisions of an EPI do not apply to certain Part 4 development where a concept plan has been approved under Part 3A.

Development Contribution Plan

The Parramatta Civic Improvement Plan (Amendment No. 4) applies to this land.

Heritage Item/Heritage Conservation Area

The land is identified as containing a Heritage Item in Parramatta Local Environmental Plan 2011

The land is not located in a heritage conservation area.

Road Widening

The land is not affected by road widening or road realignment under:

- (a) Division 2 of Part 3 of the Roads Act 1993.
- (b) Any Environmental Planning Instrument.
- (c) Any Resolution of Council.

Land Reservation Acquisition

The land is not affected by Land Reservation Acquisition in Parramatta Local Environmental Plan 2011.

Site Compatibility Certificate (Seniors Housing, Infrastructure and Affordable Rental Housing) At the date of issue of this certificate Council is not aware of any

- a. Site compatibility certificate (affordable rental housing),
- b. Site compatibility certificate (infrastructure),
- c. Site compatibility certificate (seniors housing)

in respect to the land issued pursuant to the Environmental Planning & Assessment Amendment (Site Compatibility Certificates) Regulation 2009 (NSW).

Contamination

The land is not affected by any of the matters contained in Clause 59(2) as amended in the Contaminated Land Management Act 1997 – as listed

- a. that the land to which the certificate relates is significantly contaminated land
- b. that the land to which the certificate relates is subject to a management order



- c. that the land to which the certificate relates is the subject of an approved voluntary management proposal
- d. that the land to which the certificate relates is subject to an ongoing maintenance order
- e. that the land to which the certificate relates is the subject of a site audit statement

Tree Preservation

The land is subject to Section 5.4 Preservation of Trees or Vegetation in Parramatta Development Control Plan 2011.

Council has not been notified of an order under the Trees (Disputes Between Neighbours) Act 2006 to carry out work in relation to a tree on the land.

Coastal Protection

The land is not affected by Section 38 or 39 of the Coastal Protection Act 1979.

Has an order been made under Part 4D of the Coastal Protection Act 1979 in relation to temporary coastal protection works (within the meaning of the Act) on the land (or on public land adjacent to that land)?

NO

Has Council been notified under section 55x of the Coastal Protection Act 1979 that temporary coastal protection works (within the meaning of the Act) have been placed on the land (or on public land adjacent to that land)?

Has the owner (or any previous owner) of the land been 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)?

Council Policy

Council has not adopted a policy to restrict the development of the land by reason of the likelihood of projected sea level rise (coastal protection), tidal inundation, subsidence or any other risk on land subject to the Parramatta Local Environmental Plan 2011.

Council has adopted a policy covering areas subject to the Parramatta Local Environmental Plan 2011 to restrict development of any land by reason of the likelihood of flooding.

Council has adopted by resolution a policy on contaminated land that applies to areas subject to the Parramatta Local Environmental Plan 2011. The Policy will restrict the development of the land if the circumstances set out in the policy prevail. A copy of the policy is available on Councils website at www.parracity.nsw.gov.au or from the Customer Service Centre.



Mine Subsidence

The land is not affected by Section 15 of the Mine Subsidence Compensation Act 1961 proclaiming land to be a Mine Subsidence District.

Bushfire Land

The land is not bushfire prone land.

Threatened Species

The Director General with responsibility for the Threatened Species Conservation Act 1995 has not advised Council that the land includes or comprises a critical habitat.

State Environmental Planning Policy (Exempt and Complying Development Codes) 2008

This does not constitute a Complying Development Certificate under section 85 of the EP&A Act

This information only addresses matters raised in **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.

It is your responsibility to ensure that you comply with the general requirements of the State Environmental Planning Policy (Exempt and Complying Codes) 2008. Failure to comply with these provisions may mean that a Complying Development Certificate issued under the provisions of State Environmental Planning Policy (Exempt and Complying Codes) 2008 is invalid.

General Housing Code

Complying Development pursuant to the General Housing Code **may not** be carried out on the land. The land is wholly affected by specific land exemptions under **Clause 1.17A or Clause 1.18 (1) (c3)** of State Environmental Planning Policy (Exempt and Complying Development Codes) 2008. The land exemptions are:

• the land comprises, or contains an item of environmental heritage (that is listed on the State Heritage Register or that is subject to an interim heritage order under the *Heritage Act 1977* or that is identified as an item of environmental heritage in an environmental planning instrument),

Rural Housing Code

Complying Development pursuant to the Rural Housing Code **may not** be carried out on the land. The land is wholly affected by specific land exemptions under **Clause 1.17A or Clause 1.18 (1) (c3)** of State Environmental Planning Policy (Exempt and Complying Development Codes) 2008. The land exemptions are:

• the land comprises, or contains an item of environmental heritage (that is listed on the State Heritage Register or that is subject to an interim heritage order under the *Heritage Act 1977* or that is identified as an item of environmental heritage in an environmental planning instrument),



Housing Alterations Code

Complying Development pursuant to the Housing Alterations Code **may not** be carried out on the land. The land is wholly affected by specific land exemptions under **Clause 1.17A or Clause 1.18 (1) (c3)** of State Environmental Planning Policy (Exempt and Complying Development Codes) 2008. The land exemptions are:

• the land comprises, or contains an item of environmental heritage (that is listed on the State Heritage Register or that is subject to an interim heritage order under the *Heritage Act 1977* or that is identified as an item of environmental heritage in an environmental planning instrument),

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Demolition Code

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Subdivision Code

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SPECIAL NOTES

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SECTION C

The following additional information is issued under Section 149(5)

Pursuant to S149(5) the Council supplies information as set out below on the basis that the Council takes no responsibility for the accuracy of the information. The information if material should be independently checked by the applicant.

This land is identified on the Additional Local Provisions Map of the Parramatta Local Environmental Plan 2011. Part 7 Additional local provisions – Parramatta City Centre of the Parramatta Local Environmental Plan 2011 applies to the land.

This land is identified as a "Key site" on the Key Sites Map of the Parramatta Local Environmental Plan 2011.

Aboriginal Heritage – High Sensitivity – potential to contain items of Aboriginal heritage. Contact Council's Customer Service/Duty Planner (02) 9806 5050 for more information.

The land is affected by a 100 year Average Recurrence Interval flood as indicated by Council's current flooding information. As such Council is required to take that into account when determining any development application made in respect of the land.

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Some residential homes located in the City of Parramatta may contain loose-fill asbestos insulation, for example in the roof space. NSW Fair Trading maintains a Register of homes that are affected by loose-fill asbestos insulation.

You should make your own enquiries as to the age of the buildings on the land to which this certificate relates and, if it contains a building constructed prior to 1980, the council strongly recommends that any potential purchaser obtain advice from a licensed asbestos assessor to determine whether loose fill asbestos is present in any building on the land and, if so, the health risks (if any) this may pose for the building's occupants.

Please Contact NSW Fair Trading for further information.

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ANNEXURE "B1"

Issued pursuant to Section 149 of the Environmental Planning and Assessment Act 1979. Note:The following information is supplied in respect of Section 149 and embodies the requirements of Department of Planning Circular No. A2 dated 17 March 1989 and the Ministerial Notification dated 15 December 1986.

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SYDNEY REGIONAL ENVIRONMENTAL PLAN – (Sydney Harbour Catchment) 2005

N.B. All enquiries as to the application of Draft, State and Regional Environmental Planning Policies should be directed to The Department of Planning and Infrastructure – 23-33 Bridge Street Sydney NSW 2000.



Greg Dyer Interim General Manager

per

Masta

dated 4 August 2016



Appendix G EPA Records

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
	Former Exide Battery			Contamination currently		
PADSTOW	Manufacturing & Recycling	55 Bryant STREET	Other Industry	regulated under CLM Act	-33.94265241	151.0378986
				Contamination currently		
PADSTOW	Galvatech	49 Gow STREET	Metal Industry	regulated under POEO Act	-33.93808679	151.0346862
				Regulation under CLM Act not		
PADSTOW	Foseco Australia	7 Stuart STREET	Chemical Industry	required	-33.94342957	151.0377316
				Regulation under CLM Act not		
PADSTOW	Sebel Furniture	Parts 64 and 92 Gow STREET	Other Industry	required	-33.93606752	151.0322057
		Corner of Page Street and		Contamination currently		
PAGEWOOD	Former Email Site	Holloway STREET	Metal Industry	regulated under CLM Act	-33.94302462	151.2132036
	Offsite area (roadways) adjacent					
PAMBULA	to United Service Station Pambula (former Shell)	Corner Quondola Street and Bullara STREET	Service Station	Regulation under CLM Act not required	-36.93104481	149.8746763
-						
PARKES	Caltex Service Station Parkes	352-360 Clarinda STREET	Service Station	Regulation under CLM Act not required	-33.13317454	148.173643
PARKES	Former Caltex Parkes	552-500 Clarinua STREET		required	-55.15517454	146.173043
	(Mugincoble) Depot - Eugowra			Regulation under CLM Act not		
PARKES	Rd, Mugincoble	Eugowra ROAD	Service Station	required	-33.19007031	148.224822
				Regulation under CLM Act not		
PARKES	BP Truckstop	(Newell Highway) 1 Forbes ROAD	Other Petroleum	required	-33.14309226	148.1710282
	Former BP Telescope Service			Regulation under CLM Act not		
PARKES	Station	339-341 Clarinda STREET	Service Station	required	-33.13216152	148.1743239
	BP Reliance East End Service			Regulation under CLM Act not		
PARKES	Station Parkes	46 Clarinda STREET	Service Station	required	-33.14243539	148.1846227
	Former Parkes Gas Works					
PARKES	(including Rail Corridor and offsite land)	1A East STREET	Gasworks	Regulation being finalised	-33.143041	148.182984
					001210011	1101202001
	Calkey Darklas Comics Chatlan	Old Windsor (north of Miami	Convine Chatien	Regulation under CLM Act not	22 72 427 400	150 0200524
PARKLEA	Caltex Parklea Service Station	Street) ROAD	Service Station	required	-33.72427108	150.9388531
				Regulation under CLM Act not		
PARRAMATTA	BP Service Station	435 Church STREET	Service Station	required	-33.80498714	151.0056151
		Cnr of Pitt STREET and Maquarie		Regulation under CLM Act not		
PARRAMATTA	Coleman Oval Embankment	STREET	Unclassified	required	-33.80441625	150.9954841

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
	7-Eleven (former Mobil) Service			Regulation under CLM Act not		
PARRAMATTA	Station	81 Victoria ROAD	Service Station	required	-33.80919769	151.0142894
PARRAMATTA	Parramatta Park Toilet Block Demolition	The Cresent Toilet Block Parramatta PARK	Unclassified	Regulation under CLM Act not required	-33.81054034	150.9961968
PAUPONG	Former Timber Treatment Plant	Off Paupong ROAD	Other Industry	Regulation under CLM Act not required	-36.57657408	148.6624998
				Regulation under CLM Act not	22 0047014	450.0577004
PENDLE HILL	7-Eleven Service Station	217 Wentworth AVENUE	Service Station	required	-33.8017814	150.9577994
PENNANT HILLS	Shell Coles Express Pennant Hills West	386 Pennant Hills ROAD	Service Station	Contamination currently regulated under CLM Act	-33.73928611	151.0679704
				Regulation under CLM Act not		
PENRITH	Mirvac Industrial Site	2101 Castlereagh ROAD	Other Industry	required	-33.73497514	150.6954097
PENRITH	7-Eleven (former Mobil) Service Station	212-222 Andrews ROAD	Service Station	Regulation under CLM Act not required	-33.73059678	150.6952571
	Lowes Petroleum (Former Mobil)			Regulation under CLM Act not		
PENRITH	Depot Penrith	174 Coreen AVENUE	Other Petroleum	required	-33.74484268	150.6980504
PENRITH	Caltex Service Station	Castlereagh Rd Cnr Lugard STREET	Sonvice Station	Regulation under CLM Act not required	-33.73426843	150.6933382
				lequileu	-55.75420645	150.0955582
PENRITH	BP Express Service Station	Corner Coreen Avenue and Castlereagh ROAD	Service Station	Regulation under CLM Act not required	-33.74385498	150.6925743
				Ongoing maintenance required to manage residual contamination		
PENRITH	Crane Enfield Metals	Castlereagh ROAD	Metal Industry	(CLM Act)	-33.73734959	150.696442
PENRITH	7-Eleven Service Station Penrith	30 Henry STREET	Service Station	Regulation under CLM Act not required	-33.75408799	150.7045594
				Regulation under CLM Act not		
PENRITH	Caltex Penrith Service Station	153 Coreen AVENUE	Service Station	required	-33.74287244	150.6927071
PENRITH	Jet 60 Dry Cleaners	Shop 3 134-138 Henry STREET	Unclassified	Regulation under CLM Act not required	-33.75231953	150.6964541
DENDITU				Regulation under CLM Act not		450
PENRITH	St Mary's Shopping Village	Charles Hackett DRIVE	Other Industry	required	-33.766814	150.770363

Home Contaminated land Record of notices

Search results

Your search for:Suburb: PARRAMATTA

did not find any records in our database.

If a site does not appear on the record it may still be affected by contamination. For example:

- Contamination may be present but the site has not been regulated by the EPA under the Contaminated Land Management Act 1997 or the Environmentally Hazardous Chemicals Act 1985.
- The EPA may be regulating contamination at the site through a licence re or notice under the Protection of the Environment Operations Act 1997 (POEO Act).
- Contamination at the site may be being managed under the <u>planning</u> process.

More information about particular sites may be available from:

- The POEO public register
- The appropriate planning authority: for example, on a planning certificate issued by the local council under section 149 of the Environmental Planning and Assessment Act.

See <u>What's in the record and What's not in the record</u>.

If you want to know whether a specific site has been the subject of notices issued by the EPA under the CLM Act, we suggest that you search by Local Government Area only and carefully review the sites that are listed.

This public record provides information about sites regulated by the EPA under the Contaminated Land Management Act 1997, including sites currently and previously regulated under the Environmentally Hazardous Chemicals Act 1985. Your inquiry using the above search criteria has not matched any record of current or former regulation. You should consider searching again using different criteria. The fact that a site does not appear on the record does not necessarily mean that it is not affected by contamination. The site may have been notified to the EPA but not yet assessed, or contamination may be present but the site is not yet being regulated by the EPA. Further information about particular sites may be available from the appropriate planning authority, for example, on a planning certificate issued by the local council under section 149 of the Environmental Planning and Assessment Act. In addition the EPA may be regulating contamination at the site through a licence under the Protection of the Environment Operations Act 1997. You may wish to search the POEO public register.

27 March 2020

For local government □

For business

and industry

Contact us

Find us on

□ 131 555 (tel:131555)

- info@epa.nsw.gov.au (mailto:info@epa.nsw.gov.au)
- □ EPA Office Locations (https://www.epa.nsw.gov.au/about-us/contact-us/locations)

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Refine Search
Search TIP

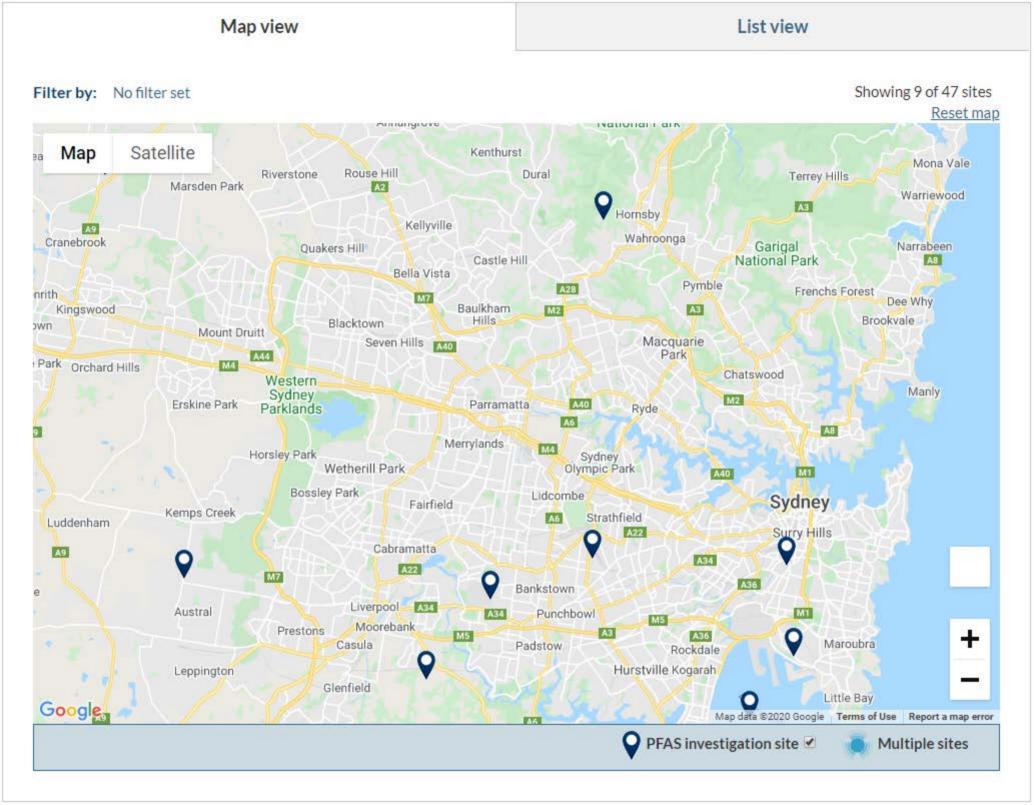
Search Again

To search for a specific site, search by LGA (local government area) and carefully review all sites listed.

https://apps.epa.nsw.gov.au/prcImapp/searchresults.aspx?&LGA=&Suburb=PARRAMATTA&Notice=&Name=&Text=&DateFrom=&DateTo=

M4 - East of Reservoir Road to East of Mamre Road, PARAMATTA, NSW 2150 s.80 Surrender of a Licence Issued 6848 AUSTRALIAN RED CROSS SOCIETY 4 GEORGE ST, PARRAMATTA, NSW 2150 POEO licence No longer in for 20567 CPB CONTRACTORS PTY LIMITED PARRAMATTA, NSW 2150 POEO licence Surrendered 1537285 CPB CONTRACTORS PTY LIMITED PARRAMATTA, NSW 2150 POEO licence Surrendered 1537285 CPB CONTRACTORS PTY LIMITED PARRAMATTA, NSW 2150 s.58 Licence Variation Issued 1539035 CPB CONTRACTORS PTY LIMITED PARRAMATTA, NSW 2150 s.58 Licence Variation Issued 1539035 CPB CONTRACTORS PTY LIMITED PARRAMATTA, NSW 2150 s.58 Licence Variation Issued 1540541 CPB CONTRACTORS PTY LIMITED PARRAMATTA, NSW 2150 s.58 Licence Variation Issued 1542494 CPB CONTRACTORS PTY LIMITED PARRAMATTA, NSW 2150 s.58 Licence Variation Issued 1542494 CPB CONTRACTORS PTY LIMITED PARRAMATTA, NSW 2150 s.58 Licence Variation Issued 1543214 CPB CONTRACTORS PTY LIMITED PARRAMATTA, NSW 2150 s.58 Licence Variation Issued 1543233 CPB CONTRACTORS PTY LIMITED PARRAMATTA, NSW 2150 s.58 Licence Variation Issued 1543234 CPB CONTRACT	20-Apr-15 4-Feb-16 24-Mar-16 20-May-16 20-Jul-16 3-Aug-16 18-Aug-16
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1565103 CPB CONTRACTORS PTY LIMITED Homebush Bay Drive, Homebush , PARRAMATTA, NSW 2150 s.80 Surrender of a Licence Issued 21347 CPB CONTRACTORS PTY LIMITED PACKAGE 4, PARRAMATTA, NSW 2123 POEO licence Issued 11627 ENDEAVOUR ENERGY 3-9 BRABYN STREET, PARRAMATTA, NSW 2150 POEO licence Surrendered 1042293 ENDEAVOUR ENERGY 3-9 BRABYN STREET, PARRAMATTA, NSW 2150 s.58 Licence Variation Issued	21 Mar. 40
1565103 CPB CONTRACTORS PTY LIMITED PARRAMATTA, NSW 2150 s.80 Surrender of a Licence Issued 21347 CPB CONTRACTORS PTY LIMITED PACKAGE 4, PARRAMATTA, NSW 2123 POEO licence Issued 11627 ENDEAVOUR ENERGY 3-9 BRABYN STREET, PARRAMATTA, NSW POEO licence Surrendered 1042293 ENDEAVOUR ENERGY 2150 s.58 Licence Variation Issued	21 . 4 40
21347 CPB CONTRACTORS PTY LIMITED PACKAGE 4, PARRAMATTA, NSW 2123 POEO licence Issued 3-9 3-9 BRABYN STREET, PARRAMATTA, NSW POEO licence Surrendered 11627 ENDEAVOUR ENERGY 2150 POEO licence Surrendered 3-9 BRABYN STREET, PARRAMATTA, NSW 2150 Surrendered Surrendered 1042293 ENDEAVOUR ENERGY 2150 s.58 Licence Variation Issued	
3-9 BRABYN STREET, PARRAMATTA, NSW POEO licence Surrendered 11627 ENDEAVOUR ENERGY 3-9 BRABYN STREET, PARRAMATTA, NSW POEO licence Surrendered 3-9 BRABYN STREET, PARRAMATTA, NSW 2150 s.58 Licence Variation Issued	31-May-18
11627 ENDEAVOUR ENERGY 2150 POEO licence Surrendered 1042293 ENDEAVOUR ENERGY 3-9 BRABYN STREET, PARRAMATTA, NSW s.58 Licence Variation Issued	3-Jan-20
3-9 BRABYN STREET, PARRAMATTA, NSW 3-9 BRABYN STREET, PARRAMATTA, NSW Issued 1042293 ENDEAVOUR ENERGY 2150 s.58 Licence Variation Issued	18-Feb-02
1042293 ENDEAVOUR ENERGY 2150 s.58 Licence Variation Issued	10-FED-02
	26-Nov-04
	201101 01
1071277 ENDEAVOUR ENERGY 2150 s.80 Surrender of a Licence Issued	28-Mar-07
331A-339 Church Street, PARRAMATTA,	
1563521 EQ CONSTRUCTIONS PTY LTD NSW 2123 s.91 Clean Up Notice Issued	11-Apr-18
331A-339 Church Street, PARRAMATTA,	
1564235 EQ CONSTRUCTIONS PTY LTD NSW 2123 s.110 Variation of Clean Up Notice Issued	2-May-18
M4 - East of Reservoir Road to East of	
20961 FULTON HOGAN CONSTRUCTION PTY LTD Mamre Road, PARRAMATTA, NSW 2150 POEO licence Surrendered	30-Jun-17
M4 - East of Reservoir Road to East of	27 Nov 17
1559113 FULTON HOGAN CONSTRUCTION PTY LTD Mamre Road, PARRAMATTA, NSW 2150 s.58 Licence Variation Issued M4 - East of Reservoir Road to East of	27-Nov-17
1559611 FULTON HOGAN CONSTRUCTION PTY LTD Mamre Road, PARRAMATTA, NSW 2150 s.58 Licence Variation Issued	11-Dec-17
M4 - East of Reservoir Road to East of	11 Dec 17
1560703 FULTON HOGAN CONSTRUCTION PTY LTD Mamre Road, PARRAMATTA, NSW 2150 s.58 Licence Variation Issued	16-Jan-18
M4 - East of Reservoir Road to East of	
1562877 FULTON HOGAN CONSTRUCTION PTY LTD Mamre Road, PARRAMATTA, NSW 2150 s.58 Licence Variation Issued	16-Mar-18
M4 - East of Reservoir Road to East of	
1564302 FULTON HOGAN CONSTRUCTION PTY LTD Mamre Road, PARRAMATTA, NSW 2150 s.58 Licence Variation Issued	30-Apr-18
M4 - East of Reservoir Road to East of	
1564657 FULTON HOGAN CONSTRUCTION PTY LTD Mamre Road, PARRAMATTA, NSW 2150 s.58 Licence Variation Issued	10-May-18
M4 - East of Reservoir Road to East of	
1565842 FULTON HOGAN CONSTRUCTION PTY LTD Mamre Road, PARRAMATTA, NSW 2150 s.58 Licence Variation Issued	8-Jun-18
M4 - East of Reservoir Road to East of	27 1.1 10
1567329 FULTON HOGAN CONSTRUCTION PTY LTD Mamre Road, PARRAMATTA, NSW 2150 s.58 Licence Variation Issued M4 - East of Reservoir Road to East of	27-Jul-18
1571176 FULTON HOGAN CONSTRUCTION PTY LTD Mamre Road, PARRAMATTA, NSW 2150 s.58 Licence Variation Issued	26-Oct-18
M4 - East of Reservoir Road to East of	20 000 10
1576594 FULTON HOGAN CONSTRUCTION PTY LTD Mamre Road, PARRAMATTA, NSW 2150 s.58 Licence Variation Issued	29-Mar-19
143 and 169 Macquarie Street,	
20560 JOHN HOLLAND PTY LTD PARRAMATTA, NSW 2150 POEO licence Surrendered	15-Apr-15
143 and 169 Macquarie Street,	
1532020 JOHN HOLLAND PTY LTD PARRAMATTA, NSW 2150 s.58 Licence Variation Issued	31-Jul-15
143 and 169 Macquarie Street,	
1536338 JOHN HOLLAND PTY LTD PARRAMATTA, NSW 2150 s.80 Surrender of a Licence Issued	15-Dec-15
13421 JOHN HOLLAND RAIL PTY LTD PO Box 215 , PARRAMATTA, NSW 2124 POEO licence Issued	13-Jan-12

1504575	JOHN HOLLAND RAIL PTY LTD	PO Box 215 , PARRAMATTA, NSW 2124	s.58 Licence Variation	Issued	27-Feb-12
	JOHN HOLLAND RAIL PTY LTD	PO Box 215 , PARRAMATTA, NSW 2124 PO Box 215 , PARRAMATTA, NSW 2124	s.58 Licence Variation	Issued	10-Feb-14
	JOHN HOLLAND RAIL PTY LTD	PO Box 215 , PARRAMATTA, NSW 2124 PO Box 215 , PARRAMATTA, NSW 2124	s.58 Licence Variation	Issued	27-Jan-17
	JOHN HOLLAND RAIL PTY LTD	PO Box 215 , PARRAMATTA, NSW 2124	s.58 Licence Variation	Issued	27-Apr-17
	JOHN HOLLAND RAIL PTY LTD	PO Box 215 , PARRAMATTA, NSW 2124 PO Box 215 , PARRAMATTA, NSW 2124	s.58 Licence Variation	Issued	23-Feb-18
	JOHN HOLLAND RAIL PTY LTD	PO Box 215 , PARRAMATTA, NSW 2124 PO Box 215 , PARRAMATTA, NSW 2124	s.58 Licence Variation	Issued	2-0ct-19
1380233		within the rail corridor between Hawksbury		133020	2-000-19
	Laing O'Rourke Australia Construction Pty	Rd, Westmead and Marion St, Harris Park,			
20762		PARRAMATTA, NSW 2150	POEO licence	Surrendered	19-Apr-16
20702		within the rail corridor between Hawksbury		Surrendered	15 Apr 10
	Laing O'Rourke Australia Construction Pty	Rd, Westmead and Marion St, Harris Park,			
1541211		PARRAMATTA, NSW 2150	s.58 Licence Variation	Issued	6-Jun-16
1341211		within the rail corridor between Hawksbury		135000	0 3411 10
	Laing O'Rourke Australia Construction Pty	Rd, Westmead and Marion St, Harris Park,			
1545025		PARRAMATTA, NSW 2150	s.58 Licence Variation	Issued	27-Sep-16
1545025		within the rail corridor between Hawksbury		Issueu	27-Sep-16
	Laing O'Rourke Australia Construction Pty	Rd, Westmead and Marion St, Harris Park,			
1547027			s 80 Surrandar of a Licanca	loguad	10 Jan 17
1547937		PARRAMATTA, NSW 2150	s.80 Surrender of a Licence	Issued	10-Jan-17
2720		142-154 MACQUARIE STREET,		Cumanalanad	17 100 00
2730	NATIONWIDE NEWS PTY. LIMITED	PARRAMATTA, NSW 2150	POEO licence	Surrendered	17-Jan-00
		142-154 MACQUARIE STREET,			
1043386	NATIONWIDE NEWS PTY. LIMITED	PARRAMATTA, NSW 2150	s.80 Surrender of a Licence	Issued	23-Dec-04
		O'CONNELL STREET, PARRAMATTA, NSW			
4864	PARRAMATTA STADIUM TRUST	2150	POEO licence	Surrendered	26-Jun-00
		O'CONNELL STREET, PARRAMATTA, NSW			
1020905	PARRAMATTA STADIUM TRUST	2150	s.80 Surrender of a Licence	Issued	19-Sep-02
		Shop 11b, Mayfield Plaza, 26 George			
1513867	R.P HUANG & G.T HU	Street, PARRAMATTA, NSW 2123	s.91 Clean Up Notice	Issued	3-May-13
		27-31 Argyle Street , PARRAMATTA, NSW			
20087	ROADS AND MARITIME SERVICES	2150	POEO licence	Surrendered	20-Jun-12
		27-31 Argyle Street , PARRAMATTA, NSW			
1509966	ROADS AND MARITIME SERVICES	2150	s.58 Licence Variation	Issued	6-Nov-12
		27-31 Argyle Street , PARRAMATTA, NSW			
1516820	ROADS AND MARITIME SERVICES	2150	s.58 Licence Variation	Issued	3-Sep-13
		27-31 Argyle Street , PARRAMATTA, NSW			
1518767	ROADS AND MARITIME SERVICES	2150	s.58 Licence Variation	Issued	18-Dec-13
		27-31 Argyle Street , PARRAMATTA, NSW			
1519515	ROADS AND MARITIME SERVICES	2150	s.58 Licence Variation	Issued	23-Jan-14
		27-31 Argyle Street , PARRAMATTA, NSW			
1523647	ROADS AND MARITIME SERVICES	2150	s.58 Licence Variation	Issued	29-Jul-14
		27-31 Argyle Street , PARRAMATTA, NSW			
1530871	ROADS AND MARITIME SERVICES	2150	s.80 Surrender of a Licence	Issued	15-Jun-15
6588	SYDNEY WEST AREA HEALTH SERVICE	MARSDEN ROAD, PARRAMATTA, NSW 2150	POEO licence	Surrendered	30-Mar-00
1017910	SYDNEY WEST AREA HEALTH SERVICE	MARSDEN ROAD, PARRAMATTA, NSW 2150	s.80 Surrender of a Licence	Issued	3-Jun-02
	THE HOSPITALS CONTRIBUTION FUND OF	6/128 MARSDEN STREET, PARRAMATTA,			
10744	AUSTRALIA LTD	NSW 2150	POEO licence	Surrendered	3-Apr-00
	THE HOSPITALS CONTRIBUTION FUND OF	6/128 MARSDEN STREET, PARRAMATTA,			
1016362	AUSTRALIA LTD	NSW 2150	s.80 Surrender of a Licence	Issued	30-Apr-02
					1
1031	WYETH AUSTRALIA PTY LIMITED	GREGORY PLACE, PARRAMATTA, NSW 2150	POEO licence	Surrendered	9-May-00
1004880	WYETH AUSTRALIA PTY LIMITED	GREGORY PLACE, PARRAMATTA, NSW 2150	s.80 Surrender of a Licence	Issued	8-Mar-01



Background

A strategy to systematically prioritise, assess and respond to notifications under Section 60 of the Contaminated Land Management Act 1997 (CLM Act) has been developed by the EPA. This strategy acknowledges the EPA's obligations to make information available to the public under Government Information (Public Access) Act 2009.

When a site is notified to the EPA, it may be accompanied by detailed site reports where the owner has been proactive in addressing the contamination and its source. However, often there is minimal information on the nature or extent of the contamination.

After receiving a report, the first step is to confirm that the report does not relate to a pollution incident. The Protection of the Environment Operations Act 1997 (POEO Act) deals with pollution incidents, waste stockpiling or dumping. The EPA also has an incident management process to manage significant incidents (https://www.epa.nsw.gov.au/reporting-and-incidents/incident-management).

In many cases, the information indicates the contamination is securely immobilised within the site, such as under a building or carpark, and is not currently causing any significant risks for the community or environment. Such sites may still need to be cleaned up, but this can be done in conjunction with any subsequent building or redevelopment of the land. These sites do not require intervention under the CLM Act, and are dealt with through the planning and development consent process. In these cases, the EPA informs the local council or other planning authority, so that the information can be recorded and considered at the appropriate time (https://www.epa.nsw.gov.au/your-environment/contaminated-land/managing-contaminated-land/inel-of-planning-authorities).

Where indications are that the contamination could cause actual harm to the environment or an unacceptable offsite impact (i.e. the land is 'significantly contaminated'), the EPA would apply the regulatory provisions of the CLM Act to have the responsible polluter and/or landowner investigate and remediate the site. If the reported contamination could present an immediate or long-term threat to human health NSW Health will be consulted. SafeWork NSW and Water NSW can also be consulted if there appear to be occupational health and safety risks or an impact on groundwater quality.

As such, the sites notified to the EPA and presented in the list of contaminated sites notified to the EPA are at various stages of the assessment and remediation process. Understanding the nature of the underlying contamination, its implications and implementing a remediation program where required, can take a considerable period of time. The list provides an indication, in relation to each nominated site, as to the management status of that particular site. Further detailed information may be available from the EPA or the person who notified the site.

The following questions and answers may assist those interested in this issue.

Frequently asked questions

Why does my land appear on the list of notified sites?

Your land may appear on the list because:

the site owner and/or the polluter has notified the EPA under section 60 of the CLM Act
 the EPA has been notified via other means and is satisfied that the site is or was contaminated.

If a site is on the list, it does not necessarily mean the contamination is significant enough to regulate under the CLM Act.

Does the list contain all contaminated sites in NSW?

No. The list only contains contaminated sites that EPA is aware of. If a site is not on the list, it does not necessarily mean the site is not contaminated.

The EPA relies on responsible parties and the public to notify contaminated sites.

How are notified contaminated sites managed by the EPA?

There are different ways the EPA can manage notified contaminated sites. Options include:

• regulation under the CLM Act, POEO Act, or both

notifying the relevant planning authority for management under the planning and development process
 managing the site under the Protection of the Environment Operation (Underground Petroleum Storage Systems) Regulation 2014.

There are specific cases where contamination is managed under a tailored program operated by another agency (for example, the Resources & Geoscience's Legacy Mines Program).

What should I do if I am a potential buyer of a site that appears on the list?

You should seek advice from the seller to understand the contamination issue. You may need to seek independent contamination or legal advice.

The information provided in the list is indicative only and a starting point for your own assessment. Land contamination from past site uses is common, mainly in urban environments. If the site is properly remediated or managed, it may not affect the intended future use of the site.

Who can I contact if I need more information about a site?

You can contact the Environment Line at any time by calling 131 555 or by emailing info@environment.nsw.gov.au.

List of NSW Contaminated Sites Notified to the EPA

Disclaimer

The EPA has taken all reasonable care to ensure that the information in the list of contaminated sites notified to the EPA (the list) is complete and correct. The EPA does not, however, warrant or represent that the list is free from errors or omissions or that it is exhaustive.

The EPA may, without notice, change any or all of the information in the list at any time.

You should obtain independent advice before you make any decision based on the information in the list.

The list is made available on the understanding that the EPA, its servants and agents, to the extent permitted by law, accept no responsibility for any damage, cost, loss or expense incurred by you as a result of:

1. any information in the list; or

- 2. any error, omission or misrepresentation in the list; or
- 3. any malfunction or failure to function of the list;

4. without limiting (2) or (3) above, any delay, failure or error in recording, displaying or updating information.

Site Status	Explanation
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 <i>Protection of the Environment Operations Act 1997</i> .
Under Preliminary Investigation Order	The EPA has issued a Preliminary Investigation Order under s10 of the <i>Contaminated Land Management Act</i> 1997, to obtain additional information needed to complete the assessment.
Regulation under 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.
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 <i>Contaminated Land Management Act 1997</i> . A regulatory approach is being finalised.
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.
Contamination currently regulated under POEO Act	Contamination is currently regulated under the Protection of the Environment Operations Act 1997 (POEO Act). The EPA as the appropriate regulatory authority reasonably suspects that a pollution incident is occurring/ has occurred and that it requires regulation under the POEO Act. The EPA may use environment protection notices, such as clean up notices, to require clean up action to be taken. Such regulatory notices are available on the POEO public register.
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 <i>Environmental Planning and Assessment</i> <i>Act 1979</i> (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 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 <i>Protection of the Environment Operations Act 1997</i> (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 <i>Environmental Planning and Assessment Act</i> 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.

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
PADSTOW	Former Exide Battery Manufacturir	55 Bryant STREET	Other Industry	Contamination currently regulated	-33.94265241	151.0378986
PADSTOW	Galvatech	49 Gow STREET	Metal Industry	Contamination currently regulated	-33.93808679	151.0346862
PADSTOW	Foseco Australia	7 Stuart STREET	Chemical Industry	Regulation under CLM Act not requ	-33.94342957	151.0377316
PADSTOW	Sebel Furniture	Parts 64 and 92 Gow STREET	Other Industry	Regulation under CLM Act not requ	-33.93606752	151.0322057
PAGEWOOD	Former Email Site	Corner of Page Street and Hollowa	Metal Industry	Contamination currently regulated	-33.94302462	151.2132036
PAMBULA	Offsite area (roadways) adjacent to	Corner Quondola Street and Bullar	Service Station	Regulation under CLM Act not requ	-36.93104481	149.8746763
PARKES	Caltex Service Station Parkes	352-360 Clarinda STREET	Service Station	Regulation under CLM Act not requ	-33.13317454	148.173643
PARKES	Former Caltex Parkes (Mugincoble)	Eugowra ROAD	Service Station	Regulation under CLM Act not requ	-33.19007031	148.224822
PARKES	BP Truckstop	(Newell Highway) 1 Forbes ROAD	Other Petroleum	Regulation under CLM Act not requ	-33.14309226	148.1710282
PARKES	Former BP Telescope Service Static	339-341 Clarinda STREET	Service Station	Regulation under CLM Act not requ	-33.13216152	148.1743239
PARKES	BP Reliance East End Service Statio	46 Clarinda STREET	Service Station	Regulation under CLM Act not requ	-33.14243539	148.1846227
PARKES	Former Parkes Gas Works (includin	1A East STREET	Gasworks	Under assessment	-33.143041	148.182984
PARKLEA	Caltex Parklea Service Station	Old Windsor (north of Miami Stree	Service Station	Regulation under CLM Act not requ	-33.72427108	150.9388531
PARRAMATTA	BP Service Station	435 Church STREET	Service Station	Regulation under CLM Act not requ	-33.80498714	151.0056151
PARRAMATTA	Coleman Oval Embankment	Cnr of Pitt STREET and Maquarie S	Unclassified	Regulation under CLM Act not requ	-33.80441625	150.9954841
PARRAMATTA	7-Eleven (former Mobil) Service Sta	81 Victoria ROAD	Service Station	Regulation under CLM Act not requ	-33.80919769	151.0142894
PARRAMATTA	Parramatta Park Toilet Block Demo	The Cresent Toilet Block Parramatt	Unclassified	Regulation under CLM Act not requ	-33.81054034	150.9961968
PAUPONG	Former Timber Treatment Plant	Off Paupong ROAD	Other Industry	Regulation under CLM Act not requ	-36.57657408	148.6624998
PENDLE HILL	7-Eleven Service Station	217 Wentworth AVENUE	Service Station	Regulation under CLM Act not requ	-33.8017814	150.9577994
PENNANT HILLS	Shell Coles Express Pennant Hills W	386 Pennant Hills ROAD	Service Station	Contamination currently regulated	-33.73928611	151.0679704
PENRITH	Mirvac Industrial Site	2101 Castlereagh ROAD	Other Industry	Regulation under CLM Act not requ	-33.73497514	150.6954097
PENRITH	7-Eleven (former Mobil) Service Sta	212-222 Andrews ROAD	Service Station	Regulation under CLM Act not requ	-33.73059678	150.6952571
PENRITH	Lowes Petroleum (Former Mobil) E		Other Petroleum	Regulation under CLM Act not requ	-33.74484268	150.6980504
PENRITH	Caltex Service Station	Castlereagh Rd Cnr Lugard STREET		Regulation under CLM Act not requ	-33.73426843	150.6933382
PENRITH	BP Express Service Station	Corner Coreen Avenue and Castler		Regulation under CLM Act not requ	-33.74385498	150.6925743
PENRITH	Crane Enfield Metals	Castlereagh ROAD	Metal Industry	Ongoing maintenance required to	-33.73734959	150.696442
PENRITH	7-Eleven Service Station Penrith	30 Henry STREET 153 Coreen AVENUE	Service Station	Regulation under CLM Act not requ	-33.75408799	
PENRITH	Caltex Penrith Service Station Jet 60 Dry Cleaners	Shop 3 134-138 Henry STREET	Service Station	Regulation under CLM Act not requ Regulation under CLM Act not requ	-33.74287244 -33.75231953	150.6927071
PENRITH	St Mary's Shopping Village	Charles Hackett DRIVE	Other Industry	Regulation under CLM Act not requ	-33.766814	150.770363
PENRITH	Former Dry Cleaners	Shop 3, 134-138 Henry STREET	Other Industry	Regulation under CLM Act not requ	-33.75231953	150.6964541
PENSHURST	7-Eleven Service Station	612 Forest ROAD	Service Station	Regulation under CLM Act not requ	-33.96153533	150.0904341
PENSHURST	Caltex Service Station	641 King Georges ROAD	Service Station	Regulation under CLM Act not requ	-33.95985335	151.0891118
PERISHER VALLEY	Perisher Centre Loading Dock	Kosciuszko ROAD	Other Petroleum	Regulation under CLM Act not requ	-36.40392862	148.4111593
PERISHER VALLEY	Perisher Ski Resort	Kosciuszko ROAD	Other Petroleum	Regulation under CLM Act not requ	-36.41106374	148.4005469
PETERSHAM	Fanny Durack Aquatic Centre	Station STREET	Unclassified	Regulation under CLM Act not requ	-33.89194583	151.151824
PHEASANTS NEST	7-Eleven Service Station	(Southbound) Hume HIGHWAY	Service Station	Regulation under CLM Act not requ	-34.28291571	150.6394606



Appendix H Heritage Records

NSW Department of Planning, Industry and Environment

Home > Topics > Heritage places and items > Search for heritage

Search for NSW heritage

Return to search page where you can refine/broaden your search.

Statutory listed items

Information and items listed in the State Heritage Inventory come from a number of sources. This means that there may be several entries for the same heritage item in the database. For clarity, the search results have been divided into three sections.

- Section 1 contains Aboriginal Places declared by the **Minister for the Environment** under the National Parks and Wildlife Act. This information is provided by the Heritage Division.
- Section 2 contains heritage items listed by the **Heritage Council of NSW** under the NSW Heritage Act. This includes listing on the State Heritage Register, an Interim Heritage Order or protected under section 136 of the NSW Heritage Act. This information is provided by the Heritage Division.
- Section 3 contains items listed by local councils on Local Environmental Plans under the Environmental Planning and Assessment Act, 1979 and State government agencies under s.170 of the Heritage Act. This information is provided by local councils and State government agencies.

Section 1. Aboriginal Places listed under the National Parks and Wildlife Act.

Your search did not return any matching results.

Section 2. Items listed under the NSW Heritage Act.

Your search did not return any matching results.

Section 3. Items listed by Local Government and State Agencies.

Your search returned 31 records.

Item name	Address	Suburb	LGA	Information source
Barnaby's Restaurant and Potential Archaeological Site	64 and 66 Phillip Street	Parram atta	Parra matt a	LGOV
<u>Convict Drain</u>	1, 1A and 3 Barrack Lane	Parram atta	Parra matt a	LGOV
<u>Convict Drain</u>	174 Church Street	Parram atta	Parra matt a	LGOV
<u>Convict Drain</u>	71, 83, 85 and 126 – 130 George Street	Parram atta	Parra matt a	LGOV
<u>Convict Drain</u>	72, 74, 119 and 119A Macquarie Street	Parram atta	Parra matt a	LGOV
<u>Convict Drain</u>	72B, 72C, 76 and 80A Phillip Street	Parram atta	Parra matt a	LGOV
Convict Drain	18 and 25 Smith Street	Parram atta	Parra matt	LGOV

			a	
Office and Potential Archaeological Site	68A and 70 Phillip Street	Parram atta	Parra matt a	LGOV
Parramatta Archaeological Management Unit 2882	42-56 Phillip Street	Parram atta	Parra matt a	LGOV
Parramatta Archaeological Management Unit 2894	George Street	Parram atta	Parra matt a	LGOV
Parramatta Archaeological Management Unit 2949	30 Phillip Street	Parram atta	Parra matt a	LGOV
Parramatta Archaeological Management Unit 2956	32 Phillip Street	Parram atta	Parra matt a	LGOV
Parramatta Archaeological Management Unit 3022	10 Phillip Street	Parram atta	Parra matt a	LGOV
Parramatta Archaeological Management Unit 3079	Church Street	Parram atta	Parra matt a	LGOV
Parramatta Archaeological Management Unit 3082	George Street	Parram atta	Parra matt a	LGOV
Parramatta Archaeological Management Unit 3083	Church Street	Parram atta	Parra matt a	LGOV
Parramatta Archaeological Management Unit 3084	Church Street	Parram atta	Parra matt a	LGOV
Parramatta Archaeological Management Unit 3086	Church Street	Parram atta	Parra matt a	LGOV
Parramatta Archaeological Management Unit 3096	George Street	Parram atta	Parra matt a	LGOV
Parramatta Archaeological Management Unit 3099	70-74 Phillip Street	Parram atta	Parra matt a	LGOV
Parramatta Archaeological Management Unit 3155	Phillip Street	Parram atta	Parra matt a	LGOV
Parramatta Archaeological Management Unit 3169	Smith Street	Parram atta	Parra matt a	LGOV
Parramatta Archaeological Management Unit 3170	60a Phillip Street	Parram atta	Parra matt a	LGOV
Parramatta Archaeological Management Unit 3171	66, 68 Phillip Street	Parram atta	Parra matt a	LGOV

Search for NSW heritage | NSW Environment, Energy and Science

<u>Parramatta Archaeological Management Unit</u> <u>3172</u>	76-78 Phillip Street	Parram atta	Parra matt a	LGOV
Parramatta Archaeological Management Unit 3173	Phillip Street	Parram atta	Parra matt a	LGOV
Parramatta Archaeological Management Unit 3174	Phillip Street	Parram atta	Parra matt a	LGOV
Parramatta Archaeological Management Unit 3176	Phillip Street	Parram atta	Parra matt a	LGOV
<u>St Andrew's Uniting Church and Hall</u> (Former) And Potential Arch. Site	2 Phillip Street	Parram atta	Parra matt a	LGOV
<u>St George's Terrace and Potential</u> <u>Archaeological Site</u>	44 Phillip Street	Parram atta	Parra matt a	LGOV
<u>Willow Grove and Potential Archaeological</u> <u>Site</u>	34 Phillip Street	Parram atta	Parra matt a	LGOV

There was a total of 31 records matching your search criteria.

Key:

LGA = Local Government Area

GAZ= NSW Government Gazette (statutory listings prior to 1997), HGA = Heritage Grant Application, HS = Heritage Study, LGOV = Local Government, SGOV = State Government Agency.

Note: While the Heritage Division seeks to keep the Inventory up to date, it is reliant on State agencies and local councils to provide their data. Always check with the relevant State agency or local council for the most up-to-date information.

Search Results

86 results found.

Accommodation Block Spinal Range for Wards 2 and 3 Fleet St	North Parramatta, NSW, Australia	(<u>Registered</u>) Register of the
		National Estate (Non-statutory archive)
Administration Building Fleet St	North Parramatta, NSW, Australia	(<u>Registered</u>) Register of the National Estate (Non-statutory archive)
<u>All Saints Anglican Church, Grounds & Trees</u> Elizabeth St	Parramatta, NSW, Australia	(<u>Registered</u>) Register of the National Estate (Non-statutory archive)
<u>All Saints Parochial School</u> Elizabeth St	Parramatta, NSW, Australia	(<u>Registered</u>) Register of the National Estate (Non-statutory archive)
<u>Auxiliary Buildings former Kings School</u> Marsden St	Parramatta, NSW, Australia	(<u>Registered</u>) Register of the National Estate (Non-statutory archive)
Boer War Memorial Parramatta Park	Parramatta, NSW, Australia	(<u>Registered</u>) Register of the National Estate (Non-statutory archive)
Boundary Stone Parramatta Park	Parramatta, NSW, Australia	(<u>Registered</u>) Register of the National Estate (Non-statutory archive)
Brislington George St	Parramatta, NSW, Australia	(<u>Registered</u>) Register of the National Estate (Non-statutory archive)
<u>Burnside Homes</u> Pennant Hills Rd	North Parramatta, NSW, Australia	(<u>Registered</u>) Register of the National Estate (Non-statutory archive)
<u>Catholic Cemetery</u> Church St	North Parramatta, NSW, Australia	(<u>Registered</u>) Register of the National Estate (Non-statutory archive)

Parramatta, NSW, Australia

North Parramatta, NSW, Australia

Rosehill, NSW, Australia

Parramatta, NSW, Australia

Harris Park, NSW, Australia

Parramatta, NSW, Australia

(<u>Registered</u>)

Register of the National Estate (Non-statutory archive)

(<u>Registered</u>)

Register of the National Estate (Non-statutory archive)

(Rejected Place)

Register of the National Estate (Non-statutory archive)

(Registered)

Register of the National Estate (Non-statutory archive)

(<u>Registered</u>)

Register of the National Estate (Non-statutory archive)

(Indicative Place)

Register of the National Estate (Non-statutory archive)

(<u>Registered</u>)

Register of the National Estate (Non-statutory archive)

(Registered)

Register of the National Estate (Non-statutory archive)

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Register of the National Estate (Non-statutory archive)

(<u>Registered</u>)

Register of the National Estate (Non-statutory archive)

(<u>Registered</u>)

Register of the National Estate (Non-statutory archive)

Central Block former Kings School Marsden St

Centennial Clock Church St

Colonial Hospital Well 154 Marsden St

Cottage 12 O'Connell St

Cottage 14 O'Connell St

Cumberland Hospital Landscape Fleet St

Day Room for Wards 4 and 5 (former) Fleet St

Elizabeth Farm House 70 Alice St

Endrim Harold St

Experiment Farm Cottage 9 Ruse St

Girls Training School Precinct 1 Fleet St

Parramatta, NSW, Australia

Parramatta, NSW,

Parramatta, NSW,

North Parramatta,

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Parramatta, NSW,

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Parramatta, NSW,

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NSW, Australia

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Register of the National Estate (Non-statutory archive)

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Register of the National Estate (Non-statutory archive)

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Register of the National Estate (Non-statutory archive)

(Registered)

Register of the National Estate (Non-statutory archive)

(<u>Nominated place</u>) National Heritage List

(<u>Registered</u>) Register of the

National Estate (Non-statutory archive)

(<u>Registered</u>)

Register of the National Estate (Non-statutory archive)

(<u>Registered</u>)

Register of the National Estate (Non-statutory archive)

(Registered)

Register of the National Estate (Non-statutory archive)

(<u>Registered</u>) Register of the National Estate (Non-statutory

archive)

Governors Bath House (former) Parramatta Park

Governor Brisbanes Observatory Remnants Parramatta Park

Governors Dairy Cottage (former) Parramatta Park

Gowan Brae Group Pennant Hills Rd

Gowan Brae House Pennant Hills Rd

Hambledon 47 Hassall St

Hambledon Cottage and Hambledon Reserve 47 Hassall St

Harborne including Ground and Trees 23 Boundary St

Headmasters Residence former Kings School Marsden St

Kia Ora (former) 64 Macquarie St

Kings School (former) Group Marsden St

Kings School Chapel Pennant Hills Rd

Parramatta, NSW, Australia

Parramatta, NSW, Australia

Parramatta, NSW, Australia

North Parramatta, NSW, Australia

North Parramatta, NSW, Australia

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Parramatta, NSW,

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NSW, Australia

National Estate (Non-statutory archive)

(Indicative Place)

(Registered)

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Register of the National Estate (Non-statutory archive)

(<u>Registered</u>) Register of the

National Estate (Non-statutory archive)

(Listed place)

Commonwealth Heritage List

(<u>Registered</u>)

Register of the National Estate (Non-statutory archive)

(Listed place)

Commonwealth Heritage List

(<u>Registered</u>)

Register of the National Estate (Non-statutory archive)

(<u>Register</u> of the National Estate (Non-statutory archive)

(Registered)

Register of the National Estate (Non-statutory archive)

(<u>Registered</u>)

Register of the National Estate (Non-statutory archive)

(<u>Registered</u>)

Register of the National Estate (Non-statutory archive)

(<u>Registered</u>)

Register of the National Estate (Non-statutory archive)

Lancer Barracks Smith St

Lancer Barracks Smith St

Kitchen Block Fleet St

Lake Parramatta Dam Lackey St

Lancer Barracks Precinct Smith St

Lancer Barracks Precinct Smith St

Lennox Bridge Church St

Lennox House and Outbuilding 39 Campbell St

MacArthur House 8 Melville St

Macquarie Street Gatehouse Macquarie St

Norfolk House and Contemporary Outbuilding 467 Church St

Obelisk Parramatta Park

www.environment.gov.au/cgi-bin/ahdb/search.pl

Old Government House Parramatta Park

Australian Heritage Database

Parramatta, NSW, Australia

Parramatta, NSW,

Parramatta, NSW,

Parramatta, NSW,

Parramatta, NSW,

North Parramatta,

Parramatta, NSW,

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Parramatta, NSW,

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NSW, Australia

NSW, Australia

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Australia

(Registered)

Register of the National Estate (Non-statutory archive)

(<u>Listed place</u>) National Heritage List

(<u>Registered</u>) Register of the National Estate (Non-statutory archive)

(<u>Nomination now ineligible for</u> <u>PPAL</u>)

National Heritage List

(<u>Listed place</u>) National Heritage List

(<u>Register</u> of the National Estate (Non-statutory archive)

(Registered)

Register of the National Estate (Non-statutory archive)

(<u>Registered</u>)

Register of the National Estate (Non-statutory archive)

(<u>Registered</u>)

Register of the National Estate (Non-statutory archive)

(Registered)

Register of the National Estate (Non-statutory archive)

(Rejected Place)

Register of the National Estate (Non-statutory archive)

(Indicative Place)

Register of the National Estate (Non-statutory archive)

(<u>Registered</u>)

Register of the National Estate (Non-statutory archive)

Old Government House and the Government Domain O'Connell St

Parramatta Convalescent Home 43A Thomas St

Parramatta Female Factory Precinct 1 Fleet St

Parramatta Female Factory and Institutions Precinct Fleet St

Parramatta Gaol (former) 73 O'Connell St

Parramatta Park Macquarie St

Parramatta Park Gatehouse O'Connell St

Parramatta Post Office (former) 321 Church St

Parramatta Psychiatric Centre Precinct Fleet St

Parramatta Weir Marsden St

Parramatta and Lane Cove Rivers Landscapes

Perth House 85 George St

_ ____

Sydney, NSW,

Australia

Parramatta, NSW, Australia

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Parramatta, NSW,

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Parramatta, NSW,

North Parramatta,

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Parramatta, NSW,

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NSW, Australia

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(Indicative Place)

Register of the National Estate (Non-statutory archive)

(Registered)

Register of the National Estate (Non-statutory archive)

(Indicative Place)

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Register of the National Estate (Non-statutory archive)

(Indicative Place)

Register of the National Estate (Non-statutory archive)

(<u>Registered</u>)

Register of the National Estate (Non-statutory archive)

Public School (former) and Convict Wall 175 Macquarie St

Remnant Garden from Old Benevolent Society Alfred St

River Terraces Fleet St

Prince Alfred Park Victoria Rd

Roseneath Cottage 40-42 O'Connell St

Roxy Cinema 65 George St

Sandstone Buildings Fleet St

Sandstone Walls and Ha Ha Fleet St

Southern Gatehouse Great Western Hwy

St Andrews Uniting Church & Halls Marsden St

St Johns Anglican Provisonal Cathedral Church St

St Johns Cemetery and Boundary Wall O'Connell St

St Patricks Catholic Cathedral & Presbytery Marist Pl

Town Hall 182 Church St

Travellers Rest Inn 16 Hunter St

Travellers Rest Inn Group 16 Hunter St

Two Cannons Parramatta Park

Ward 1 Fleet St

Ward 2 Courtyard Shelter Shed Fleet St

Ward 2 North Range Fleet St

Ward 4 North Range Fleet St

Ward 4 West Range Fleet St

Australian Heritage Database

Parramatta, NSW, Australia

North Parramatta, NSW, Australia (<u>Registered</u>)

Register of the National Estate (Non-statutory archive)

(<u>Registered</u>) Register of the National Estate (Non-statutory archive)

(<u>Registered</u>)

Register of the National Estate (Non-statutory archive)

(<u>Registered</u>)

Register of the National Estate (Non-statutory archive)

(Register of the National Estate (Non-statutory archive)

(<u>Registered</u>)

Register of the National Estate (Non-statutory archive)

Aust	Tallall Heritage Database			
<u>Ward 5 North Range</u> Fleet St	North Parramatta, NSW, Australia	(<u>Registered</u>) Register of the National Estate (Non-statutory archive)		
<u>Ward 5 South Range (former)</u> Fleet St	North Parramatta, NSW, Australia	(<u>Registered</u>) Register of the National Estate (Non-statutory archive)		
<u>Wavertree including Grounds and Trees</u> 10 New Zealand St	Parramatta, NSW, Australia	(<u>Registered</u>) Register of the National Estate (Non-statutory archive)		
<u>Western Gatehouse</u> Park Av	Parramatta, NSW, Australia	(<u>Registered</u>) Register of the National Estate (Non-statutory archive)		
<u>Willow Grove</u> 34 Phillip St	Parramatta, NSW, Australia	(<u>Indicative Place</u>) Register of the National Estate (Non-statutory archive)		
<u>Wistaria Gardens</u> Gardens Way	Parramatta, NSW, Australia	(<u>Indicative Place</u>) Register of the National Estate (Non-statutory archive)		
Report Produced: Fri Mar 27 07:59:26 2020				

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Appendix I Field Bore Logs



SB1

Project Number: 58352 Client: Infrastructure NSW Project Name: Parramatta Powerhouse Site Address: Phillip Street, Parramatta

Date: 28-Feb-20 Logged By: JD Contractor: Terratest Total Hole Depth (mbgs): 1.5 Bore Diameter (mm): 100 Eastings (GDA 94): Northings (GDA 94): Zone/Area/Permit#: Reference Level: Ground Surface Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
SFA		0.10		Fill	Bitumen Sandy clayey silt, brown, dry, heterogeneous, non-plastic, very soft, with inclusions of bitumen (2-5 mm).	SB1_0.2m PID = 1 ppm	No odours, staining or asbestos observed.
	0 <u>.5</u> 					SB1_0.5m PID = 1.5 ppm	No odours, staining or asbestos observed.
		0.80		Fill	Silty clay, dark brown, dry, homogeneous, non-plastic very soft.		
		1.00		SM	Silty sand, brown, dry, homogeneous, loose.	SB1_1m PID = 2 ppm	No odours, staining or asbestos observed.
	1.5	1.50			Borehole SB1 terminated at 1.5m	SB1_1.5m PID = 0.6 ppm	No odours, staining or asbestos observed. End of hole at 1.5 m bgs. Program depth.



SB2

Project Number: 58352 Client: Infrastructure NSW Project Name: Parramatta Powerhouse Site Address: Phillip Street, Parramatta

Date: 28-Feb-20 Logged By: JD Contractor: Terratest Total Hole Depth (mbgs): 1.1 Bore Diameter (mm): 100 Eastings (GDA 94): Northings (GDA 94): Zone/Area/Permit#: Reference Level: Ground Surface Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
SFA	_	0.10		Fill	Bitumen Sandy clayey silt, brown, dry, heterogeneous, non-plastic, very soft, with inclusions of bitumen (0.2-3 cm).		
	_					SB2_0.2m PID = 1.7 ppm	No odours, staining or asbestos observed.
	0 <u>.5</u>					SB2_0.5m PID = 1 ppm	No odours, staining or asbestos observed.
	_						
20		0.90		Fill	Clayey silt, dark brown , dry, heterogeneous, non-plastic, soft, with inclusions of brick (<0.5 cm), gravels (0.5-2 cm) and tiles (<0.5-2 cm).		
AUSTRALIA.GDT 11-3-20		1.10			Borehole SB2 terminated at 1.1m	SB2_1m PID = 0.5 ppm	No odours, staining or asbestos observed. End of hole at 1.1 m bgs. Refusal on dense/rocky fill.
E - 2017.GPJ GINT STD	-						
BOREHOLE JBSG BOREHOLE - 2017.GPJ GINT STD AUSTRALIA							



Project Number: 58352 Client: Infrastructure NSW Project Name: Parramatta Powerhouse Site Address: Phillip Street, Parramatta

Date: 28-Feb-20 Logged By: JD Contractor: Terratest Total Hole Depth (mbgs): 1.5 Bore Diameter (mm): 100

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
SFA	_	0.10		Fill	Bitumen Sandv clavev silt. brown, drv, heterogeneous, non-plastic, verv soft, with inclusions of		
	_	0.10			Sandy clayey silt, brown, dry, heterogeneous, non-plastic, very soft, with inclusions of bitumen (2-5 mm), gravels (<0.5-4 cm) and fine bricks.		
	_					SB3_0.2m PID = 1.3 ppm	No odours, staining or asbestos observed.
	_						
	0 <u>.5</u>					SB3_0.5m PID = 1.6 ppm	No odours, staining or asbestos observed.
	_						ubserveu.
	_						
	_	0.80		CL	Clay, brown/red, dry, homogeneous, medium plasticity, soft.		
	1 <u>.0</u>						
	_					SB3_1m PID = 1.2 ppm	No odours, staining or asbestos observed.
	_						
	_						
	_					SB3_1.5m PID = 1.5 ppm	No odours, staining or asbestos observed. QS01/QS01A collected. Er of hole at 1.5 m bgs. Program depth.
_	1.5	1.50			Borehole SB3 terminated at 1.5m		



Project Number: 58352 Client: Infrastructure NSW Project Name: Parramatta Powerhouse Site Address: Phillip Street, Parramatta

Date: 28-Feb-20 Logged By: JD Contractor: Terratest Total Hole Depth (mbgs): 1.5 Bore Diameter (mm): 100

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
SFA	_	0.10		Fill	Bitumen Sandy clayey silt, brown, dry, heterogeneous, non-plastic, very soft, with inclusions of bitumen (2-5 mm) and gravels (0.5-3 cm).		
	_					SB4_0.2m PID = 5.2 ppm	No odours, staining or asbestos observed.
	_						
	0.5						
	_					SB4_0.5m PID = 1.2 ppm	No odours, staining or asbestos observed.
	_						
	_	0.80		CL	Clay, brown/red, dry, homogeneous, medium plasticity, soft.		
	1 <u>.0</u>					SB4 1m	No odours, staining or asbestos
	_					SB4_1m PID = 2 ppm	observed.
	_	1.20	••••••••••••••••••••••••••••••••••••••	SM-SC	Silty clayey sand, black, dry, homogeneous, medium grain, loose.		
	_						
	1.5	1.50			Borehole SB4 terminated at 1.5m	SB4_1.5m PID = 1.2 ppm	No odours, staining or asbestos observed. End of hole at 1.5 m bgs Program depth.



Project Number: 58352 Client: Infrastructure NSW Project Name: Parramatta Powerhouse Site Address: Phillip Street, Parramatta

Date: 28-Feb-20 Logged By: JD Contractor: Terratest Total Hole Depth (mbgs): 1.5 Bore Diameter (mm): 100

SFA	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Р.	0.1		Fill	Bitumen Sandy clayey silt, brown, dry, heterogeneous, non-plastic, very soft, with inclusions of bitumen (0.5-3 cm), gravels (1-2 cm) and concrete.		
	_				SB5_0.2m PID = 14.3 ppm	Slight odour, no staining or asbestos observed.
0 <u>.</u>	<u>0.4</u>		Fill	Reworked clay, dark brown, dry, heterogeneous, high plasticity, dense, with inclusions of gravels.	SB5_0.5m PID = 5.2 ppm	No odours, staining or asbestos observed.
	_					
	0.8		CL	Reworked clay, brown/grey, dry, heterogeneous, high plasticity, dense, with inclusions of gravels.		
1 <u>.(</u>	_				SB5_1m PID = 3.8 ppm	No odours, staining or asbestos observed.
1.3	_					
1.	51.5			Borehole SB5 terminated at 1.5m	SB5_1.5m PID = 3.9 ppm	No odours, staining or asbestos observed. End of hole at 1.5 m bgs. Program depth.



Project Number: 58352 Client: Infrastructure NSW Project Name: Parramatta Powerhouse Site Address: Phillip Street, Parramatta

Date: 28-Feb-20 Logged By: JD Contractor: Terratest Total Hole Depth (mbgs): 1.5 Bore Diameter (mm): 100

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
SFA		0.10		Fill	Bitumen Sandy clayey silt, brown, dry, heterogeneous, non-plastic, very soft, with inclusions of bitumen (0.5-3 cm), gravels (1-2 cm) and concrete.		
	_					SB6_0.2m PID = 8.7 ppm	No odours, staining or asbestos observed.
		0.40		Fill	Reworked clay, grey/brown, dry, heterogeneous, non-plastic, soft, with inclusions of gravels (<0.5 cm).	SB6 0.5m	No edouro ataining as exhertes
	_					SB6_0.5m PID = 2.3 ppm	No odours, staining or asbestos observed.
	_	0.80		CL-SC	Sandy clay, brown, dry, homogeneous, non-plastic, soft.		
	1 <u>.0</u>					SB6_1m PID = 2.5 ppm	No odours, staining or asbestos observed.
	_						
	_						
	1.5	1.50			Borehole SB6 terminated at 1.5m	SB6_1.5m PID = 2.5 ppm	No odours, staining or asbestos observed. End of hole at 1.5 m bgs Program depth.



Project Number: 58352 Client: Infrastructure NSW Project Name: Parramatta Powerhouse Site Address: Phillip Street, Parramatta

Date: 28-Feb-20 Logged By: JD Contractor: Terratest Total Hole Depth (mbgs): 1.5 Bore Diameter (mm): 100

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
SFA		0.10		Fill	Bitumen Sandy clayey silt, brown, dry, heterogeneous, non-plastic, very soft, with inclusions of bitumen (2-5 mm). Reworked clay, grey/brown, dry, heterogeneous, non-plastic, soft, with inclusions of gravels (<0.5 cm).	SB7_0.2m PID = 8.3 ppm SB7_0.5m PID = 2.6 ppm	No odours, staining or asbestos observed. No odours, staining or asbestos observed.
7.GPJ GINT STD AUSTRALIA.GDT 11-3-20		0.80		ML-CL-SC	Sandy clayey silt, black/brown, dry, homogeneous, non-plastic, soft.	SB7_1m PID = 2.3 ppm	No odours, staining or asbestos observed.
BOREHOLE JBSG BOREHOLE - 2017.GPJ GINT STD AUSTRALIA	1.5	1.50			Borehole SB7 terminated at 1.5m	SB7_1.5m PID = 2.7 ppm	No odours, staining or asbestos observed. QS02/QS02A collected. End of hole at 1.5 m bgs. Program depth.



Project Number: 58352 Client: Infrastructure NSW Project Name: Parramatta Powerhouse Site Address: Phillip Street, Parramatta

Date: 28-Feb-20 Logged By: JD Contractor: Terratest Total Hole Depth (mbgs): 1.5 Bore Diameter (mm): 100

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
SFA	0.5	0.10		Fill	Concrete Sandy clayey silt, brown, dry, heterogeneous, non-plastic, very soft, with inclusions of bitumen (2-5 mm). Reworked clay, grey/brown, dry, heterogeneous, non-plastic, soft, with inclusions of gravels (<0.5 cm).	SB8_0.2m PID = 18 ppm SB8_0.5m PID = 8.8 ppm	No odours, staining or asbestos observed. No odours, staining or asbestos observed.
		0.80		SM ML-CL-SC	Silty sand, dark yellow, dry, homogeneous, medium grained, loose.	SB8_1m PID = 3.1 ppm	No odours, staining or asbestos observed.
		1.50			Borehole SB8 terminated at 1.5m	SB8_1.5m PID = 1.5 ppm	No odours, staining or asbestos observed. QS03/QS03A collected. End of hole at 1.5 m bgs. Program depth.



Project Number: 58352 Client: Infrastructure NSW Project Name: Parramatta Powerhouse Site Address: Phillip Street, Parramatta

Date: 28-Feb-20 Logged By: JD Contractor: Terratest Total Hole Depth (mbgs): 1.5 Bore Diameter (mm): 100

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
0FA				Fill	Bitumen		
	_	0.10		Fill	Sandy clayey silt, brown, dry, heterogeneous, non-plastic, very soft, with inclusions of bitumen (2-5 mm).		
	_					SB9_0.2m PID = 2.1 ppm	No odours, staining or asbestos observed.
	_	0.30		Fill	Reworked clay, grey/brown, dry, heterogeneous, non-plastic, soft, with inclusions of gravels (<0.5 cm).		
	-						
	0 <u>.5</u>					SB9_0.5m PID = 1.3 ppm	No odours, staining or asbestos observed.
	_						
	_						
	-	0.80		CL-SC	Sandy clay, brown, dry, homogeneous, non-plastic, soft.		
	1.0						
		1.00		CL	Reworked clay, brown/grey, dry, heterogeneous, high plasticity, dense, with inclusions of gravels.	SB9_1m PID = 1.7 ppm	No odours, staining or asbestos observed.
	_						
	_						
	-					SB9_1.5m PID = 2.3 ppm	No odours, staining or asbestos observed. End of hole at 1.5 m bgs Program depth.
		1.50			Borehole SB9 terminated at 1.5m		



Project Number: 58352 Client: Infrastructure NSW Project Name: Parramatta Powerhouse Site Address: Phillip Street, Parramatta

Date: 28-Feb-20 Logged By: JD Contractor: Terratest Total Hole Depth (mbgs): 1.5 Bore Diameter (mm): 100

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
SFA				Fill	Bitumen		
	-	0.10		Fill	Sandy clayey silt, brown, dry, heterogeneous, non-plastic, very soft, with inclusions of bitumen (2-5 mm).		
	-					SB10_0.2m	No odours, staining or asbestos
	_	0.30		CL-ML-SM	Sandy silty clay, brown, dry, homogeneous, non-plastic, soft.	SB10_0.2m PID = 3.8 ppm	observed.
		0.00		022 0			
	_						
	0 <u>.5</u>						
						SB10_0.5m PID = 3.1 ppm	No odours, staining or asbestos observed.
	_						
	_						
	_						
	_						
	1 <u>.0</u>						
						SB10_1m PID = 1.7 ppm	No odours, staining or asbestos observed.
	_						
	_						
	_	1.40		CL-ML-SM	Sandy silty clay, brown, dry, homogeneous, non-plastic, soft, medium grained sand, increased sand composition.	SB10 1.5m	No odours, staining or asbestos
	1.5	1.50			Borehole SB10 terminated at 1.5m	SB10_1.5m PID = 2.3 ppm	No odours, staining or asbestos observed. End of hole at 1.5 m bgs Program depth.
		1.00					



Project Number: 58352 Client: Infrastructure NSW Project Name: Parramatta Powerhouse Site Address: Phillip Street, Parramatta

Date: 28-Feb-20 Logged By: JD Contractor: Terratest Total Hole Depth (mbgs): 1.5 Bore Diameter (mm): 100

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
SFA	_	0.10		Fill	Bitumen Sandy clayey silt, brown, dry, heterogeneous, non-plastic, very soft, with inclusions of bitumen (2-5 mm).		
	_					SB11_0.2m PID = 5.1 ppm	No odours, staining or asbestos observed.
	0 <u>.5</u>	0.40		Fill	Reworked clay, grey/brown, dry, heterogeneous, non-plastic, soft, with inclusions of gravels (<0.5 cm).		
	_					SB11_0.5m PID = 2.4 ppm	No odours, staining or asbestos observed.
	_	0.80		CL-ML-SM	Sandy silty clay, black, damp, homogeneous, high plasticity, very dense.		
	- 1 <u>.0</u>						
	_					SB11_1m PID = 2.2 ppm	No odours, staining or asbestos observed.
	_						
						SB11_1.5m PID = 2.7 ppm	No odours, staining or asbestos observed. End of hole at 1.5 m bgs Program depth.
		1.50			Borehole SB11 terminated at 1.5m		



Project Number: 58352 Client: Infrastructure NSW Project Name: Parramatta Powerhouse Site Address: Phillip Street, Parramatta

Date: 28-Feb-20 Logged By: JD Contractor: Terratest Total Hole Depth (mbgs): 1.5 Bore Diameter (mm): 100

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
SFA	-	0.10		Fill Fill	Bitumen Sandy clayey silt, brown, dry, heterogeneous, non-plastic, very soft, with inclusions of bitumen (2-5 mm). Reworked clay, grey/brown, dry, heterogeneous, non-plastic, soft, with inclusions of gravels (<0.5 cm).	SB12_0.2m PID = 4 ppm	No odours, staining or asbestos observed.
	0 <u>.5</u> –	0.80				SB12_0.5m PID = 2.6 ppm	No odours, staining or asbestos observed.
BOREHOLE JBSG BOREHOLE - 2017.GPJ GINT STD AUSTRALIA.GDT 11-3-20	- 1 <u>.0</u> -	0.80		CL-ML-SM	Sandy silty clay, black, damp, homogeneous, high plasticity, very dense.	SB12_1m PID = 2.2 ppm	No odours, staining or asbestos observed.
	1.5	1.50			Borehole SB12 terminated at 1.5m	SB12_1.5m PID = 2.3 ppm	No odours, staining or asbestos observed. End of hole at 1.5 m bgs. Program depth.



Project Number: 58352 Client: Infrastructure NSW Project Name: Parramatta Powerhouse Site Address: Phillip Street, Parramatta

Date: 28-Feb-20 Logged By: JN Contractor: Terratest Total Hole Depth (mbgs): 1.5 Bore Diameter (mm): 200

BOREHOLE JBSG BOREHOLE - 2017.GPJ GINT STD AUSTRALIA.GDT 11-3-20

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
SFA		0.15		Fill	Concrete Gravelly sandy silt, dark brown, dry, heterogeneous, loose, with inclusions of gravels, bricks, tiles and terracotta.	SB13_0.2m PID = 16.1 ppm	No odours, staining or asbestos observed.
		0.50		CL-ML	Silty clay, gold/brown, dry, homogeneous, medium plasticity, firm.	SB13_0.5m PID = 17.4 ppm	No odours, staining or asbestos observed.
	_ 1 <u>.0</u> _					SB13_1m PID = 12 ppm	No odours, staining or asbestos observed.
	_					SB13_1.5m PID = 15.9 ppm	No odours, staining or asbestos observed. End of hole at 1.5 m bgs. Program depth.
	1.5	1.50			Borehole SB13 terminated at 1.5m		G



Project Number: 58352 Client: Infrastructure NSW Project Name: Parramatta Powerhouse Site Address: Phillip Street, Parramatta

Date: 28-Feb-20 Logged By: JD Contractor: Terratest Total Hole Depth (mbgs): 0.8 Bore Diameter (mm): 100

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
SFA	_			Fill	Sandy silt, dark brown, dry, heterogeneous, soft, with inclusions of mulch, brick and concrete (<0.5 cm).	SB14_0.2m	No odours, staining or asbestos
	_	0.30		Fill	Sandy silty clay, dark brown, dry, heterogeneous, non-palstic, soft, with inclusions of bricks (<0.5 cm) and gravels (<0.5-2 cm).	SB14_0.2m PID = 5.3 ppm	observed.
	0 <u>.5</u> 					SB14_0.5m PID = 4.6 ppm	No odours, staining or asbestos observed.
		0.80			Borehole SB14 terminated at 0.8m		End of hole at 0.8 m bgs. Refusal on dense/rocky fill.
	1 <u>.0</u>						
	_						
	1.5						



Project Number: 58352 Client: Infrastructure NSW Project Name: Parramatta Powerhouse Site Address: Phillip Street, Parramatta

Date: 28-Feb-20 Logged By: JD Contractor: Terratest Total Hole Depth (mbgs): 1.5 Bore Diameter (mm): 100 Eastings (GDA 94): Northings (GDA 94): Zone/Area/Permit#: Reference Level: Ground Surface Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
SFA				Fill	Sandy silt, dark brown, dry, heterogeneous, soft, with inclusions of mulch, brick and concrete (<0.5 cm).	SB15_0.2m PID = 1.8 ppm	No odours, staining or asbestos
		0.30		Fill	Sandy silty clay, dark brown, dry, heterogeneous, non-palstic, soft, with inclusions of bricks (<0.5 cm) and gravels (<0.5-2 cm).	PiD = 1.6 ppin	observed.
	_	0.70		Fill	Reworked clay, grey/black, dry, heterogeneous, low plasticity, soft.	SB15_0.5m PID = 1.7 ppm	No odours, staining or asbestos observed.
	_	1.20		Fill	Reworked clay, grey/brown, dry, heterogeneous, medium plasticity, dense.	SB15_1m PID = 2 ppm	No odours, staining or asbestos observed.
	1.5					SB15_1.5m PID = 1.9 ppm	No odours, staining or asbestos observed. End of hole at 1.5 m bgs. Program depth.
		1.50			Borehole SB15 terminated at 1.5m		

BOREHOLE JBSG BOREHOLE - 2017.GPJ GINT STD AUSTRALIA.GDT 11-3-20



Project Number: 58352 Client: Infrastructure NSW Project Name: Parramatta Powerhouse Site Address: Phillip Street, Parramatta

Date: 28-Feb-20 Logged By: JD Contractor: Terratest Total Hole Depth (mbgs): 1.5 Bore Diameter (mm): 100

Method Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
SFA	0.10		Fill	Bitumen Concrete		
	0.25		Fill	Sandy clayey silt, light brown, dry, heterogeneous, non-plastic, very soft, with inclusions of bitumen (2-5 mm).		
	-				SB16_0.3m PID = 4.7 ppm	No odours, staining or asbestos observed.
0 <u>.</u> 9	5				SB16_0.5m PID = 7.6 ppm	No odours, staining or asbestos observed.
	_					
	0.80		ML-SM	Sandy silt, light brown, dry, homogeneous, soft.		
1 <u>.(</u>	<u>)</u>				SB16_1m PID = 7.4 ppm	No odours, staining or asbestos observed.
	-					
1.5	5 1.50			Borehole SB16 terminated at 1.5m	SB16_1.5m PID = 8.7 ppm	No odours, staining or asbestos observed. End of hole at 1.5 m bgs. Program depth.



Project Number: 58352 Client: Infrastructure NSW Project Name: Parramatta Powerhouse Site Address: Phillip Street, Parramatta

Date: 28-Feb-20 Logged By: JN Contractor: Terratest Total Hole Depth (mbgs): 1.5 Bore Diameter (mm): 200

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
cc				Fill	Concrete		
SFA	_	0.30		Fill	Sandy silt, brown, dry, heterogeneous, loose, fine grained, with inclusions of gravels and asphalt.		
	0 <u>.5</u>					SB17_0.4m PID = 9.8 ppm	No odours, staining or asbestos observed.
	_					SB17_0.5m PID = 8.8 ppm	No odours, staining or asbestos observed.
	_						
	_						
-20	1.0						
A.GDT 11-3						SB17_1m PID = 10.9 ppm	No odours, staining or asbestos observed.
BOREHOLE JBSG BOREHOLE - 2017.GPJ GINT STD AUSTRALIA.GDT 11-3-20	_	1.10		ML-SM	Sandy silt, brown, dry, homogeneous, dense, fine grained.		
<u> </u>							
IBSG BOREHC	1.5					SB17_1.5m PID = 11.7 ppm	No odours, staining or asbestos observed. End of hole at 1.5 m bgs. Program depth.
OREHOLE .	1.0	1.50			Borehole SB17 terminated at 1.5m		



Project Number: 58352 Client: Infrastructure NSW Project Name: Parramatta Powerhouse Site Address: Phillip Street, Parramatta

Date: 28-Feb-20 Logged By: MN Contractor: Terratest Total Hole Depth (mbgs): 1.5 Bore Diameter (mm): 100

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
SFA	_			Fill	Sandy silt, brown, dry, heterogeneous, loose, fine grained, with inclusions of gravels and asphalt.	SB18_0.1m PID = 9 ppm	No odours, staining or asbestos observed.
	0.5					SB18_0.5m PID = 8.8 ppm	No odours, staining or asbestos observed.
BOREHOLE JBSG BOREHOLE - 2017.GPJ GINT STD AUSTRALIA.GDT 11-3-20	1.0	0.90		ML-SM	Sandy silt, brown, dry, homogeneous, dense, fine grained.	SB18_1m PID = 10.6 ppm	No odours, staining or asbestos observed.
30REHOLE JBSG BOREHOLE - 2017	- 1.5	1.50			Borehole SB18 terminated at 1.5m	SB18_1.5m PID = 10.1 ppm	No odours, staining or asbestos observed. QS04/QS04A collected. End of hole at 1.5 m bgs. Program depth.



Project Number: 58352 Client: Infrastructure NSW Project Name: Parramatta Powerhouse Site Address: Phillip Street, Parramatta

Date: 28-Feb-20 Logged By: MN Contractor: Terratest Total Hole Depth (mbgs): 1.5 Bore Diameter (mm): 100

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
SFA	_			Fill	Sandy silt, brown, dry, heterogeneous, loose, fine grained, with inclusions of gravels and asphalt.	SB19_0.1m PID = 39.7 ppm	No odours, staining or asbestos observed.
	 0 <u>.5</u>					SB19_0.5m PID = 35.7 ppm	No odours, staining or asbestos observed.
	_						
STD AUSTRALIA.GDT 11-3-20	1 <u>.0</u>	1.10		ML-SM	Sandy silt, brown, dry, homogeneous, dense, fine grained.	SB19_1m PID = 41.8 ppm	No odours, staining or asbestos observed.
BOREHOLE JBSG BOREHOLE - 2017.GPJ GINT STD AUSTRALIA.GDT 11-3-20	1.5					SB19_1.5m PID = 16.2 ppm	No odours, staining or asbestos observed. End of hole at 1.5 m bgs. Program depth.
BOREHOLE J	1.0	1.50			Borehole SB19 terminated at 1.5m		



Project Number: 58352 Client: Infrastructure NSW Project Name: Parramatta Powerhouse Site Address: Phillip Street, Parramatta

Date: 28-Feb-20 Logged By: MN Contractor: Terratest Total Hole Depth (mbgs): 1.5 Bore Diameter (mm): 100

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
SFA	0.5			Fill	Sandy silt, brown, dry, heterogeneous, loose, fine grained, with inclusions of rootlets.	SB20_0.2m PID = 6 ppm	No odours, staining or asbestos observed.
20	-	0.50		CL-ML	Silty clay, brown/red, damp, heterogeneous, high plasticity, soft.	SB20_0.5m PID = 5.4 ppm	No odours, staining or asbestos observed.
		1.00		CL-ML	Silty clay, brown/red, damp, heterogeneous, medium plasticity, soft.	SB20_1m PID = 3.2 ppm SB20_1.5m PID = 3.3 ppm	No odours, staining or asbestos observed. No odours, staining or asbestos observed. End of hole at 1.5 m bgs. Program depth.
	1.5	1.50			Borehole SB20 terminated at 1.5m		Program depth.



MW1

Project Number: 58352 Client: Infrastructure NSW Project Name: Parramatta Powerhouse Site Address: Phillip Street, Parramatta

Date: 28-Feb-20 Logged By: JN Contractor: Terratest Total Hole Depth (mbgs): 6 Bore Diameter (mm): 200 Eastings (GDA 94): Northings (GDA 94): Zone/Area/Permit#: Reference Level: Ground Surface Elevation (m): Water Level Initial (mbgs): 3.5 Surface Finish: Roadbox Casing / Screen Type: Class 18 PVC - 50mm Casing Bottom Depth (mbgs): 3 Screen Bottom Depth (mbgs): 6

	Method	Water (mbgs)	Well Details	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
	с С					\otimes	Fill	Concrete		
	(mu			_	0.12		CL-GS	Gravelly sandy clay, dark brown, damp, heterogeneous, medium plasticity, firm, with inclusions of gravels and brick.	MW1_0.2m PID = 26.4 ppm	Slight odour, no staining or asbestos
	200r		99					·······	PID = 26.4 ppm	observed.
	SFA (200mm) CC		99							
	<i>"</i>		99	_	0.50		CL-ML	Silty clay, gold/brown, dry, homogeneous, medium plasticity, firm to stiff.	MW1_0.5m PID = 59.4 ppm	Slight odour, no staining or asbestos observed.
				1						
	Ē	ĺ	X X						MW1_1m PID = 23.2 ppm	No odours, staining or asbestos observed.
	SFA (125mm)		NUNUNUNUNUNUNUNUNUNUNUNUNUNUNUNUNU	_						
									MW1_1.5m PID = 20.2 ppm	No odours, staining or asbestos observed.
			NCNCA	-						observed.
			54 KY	2					MW1_2m PID = 18.2 ppm	No odours, staining or asbestos
									PID = 18.2 ppm	observed.
		ļ		3					MW1_3m PID = 12 ppm	No odours, staining or asbestos
				-						observed.
				_	3.50		CL-SC	Sandy clay, brown, moist, homogeneous, high plasticity, soft to firm.	MW1_3.5m PID = 14.6 ppm	No odours, staining or asbestos observed.
				4					MW/1 dro	
			日						MW1_4m PID = 8.9 ppm	No odours, staining or asbestos observed.
T STD AUSTRALIA.GDT 11-3-20				_ _ 5					MW1.5m PID = 16.2 ppm	No odours, staining or asbestos observed.
JBSG WELL - 2017.GPJ GINT STD AUSTRALIA.GDT				6	6.00			Borehole MW1 terminated at 6m	MW1_6m PID = 10.3 ppm	No odours, staining or asbestos observed. End of hole at 6.0 m bgs. Program depth.
WELL				_						
۶L										



MW2

Project Number: 58352 Client: Infrastructure NSW Project Name: Parramatta Powerhouse Site Address: Phillip Street, Parramatta

Date: 28-Feb-20 Logged By: JN Contractor: Terratest Total Hole Depth (mbgs): 4 Bore Diameter (mm): 200 Eastings (GDA 94): Northings (GDA 94): Zone/Area/Permit#: Reference Level: Ground Surface Elevation (m): Water Level Initial (mbgs): 1.5 Surface Finish: Roadbox Casing / Screen Type: Class 18 PVC - 50mm Casing Bottom Depth (mbgs): 2 Screen Bottom Depth (mbgs): 4

Method	Water (mbgs)	Well Details		Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
SFA		TANANAN	THE REAL PARTY	_			Fill	Silty sand, dark brown, dry, homogeneous, loose, fine grained, with inclusions of gravels.	MW2_0.1m PID = 14.2 ppm	No odours, staining or asbestos observed.
				_					MW2 0.5m PID = 12.6 ppm	No odours, staining or asbestos observed.
				_1					MW2_1m PID = 10.2 ppm	No odours, staining or asbestos observed.
		-		_	1.50		Fill	Silty sand, dark brown, moist, homogeneous, loose, fine grained, with inclusions of gravels.	MW/2_1.5m PID = 9.4 ppm	No odours, staining or asbestos observed.
				2	2.00		SANDSTONE	Sandstone, gold/brown, moist, homogeneous, hard, fine grained.	MW2 2m PID = 129 ppm	No odours, staining or asbestos observed.
				3		· · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · ·				
				_	3.00		SANDSTONE	Sandstone, grey with gold mottles, saturated, homogeneous, hard, fine grained.	MVI2.3m PID = 16.4 ppm	No odours, staining or asbestos observed.
WELL JBSG WELL - 2017.GPJ GINT STD AUSTRALIA.GDT 11-3-20					4.00			Borehole MW2 terminated at 4m	MW2.4m PID = 25.3 ppm	No odours, staining or asbestos observed. End of hole at 4.0 m bgs. Program depth.



MW3

Project Number: 58352 Client: Infrastructure NSW Project Name: Parramatta Powerhouse Site Address: Phillip Street, Parramatta

Date: 28-Feb-20 Logged By: JN Contractor: Terratest Total Hole Depth (mbgs): 4 Bore Diameter (mm): 200 Eastings (GDA 94): Northings (GDA 94): Zone/Area/Permit#: Reference Level: Ground Surface Elevation (m): Water Level Initial (mbgs): 1.5 Surface Finish: Roadbox Casing / Screen Type: Class 18 PVC - 50mm Casing Bottom Depth (mbgs): 2 Screen Bottom Depth (mbgs): 4

Method	Water (mbgs)	Well Details	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
(mm0						Fill	Silty sand, brown, dry, heterogeneous, loose, fine grained, with inclusions of gravels and roots.	MW3 0.1m PID = 17.6 ppm	No odours, staining or asbestos
SFA (200mm)				0.20		Fill	Sandy clayey silt, brown, damp, heterogeneous, dense, fine grained, with inclusions of bricks, terracotta, concrete and gravels.	MW3_0.5m PID = 11.8 ppm	observed. No odours, staining or asbestos observed.
								MW3_1m PID = 123.3ppm	No odours, staining or asbestos observed.
SFA (125mm)			-	1.50		Fill	Sandy clayey silt, brown, moist, heterogeneous, dense, fine grained, with inclusions of bricks, terracotta, concrete and gravels.		
								MW3_2m PID = 7.8 ppm	Very slight odour, grey staining or no asbestos observed.
			3	3.00		Fill	Sandy clayey silt, brown, saturated, heterogeneous, dense, fine grained, with inclusions of bricks, terracotta, concrete and gravels.	MW3.3m PID = 5.2 ppm	No odours, staining or asbestos observed.
WELL JBSG WELL - 2017.GPJ GINT STD AUSTRALIA.GDT 11-3-20			4	4.00			Borehole MW3 terminated at 4m	MW3.4m PID = 6.8 ppm	No odours, staining or asbestos observed. End of hole at 4.0 m bgs. Program depth.



Appendix J Laboratory Certificates and Chain of Custody Documentation



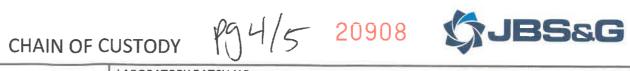
DROIFOT NO. MARK STA	n KO	7		
PROJECT NO .: VENNENCE	N 58	552		LABORATORY BATCH NO.:
PROJECT NAME: Parro			louse	SAMPLERS: JN, JD, + MN
DATE NEEDED BY: Sto				QC LEVEL: NEPM (2013)
PHONE: Sydney: 02 8245 0	300 Perth:	08 9488 0100 Bri	sbane: 07 3112 2688	
SEND REPORT & INVOICE T	0: (1) admin	nsw@jbsg.com.au;	(2) AMICHOLSON)jbsg.com.au; (3)
COMMENTS / SPECIAL HANDLING / ST	ORAGE OR DISPOS	AL:		TYPE OF THE TYPE OF
				HCAY HOLD HODOW
				PH HOLD PH HOL
		1		8 0 0 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
SAMPLE ID	MATRIX	DATE TIME	TYPE & PRESERVATIVE	pH HCAV Metal PAH / VOC / STATE AS A PAN A
581-0.2	Soil	28/2/20	J+B	\times \times \times \times \times
581-0.5	1		B	
_ 1.0			B	
- 1.5			1 478	
582-0.2			J+B	X
~ 0.5			B	
- 1.0			L	
583-0.2			J+B	
- 0.5			B	
- V.G			1	
584 -0.3			B	
- 1.5 584 - 0.2 - 0.5			3	
58M - 1.0			ASS	
- 1.5				
585-0.2			B+J	
- 1.0	+ +		D'J	
SB6 -0.2				
			J+B	
- 1.0			7	
- 1-5			ASS	
RELINQUISHED E NAME: DATE:	34:	CONSIGNMENT	METHOD OF SHIPMENT:	RECEIVED BY: FOR RECEIVING LAB USE ONLY: NAME: 203170 COOLER SEAL – Yes No Intact Broken
Allapar.	2/3/2	0		DATE: WPW 20310 COOLER SEAL - Yes No Intact Broken OF: 4:56? COOLER TEMP
OP:JBS&G		TRANSPORT CO		
NAME: DATE:		CONSIGNMENT	NOTE NO.	NAME: DATE: COOLER SEAL – Yes No Intact Broken OF: COOLER SEAL – Yes No No
OF:		TRANSPORT CO		COOLER TEMP deg C
Container & Preservative Codes: P =	Plastic; J = Soil Jar;	B = Glass Bottle; N = Nitric	Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC	C = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other
MSO FormsO13 - Chain of Custody -	Generic			



PROJECT NO.:	*					LA	BO	RAT	ORY	BA	TCH NO.:		_					
		tta	Powe	erhouse		SAMPLERS: JN, JD + MN												
	tanda										(2013)							
PHONE: Sydney: 02 8245 0			100 Brisba	ane: 07 3112 2688														
SEND REPORT & INVOICE T	O: (1) adminr	nsw@jbsg	.com.au; (2) JNICholson @	jbsg.com.	au;	(3).				@j	osg.com	ı.au					
COMMENTS / SPECIAL HANDLING / ST							PAH	TRH/VO	OCA /PCBS	ksbesto	Hold					ASB		* NEPM Sooml
SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pН	ctal		5	BS	°¥						IDENTIF	NEPM/WA	NOTES:
SB7_0.2	soil	28/2/	20	B		pe	VXV	_		M								
- 0.5	1	1		J+B		X	X			X								
- 1.0				۲		×	X											
588 - 0.2				J+B			X		1	X								
_ 0.5				B							X							
-1.0				2		×	Х											
- 1.5				ASS			-				X							
589-02				B							X							
- 6 5				J+B		X	X			X								
- 1.5				J							X							
5B10 - 0.2				J+B		X	X			X								
- 0.5				ASS							X							
-1.5				7							X							
5811 - D.Z				B							X							
_ 0.5				J+B		Х	X			X								
- 1.5				L							X							
5812 - 0.2				J+B		X	X		X	\times								
- 0.5				B							X							
	V	\checkmark		7							\times							
RELINQUISHED E	BY:			METHOD OF SHIPMENT:			AME(RE	CEIV	ED BY:		- du - du		OR RECE			
NAME: DATE:	2/3/20								pa	м	02/03	COOLER SEAL – Yes No Intact Broken COOLER TEMP deg C					Broken	
NAME: DATE:			GNMENT NO	DTE NO.		OF NA OF	ME:		-		DATE:	coo	LER SEA	L – Yes.,,	No	Int	tact	Broken
	Plastic: J = Soil Jar J		SPORT CO e: N = Nitric Acid	d Prsvd.; C = Sodium Hydroxide Prsvd; VC	- Hydrochlor	ic Aci	d Dece	ud Vi-	al. 1/C -	- CIf	uric Acid Draud Vials C	COO	LER TEN	1P d	eg C	DTAD	nud. C7	Garda Dablas C., Other



PROJECT NO.:	100				LA	BOF	ATOR	Y BA	TCH NO.:							
PROJECT NAME: Parr	anat	a Pou	serhouse		SA	MP	LERS:	J	N,J	D÷	MN					
DATE NEEDED BY: 5+	anda	rd							(2013)							
PHONE: Sydney: 02 8245 03	300 Perth: (08 9488 01	00 Brisbane: 07 3112 2688													
SEND REPORT & INVOICE T	O: (1) admini	nsw@jbsg.c	com.au; (2) J. NICHOLSON	@jbsg.com	au; (3)				@jl	sg.com.au	J				
COMMENTS / SPECIAL HANDLING / STO	DRAGE OR DISPOS	AL:			ま	44	200	t.						TY	PE OF BESTOS	alt
					4	Ŧ	4 4	be	Ho					AN	ALYSIS	* NEPM
					3		2 V	5	9					TOITA.	A	500
SAMPLE ID	MATRIX	DATE	TIME TYPE & PRESERVAT	IVE pH	etals		PEH/VOC	sofes#						IDENTIFICATION	NEPM/WA	NOTES:
6813-0·2	Soil	28/2/	20 J+B		X	X	XХ	X							-	
- 0.5	1	1	1		X											
- 1.0			2					anna Anna	X							
-1.5			2						X							
SB14 - 0.2			J+B						X							
- 0.5			JrB		X	X		X								
5815- 0.2			B						X							
- 0.5			J+B						X							
- 1.0			B						\times							9
-1.5			J+B		\times	\times		X								
5816-0.3			J+B		X	X		X								
- 0.5			J+B						×		_					
- 1.0			7						X							
- 1.5			۲		VKA	1241		12Ka	X							
SB17 - 0.4			J+B						X							
- 0.5			J+B						X							
~ 1.0			J+B		X	X		X								
- 1.5			J						Х							
5818 - 0.1	-V	4	1+8		X	X		X								
RELINQUISHED E	BY:	001/0	METHOD OF SHIPMENT:			N 4 5		RECEIN	/ED BY:	1.6	000000	0.5.1				SE ONLY:
NAME: DATE:	2/3/2		GNMENT NOTE NO.		DA DA	ME: TE:	fri	pour	J 67	103		SEAL - Ye		in	tact	Broken
NAME: DATE:	_1 *		GNMENT NOTE NO.			ME:	1	-	DAT	E:				Ir	itact .,	Broken
OF:			SPORT CO								COOLER	TEMP	deg C			
Container & Preservative Codes: P = I	Plastic; J = Soil Jar;	B = Glass Bottle	; N = Nitric Acid Prsvd.; C = Sodium Hydroxide	Prsvd; VC = Hydrochlo	ic Acid	Prsv	d Vial; V	S = Sult	uric Acid Prsy	vd Vial; S =	Sulfuric Acid P	rsvd; Z = Zi	inc Prsvd; E	= EDTA Pr	svd; S⊺	= Sterile Bottle; O = Other



PROJECT NO .:	F					L	ABO	RAT	ORY	BAT	CH NO.:						_		
PROJECT NAME: Pour	ranet	tta	Powe	rhouse			_				JD +	MN		_					
	tande					Q	C LE	VEL	: NEI	PM	(2013)	1							
PHONE: Sydney: 02 8245 0			100 Brisk	oane: 07 3112 2688							. ,								
SEND REPORT & INVOICE T	ГО: (1) admin	nsw@jbs	.com.au; (2) INICholson @	jbsg.com.	.au;	(3).				a	ibsg.cor	n.au						
COMMENTS / SPECIAL HANDLING / ST	ORAGE OR DISPOS	AL:					0	1	Q	>	-						TYPE C)F	
						0	PA	PT	G.	5	0						ASBES	TOS 'SIS	* NEDON
					4	Ĉ	-	TRH/VOCS	4	C	S-						0		2 m m 1
			1			3		6	5	ð í							IDENTIFICATION	A/WA	NOTES:
SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	рН	eta		S	5	*							IDEN	NEPN	NOTES:
5B18 _ 0.5	soil	28/2	20	J+B		5					X								
- 1.0		1		2							X								
- 1.5				L		X	X												
5819-0.1				J+B							X								
_ 0.5				J+B							X								
- (.0				J+B		X	X	X		X									
-1.5				ز				X										+	
5820 _ · O·2				JAB		X	X	- 1		X									
_ 0.5				٢		1					X								
-1.0				7							X								
- 1.0				7						1	X								
MW1 _ 0.2				J+B+ASS		X	X	X	X									+	
- 0.5				2			X	X											
- 1.0				7							X								
- 1-5				J+ASS							X								
- 4.0				1 + ASS						j.	X								
-5.0				1							X								
- 6 0				ک							X								
MW2 - 0.1	V	¥		JTB		\geq	X	X		X									
RELINQUISHED	BY:			METHOD OF SHIPMENT:					RE	CEIVE	D BY:				FOR R	ECEIVI	NG LA	B USE	ONLY:
NAME: DATE: OF: JBS&G	2/3/20	o I	SIGNMENT N	OTE NO.		D/ D/	AME: ATE: 	h	p	av	02/03				es No				Broken
NAME: DATE:			SIGNMENT N	OTE NO.		-	AME:		-1-		DATE:				deg C es No)	Intac	:t	Broken
OF:			ISPORT CO									coc	DLER TE	MP	deg C				
Container & Preservative Codes: P = MSO FormsO13 – Chain of Custody -	Plastic; J = Soil Jar;	B = Glass Bott	le; N = Nitric Ad	cid Prsvd.; C = Sodium Hydroxide Prsvd; VC	= Hydrochloi	ric Aci	d Prs	vd Via	l; VS =	Sulfu	ric Acid Prsvd Vial; S	= Sulfuric A	cid Prsv	d; Z = Z	nc Prsvd;	E = EDT	A Prsvd	; ST =	Sterile Bottle; O = Other

CHAIN OF CUSTODY



PROJECT NO.: 5	F					LA	BOR	ATOR	Y BAT	CH N	10.:							
PROJECT NAME: Pourro		9 F	owert	rouse		SA	MPI	ERS:	11	2,5	D+C	mN						
DATE NEEDED BY: Stan						QC	: LE\	/EL: N	EPM (2013	3)							
PHONE: Sydney: 02 8245 030																		
			g.com.au; (2) JN chalson jbsg	g.com.a	iu; (:	3)					₽jbsg.co	m.au					
COMMENTS / SPECIAL HANDLING / STOR	AGE OR DISPOSA	iL:				He	HAD	28	唐七	5	in						TYPE OF ASBESTOS	* NEPM
						PCANY		RH	Se	91	1						ASBESTOS ANALYSIS	500ml
						2		N N	1	7	5 ×						ATION	
SAMPLE ID	MATRIX	DATE	TIME		-11	Metal		ACBS	estos#		Z						IDENTIFICATION	
	MATRIX			TYPE & PRESERVATIVE	рН	Š.	_	-			_						Ŭ Đ	NOTES:
mw2 - 0.5	soil	28/2	1/20	J+B			_	_		X	_					_	_	
-1.0		1		J+B			_			<	_					_		
-1.5				J+B		_	_	_		X	_							
- 2.0) L						X X	_							
- 3.0				2						X								
_ 4.0				1 + ASS		X	X	X X X										
MW3 - 0.1				J+B		\times	\times	XХ	\times									
-1.0				J+B		X												
- 2.0				J+B						X								
- 3.0				1						X								
- 4.0	\checkmark	- V		٢						X								
QSOI	1					X	X											
RSOZ						\times												
Q 503						X												
QS04	J									\times								
rinsate	Water	28/2	ZĎ	2xvials and metal		X	X	×Х										
TS	1	27/2/	20	Zx vials							X							
TS TB		J.		V						2	$< \times$							
2																		
RELINQUISHED BY:				METHOD OF SHIPMENT:				F	RECEIVE	D BY:					FOR R	ECEIVIN	G LAB L	JSE ONLY:
NAME: DATE:			NSIGNMENT NO	OTE NO.			ME: TE:		our	D	2403	CO	OLER S	EAL – Ye	s No		Intact	Broken
OF: BS&G	2/3/20	O TRA	NSPORT CO.			DA OF:		mp			1	co	OLER T	EMP	. deg C			
NAME: DATE:			VSIGNMENT N	OTE NO.		NA	ME:				DATE:					·	Intact .	Broken
OF:		TD	NSPORT CO			OF:	:							EMD	dog C			
	stic: J = Soil Jar:			id Prsvd.: C = Sodium Hydroxide Prsvd: VC = Hy	/drochlori	c Acid	Prsvi	d Vial: V	5 = Sulfu	ric Aci	d Prsvd Vial			EMP		F = FDTA	Prsvd· S	Γ = Sterile Bottle: Ω = Other



Environment Testing Melbourne 6 Monterey Road Unit F3, Building F Unit F3, Building F Dandenong South Vis 3175 16 Mars Road Place Murarrie QLD 4172 Phone : +61 3 8564 5000 NATA # 1261 Site # 1254 & 14271 NATA # 1261 Site # 16217

Perth 2/91 Leach Highway Kewdale WA 6105 Phone : +61 8 9251 9600 NATA # 1261 Site # 23736

ABN - 50 005 085 521

e.mail : EnviroSales@eurofins.com web : www.eurofins.com.au

Sample Receipt Advice

JBS & G Australia (NSW) P/L

Julia Nicholson
PARRAMATTA POWERHOUSE
58352
Not provided
5 Day
Mar 2, 2020 4:56 PM
705373

Sample information

Company name:

- A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- Sample Temperature of a random sample selected from the batch as recorded by Eurofins Sample Receipt : 5.5 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.
- \mathbf{V} Appropriate sample containers have been used.
- Sample containers for volatile analysis received with zero headspace.
- \boxtimes Split sample sent to requested external lab.
- \boxtimes Some samples have been subcontracted.
- Custody Seals intact (if used). Notes^{N/A}

NO BAG received for sample: SB2 1.0, hence asbestos analysis cancelled.

Contact notes

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

Ursula Long on Phone : or by e.mail: UrsulaLong@eurofins.com

Results will be delivered electronically via e.mail to Julia Nicholson - jnicholson@jbsg.com.au.

•		fine				Austral	lia											New Zealand	
	50 005 085 521	web : www.eurofin		nment Te ail : EnviroSales@eur	esting	Melbour 6 Monter Dandenc Phone : - NATA # Site # 12	ey Road ng Sout +61 3 85 1261	h VIC 3 64 500	175 0	Sydney Unit F3, 16 Mars Lane Co Phone : NATA #	, Buildin s Road ove We : +61 2	est NSW 9900 84	00	Murai Phone	Smallwoo rie QLD e : +61 7	od Place 4172 3902 4600 Site # 20794	Perth 2/91 Leach Highway Kewdale WA 6105 Phone : +61 8 9251 9600 NATA # 1261 Site # 23736	Auckland 35 O'Rorke Road Penrose, Auckland 1061 Phone : +64 9 526 45 51 IANZ # 1327	Christchurch 43 Detroit Drive Rolleston, Christchurch 767 Phone : 0800 856 450 IANZ # 1290
	mpany Name: dress:	JBS & G Aus Level 1, 50 N Sydney NSW 2000	stralia (NSW) ⁄largaret St	P/L			Re	rder N eport none: ax:	#:		70537)2 824	-	0				Received: Due: Priority: Contact Name:	Mar 2, 2020 4:56 PM Mar 9, 2020 5 Day Julia Nicholson	
	oject Name: oject ID:	PARRAMAT 58352	TA POWERH	OUSE													Eurofins Analytica	l Services Manager : Ur	sula Long
		Sa	mple Detail			Asbestos - WA guidelines	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	Eurofins mgt Suite B13	BTEX and Naphthalene	Volatile Organics	Moisture Set	Total Recoverable Hydrocarbons	BTEXN and Volatile TRH				
Melk	ourne Laborate	ory - NATA Site	# 1254 & 142	271															
Syd	ney Laboratory	- NATA Site # 1	8217			Х	X	х	х	х	х	X	х	х	x				
Bris	bane Laborator	y - NATA Site #	20794							ļ'	<u> </u>								
Pert	h Laboratory - I	NATA Site # 237	'36							ļ'	<u> </u>	ļ							
Exte	rnal Laboratory	/		1						ļ'	<u> </u>								
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID														
1	SB1_0.2	Feb 28, 2020		Soil	S20-Ma02488	X		Х	X	Х	_	X	Х	Х					
2	SB1_1.5	Feb 28, 2020		Soil	S20-Ma02489			Х	X	↓ '	—	X	Х	Х	\mid				
3	SB2_1.0	Feb 28, 2020		Soil	S20-Ma02490	_		Х	X	↓ '	—	X	Х	Х	\mid				
4	SB3_0.2	Feb 28, 2020		Soil	S20-Ma02491	X				├ ──'	—	-			\mid				
5	SB3_1.5	Feb 28, 2020		Soil	S20-Ma02492		-	Х	Х	 '	—	<u> </u>	Х						
6	SB4_0.2	Feb 28, 2020		Soil	S20-Ma02493	X				├ ──'	—	<u> </u>							
7	SB4_0.5	Feb 28, 2020		Soil	S20-Ma02494	_	-	Х	X	↓ '	—		Х						
8	SB5_0.2	Feb 28, 2020		Soil	S20-Ma02495	X		Х	X	├ ──'	—	X	Х	Х	\mid				
9	SB5_1.0	Feb 28, 2020		Soil	S20-Ma02496			Х	X	<u> </u>	—	<u> </u>	Х		\mid				
10	SB6_0.2	Feb 28, 2020		Soil	S20-Ma02497	Х		Х	Х	Х	\square	Х	Х	Х					

	fine		ŀ	Austral	ia											New Zealand	
ABN - 50 005 085 521	Envir	onment Test	ing	Melbourn Monterno Dandeno Phone : 4 NATA # 1 Site # 12	ey Road ng South 61 3 856 261	n VIC 3 64 5000	175 ⁻ 0 I	Sydney Unit F3, 16 Mars Lane Co Phone : NATA #	, Buildin s Road ove We: : +61 2 §	st NSW 9900 84	00	Murar Phone	Smallwoo rrie QLD e : +61 7	od Place 4172 7 3902 4600 Site # 20794	Perth 2/91 Leach Highway Kewdale WA 6105 Phone : +61 8 9251 9600 NATA # 1261 Site # 23736	Auckland 35 O'Rorke Road Penrose, Auckland 1061 Phone : +64 9 526 45 51 IANZ # 1327	Christchurch 43 Detroit Drive Rolleston, Christchurch 7 Phone : 0800 856 450 IANZ # 1290
Company Name: Address:	JBS & G Australia (NSW Level 1, 50 Margaret St Sydney NSW 2000	V) P/L			Re	der N port one: x:	#:		70537:)2 824	3 15 030	0				Received: Due: Priority: Contact Name:	Mar 2, 2020 4:56 PN Mar 9, 2020 5 Day Julia Nicholson	I
Project Name: Project ID:	PARRAMATTA POWEF 58352	RHOUSE													Eurofins Analytica	I Services Manager : Ur	sula Long
	Sample Detai	1		Asbestos - WA guidelines	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	Eurofins mgt Suite B13	BTEX and Naphthalene	Volatile Organics	Moisture Set	Total Recoverable Hydrocarbons	BTEXN and Volatile TRH				
	ory - NATA Site # 1254 & 1	4271		_			<u> </u>	└──┤	<u> </u>								
	- NATA Site # 18217			X	X	Х	Х	Х	Х	X	Х	Х	X				
	y - NATA Site # 20794						├ ──	┝──┦	──								
Perth Laboratory - N			0.14-00400	V		×		┝──┦	├──		×						
11 SB7_0.5 12 SB7_1.0	Feb 28, 2020 Feb 28, 2020		0-Ma02498 0-Ma02499	X		X X	X X		<u> </u>		X X						
	Feb 28, 2020		0-Ma02499 0-Ma02500	x		X	X	┌──┤	<u> </u>	x	X	Х					
13 <u>388_0.2</u> 14 SB8_1.0	Feb 28, 2020		0-Ma02500			X	X		<u> </u>		X						
15 SB9_0.5	Feb 28, 2020		0-Ma02501	x		X	X				X						
	Feb 28, 2020		0-Ma02503	X		X	X	 			X						
	Feb 28, 2020		0-Ma02504	X		X	X				X						
18 SB12_0.2	Feb 28, 2020		0-Ma02505	X		X	X	х			X						
19 SB13_0.2	Feb 28, 2020		0-Ma02506	X		Х	X	X		x	X	х					
20 SB13_0.5	Feb 28, 2020		0-Ma02507	1		X	X			X	X	X					
21 SB14_0.5	Feb 28, 2020		0-Ma02508	x		Х	X				X						
						х	х				х						
22 SB15_1.5	Feb 28, 2020	Soil S2	0-Ma02509	X					1								

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ABN - 50 005 085 521		e.mail : EnviroSales@	Testing	Melbour 6 Monter Dandeno Phone : - NATA # Site # 12	ey Road ng Sout ⊦61 3 85 1261	h VIC 3 64 5000	0 0	Sydney Unit F3, 16 Mars Lane Co Phone : NATA #	, Buildir s Road ove We : +61 2	st NSW 9900 84	00	Murar Phone	ane smallwood Pla rie QLD 4172 e : +61 7 3902 # 1261 Site #	2 2 4600	Perth 2/91 Leach Highway Kewdale WA 6105 Phone : +61 8 9251 9600 NATA # 1261 Site # 23736	Auckland 35 O'Rorke Road Penrose, Auckland 1061 Phone : +64 9 526 45 51 IANZ # 1327	Christchurch 43 Detroit Drive Rolleston, Christchurch 7 Phone : 0800 856 450 IANZ # 1290
Company Name: Address:	JBS & G Australia (Level 1, 50 Margare Sydney NSW 2000	,			Re Ph	der N eport none: ix:	#:		70537)2 824	3 15 030	0				Received: Due: Priority: Contact Name:	Mar 2, 2020 4:56 PM Mar 9, 2020 5 Day Julia Nicholson	1
Project Name: Project ID:	PARRAMATTA PO 58352	WERHOUSE													Eurofins Analytica	l Services Manager : Ui	sula Long
	Sample [Asbestos - WA guidelines	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	Eurofins mgt Suite B13	BTEX and Naphthalene	Volatile Organics	Moisture Set	Total Recoverable Hydrocarbons	BTEXN and Volatile TRH				
	ory - NATA Site # 1254	& 14271					<u> </u>										
	- NATA Site # 18217			X	X	Х	X	X	Х	X	Х	Х	X				
	ry - NATA Site # 20794						<u> </u>	<u> </u>									
Perth Laboratory - 1 24 SB17_1.0		Soil	S20-Ma02511	X		х	x				х						
24 SB17_1.0 25 SB18 0.1	Feb 28, 2020 Feb 28, 2020	Soil	S20-Ma02511 S20-Ma02512			X	X	<u> </u>			X						
26 SB18_0.1	Feb 28, 2020	Soil	S20-Ma02512			X	X	+'			X						
27 SB19_1.0	Feb 28, 2020	Soil	S20-Ma02514			X	X			x	X	х					
28 SB19_1.5	Feb 28, 2020	Soil	S20-Ma02515							X	X	X					
29 SB20_0.2	Feb 28, 2020	Soil	S20-Ma02516			х	x		1		х						
30 MW1_0.2	Feb 28, 2020	Soil	S20-Ma02517			х	х	х		X	х	х					
31 MW1_0.5	Feb 28, 2020	Soil	S20-Ma02518			х	х			х	х	х					
32 MW2_0.1	Feb 28, 2020	Soil	S20-Ma02519			х	х			х	х	Х					
33 MW2_4.0	Feb 28, 2020	Soil	S20-Ma02520			х	х			х	х	х					
34 MW3_0.1	Feb 28, 2020	Soil	S20-Ma02521			х	х	Х		х	Х	Х					
						Х	Х				Х						
35 MW3_1.0	Feb 28, 2020	Soil	S20-Ma02522			~	· ^				X						

Company Name: JBS of Address: Level Sydn NSW	Enviro w.eurofins.com.au e.r & G Australia (NSW) 1, 50 Margaret St ey 2000 RAMATTA POWERI	HOUSE	esting	Melbour 6 Monter Dandenc Phone : - NATA # Site # 12 Asbestos - WA guidelines	rey Roa ong Sou +61 3 8 1261 254 & 1 C R R	th VIC 3 564 500	175 0 10.: #:	Phone : NATA # 7	Buildir Road bye We +61 2 1261 \$ 70537 2 824	est NSW 9900 840 Site # 18	00 217	Murarri Phone NATA : Tota	mallwood Place ie QLD 4172 : +61 7 3902 460 # 1261 Site # 207	94 NATA # 1261 Site # 23736 Received: Due: Priority: Contact Name:	Auckland 35 O'Rorke Road Penrose, Auckland 1061 Phone : +64 9 526 45 51 IANZ # 1327 Mar 2, 2020 4:56 PM Mar 9, 2020 5 Day Julia Nicholson	Christchurch 43 Detroit Drive Rolleston, Christchurch 7 Phone : 0800 856 450 JANZ # 1290
Address: Level Sydn NSW Project Name: PARI Project ID: 5835	1, 50 Margaret St ey 2000 RAMATTA POWERI 2	HOUSE		Asbestos - WA guidelines	R P F	eport hone: ax: Polycyclic	#: Metals	C	BTEX	45 030	Moisture	Total Rec	BTEXN	Due: Priority: Contact Name:	Mar 9, 2020 5 Day Julia Nicholson	sula Long
Project ID: 5835 Melbourne Laboratory - NAT Sydney Laboratory - NATA	2			Asbestos - WA guidelines	HOLD	Polycyclic Aromatic Hy	Metals M8	Eurofins mgt Sui	BTEX and Nap	Volatile Orga	Moisture Se	Total Rec	BTEXN	Eurofins Analytic	al Services Manager : Urs	sula Long
Sydney Laboratory - NATA	Sample Detail			Asbestos - WA guidelines	HOLD	Polycyclic Aromatic Hy	Metals M8	Eurofins mgt Sui	BTEX and Nap	Volatile Orga	Moisture Se	Total Rec	BTEXN			
Sydney Laboratory - NATA						drocarbons		te B13	and Naphthalene	nics	yt	Recoverable Hydrocarbons	BTEXN and Volatile TRH			
		4271														
Brisbano Laboratory - NAT/				X	X	Х	Х	X	Х	X	Х	X	X			
					_											
Perth Laboratory - NATA Sit																
37 QS02 Feb 28,		Soil	S20-Ma02524			X	X				X					
38 QS03 Feb 28,		Soil	S20-Ma02525			X	X	~			Х					
39 RINSATE Feb 28,		Water	S20-Ma02526			Х	Х	Х	v	X		X				
40 TS Feb 27, 41 TB Feb 27,		Water	S20-Ma02527						Х				×			
		Water Soil	S20-Ma02528		x								X			
42 SB1_0.5 Feb 28, 43 SB1_1.0 Feb 28,		Soil	S20-Ma02529 S20-Ma02530		X						-+					
43 SB1_1.0 Feb 28, 44 SB2_0.2 Feb 28,		Soil	S20-Ma02530		X	1	<u> </u>			$\left \right $	-+	\rightarrow				
44 SB2_0.2 Feb 28, 45 SB2_0.5 Feb 28,		Soil	S20-Ma02531		X	1	<u> </u>			$\left \right $	-+	\rightarrow				
45 SB2_0.5 Feb 28, 46 SB3_0.5 Feb 28,		Soil	S20-Ma02532		X					$\left \right $						
40 SB3_0.5 Feb 28, 47 SB4_1.0 Feb 28,		Soil	S20-Ma02533		X											
47 3B4_1.0 Feb 28, 48 SB4_1.5 Feb 28,		Soil	S20-Ma02535		X											
48 3B4_1.3 Feb 28, 49 SB6_1.0 Feb 28,		Soil	S20-Ma02535		X					+	-+	-+				

	fine			Austral	lia										New Zealand	
ABN - 50 005 085 521		au e.mail : EnviroSales@	Testing	Melbour 6 Monter Dandenc Phone : - NATA # Site # 12	rey Road ong Sout +61 3 85 1261	h VIC 3 64 500	175 0	Phone :	, Buildir s Road ove We : +61 2		00	Murar Phone	Smallwoo rrie QLD e : +61 7	Perth 2/91 Leach Highway Kewdale WA 6105 Phone : +61 8 9251 9600 NATA # 1261 Site # 23736	Auckland 35 O'Rorke Road Penrose, Auckland 1061 Phone : +64 9 526 45 51 IANZ # 1327	Christchurch 43 Detroit Drive Rolleston, Christchurch 7 Phone : 0800 856 450 IANZ # 1290
Company Name: Address:	JBS & G Australia Level 1, 50 Marga Sydney NSW 2000	· · ·			Re Pl	der N eport none: ix:	#:		70537)2 824	3 45 030	0			Received: Due: Priority: Contact Name:	Mar 2, 2020 4:56 PN Mar 9, 2020 5 Day Julia Nicholson	Λ
Project Name: Project ID:	PARRAMATTA PO 58352	OWERHOUSE												Eurofins Analytica	l Services Manager : Ui	rsula Long
	Sample	Detail		Asbestos - WA guidelines	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	Eurofins mgt Suite B13	BTEX and Naphthalene	Volatile Organics	Moisture Set	Total Recoverable Hydrocarbons	BTEXN and Volatile TRH			
	ory - NATA Site # 125	54 & 14271		_												
	- NATA Site # 18217			X	X	Х	X	Х	Х	X	Х	Х	X			
	y - NATA Site # 2079	4							<u> </u>							
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50 SB6_1.5	Feb 28, 2020	Soil	S20-Ma02537		X											
51 SB7_0.2	Feb 28, 2020	Soil Soil	S20-Ma02538		X								$\left - \right $			
52 SB8_0.5 53 SB8_1.5	Feb 28, 2020 Feb 28, 2020	Soil	S20-Ma02539 S20-Ma02540		X X								$\left - \right $			
53 SB8_1.5 54 SB9_0.2		Soil			X								$\left \right $			
55 SB9_0.2	Feb 28, 2020 Feb 28, 2020	Soil	S20-Ma02541 S20-Ma02542		X											
56 SB10_0.5	Feb 28, 2020	Soil	S20-Ma02542 S20-Ma02543		X											
57 SB10_0.5	Feb 28, 2020	Soil	S20-Ma02543 S20-Ma02544		X											
57 SB10_1.5 58 SB11_0.2	Feb 28, 2020	Soil	S20-Ma02544 S20-Ma02545		X								$\left \right $			
59 SB11_0.2	Feb 28, 2020	Soil	S20-Ma02545		X		-									
60 SB12_0.5	Feb 28, 2020	Soil	S20-Ma02546 S20-Ma02547		X											
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62 SB13_1.0	Feb 28, 2020	5011	S20-Ma02549		Х	I	I	L	I	<u> </u>						

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Project Name: Project ID:	PARRAMATTA PO 58352	OWERHOUSE												Eurofins Analytica	I Services Manager : Ui	rsula Long
	Sample	Detail		Asbestos - WA guidelines	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	Eurofins mgt Suite B13	BTEX and Naphthalene	Volatile Organics	Moisture Set	Total Recoverable Hydrocarbons	BTEXN and Volatile TRH			
	ory - NATA Site # 125	54 & 14271														
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	y - NATA Site # 2079	4														
Perth Laboratory - N				-												
	Feb 28, 2020	Soil	S20-Ma02550	_	X											
	Feb 28, 2020	Soil	S20-Ma02551	_	X											
65 SB15_0.2	Feb 28, 2020	Soil	S20-Ma02552		X								$\left \right $			
66 SB15_0.5	Feb 28, 2020	Soil Soil	S20-Ma02553		X X								$\left \right $			
67 SB15_1.0 68 SB16 0.5	Feb 28, 2020		S20-Ma02554		X											
68 SB16_0.5 69 SB16_1.0	Feb 28, 2020	Soil Soil	S20-Ma02555		X											
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70 SB16_1.5 71 SB17 0.4	Feb 28, 2020	Soil Soil	S20-Ma02557		X											
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72 SB17_0.5 73 SB17_1.5	Feb 28, 2020 Feb 28, 2020	Soil	S20-Ma02559 S20-Ma02560	_	X											
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74 SB18_0.5	Feb 28, 2020	Soil Soil	S20-Ma02561	-	X											
75 SB18_1.0	Feb 28, 2020	501	S20-Ma02562		X	I	I	I	I	I	l	I				

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Company Name: Address:	JBS & G Australia (NS) Level 1, 50 Margaret Si Sydney NSW 2000	,			Re	der N port one: x:	#:		'0537)2 824	3 15 030	0			Received: Due: Priority: Contact Name:	Mar 2, 2020 4:56 PM Mar 9, 2020 5 Day Julia Nicholson	
Project Name: Project ID:	PARRAMATTA POWE 58352	RHOUSE												Eurofins Analytic	al Services Manager : Urs	sula Long
	Sample Deta	il		Asbestos - WA guidelines	ногр	Polycyclic Aromatic Hydrocarbons	Metals M8	Eurofins mgt Suite B13	BTEX and Naphthalene	Volatile Organics	Moisture Set	Total Recoverable Hydrocarbons	BTEXN and Volatile TRH			
	ory - NATA Site # 1254 &	14271														
Sydney Laboratory -	- NATA Site # 18217	14271		X	X	Х	x	X	X	X	Х	Х	x			
Sydney Laboratory - Brisbane Laboratory	- NATA Site # 18217 / - NATA Site # 20794	14271		X	X	X	X	X	X	x	x	Х	X			
Sydney Laboratory - Brisbane Laboratory Perth Laboratory - N	- NATA Site # 18217 / - NATA Site # 20794 IATA Site # 23736		00 M-00500	X		X	x	X	X	X	X	X	x			
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Sydney Laboratory - Brisbane Laboratory Perth Laboratory - N 76 SB19_0.1 77 SB19_0.5	NATA Site # 18217 / - NATA Site # 20794 IATA Site # 23736 Feb 28, 2020 Feb 28, 2020	Soil S2 Soil S2	20-Ma02564	X	x x	X	X	X	X	X	X	X	x			
Sydney Laboratory - Brisbane Laboratory Perth Laboratory - N 76 SB19_0.1 77 SB19_0.5 78 SB20_0.5	NATA Site # 18217 / - NATA Site # 20794 ATA Site # 23736 Feb 28, 2020 Feb 28, 2020 Feb 28, 2020 Feb 28, 2020	Soil S2 Soil S2 Soil S2	20-Ma02564 20-Ma02565	X	X X X X	X	X	X	X	X	X	X	x			
Sydney Laboratory -Brisbane LaboratoryPerth Laboratory - N76SB19_0.177SB19_0.578SB20_0.579SB20_1.0	NATA Site # 18217 / - NATA Site # 20794 IATA Site # 23736 Feb 28, 2020	Soil S2 Soil S2 Soil S2 Soil S2 Soil S2	20-Ma02564 20-Ma02565 20-Ma02566	X	X X X X X	X	X	X	X	X	X	X	x			
Sydney Laboratory - Brisbane Laboratory Perth Laboratory - N 76 SB19_0.1 77 SB19_0.5 78 SB20_0.5 79 SB20_1.0 80 SB20_1.5	NATA Site # 18217 / - NATA Site # 20794 IATA Site # 23736 Feb 28, 2020	Soil S2 Soil S2 Soil S2 Soil S2 Soil S2 Soil S2	20-Ma02564 20-Ma02565 20-Ma02566 20-Ma02567	X	X X X X X X X	X	X	X	X	X	X	X	X			
Sydney Laboratory - Brisbane Laboratory Perth Laboratory - N 76 SB19_0.1 77 SB19_0.5 78 SB20_0.5 79 SB20_1.0 30 SB20_1.5 31 MW1_1.0	NATA Site # 18217 / NATA Site # 20794 IATA Site # 23736 Feb 28, 2020	Soil S2 Soil S2 Soil S2 Soil S2 Soil S2 Soil S2 Soil S2 Soil S2	20-Ma02564 20-Ma02565 20-Ma02566 20-Ma02567 20-Ma02568	X	X X X X X X X X	X	X	X	X	X	X	X	x			
Sydney Laboratory - Brisbane Laboratory Perth Laboratory - N 76 SB19_0.1 77 SB19_0.5 78 SB20_0.5 79 SB20_1.0 30 SB20_1.5 31 MW1_1.0 32 MW1_1.5	NATA Site # 18217 / - NATA Site # 20794 IATA Site # 23736 Feb 28, 2020	Soil S2	20-Ma02564 20-Ma02565 20-Ma02566 20-Ma02567 20-Ma02568 20-Ma02569	X	X X X X X X X X X	X	X	X	X	X	x	X	X			
Sydney Laboratory - Brisbane Laboratory Perth Laboratory - N 76 SB19_0.1 77 SB19_0.5 78 SB20_0.5 79 SB20_1.0 30 SB20_1.5 31 MW1_1.0 32 MW1_4.0	NATA Site # 18217 / - NATA Site # 20794 IATA Site # 23736 Feb 28, 2020	Soil S2	20-Ma02564 20-Ma02565 20-Ma02566 20-Ma02567 20-Ma02568 20-Ma02569 20-Ma02570	X	x x x x x x x x x x x x x	X	X	X	X	X	X	X	x			
Sydney Laboratory - Brisbane Laboratory Perth Laboratory - N 76 SB19_0.1 77 SB19_0.5 78 SB20_0.5 79 SB20_1.0 80 SB20_1.5 81 MW1_1.0 82 MW1_4.0 83 MW1_5.0	NATA Site # 18217 / NATA Site # 20794 IATA Site # 23736 Feb 28, 2020	Soil S2	20-Ma02564 20-Ma02565 20-Ma02566 20-Ma02567 20-Ma02569 20-Ma02570 20-Ma02571	X	X X X X X X X X X X X X	X	X	X	X		×	X	x			
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Company Name: Address:	JBS & G Aus Level 1, 50 M Sydney NSW 2000	tralia (NSW) P largaret St	Y/L			Re Pl	der Neport none: 1x:			70537 12 824	3 15 030	0				Received: Due: Priority: Contact Name:	Mar 2, 2020 4:56 PM Mar 9, 2020 5 Day Julia Nicholson	Λ
Project Name: Project ID:	PARRAMAT 58352	TA POWERHC	OUSE													Eurofins Analytical	Services Manager : U	rsula Long
	Sa	mple Detail			Asbestos - WA guidelines	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	Eurofins mgt Suite B13	BTEX and Naphthalene	Volatile Organics	Moisture Set	Total Recoverable Hydrocarbons	BTEXN and Volatile TRH				
Melbourne Laborato	ry - NATA Site	# 1254 & 1427	′ 1]			
Sydney Laboratory -					Х	x	х	Х	Х	х	X	Х	Х	х	4			
Brisbane Laboratory															4			
Perth Laboratory - N			0.11	000 14 005-0											$\frac{1}{2}$			
	Feb 28, 2020		Soil	S20-Ma02576		X									4			
	Feb 28, 2020		Soil Soil	S20-Ma02577		X									4			
	Feb 28, 2020 Feb 28, 2020		Soil	S20-Ma02578 S20-Ma02579	-	X X									4			
	Feb 28, 2020 Feb 28, 2020		Soil	S20-Ma02579	+	X									4			
	1 60 20, 2020				+										-			
	Feb 28, 2020		Soil	S20-Ma02581		X												



Certificate of Analysis

Environment Testing

JBS & G Australia (NSW) P/L Level 1, 50 Margaret St Sydney NSW 2000



NATA Accredited Accreditation Number 1261 Site Number 18217

Attention:	Julia Nicholson
Report	705373-V2-AID
Project Name	PARRAMATTA POWERHOUSE
Project ID	58352
Received Date	Mar 02, 2020
Date Reported	Mar 10, 2020
Methodology:	
Asbestos Fibre Identification	Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques. NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.
Unknown Mineral Fibres	Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity. NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.
Subsampling Soil Samples	The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed. NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.
Bonded asbestos- containing material (ACM)	The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination. The resultant material is then further examined in accordance with AS 4964 - 2004. NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.
Limit of Reporting	The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w). The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk). NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01% " and that currently in Australia" there is no validated method available for the quantification of asbestos". This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.





Project Name	PARRAMATTA POWERHOUSE
Project ID	58352
Date Sampled	Feb 28, 2020
Report	705373-V2-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
SB1_0.2	20-Ma02488	Feb 28, 2020	Approximate Sample 1070g Sample consisted of: Brown coarse-grained soil, bitumen and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
SB3_0.2	20-Ma02491	Feb 28, 2020	Approximate Sample 866g Sample consisted of: Brown coarse-grained soil, bitumen and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
SB4_0.2	20-Ma02493	Feb 28, 2020	Approximate Sample 898g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
SB5_0.2	20-Ma02495	Feb 28, 2020	Approximate Sample 588g Sample consisted of: Brown coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
SB6_0.2	20-Ma02497	Feb 28, 2020	Approximate Sample 756g Sample consisted of: Brown coarse-grained soil, bitumen and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
SB7_0.5	20-Ma02498	Feb 28, 2020	Approximate Sample 623g Sample consisted of: Brown coarse-grained sandy soil, brick, bitumen and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
SB8_0.2	20-Ma02500	Feb 28, 2020	Approximate Sample 835g Sample consisted of: Brown coarse-grained soil, bitumen and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
SB9_0.5	20-Ma02502	Feb 28, 2020	Approximate Sample 648g Sample consisted of: Brown coarse-grained soil, bitumen and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.





NATA Accredited Accreditation Number 1261 Site Number 18217

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
SB10_0.2	20-Ma02503	Feb 28, 2020	Approximate Sample 891g Sample consisted of: Brown coarse-grained soil, bitumen and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
SB11_0.5	20-Ma02504	Feb 28, 2020	Approximate Sample 664g Sample consisted of: Brown fine-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
SB12_0.2	20-Ma02505	Feb 28, 2020	Approximate Sample 711g Sample consisted of: Brown fine-grained sandy soil, bitumen and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
SB13_0.2	20-Ma02506	Feb 28, 2020	Approximate Sample 643g Sample consisted of: Brown coarse-grained soil, cement, brick, fragments of cement, bitumen, coal and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
SB14_0.5	20-Ma02508	Feb 28, 2020	Approximate Sample 670g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
SB15_1.5	20-Ma02509	Feb 28, 2020	Approximate Sample 584g Sample consisted of: Brown coarse-grained soil, bitumen, brick, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
SB16_0.3	20-Ma02510	Feb 28, 2020	Approximate Sample 787g Sample consisted of: Brown coarse-grained soil, bitumen, brick, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
SB17_1.0	20-Ma02511	Feb 28, 2020	Approximate Sample 692g Sample consisted of: Brown coarse-grained soil, brick and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
SB18_0.1	20-Ma02512	Feb 28, 2020	Approximate Sample 664g Sample consisted of: Brown fine-grained sandy soil, glass and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
SB19_1.0	20-Ma02514	Feb 28, 2020	Approximate Sample 701g Sample consisted of: Brown fine-grained sandy soil, bitumen, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
SB20_0.2	20-Ma02516	Feb 28, 2020	Approximate Sample 510g Sample consisted of: Brown fine-grained sandy soil, glass and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
MW1_0.2	20-Ma02517	Feb 28, 2020	Approximate Sample 743g Sample consisted of: Brown coarse-grained soil, brick and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
MW2_0.1	20-Ma02519	Feb 28, 2020	Approximate Sample 723g Sample consisted of: Brown fine-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.





NATA Accredited Accreditation Number 1261 Site Number 18217

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
MW3_0.1	20-Ma02521		Sample consisted of: Brown coarse-grained soil, brick, cement, glass	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.



Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported. A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

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

Asbestos - LTM-ASB-8020

Testing SiteExtractedHolding TimeSydneyMar 03, 2020Indefinite

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	50 005 085 521	web : www.eurofin		nment Te	esting	andeno hone : + IATA # 1	ey Road ng Sout +61 3 85	h VIC 3 64 500	175 0	Sydney Unit F3, 16 Mars Lane Co Phone : NATA #	, Buildir s Road ove We : +61 2	est NSW 9900 84	-00	Murar Phone	Smallwo rrie QLD e : +61 7	ood Place 0 4172 7 3902 4600 9 Site # 20794	Perth 2/91 Leach Highway Kewdale WA 6105 Phone : +61 8 9251 9600 NATA # 1261 Site # 23736	Auckland 35 O'Rorke Road Penrose, Auckland 1061 Phone : +64 9 526 45 51 IANZ # 1327	Christchurch 43 Detroit Drive Rolleston, Christchurch Phone : 0800 856 450 IANZ # 1290
	mpany Name: dress:	JBS & G Aus Level 1, 50 N Sydney NSW 2000	stralia (NSW) ⁄largaret St	P/L			Re Pl	rder N eport none: ax:	#:		70537)2 824	3 45 030	00				Received: Due: Priority: Contact Name:	Mar 2, 2020 4:56 PN Mar 9, 2020 5 Day Julia Nicholson	
	ject Name: ject ID:	PARRAMAT 58352	TA POWERH	OUSE													Eurofins Analytica	l Services Manager : Ur	sula Long
		Sa		Asbestos - WA guidelines	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	Eurofins mgt Suite B13	BTEX and Naphthalene	Volatile Organics	Moisture Set	Total Recoverable Hydrocarbons	BTEXN and Volatile TRH						
		ory - NATA Site		271		<u> </u>										-			
		- NATA Site # 1				X	X	Х	X	X	Х	X	Х	Х	X	-			
		y - NATA Site #														-			
		NATA Site # 237	36													-			
Lxte No	rnal Laboratory Sample ID	/ Sample Date	Sampling Time	Matrix	LAB ID											-			
	SB1_0.2	Feb 28, 2020		Soil	S20-Ma02488	Х		х	Х	Х		Х	Х	Х					
2	SB1_1.5	Feb 28, 2020		Soil	S20-Ma02489			х	Х			Х	Х	Х					
3	SB2_1.0	Feb 28, 2020		Soil	S20-Ma02490			х	Х			Х	Х	Х					
ŀ	SB3_0.2	Feb 28, 2020		Soil	S20-Ma02491	Х]			
5	 SB3_1.5	Feb 28, 2020		Soil	S20-Ma02492			х	Х				Х]			
5	 SB4_0.2	Feb 28, 2020		Soil	S20-Ma02493	Х]			
7	 SB4_0.5	Feb 28, 2020		Soil	S20-Ma02494			х	х				Х			1			
3	SB5_0.2	Feb 28, 2020		Soil	S20-Ma02495	Х		х	х			Х	х	х		1			
9	SB5_1.0	Feb 28, 2020		Soil	S20-Ma02496	1	1	х	х		1		х			1			

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Project Name: Project ID:	PARRAMATT 58352	A POWERHOUSE													Eurofins Analytica	l Services Manager : Ur	sula Long
	San		Asbestos - WA guidelines	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	Eurofins mgt Suite B13	BTEX and Naphthalene	Volatile Organics	Moisture Set	Total Recoverable Hydrocarbons	BTEXN and Volatile TRH					
lelbourne Laborato	ory - NATA Site #	# 1254 & 14271															
Sydney Laboratory	- NATA Site # 18	3217		Х	Х	Х	Х	Х	Х	Х	Х	Х	Х				
Brisbane Laborator	y - NATA Site # 2	20794															
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1 SB7_0.5	Feb 28, 2020	Soil	S20-Ma02498	Х		Х	Х				Х						
2 SB7_1.0	Feb 28, 2020	Soil	S20-Ma02499			х	X				Х			ļ			
3 SB8_0.2	Feb 28, 2020	Soil	S20-Ma02500	X		Х	X			X	Х	Х					
4 SB8_1.0	Feb 28, 2020	Soil	S20-Ma02501			Х	X				Х			ļ			
15 SB9_0.5	Feb 28, 2020	Soil	S20-Ma02502	X		Х	X				Х			ļ			
16 SB10_0.2	Feb 28, 2020	Soil	S20-Ma02503	X		Х	Х				Х			-			
7 SB11_0.5	Feb 28, 2020	Soil	S20-Ma02504	X		Х	X				Х			-			
8 SB12_0.2	Feb 28, 2020	Soil	S20-Ma02505	X		Х	X	X			Х			-			
9 SB13_0.2	Feb 28, 2020	Soil	S20-Ma02506	X		Х	X	X		X	Х	Х		-			
20 SB13_0.5	Feb 28, 2020	Soil	S20-Ma02507			Х	Х			X	Х	Х		-			
21 SB14_0.5	Feb 28, 2020	Soil	S20-Ma02508	X		Х	X				Х			ļ			
		LC all	CO0 M000500	X	1	Х	X	1		1	Х		1 I	1			
22 SB15_1.5 23 SB16 0.3	Feb 28, 2020 Feb 28, 2020	Soil Soil	S20-Ma02509 S20-Ma02510	x	-	X	X				X			{			

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Company Name: Address:	JBS & G Australia (NSW) Level 1, 50 Margaret St Sydney NSW 2000) P/L			R	rder N eport hone: ax:	#:		70537)2 824	3 15 030	0			Received: Due: Priority: Contact Name:	Mar 2, 2020 4:56 PM Mar 9, 2020 5 Day Julia Nicholson	1
Project Name: Project ID:	PARRAMATTA POWERI 58352	HOUSE												Eurofins Analytica	I Services Manager : Ur	sula Long
	Sample Detail			Asbestos - WA guidelines	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	Eurofins mgt Suite B13	BTEX and Naphthalene	Volatile Organics	Moisture Set	Total Recoverable Hydrocarbons	BTEXN and Volatile TRH			
lelbourne Laborato	ory - NATA Site # 1254 & 14	271														
	- NATA Site # 18217			X	X	Х	X	Х	Х	X	Х	Х	X			
	y - NATA Site # 20794			ļ												
Perth Laboratory - N		1														
	Feb 28, 2020	Soil	S20-Ma02511	X		X	X				X					
	Feb 28, 2020	Soil	S20-Ma02512	Х		X	X				X					
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28 SB19_1.5	Feb 28, 2020	Soil	S20-Ma02515	x		×	×				X					
28 SB19_1.5 29 SB20_0.2	Feb 28, 2020 Feb 28, 2020	Soil Soil	S20-Ma02515 S20-Ma02516	x		x	X X	x			X X	x				
28 SB19_1.5 29 SB20_0.2 30 MW1_0.2	Feb 28, 2020 Feb 28, 2020 Feb 28, 2020	Soil Soil Soil	S20-Ma02515 S20-Ma02516 S20-Ma02517	X X		Х	х	x		x	Х	x x				
28 SB19_1.5 29 SB20_0.2 30 MW1_0.2 31 MW1_0.5	Feb 28, 2020	Soil Soil Soil Soil	S20-Ma02515 S20-Ma02516 S20-Ma02517 S20-Ma02518	X		X X	X X	X		x x	x x	Х				
28 SB19_1.5 29 SB20_0.2 30 MW1_0.2 31 MW1_0.5 32 MW2_0.1	Feb 28, 2020	SoilSoilSoilSoilSoil	S20-Ma02515 S20-Ma02516 S20-Ma02517 S20-Ma02518 S20-Ma02519			X X X	X X X	x		X X X	X X X	X X				
28 SB19_1.5 29 SB20_0.2 30 MW1_0.2 31 MW1_0.5 32 MW2_0.1 33 MW2_4.0	Feb 28, 2020 Feb 28, 2020	Soil Soil Soil Soil Soil Soil Soil	S20-Ma02515 S20-Ma02516 S20-Ma02517 S20-Ma02518 S20-Ma02519 S20-Ma02520	X X		X X X X	X X X X			X X X X X	X X X X	x x x				
28 SB19_1.5 29 SB20_0.2 30 MW1_0.2 31 MW1_0.5 32 MW2_0.1 33 MW2_4.0 34 MW3_0.1	Feb 28, 2020	SoilSoilSoilSoilSoil	S20-Ma02515 S20-Ma02516 S20-Ma02517 S20-Ma02518 S20-Ma02519	X		X X X	X X X	X X X		X X X	X X X	X X				

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Company Name: Address:	JBS & G Austra Level 1, 50 Mar Sydney NSW 2000	. ,			Re Pl	rder N eport none: ax:	#:		'0537)2 824	3 45 030	0			Received: Due: Priority: Contact Name:	Mar 2, 2020 4:56 PM Mar 9, 2020 5 Day Julia Nicholson	
Project Name: Project ID:	PARRAMATTA 58352	POWERHOUSE												Eurofins Analytica	I Services Manager : Ur	sula Long
	Samp		Asbestos - WA guidelines	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	Eurofins mgt Suite B13	BTEX and Naphthalene	Volatile Organics	Moisture Set	Total Recoverable Hydrocarbons	BTEXN and Volatile TRH				
lelbourne Laborato	ory - NATA Site # ´	1254 & 14271														
Sydney Laboratory	- NATA Site # 182	.17		Х	X	Х	Х	Х	Х	X	Х	Х	Х			
Brisbane Laborator	y - NATA Site # 20)794														
Perth Laboratory - N	IATA Site # 23736	•														
	Feb 28, 2020	Soil	S20-Ma02524			X	X				x					
38 QS03	Feb 28, 2020 Feb 28, 2020	Soil Soil	S20-Ma02525			х	х				x x					
38 QS03 39 RINSATE	Feb 28, 2020 Feb 28, 2020 Feb 28, 2020	Soil Soil Water	S20-Ma02525 S20-Ma02526					X		x		X				
38 QS03 39 RINSATE 40 TS	Feb 28, 2020 Feb 28, 2020 Feb 28, 2020 Feb 28, 2020 Feb 27, 2020	Soil Soil Water Water	S20-Ma02525 S20-Ma02526 S20-Ma02527			х	х	x	x	X		X				
38 QS03 39 RINSATE 40 TS 41 TB	Feb 28, 2020 Feb 28, 2020 Feb 28, 2020 Feb 27, 2020 Feb 27, 2020	Soil Soil Water Water Water	S20-Ma02525 S20-Ma02526 S20-Ma02527 S20-Ma02528			х	х	X	X	x		X				
38 QS03 39 RINSATE 40 TS 41 TB 42 SB1_0.5	Feb 28, 2020 Feb 28, 2020 Feb 28, 2020 Feb 27, 2020 Feb 27, 2020 Feb 28, 2020	Soil Soil Water Water Water Soil	S20-Ma02525 S20-Ma02526 S20-Ma02527 S20-Ma02528 S20-Ma02529			х	х	X	X	X		X	 			
38 QS03 39 RINSATE 40 TS 41 TB 42 SB1_0.5 43 SB1_1.0	Feb 28, 2020 Feb 28, 2020 Feb 28, 2020 Feb 27, 2020 Feb 27, 2020 Feb 28, 2020 Feb 28, 2020 Feb 28, 2020	Soil Soil Water Water Water Soil Soil	S20-Ma02525 S20-Ma02526 S20-Ma02527 S20-Ma02528 S20-Ma02529 S20-Ma02530		X	х	х	X	X	X		X	x			
38 QS03 39 RINSATE 40 TS 41 TB 42 SB1_0.5 43 SB1_1.0 44 SB2_0.2	Feb 28, 2020 Feb 28, 2020 Feb 28, 2020 Feb 27, 2020 Feb 27, 2020 Feb 28, 2020	Soil Soil Water Water Water Soil Soil Soil	S20-Ma02525 S20-Ma02526 S20-Ma02527 S20-Ma02528 S20-Ma02529 S20-Ma02530 S20-Ma02531		X X	х	х	X	X	X		X	x			
38 QS03 39 RINSATE 40 TS 41 TB 42 SB1_0.5 43 SB1_1.0 44 SB2_0.2 45 SB2_0.5	Feb 28, 2020 Feb 28, 2020 Feb 28, 2020 Feb 27, 2020 Feb 27, 2020 Feb 28, 2020	Soil Soil Water Water Water Soil Soil Soil Soil Soil	S20-Ma02525 S20-Ma02526 S20-Ma02527 S20-Ma02528 S20-Ma02529 S20-Ma02530 S20-Ma02531 S20-Ma02532		X X X	х	х	X	X	x		x	x			
38 QS03 39 RINSATE 40 TS 41 TB 42 SB1_0.5 43 SB1_1.0 44 SB2_0.2 45 SB2_0.5 46 SB3_0.5	Feb 28, 2020 Feb 28, 2020 Feb 28, 2020 Feb 27, 2020 Feb 27, 2020 Feb 28, 2020	Soil Soil Water Water Water Soil Soil Soil Soil Soil Soil	S20-Ma02525 S20-Ma02526 S20-Ma02527 S20-Ma02528 S20-Ma02529 S20-Ma02530 S20-Ma02531 S20-Ma02532 S20-Ma02533		X X X X	х	х	X	X	X		X	x			
38 QS03 39 RINSATE 40 TS 41 TB 42 SB1_0.5 43 SB1_1.0 44 SB2_0.2 45 SB2_0.5	Feb 28, 2020 Feb 28, 2020 Feb 28, 2020 Feb 27, 2020 Feb 27, 2020 Feb 28, 2020	Soil Soil Water Water Water Soil Soil Soil Soil Soil	S20-Ma02525 S20-Ma02526 S20-Ma02527 S20-Ma02528 S20-Ma02529 S20-Ma02530 S20-Ma02531 S20-Ma02532		X X X	х	х	X	x	x		X	x			

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Project Name: Project ID:	PARRAMATTA POW 58352	/ERHOUSE													Eurofins Analytica	l Services Manager : Ur	sula Long
	Sample De	etail		Asbestos - WA guidelines	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	Eurofins mgt Suite B13	BTEX and Naphthalene	Volatile Organics	Moisture Set	Total Recoverable Hydrocarbons	BTEXN and Volatile TRH				
	ory - NATA Site # 1254	& 14271															
	•			1			1	1 1/	Х	X	Х	Х	Х				
Sydney Laboratory	- NATA Site # 18217			X	X	Х	X	X	^								
Sydney Laboratory - Brisbane Laboratory	- NATA Site # 18217 y - NATA Site # 20794			X	X	X	X	X									
Sydney Laboratory Brisbane Laboratory Perth Laboratory - N	- NATA Site # 18217 y - NATA Site # 20794 IATA Site # 23736		520 M-00507	X		X	X	X									
Sydney Laboratory - Brisbane Laboratory Perth Laboratory - N 50 SB6_1.5	NATA Site # 18217 y - NATA Site # 20794 IATA Site # 23736 Feb 28, 2020	Soil	S20-Ma02537	X	X	X	X	X									
Sydney Laboratory Brisbane Laboratory Perth Laboratory - N 50 SB6_1.5 51 SB7_0.2	NATA Site # 18217 y - NATA Site # 20794 IATA Site # 23736 Feb 28, 2020 Feb 28, 2020	Soil Soil	S20-Ma02538		X X X	X											
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Company Name: Address:	JBS & G Australi Level 1, 50 Marg Sydney NSW 2000				Re Pl	rder N eport hone: ax:	#:		70537)2 824	'3 45 03()0				Received: Due: Priority: Contact Name:	Mar 2, 2020 4:56 PM Mar 9, 2020 5 Day Julia Nicholson	Λ
Project Name: Project ID:	PARRAMATTA F 58352	POWERHOUSE													Eurofins Analytica	I Services Manager : U	rsula Long
	Sample	e Detail		Asbestos - WA guidelines	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	Eurofins mgt Suite B13	BTEX and Naphthalene	Volatile Organics	Moisture Set	Total Recoverable Hydrocarbons	BTEXN and Volatile TRH				
lelbourne Laborato	ory - NATA Site # 12	254 & 14271															
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erth Laboratory - N					<u> </u>	<u> </u>											
	Feb 28, 2020	Soil	S20-Ma02550		X	—											
4 SB14_0.2	Feb 28, 2020	Soil	S20-Ma02551		X	—											
S5 SB15_0.2	Feb 28, 2020	Soil	S20-Ma02552		X	—							$\left - \right $				
6 SB15_0.5	Feb 28, 2020	Soil	S20-Ma02553		X	+				-			$\left \right $				
67 SB15_1.0	Feb 28, 2020	Soil	S20-Ma02554		X	 							$\left \right $				
SB16_0.5	Feb 28, 2020	Soil	S20-Ma02555		X	┼──				+			+				
9 SB16_1.0 0 SB16_1.5	Feb 28, 2020	Soil Soil	S20-Ma02556		X X	+						<u> </u>	$\left \right $				
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73 SB17_1.5	Feb 28, 2020	Soil	S20-Ma02560		X	┼──				+			+				
74 SB18_0.5	Feb 28, 2020	Soil	S20-Ma02561		X	 	I	I	I				 				
75 SB18_1.0	Feb 28, 2020	Soil	S20-Ma02562		X												

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Company Name: Address:	JBS & G Austra Level 1, 50 Mar Sydney NSW 2000	· ·			Re Pl	rder N eport hone: ax:	#:		70537)2 824	3 45 030	0				Received: Due: Priority: Contact Name:	Mar 2, 2020 4:56 PM Mar 9, 2020 5 Day Julia Nicholson	1
Project Name: Project ID:	PARRAMATTA 58352	POWERHOUSE													Eurofins Analytica	l Services Manager : Ur	sula Long
	Samp	ole Detail		Asbestos - WA guidelines	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	Eurofins mgt Suite B13	BTEX and Naphthalene	Volatile Organics	Moisture Set	Total Recoverable Hydrocarbons	BTEXN and Volatile TRH				
elbourne Laborato					<u> </u>		+										
ydney Laboratory				X	X	Х	Х	X	Х	X	Х	Х	X				
Brisbane Laboratory	y - NATA Site # 20				+												
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6 SB19_0.1	IATA Site # 23736 Feb 28, 2020	s Soil	S20-Ma02563		X												
6 SB19_0.1 7 SB19_0.5	IATA Site # 23736 Feb 28, 2020 Feb 28, 2020	Soil Soil	S20-Ma02564		X X X												
6 SB19_0.1 7 SB19_0.5 8 SB20_0.5	ATA Site # 23736 Feb 28, 2020 Feb 28, 2020 Feb 28, 2020	Soil Soil Soil Soil	S20-Ma02564 S20-Ma02565		X X X X												
6 SB19_0.1 7 SB19_0.5 8 SB20_0.5 9 SB20_1.0	ATA Site # 23736 Feb 28, 2020	Soil Soil Soil Soil Soil	S20-Ma02564 S20-Ma02565 S20-Ma02566		X X X X X												
6 SB19_0.1 7 SB19_0.5 8 SB20_0.5 9 SB20_1.0 0 SB20_1.5	ATA Site # 23736 Feb 28, 2020	Soil Soil Soil Soil Soil Soil	S20-Ma02564 S20-Ma02565 S20-Ma02566 S20-Ma02566 S20-Ma02567		x x x x x x x												
6 SB19_0.1 7 SB19_0.5 8 SB20_0.5 9 SB20_1.0 0 SB20_1.5 1 MW1_1.0	ATA Site # 23736 Feb 28, 2020	Soil Soil Soil Soil Soil Soil Soil	S20-Ma02564 S20-Ma02565 S20-Ma02566		X X X X X												
6 SB19_0.1 7 SB19_0.5 8 SB20_0.5 9 SB20_1.0 0 SB20_1.5 1 MW1_1.0 2 MW1_1.5	Feb 28, 2020	Soil Soil Soil Soil Soil Soil Soil Soil	S20-Ma02564 S20-Ma02565 S20-Ma02566 S20-Ma02566 S20-Ma02567 S20-Ma02568		X X X X X X X X X X X X X X X X X X X X												
6 SB19_0.1 7 SB19_0.5 7 SB20_0.5 9 SB20_1.0 0 SB20_1.5 1 MW1_1.0 2 MW1_1.5 3 MW1_4.0	ATA Site # 23736 Feb 28, 2020	Soil Soil Soil Soil Soil Soil Soil	S20-Ma02564 S20-Ma02565 S20-Ma02566 S20-Ma02567 S20-Ma02568 S20-Ma02569 S20-Ma02570		x x x x x x x x x x x												
6 SB19_0.1 77 SB19_0.5 78 SB20_0.5 79 SB20_1.0 80 SB20_1.5 81 MW1_1.0 82 MW1_1.5 83 MW1_5.0	Feb 28, 2020	Soil Soil Soil Soil Soil Soil Soil Soil	S20-Ma02564 S20-Ma02565 S20-Ma02566 S20-Ma02567 S20-Ma02568 S20-Ma02568 S20-Ma02569		x x												
76 SB19_0.1 77 SB19_0.5 78 SB20_0.5 79 SB20_1.0 30 SB20_1.5 31 MW1_1.0 32 MW1_1.5 33 MW1_4.0 34 MW1_5.0 35 MW1_6.0	ATA Site # 23736 Feb 28, 2020	Soil Soil Soil Soil Soil Soil Soil Soil	S20-Ma02564 S20-Ma02565 S20-Ma02566 S20-Ma02567 S20-Ma02568 S20-Ma02569 S20-Ma02570 S20-Ma02571		x x x x x x x x x x x x x x x x x												
76 SB19_0.1 77 SB19_0.5 78 SB20_0.5 79 SB20_1.0 30 SB20_1.5 31 MW1_1.0 32 MW1_1.5 33 MW1_4.0 34 MW1_5.0 35 MW1_6.0	ATA Site # 23736 Feb 28, 2020 Feb 28, 2020	Soil Soil Soil Soil Soil Soil Soil Soil	S20-Ma02564 S20-Ma02565 S20-Ma02566 S20-Ma02567 S20-Ma02568 S20-Ma02569 S20-Ma02570 S20-Ma02571 S20-Ma02572		x x												

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BN - 50 005 085 521	web : www.eurofins	Environment	Testing	Melbour 6 Monter Dandenc Phone : - NATA # Site # 12	ey Roa ng Sou +61 3 8 1261	th VIC 3 564 500	8175 0	Sydney Unit F3 16 Mars Lane C Phone NATA #	, Buildir s Road ove We : +61 2	est NSW 9900 84	400	Murai Phone	Smallwo rrie QLD e : +61	ood Place 0 4172 7 3902 4600 1 Site # 20794	Perth 2/91 Leach Highway Kewdale WA 6105 Phone : +61 8 9251 9600 NATA # 1261 Site # 23736	Auckland 35 O'Rorke Road Penrose, Auckland 1061 Phone : +64 9 526 45 51 IANZ # 1327	Christchurch 43 Detroit Drive Rolleston, Christchurch 7 Phone : 0800 856 450 IANZ # 1290
Company Name: Address:	JBS & G Aus Level 1, 50 M Sydney NSW 2000	tralia (NSW) P/L largaret St			R P	rder N eport hone: ax:	#:		70537)2 824	3 45 03(00				Received: Due: Priority: Contact Name:	Mar 2, 2020 4:56 PM Mar 9, 2020 5 Day Julia Nicholson	Λ
Project Name: Project ID:	PARRAMAT 58352	TA POWERHOUSE													Eurofins Analytica	l Services Manager : U	rsula Long
	Sa	mple Detail		Asbestos - WA guidelines	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	Eurofins mgt Suite B13	BTEX and Naphthalene	Volatile Organics	Moisture Set	Total Recoverable Hydrocarbons	BTEXN and Volatile TRH				
Melbourne Laborato														4			
Sydney Laboratory -				X	X	X	X	X	X	X	X	Х	X				
Brisbane Laboratory														_			
Perth Laboratory - N			000 14 00570	-													
	Feb 28, 2020	Soil	S20-Ma02576		X									-			
	Feb 28, 2020	Soil	S20-Ma02577		X X									{			
	Feb 28, 2020 Feb 28, 2020	Soil Soil	S20-Ma02578 S20-Ma02579	_	X									4			
<u>אַר וווועס_ט.</u> 0	Feb 28, 2020 Feb 28, 2020	Soil	S20-Ma02579		X									4			
3 MM/3 4 0		3011	320-ivia02300		\uparrow		-			-				4			
	Feb 28, 2020	Soil	S20-Ma02581		X												



Internal Quality Control Review and Glossary

General

1. QC data may be available on request.

- 2. All soil results are reported on a dry basis, unless otherwise stated.
- 3. Samples were analysed on an 'as received' basis.
- 4. Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
- 5. 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 Sample Receipt Advice.

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.

Units

% w/w: weight for weight	ht basis gi	rams per kilogram
Filter loading:	fit	pres/100 graticule areas
Reported Concentration	n: fil	pres/mL
Flowrate:	L	/min
Terms		
Dry	Sample is dried by heating prior to analysis	
LOR	Limit of Reporting	
сос	Chain of Custody	
SRA	Sample Receipt Advice	
ISO	International Standards Organisation	
AS	Australian Standards	
WA DOH		Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated ommended Procedures for Laboratory Analysis of Asbestos in Soil (2011)
NEPM	National Environment Protection (Assessment of Site Contamination)	Measure, 2013 (as amended)
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbes NEPM, ACM is generally restricted to those materials that do not pass	stos matrix, typically presented in bonded and/or sound condition. For the purposes of the a 7mm x 7mm sieve.
AF	Asbestos Fines. Asbestos containing materials, including friable, weath equivalent to "non-bonded / friable".	nered and bonded materials, able to pass a 7mm x 7mm sieve. Considered under the NEPM as
FA	Fibrous Asbestos. Asbestos containing materials in a friable and/or sev materials that do not pass a 7mm x 7mm sieve.	verely weathered condition. For the purposes of the NEPM, FA is generally restricted to those
Friable	Asbestos-containing materials of any size that may be broken or crumt outside of the laboratory's remit to assess degree of friability.	oled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres in	the matrix.



N/A Yes Yes Yes Yes No

Comments

This report has been revised (V2) to amend sample name for S20-Ma02492.

Sample Integrity
Custody Seals Intact (if used)
Attempt to Chill was evident
Sample correctly preserved
Appropriate sample containers have been used
Sample containers for volatile analysis received with minimal headspace
Samples received within HoldingTime
Some samples have been subcontracted

Qualifier Codes/Comments

Code Description N/A Not applicable

Asbestos Counter/Identifier:

Laxman Dias

Senior Analyst-Asbestos (NSW)

Authorised by:

Sayeed Abu

Senior Analyst-Asbestos (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.

Eurofins shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.



JBS & G Australia (NSW) P/L Level 1, 50 Margaret St Sydney NSW 2000





NATA Accredited Accreditation Number 1261 Site Number 18217

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.

Attention:	
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Julia Nicholson

Report Project name Project ID Received Date **705373-S-V2** PARRAMATTA POWERHOUSE 58352 Mar 02, 2020

Client Sample ID			SB1_0.2	SB1_1.5	SB2_1.0	SB3_1.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Ma02488	S20-Ma02489	S20-Ma02490	S20-Ma02492
Date Sampled			Feb 28, 2020	Feb 28, 2020	Feb 28, 2020	Feb 28, 2020
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEI		0				
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	-
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	-
TRH C15-C28	50	mg/kg	56	< 50	< 50	-
TRH C29-C36	50	mg/kg	110	80	110	-
TRH C10-C36 (Total)	50	mg/kg	166	80	110	-
Volatile Organics		<u> </u>				
1.1-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
1.1-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
1.2-Dibromoethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
1.2-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
1.2-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
1.3-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
2-Butanone (MEK)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
4-Chlorotoluene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Allyl chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Bromobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Bromochloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Bromodichloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Bromoform	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Bromomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Carbon disulfide	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Carbon Tetrachloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-



Client Sample ID			SB1_0.2	SB1_1.5	SB2_1.0	SB3_1.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Ma02488	S20-Ma02489	S20-Ma02490	S20-Ma02492
Date Sampled			Feb 28, 2020	Feb 28, 2020	Feb 28, 2020	Feb 28, 2020
Test/Reference	LOR	Unit				
Volatile Organics						
Chlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Chloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Chloroform	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Chloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Dibromochloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Dibromomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
lodomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Methylene Chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Styrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Tetrachloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Trichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Trichlorofluoromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Vinyl chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Xylenes - Total	0.3	mg/kg	< 0.3	< 0.3	< 0.3	-
Total MAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
4-Bromofluorobenzene (surr.)	1	%	83	94	79	-
Toluene-d8 (surr.)	1	%	96	102	88	-
Total Recoverable Hydrocarbons - 2013 NEPM I	Fractions					
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	-
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50	-
TRH >C16-C34	100	mg/kg	130	< 100	110	-
TRH >C34-C40	100	mg/kg	170	160	170	-
TRH >C10-C40 (total)*	100	mg/kg	300	160	280	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	1.4	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	1.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.9	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	1.0	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	1.0	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	0.8	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	0.7	< 0.5



Client Sample ID Sample Matrix			SB1_0.2 Soil	SB1_1.5 Soil	SB2_1.0 Soil	SB3_1.5 Soil
Eurofins Sample No.			S20-Ma02488	S20-Ma02489	S20-Ma02490	S20-Ma02492
Date Sampled			Feb 28, 2020	Feb 28, 2020	Feb 28, 2020	Feb 28, 2020
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	0.9	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	0.9	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	1.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	1.1	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	0.6	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	1.6	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	10.1	< 0.5
2-Fluorobiphenyl (surr.)	1	%	98	51	89	89
p-Terphenyl-d14 (surr.)	1	%	118	52	107	89
Organochlorine Pesticides		-				
Chlordanes - Total	0.1	mg/kg	< 0.1	-	-	-
4.4'-DDD	0.05	mg/kg	< 0.05	-	-	-
4.4'-DDE	0.05	mg/kg	< 0.05	-	-	-
4.4'-DDT	0.05	mg/kg	< 0.05	-	-	-
a-BHC	0.05	mg/kg	< 0.05	-	-	-
Aldrin	0.05	mg/kg	< 0.05	-	-	-
b-BHC	0.05	mg/kg	< 0.05	-	-	-
d-BHC	0.05	mg/kg	< 0.05	-	-	-
Dieldrin	0.05	mg/kg	< 0.05	-	-	-
Endosulfan I	0.05	mg/kg	< 0.05	-	-	-
Endosulfan II	0.05	mg/kg	< 0.05	-	-	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	-	-
Endrin	0.05	mg/kg	< 0.05	-	-	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	-	-
Endrin ketone	0.05	mg/kg	< 0.05	-	-	-
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	-	-
Heptachlor	0.05	mg/kg	< 0.05	-	-	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	-	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	-	-
Methoxychlor	0.2	mg/kg	< 0.2	-	-	-
Toxaphene	1	mg/kg	< 1	-	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.2	-	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.2	-	-	-
Dibutylchlorendate (surr.)	1	%	129	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	97	-	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1221	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1232	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1242	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1248	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1254	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1260	0.5	mg/kg	< 0.5	-	-	-
Total PCB*	0.5	mg/kg	< 0.5	-	-	-



Client Sample ID Sample Matrix Eurofins Sample No.			SB1_0.2 Soil S20-Ma02488	SB1_1.5 Soil S20-Ma02489	SB2_1.0 Soil S20-Ma02490	SB3_1.5 Soil S20-Ma02492
Date Sampled			Feb 28, 2020	Feb 28, 2020	Feb 28, 2020	Feb 28, 2020
Test/Reference	LOR	Unit		· ·	, i	
Polychlorinated Biphenyls	ł					
Dibutylchlorendate (surr.)	1	%	129	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	97	-	-	-
Heavy Metals						
Arsenic	2	mg/kg	< 2	2.7	3.8	5.2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	70	7.4	22	12
Copper	5	mg/kg	79	9.3	46	13
Lead	5	mg/kg	17	7.8	190	16
Mercury	0.1	mg/kg	< 0.1	< 0.1	0.4	< 0.1
Nickel	5	mg/kg	80	5.2	20	5.3
Zinc	5	mg/kg	89	16	140	20
% Moisture	1	%	8.5	5.0	11	11

Client Sample ID			SB4_0.5	G01SB5_0.2	SB5_1.0	G01SB6_0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Ma02494	S20-Ma02495	S20-Ma02496	S20-Ma02497
Date Sampled			Feb 28, 2020	Feb 28, 2020	Feb 28, 2020	Feb 28, 2020
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 N	EPM Fractions					
TRH C6-C9	20	mg/kg	-	< 20	-	< 20
TRH C10-C14	20	mg/kg	-	< 200	-	< 200
TRH C15-C28	50	mg/kg	-	< 500	-	< 500
TRH C29-C36	50	mg/kg	-	1100	-	1200
TRH C10-C36 (Total)	50	mg/kg	-	1100	-	1200
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.1-Dichloroethene	0.5	mg/kg	-	< 0.5	-	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2-Dibromoethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2-Dichloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2-Dichloropropane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
1.3-Dichloropropane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
2-Butanone (MEK)	0.5	mg/kg	-	< 0.5	-	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	-	< 0.5	-	< 0.5
4-Chlorotoluene	0.5	mg/kg	-	< 0.5	-	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	< 0.5	-	< 0.5
Allyl chloride	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzene	0.1	mg/kg	-	< 0.1	-	< 0.1



Client Sample ID			SB4 0.5	G01SB5_0.2	SB5 1.0	G01 SB6_0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Ma02494	S20-Ma02495	S20-Ma02496	S20-Ma02497
Date Sampled			Feb 28, 2020	Feb 28, 2020	Feb 28, 2020	Feb 28, 2020
Test/Reference	LOR	Unit				
Volatile Organics						
Bromobenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
Bromochloromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Bromodichloromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Bromoform	0.5	mg/kg	-	< 0.5	-	< 0.5
Bromomethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Carbon disulfide	0.5	mg/kg	-	< 0.5	-	< 0.5
Carbon Tetrachloride	0.5	mg/kg	-	< 0.5	-	< 0.5
Chlorobenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
Chloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Chloroform	0.5	mg/kg	-	< 0.5	-	< 0.5
Chloromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	-	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	-	< 0.5
Dibromochloromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Dibromomethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	< 0.1
Iodomethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	-	< 0.5	-	< 0.5
m&p-Xylenes	0.2	mg/kg	-	1.0	-	1.1
Methylene Chloride	0.5	mg/kg	-	< 0.5	-	< 0.5
o-Xylene	0.1	mg/kg	-	0.4	-	0.5
Styrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Tetrachloroethene	0.5	mg/kg	-	< 0.5	-	< 0.5
Toluene	0.1	mg/kg	-	< 0.1	-	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	-	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	-	< 0.5
Trichloroethene	0.5	mg/kg	-	< 0.5	-	< 0.5
Trichlorofluoromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Vinyl chloride	0.5	mg/kg	-	< 0.5	-	< 0.5
Xylenes - Total	0.3	mg/kg	-	1.5	-	1.6
Total MAH*	0.5	mg/kg	-	1.4	-	1.6
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	< 0.5	-	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	< 0.5	-	< 0.5
4-Bromofluorobenzene (surr.)	1	%	-	87	-	90
Toluene-d8 (surr.)	1	%	-	103	-	97
Total Recoverable Hydrocarbons - 2013 NEPM	Fractions					
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	-	< 500	-	< 500
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	-	< 500	-	< 500
TRH >C16-C34	100	mg/kg	-	1200	-	1200
TRH >C34-C40	100	mg/kg	-	1400	-	1500
TRH >C10-C40 (total)*	100	mg/kg	-	2600	-	2700



Olient Comple ID			004.05	601005 0.0	005.4.0	601000 0 0
Client Sample ID			SB4_0.5	^{G01} SB5_0.2	SB5_1.0	^{G01} SB6_0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Ma02494	S20-Ma02495	S20-Ma02496	S20-Ma02497
Date Sampled			Feb 28, 2020	Feb 28, 2020	Feb 28, 2020	Feb 28, 2020
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons		_				
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	1.0	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	1.3	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.6	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	0.8	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	0.8	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	0.8	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	0.6	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	1.1	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	1.0	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg %	6.1 64	< 0.5	< 0.5 85	< 0.5
2-Fluorobiphenyl (surr.) p-Terphenyl-d14 (surr.)	1	%	94	86	107	93
Organochlorine Pesticides	I	70	94	00	107	93
Chlordanes - Total	0.1	mg/kg	_		_	< 0.1
4.4'-DDD	0.05	mg/kg	-	-	_	< 0.05
4.4'-DDE	0.05	mg/kg	_	_	_	< 0.05
4.4'-DDT	0.05	mg/kg	_	_	_	< 0.05
a-BHC	0.05	mg/kg	_	_	_	< 0.05
Aldrin	0.05	mg/kg	-	-	_	< 0.05
b-BHC	0.05	mg/kg	_	_	_	< 0.05
d-BHC	0.05	mg/kg	-	-	-	< 0.05
Dieldrin	0.05	mg/kg	-	-	-	< 0.05
Endosulfan I	0.05	mg/kg	-	-	-	< 0.05
Endosulfan II	0.05	mg/kg	-	-	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	-	-	< 0.05
Endrin	0.05	mg/kg	-	-	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	-	-	< 0.05
Endrin ketone	0.05	mg/kg	-	-	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	-	-	-	< 0.05
Heptachlor	0.05	mg/kg	-	-	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	-	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	-	-	< 0.05
Methoxychlor	0.2	mg/kg	-	-	-	< 0.2
Toxaphene	1	mg/kg	-	-	-	< 1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	-	< 0.2
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	-	< 0.2
Dibutylchlorendate (surr.)	1	%	-	-	-	INT
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	101



Client Sample ID			SB4_0.5	G01SB5_0.2	SB5_1.0	G01 SB6_0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Ma02494	S20-Ma02495	S20-Ma02496	S20-Ma02497
Date Sampled			Feb 28, 2020	Feb 28, 2020	Feb 28, 2020	Feb 28, 2020
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1221	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1232	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1242	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1248	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1254	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1260	0.5	mg/kg	-	-	-	< 0.5
Total PCB*	0.5	mg/kg	-	-	-	< 0.5
Dibutylchlorendate (surr.)	1	%	-	-	-	INT
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	101
Heavy Metals						
Arsenic	2	mg/kg	3.7	< 2	7.1	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	13	14	12	11
Copper	5	mg/kg	29	68	15	57
Lead	5	mg/kg	88	17	16	11
Mercury	0.1	mg/kg	0.3	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	36	46	10	67
Zinc	5	mg/kg	75	69	44	52
0/ Maintaine		0/			40	
% Moisture	1	%	9.3	6.6	13	5.2

Client Sample ID Sample Matrix			SB7_0.5 Soil	SB7_1.0 Soil	^{G01} SB8_0.2 Soil	SB8_1.0 Soil
Eurofins Sample No.			S20-Ma02498	S20-Ma02499	S20-Ma02500	S20-Ma02501
•						
Date Sampled			Feb 28, 2020	Feb 28, 2020	Feb 28, 2020	Feb 28, 2020
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fra	actions					
TRH C6-C9	20	mg/kg	-	-	< 20	-
TRH C10-C14	20	mg/kg	-	-	< 200	-
TRH C15-C28	50	mg/kg	-	-	< 500	-
TRH C29-C36	50	mg/kg	-	-	1100	-
TRH C10-C36 (Total)	50	mg/kg	-	-	1100	-
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	-
1.3-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-



Client Sample ID			SB7_0.5	SB7_1.0	G01 SB8_0.2	SB8_1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Ma02498	S20-Ma02499	S20-Ma02500	S20-Ma02501
Date Sampled			Feb 28, 2020	Feb 28, 2020	Feb 28, 2020	Feb 28, 2020
		l Init	1 65 20, 2020	1 60 20, 2020	1 60 20, 2020	1 60 20, 2020
Test/Reference	LOR	Unit				
Volatile Organics	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) 4-Chlorotoluene	0.5	mg/kg	-	-	< 0.5	-
	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	-	-		-
Bromobenzene Bromochloromethane	0.5	mg/kg	-	-	< 0.5	-
Bromodichloromethane	0.5	mg/kg	-			-
Bromodicnioromethane Bromoform	0.5	mg/kg	-	-	< 0.5	-
Bromomethane	0.5	mg/kg 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	0.0	mg/kg	_	_	< 0.1	_
lodomethane	0.5	mg/kg	-	-	< 0.5	_
Isopropyl benzene (Cumene)	0.5	mg/kg	-	-	< 0.5	_
m&p-Xylenes	0.2	mg/kg	-	-	2.3	_
Methylene Chloride	0.5	mg/kg	-	-	< 0.5	_
o-Xylene	0.1	mg/kg	-	-	1.0	_
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	-	-	3.3	-
Total MAH*	0.5	mg/kg	-	-	3.3	-
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	%	-	-	74	-
Toluene-d8 (surr.)	1	%	-	-	80	-
Total Recoverable Hydrocarbons - 2013 NEPM Frac						
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	_	_	< 500	_



Client Sample ID			SB7_0.5	SB7_1.0	G01 SB8_0.2	SB8_1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Ma02498	S20-Ma02499	S20-Ma02500	S20-Ma02501
Date Sampled			Feb 28, 2020	Feb 28, 2020	Feb 28, 2020	Feb 28, 2020
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 2013 NEPM	Fractions	1				
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	-	-	< 500	-
TRH >C16-C34	100	mg/kg	-	-	1300	-
TRH >C34-C40	100	mg/kg	-	-	970	-
TRH >C10-C40 (total)*	100	mg/kg	-	-	2270	-
Polycyclic Aromatic Hydrocarbons	Ľ					
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	1.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	1.8	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	2.0	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	1.4	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	1.1	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	1.0	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	0.8	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	0.8	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	1.1	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	2.4	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	1.1	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	1.1	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	2.2	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	13	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	51	82	91	89
p-Terphenyl-d14 (surr.)	1	%	66	88	85	89
Heavy Metals		-				
Arsenic	2	mg/kg	4.0	2.6	< 2	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	13	6.9	14	5.3
Copper	5	mg/kg	34	8.5	74	< 5
Lead	5	mg/kg	130	33	7.5	< 5
Mercury	0.1	mg/kg	0.5	0.1	< 0.1	< 0.1
Nickel	5	mg/kg	15	< 5	66	< 5
Zinc	5	mg/kg	150	19	52	< 5
		1				
% Moisture	1	%	15	8.6	5.7	5.3



Client Sample ID			6D0 05	SD40.00	0044-05	G01SB12_0.2
Sample Matrix			SB9_0.5 Soil	SB10_0.2 Soil	SB11_0.5 Soil	Soil
· ·						
Eurofins Sample No.			S20-Ma02502	S20-Ma02503	S20-Ma02504	S20-Ma02505
Date Sampled			Feb 28, 2020	Feb 28, 2020	Feb 28, 2020	Feb 28, 2020
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons		-				
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	1.5	< 0.5	0.8	9.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	1.8	0.6	1.1	11
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	2.0	1.2	1.4	12
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 2
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 2
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 2
Benz(a)anthracene	0.5	mg/kg	1.4	< 0.5	0.8	6.3
Benzo(a)pyrene	0.5	mg/kg	1.1	< 0.5	0.6	7.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	1.0	< 0.5	0.5	5.5
Benzo(g.h.i)perylene	0.5	mg/kg	0.7	< 0.5	< 0.5	5.8
Benzo(k)fluoranthene	0.5	mg/kg	0.8	< 0.5	< 0.5	< 2
Chrysene	0.5	mg/kg	1.0	< 0.5	0.5	< 2
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 2
Fluoranthene	0.5	mg/kg	2.6	< 0.5	1.1	< 2
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 2
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	0.9 < 0.5	< 0.5	0.6	7.7
Naphthalene Phenanthrene	0.5	mg/kg mg/kg	< 0.5 1.7	< 0.5	< 0.5	<2
Pyrene	0.5	mg/kg	2.3	< 0.5	1.1	12
Total PAH*	0.5	mg/kg	13.5	< 0.5	5.2	44.8
2-Fluorobiphenyl (surr.)	1	111g/kg %	84	92	80	83
p-Terphenyl-d14 (surr.)	1	%	92	103	89	87
Organochlorine Pesticides		70		100	00	0/
Chlordanes - Total	0.1	mg/kg	_	-	_	< 0.1
4.4'-DDD	0.05	mg/kg	_	_	_	< 0.05
4.4'-DDE	0.05	mg/kg	_	_	_	< 0.05
4.4'-DDT	0.05	mg/kg	-	-	_	< 0.05
a-BHC	0.05	mg/kg	_	_	_	< 0.05
Aldrin	0.05	mg/kg	-	-	-	< 0.05
b-BHC	0.05	mg/kg	-	-	-	< 0.05
d-BHC	0.05	mg/kg	-	-	-	< 0.05
Dieldrin	0.05	mg/kg	-	-	-	< 0.05
Endosulfan I	0.05	mg/kg	-	-	-	< 0.05
Endosulfan II	0.05	mg/kg	-	-	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	-	-	< 0.05
Endrin	0.05	mg/kg	-	-	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	-	-	< 0.05
Endrin ketone	0.05	mg/kg	-	-	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	-	-	-	< 0.05
Heptachlor	0.05	mg/kg	-	-	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	-	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	-	-	< 0.05
Methoxychlor	0.2	mg/kg	-	-	-	< 0.2
Toxaphene	1	mg/kg	-	-	-	< 1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	-	< 0.2
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	-	< 0.2
Dibutylchlorendate (surr.)	1	%	-	-	-	127
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	95



Client Sample ID			SB9_0.5	SB10_0.2	SB11_0.5	G01SB12_0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Ma02502	S20-Ma02503	S20-Ma02504	S20-Ma02505
Date Sampled			Feb 28, 2020	Feb 28, 2020	Feb 28, 2020	Feb 28, 2020
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1221	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1232	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1242	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1248	0.5	mg/kg	-	-	-	1.2
Aroclor-1254	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1260	0.5	mg/kg	-	-	-	< 0.5
Total PCB*	0.5	mg/kg	-	-	-	1.2
Dibutylchlorendate (surr.)	1	%	-	-	-	127
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	95
Heavy Metals						
Arsenic	2	mg/kg	6.6	< 2	6.7	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	13	16	18	24
Copper	5	mg/kg	39	69	38	110
Lead	5	mg/kg	280	5.4	130	51
Mercury	0.1	mg/kg	0.6	< 0.1	0.3	< 0.1
Nickel	5	mg/kg	9.1	95	9.6	130
Zinc	5	mg/kg	110	62	120	98
% Moisture	1	%	12	4.3	12	4.2

Client Sample ID Sample Matrix			SB13_0.2 Soil	SB13_0.5 Soil	SB14_0.5 Soil	SB15_1.5 Soil
•						
Eurofins Sample No.			S20-Ma02506	S20-Ma02507	S20-Ma02508	S20-Ma02509
Date Sampled			Feb 28, 2020	Feb 28, 2020	Feb 28, 2020	Feb 28, 2020
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Frac	ctions					
TRH C6-C9	20	mg/kg	< 20	< 20	-	-
TRH C10-C14	20	mg/kg	< 20	< 20	-	-
TRH C15-C28	50	mg/kg	56	< 50	-	-
TRH C29-C36	50	mg/kg	70	< 50	-	-
TRH C10-C36 (Total)	50	mg/kg	126	< 50	-	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.1-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	-	-
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.2-Dibromoethane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
1.2-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.2-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
1.3-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	-	-



Client Sample ID			SB13_0.2	SB13 0.5	SB14 0.5	SB15_1.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Ma02506	S20-Ma02507	S20-Ma02508	S20-Ma02509
· ·						
Date Sampled			Feb 28, 2020	Feb 28, 2020	Feb 28, 2020	Feb 28, 2020
Test/Reference	LOR	Unit				
Volatile Organics						
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
2-Butanone (MEK)	0.5	mg/kg	< 0.5	< 0.5	-	-
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	< 0.5	-	-
4-Chlorotoluene	0.5	mg/kg	< 0.5	< 0.5	-	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	< 0.5	-	-
Allyl chloride	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzene	0.1	mg/kg	< 0.1	< 0.1	-	-
Bromobenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
Bromochloromethane	0.5	mg/kg	< 0.5	< 0.5	-	-
Bromodichloromethane	0.5	mg/kg	< 0.5	< 0.5	-	-
Bromoform	0.5	mg/kg	< 0.5	< 0.5	-	-
Bromomethane	0.5	mg/kg	< 0.5	< 0.5	-	-
Carbon disulfide	0.5	mg/kg	< 0.5	< 0.5	-	-
Carbon Tetrachloride	0.5	mg/kg	< 0.5	< 0.5	-	-
Chlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
Chloroethane	0.5	mg/kg	< 0.5	< 0.5	-	-
Chloroform	0.5	mg/kg	< 0.5	< 0.5	-	-
Chloromethane	0.5	mg/kg	< 0.5	< 0.5	-	-
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	-	-
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	-	-
Dibromochloromethane	0.5	mg/kg	< 0.5	< 0.5	-	-
Dibromomethane	0.5	mg/kg	< 0.5	< 0.5	-	-
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	< 0.5	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	-	-
lodomethane	0.5	mg/kg	< 0.5	< 0.5	-	-
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	< 0.5	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	-	-
Methylene Chloride	0.5	mg/kg	< 0.5	< 0.5	-	-
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	-	-
Styrene	0.5	mg/kg	< 0.5	< 0.5	-	-
Tetrachloroethene	0.5	mg/kg	< 0.5	< 0.5	-	-
Toluene	0.1	mg/kg	< 0.1	< 0.1	-	-
trans-1.2-Dichloroethene trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	-	-
Trichloroethene	0.5	mg/kg	< 0.5 < 0.5	< 0.5	-	-
		mg/kg			-	-
Trichlorofluoromethane Vinyl chloride	0.5	mg/kg mg/kg	< 0.5 < 0.5	< 0.5	-	-
Xylenes - Total	0.3	mg/kg	< 0.3	< 0.3	-	-
	0.5	mg/kg	< 0.5	< 0.5	-	-
Vic EPA IWRG 621 CHC (Total)* Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	-	-
4-Bromofluorobenzene (surr.)	0.5	mg/kg %	< 0.5 75	< 0.5 78	-	-
Toluene-d8 (surr.)	1	%	86	80	-	-
Total Recoverable Hydrocarbons - 2013 NEPM		70	00	00	-	-
· · · · · · · · · · · · · · · · · · ·			0.5	.0.5		
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	-	-



		SB13_0.2	SB13_0.5	SB14_0.5	SB15_1.5
		Soil	Soil	Soil	Soil
		S20-Ma02506	S20-Ma02507	S20-Ma02508	S20-Ma02509
		Feb 28, 2020	Feb 28, 2020	Feb 28, 2020	Feb 28, 2020
IOR	Unit				, i
_	U.I.I				
	ma/ka	< 50	< 50		_
				-	-
				-	-
100				-	-
	00				
0.5	ma/ka	1.8	< 0.5	1.2	< 0.5
				1.4	0.6
			1.2	1.7	1.2
			< 0.5	< 0.5	< 0.5
					< 0.5
0.5		< 0.5	< 0.5	< 0.5	< 0.5
0.5	mg/kg	1.8	< 0.5	1.2	< 0.5
0.5	mg/kg	1.3	< 0.5	0.8	< 0.5
0.5	mg/kg	1.1	< 0.5	0.7	< 0.5
0.5	mg/kg	0.9	< 0.5	0.6	< 0.5
0.5	mg/kg	0.9	< 0.5	0.7	< 0.5
0.5	mg/kg	1.4	< 0.5	0.9	< 0.5
0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
0.5	mg/kg	2.1	< 0.5	1.6	< 0.5
0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
0.5	mg/kg	1.2	< 0.5	0.8	< 0.5
0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
0.5	mg/kg	0.7	< 0.5	< 0.5	< 0.5
0.5	mg/kg	2.3	< 0.5	1.6	< 0.5
0.5	mg/kg	13.7	< 0.5	8.9	< 0.5
1	%	91	83	80	80
1	%	107	114	102	90
0.1	mg/kg	< 0.1	-	-	-
0.05	mg/kg	< 0.05	-	-	-
0.05	mg/kg	< 0.05	-	-	-
0.05	mg/kg	< 0.05	-	-	-
			-	-	-
			-	-	-
			-	-	-
0.05			-	-	-
0.05			-	-	-
			-	-	-
			-	-	-
			-	-	-
			-	-	-
			-	-	-
			-	-	-
			-	-	-
			-	-	-
					-
					-
0.2	mg/kg mg/kg	< 0.2	-	-	-
	0.5 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05	S0 mg/kg 50 mg/kg 100 mg/kg 100 mg/kg 100 mg/kg 0.5 mg/kg 0.5	LOR Unit iactions 50 mg/kg < 50	LOR Unit Feb 28, 2020 Feb 28, 2020 Interval 100 S0 mg/kg < 50	LOR Unit Feb 28, 2020 Feb 28, 2020 Feb 28, 2020 LOR Unit



Client Sample ID			SB13_0.2	SB13_0.5	SB14_0.5	SB15_1.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Ma02506	S20-Ma02507	S20-Ma02508	S20-Ma02509
Date Sampled			Feb 28, 2020	Feb 28, 2020	Feb 28, 2020	Feb 28, 2020
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.2	-	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.2	-	-	-
Dibutylchlorendate (surr.)	1	%	INT	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	102	-	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1221	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1232	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1242	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1248	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1254	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1260	0.5	mg/kg	< 0.5	-	-	-
Total PCB*	0.5	mg/kg	< 0.5	-	-	-
Dibutylchlorendate (surr.)	1	%	INT	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	102	-	-	-
Heavy Metals						
Arsenic	2	mg/kg	8.2	7.3	7.6	3.8
Cadmium	0.4	mg/kg	0.6	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	38	20	13	17
Copper	5	mg/kg	90	17	17	25
Lead	5	mg/kg	810	27	90	62
Mercury	0.1	mg/kg	2.5	< 0.1	0.1	0.1
Nickel	5	mg/kg	20	7.7	6.9	11
Zinc	5	mg/kg	340	26	59	46
% Moisture	1	%	16	16	9.4	11

Client Sample ID			SB16_0.3	SB17_1.0	SB18_0.1	SB18_1.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Ma02510	S20-Ma02511	S20-Ma02512	S20-Ma02513
Date Sampled			Feb 28, 2020	Feb 28, 2020	Feb 28, 2020	Feb 28, 2020
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	0.8	1.0	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	1.0	1.2	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.4	1.5	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	0.6	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	0.8	0.9	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	0.6	0.7	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	0.6	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	0.6	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	0.6	0.6	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5



Client Sample ID Sample Matrix			SB16_0.3 Soil	SB17_1.0 Soil	SB18_0.1 Soil	SB18_1.5 Soil
Eurofins Sample No.			S20-Ma02510	S20-Ma02511	S20-Ma02512	S20-Ma02513
Date Sampled			Feb 28, 2020	Feb 28, 2020	Feb 28, 2020	Feb 28, 2020
Test/Reference	LOR	Unit	1 05 20, 2020	1 00 20, 2020	1 00 20, 2020	1 05 20, 2020
Polycyclic Aromatic Hydrocarbons	LUK	Unit				
Fluoranthene	0.5		1.0	1.5	< 0.5	< 0.5
	0.5	mg/kg	-	-		
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	0.6	0.8	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	0.7	< 0.5	< 0.5
Pyrene	0.5	mg/kg	0.9	1.4	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	4.5	8.9	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	81	95	77	91
p-Terphenyl-d14 (surr.)	1	%	90	107	102	84
Heavy Metals						
Arsenic	2	mg/kg	3.8	5.1	3.1	2.3
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	20	11	20	5.8
Copper	5	mg/kg	25	15	43	14
Lead	5	mg/kg	130	30	41	19
Mercury	0.1	mg/kg	0.3	< 0.1	< 0.1	0.2
Nickel	5	mg/kg	19	7.9	75	8.6
Zinc	5	mg/kg	180	35	150	26
% Moisture	1	%	7.5	11	12	9.9

Client Sample ID			SB19_1.0	SB19_1.5	SB20_0.2	MW1_0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Ma02514	S20-Ma02515	S20-Ma02516	S20-Ma02517
Date Sampled			Feb 28, 2020	Feb 28, 2020	Feb 28, 2020	Feb 28, 2020
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fract						
TRH C6-C9	20	mg/kg	< 20	< 20	-	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	-	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	-	52
TRH C29-C36	50	mg/kg	< 50	< 50	-	69
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	-	121
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1.1-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1.2-Dibromoethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1.2-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1.2-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1.3-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5



Client Sample ID Sample Matrix			SB19_1.0 Soil	SB19_1.5 Soil	SB20_0.2 Soil	MW1_0.2 Soil
Eurofins Sample No.			S20-Ma02514	S20-Ma02515	S20-Ma02516	S20-Ma02517
•						
Date Sampled			Feb 28, 2020	Feb 28, 2020	Feb 28, 2020	Feb 28, 2020
Test/Reference	LOR	Unit				
Volatile Organics						
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
2-Butanone (MEK)	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
4-Chlorotoluene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Allyl chloride	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Bromobenzene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Bromochloromethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Bromodichloromethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Bromoform	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Bromomethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Carbon disulfide	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Carbon Tetrachloride	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Chlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Chloroethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Chloroform	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Chloromethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Dibromochloromethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Dibromomethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
lodomethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Methylene Chloride	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Styrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Tetrachloroethene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Toluene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Trichloroethene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Trichlorofluoromethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Vinyl chloride	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Xylenes - Total	0.3	mg/kg	< 0.3	< 0.3	-	< 0.3
	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
4-Bromofluorobenzene (surr.)	1	%	72	78	-	69
Toluene-d8 (surr.)	-	%	73	81	-	66
Total Recoverable Hydrocarbons - 2013 NEPM Fi						0.5
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	-	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	-	< 20
TRH >C10-C16 TRH >C10-C16 less Naphthalene (F2) ^{N01}	50 50	mg/kg mg/kg	< 50 < 50	< 50 < 50	-	< 50 < 50



Client Sample ID Sample Matrix			SB19_1.0 Soil	SB19_1.5 Soil	SB20_0.2 Soil	MW1_0.2 Soil
Eurofins Sample No.			S20-Ma02514	S20-Ma02515	S20-Ma02516	S20-Ma02517
•						
Date Sampled			Feb 28, 2020	Feb 28, 2020	Feb 28, 2020	Feb 28, 2020
	LOR	Unit				
Total Recoverable Hydrocarbons - 2013 NEPM Fi						
TRH >C16-C34	100	mg/kg	< 100	< 100	-	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	-	120
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	-	120
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	0.7	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	1.0	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	1.3	1.2
Acenaphthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	0.6	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	0.6	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	-	0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	-	0.6	< 0.5
Pyrene	0.5	mg/kg	< 0.5	-	1.1	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	-	3.4	< 0.5
2-Fluorobiphenyl (surr.)	1	%	93	-	89	105
p-Terphenyl-d14 (surr.)	1	%	88	-	84	111
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	-	< 0.1
4.4'-DDD	0.05	mg/kg	-	-	-	< 0.05
4.4'-DDE	0.05	mg/kg	-	-	-	< 0.05
4.4'-DDT	0.05	mg/kg	-	-	-	< 0.05
a-BHC	0.05	mg/kg	-	-	-	< 0.05
Aldrin	0.05	mg/kg	-	-	-	< 0.05
b-BHC	0.05	mg/kg	-	-	-	< 0.05
d-BHC	0.05	mg/kg	-	-	-	< 0.05
Dieldrin	0.05	mg/kg	-	-	-	< 0.05
Endosulfan I	0.05	mg/kg	-	-	-	< 0.05
Endosulfan II	0.05	mg/kg	-	-	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	-	-	< 0.05
Endrin	0.05	mg/kg	-	-	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	-	-	< 0.05
Endrin ketone	0.05	mg/kg	-	-	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	-	-	-	< 0.05
Heptachlor	0.05	mg/kg	-	-	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	-	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	-	-	< 0.05
Methoxychlor	0.2	mg/kg	-	-	-	< 0.2
Toxaphene	1	mg/kg mg/kg	-	-	-	< 1



Client Sample ID			SB19_1.0	SB19_1.5	SB20_0.2	MW1_0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Ma02514	S20-Ma02515	S20-Ma02516	S20-Ma02517
Date Sampled			Feb 28, 2020	Feb 28, 2020	Feb 28, 2020	Feb 28, 2020
Test/Reference	LOR	Unit				
Organochlorine Pesticides	1					
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	-	< 0.2
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	-	< 0.2
Dibutylchlorendate (surr.)	1	%	-	-	-	125
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	94
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1221	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1232	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1242	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1248	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1254	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1260	0.5	mg/kg	-	-	-	< 0.5
Total PCB*	0.5	mg/kg	-	-	-	< 0.5
Dibutylchlorendate (surr.)	1	%	-	-	-	125
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	94
Heavy Metals						
Arsenic	2	mg/kg	3.7	-	6.0	7.9
Cadmium	0.4	mg/kg	< 0.4	-	< 0.4	0.5
Chromium	5	mg/kg	8.1	-	19	17
Copper	5	mg/kg	12	-	41	43
Lead	5	mg/kg	22	-	250	610
Mercury	0.1	mg/kg	< 0.1	-	0.3	0.3
Nickel	5	mg/kg	11	-	15	11
Zinc	5	mg/kg	33	-	220	300
% Moisture	1	%	6.3	14	23	17

Client Sample ID			MW1_0.5	MW2_0.1	MW2_4.0	MW3_0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Ma02518	S20-Ma02519	S20-Ma02520	S20-Ma02521
Date Sampled			Feb 28, 2020	Feb 28, 2020	Feb 28, 2020	Feb 28, 2020
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fract	ions					
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	180	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	720	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	96	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	996	< 50	< 50	< 50
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dibromoethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5



Client Sample ID Sample Matrix			MW1_0.5 Soil	MW2_0.1 Soil	MW2_4.0 Soil	MW3_0.1 Soil
•						
Eurofins Sample No.			S20-Ma02518	S20-Ma02519	S20-Ma02520	S20-Ma02521
Date Sampled			Feb 28, 2020	Feb 28, 2020	Feb 28, 2020	Feb 28, 2020
Test/Reference	LOR	Unit		_		
Volatile Organics						
1.2-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Butanone (MEK)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Chlorotoluene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Allyl chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Bromobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromochloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromodichloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromoform	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Carbon disulfide	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Carbon Tetrachloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chloroform	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibromochloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibromomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
lodomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Methylene Chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Styrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Tetrachloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Trichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Vinyl chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes - Total	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
Total MAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Bromofluorobenzene (surr.)	1	%	79	94	84	78
Toluene-d8 (surr.)	1	%	78	99	94	89



Client Sample ID Sample Matrix			MW1_0.5 Soil	MW2_0.1 Soil	MW2_4.0 Soil	MW3_0.1 Soil
Eurofins Sample No.			S20-Ma02518	S20-Ma02519	S20-Ma02520	S20-Ma02521
•						
Date Sampled			Feb 28, 2020	Feb 28, 2020	Feb 28, 2020	Feb 28, 2020
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 2013 NEPM Frac						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	400	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	400	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	590	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	990	< 100	< 100	< 100
Polycyclic Aromatic Hydrocarbons	0.5		0.5		0.5	0.5
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	0.8	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	1.1	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) * Acenaphthene	0.5	mg/kg	1.2 < 0.5	1.4	1.2	1.2
•	0.5	mg/kg		< 0.5		< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5 < 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	0.6	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	0.6	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	0.7	1.0	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	0.6	0.9	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	1.8	3.8	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	96	104	101	114
p-Terphenyl-d14 (surr.)	1	%	90	93	92	114
Organochlorine Pesticides	•	•				
Chlordanes - Total	0.1	mg/kg	-	-	-	< 0.1
4.4'-DDD	0.05	mg/kg	-	-	-	< 0.05
4.4'-DDE	0.05	mg/kg	-	-	-	< 0.05
4.4'-DDT	0.05	mg/kg	-	-	-	< 0.05
a-BHC	0.05	mg/kg	-	-	-	< 0.05
Aldrin	0.05	mg/kg	-	-	-	< 0.05
b-BHC	0.05	mg/kg	-	-	-	< 0.05
d-BHC	0.05	mg/kg	-	-	-	< 0.05
Dieldrin	0.05	mg/kg	-	-	-	< 0.05
Endosulfan I	0.05	mg/kg	-	-	-	< 0.05
Endosulfan II	0.05	mg/kg	-	-	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	-	-	< 0.05
Endrin	0.05	mg/kg	-	-	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	-	-	< 0.05
Endrin ketone	0.05	mg/kg	-	-	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	-	-	-	< 0.05
Heptachlor	0.05	mg/kg	-	-	-	< 0.05



Client Sample ID			MW1_0.5	MW2_0.1	MW2_4.0	MW3_0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Ma02518	S20-Ma02519	S20-Ma02520	S20-Ma02521
Date Sampled			Feb 28, 2020	Feb 28, 2020	Feb 28, 2020	Feb 28, 2020
Test/Reference	LOR	Unit				
Organochlorine Pesticides	ł					
Heptachlor epoxide	0.05	mg/kg	-	-	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	-	-	< 0.05
Methoxychlor	0.2	mg/kg	-	-	-	< 0.2
Toxaphene	1	mg/kg	-	-	-	< 1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	-	< 0.2
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	-	< 0.2
Dibutylchlorendate (surr.)	1	%	-	-	-	132
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	100
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1221	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1232	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1242	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1248	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1254	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1260	0.5	mg/kg	-	-	-	< 0.5
Total PCB*	0.5	mg/kg	-	-	-	< 0.5
Dibutylchlorendate (surr.)	1	%	-	-	-	132
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	100
Heavy Metals		-1				
Arsenic	2	mg/kg	8.6	4.8	4.4	2.9
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	30	13	19	7.7
Copper	5	mg/kg	44	55	7.0	9.5
Lead	5	mg/kg	75	70	14	13
Mercury	0.1	mg/kg	0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	8.0	11	6.8	5.0
Zinc	5	mg/kg	60	190	32	45
% Moisture	1	%	17	13	15	13

Client Sample ID Sample Matrix Eurofins Sample No. Date Sampled			MW3_1.0 Soil S20-Ma02522 Feb 28, 2020	QS01 Soil S20-Ma02523 Feb 28, 2020	QS02 Soil S20-Ma02524 Feb 28, 2020	QS03 Soil S20-Ma02525 Feb 28, 2020
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5



Client Sample ID			MW3_1.0	QS01	QS02	QS03
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Ma02522	S20-Ma02523	S20-Ma02524	S20-Ma02525
Date Sampled			Feb 28, 2020	Feb 28, 2020	Feb 28, 2020	Feb 28, 2020
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	92	81	89	90
p-Terphenyl-d14 (surr.)	1	%	83	71	80	81
Heavy Metals						
Arsenic	2	mg/kg	3.8	5.4	3.5	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	8.3	11	7.8	< 5
Copper	5	mg/kg	18	19	11	< 5
Lead	5	mg/kg	21	16	66	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	0.2	< 0.1
Nickel	5	mg/kg	6.9	7.5	< 5	< 5
Zinc	5	mg/kg	50	26	21	< 5
% Moisture	1	%	11	12	7.7	5.4



Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported. A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

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	Sydney	Mar 05, 2020	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Mar 05, 2020	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Mar 05, 2020	
- Method: LTM-ORG-2010 TRH C6-C40			
Volatile Organics	Sydney	Mar 05, 2020	7 Days
- Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices			
Polycyclic Aromatic Hydrocarbons	Sydney	Mar 05, 2020	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Metals M8	Sydney	Mar 05, 2020	180 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Organochlorine Pesticides	Sydney	Mar 05, 2020	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Polychlorinated Biphenyls	Sydney	Mar 05, 2020	28 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
% Moisture	Sydney	Mar 03, 2020	14 Days
- Method: LTM-GEN-7080 Moisture			

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	50 005 085 521	O05 085 521 web : www.eurofins.com.au e.mail : EnviroSales@eurofins.com pany Name: JBS & G Australia (NSW) P/L	esting	Melbour 6 Monter Dandenc Phone : - NATA # Site # 12	ey Road ng Sout +61 3 85 1261	h VIC 3 64 500	175 0	Phone :	, Buildi s Road ove We : +61 2		-00	Murar Phone	Smallwo rrie QLD e : +61 7	ood Place) 4172 7 3902 4600 Site # 20794	Perth 2/91 Leach Highway Kewdale WA 6105 Phone : +61 8 9251 9600 NATA # 1261 Site # 23736	Auckland 35 O'Rorke Road Penrose, Auckland 1061 Phone : +64 9 526 45 51 IANZ # 1327	Christchurch 43 Detroit Drive Rolleston, Christchurch Phone : 0800 856 450 IANZ # 1290		
	mpany Name: dress:	Level 1, 50 Margaret St Sydney NSW 2000					Re	rder N eport none: ax:	#:		70537)2 824	73 45 030)0				Received: Due: Priority: Contact Name:	Mar 2, 2020 4:56 PN Mar 9, 2020 5 Day Julia Nicholson	
	oject Name: oject ID:		ta powe	ERHOUSE													Eurofins Analytica	I Services Manager : Ur	sula Long
	•					Asbestos - WA guidelines	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	Eurofins mgt Suite B13	BTEX and Naphthalene	Volatile Organics	Moisture Set	Total Recoverable Hydrocarbons	BTEXN and Volatile TRH				
				14271												-			
						X	X	Х	Х	X	Х	X	Х	Х	X	-			
															$\left - \right $	-			
	h Laboratory - N		736			_										-			
Exte No	rnal Laboratory Sample ID	Sample Date	Sampli Time	ng Matrix	LAB ID											-			
1	SB1_0.2	Feb 28, 2020		Soil	S20-Ma02488	Х		Х	Х	Х		X	Х	Х		1			
2	 SB1_1.5	Feb 28, 2020		Soil	S20-Ma02489			Х	Х			Х	Х	х]			
3	 SB2_1.0	Feb 28, 2020		Soil	S20-Ma02490			Х	Х			Х	х	х]			
1		Feb 28, 2020		Soil	S20-Ma02491	Х										1			
5	SB3_1.5	Feb 28, 2020		Soil	S20-Ma02492			х	Х				х			1			
5	SB4_0.2	Feb 28, 2020		Soil	S20-Ma02493											1			
7	SB4_0.5	Feb 28, 2020		Soil	S20-Ma02494		İ	х	х				х	l		1			
B	SB5_0.2	Feb 28, 2020		Soil	S20-Ma02495		1	х	х	1	1	x	х	х		1			
-	_	Feb 28, 2020					1	X	X		1	1	X	1		1			
Э	SB5_1.0	Fed 28. 2020	1	Soil	S20-Ma02496														

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BN - 50 005 085 521	mpany Name: JBS & G Australia (NSW) P/L	Testing	Melbour 6 Monter Dandenc Phone : - NATA # Site # 12	ey Road ong Sou +61 3 85 1261	th VIC 3 564 500	175)	Phone :	, Buildir s Road ove We s +61 2		00	Murar Phone	Smallwoo rrie QLD e : +61 7	Perth 2/91 Leach Highway Kewdale WA 6105 Phone : +61 8 9251 9600 NATA # 1261 Site # 23736	Auckland 35 O'Rorke Road Penrose, Auckland 1061 Phone: +64 9 526 45 51 IANZ # 1327	Christchurch 43 Detroit Drive Rolleston, Christchurch Phone : 0800 856 450 IANZ # 1290	
Company Name Address:	: JBS & G Austra Level 1, 50 Ma Sydney NSW 2000	· · · ·			R Pl	rder N eport hone: ax:	#:		70537)2 824	3 15 030	0			Received: Due: Priority: Contact Name:	Mar 2, 2020 4:56 PM Mar 9, 2020 5 Day Julia Nicholson	
Project Name: Project ID:	PARRAMATTA 58352	POWERHOUSE												Eurofins Analytica	l Services Manager : Ur	sula Long
•				Asbestos - WA guidelines	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	Eurofins mgt Suite B13	BTEX and Naphthalene	Volatile Organics	Moisture Set	Total Recoverable Hydrocarbons	BTEXN and Volatile TRH			
Melbourne Labora	atory - NATA Site #	1254 & 14271														
Sydney Laborator	y - NATA Site # 182	17		Х	X	Х	Х	Х	Х	Х	Х	Х	Х			
Brisbane Laborate	ory - NATA Site # 20)794														
	- NATA Site # 23736															
11 SB7_0.5	Feb 28, 2020	Soil	S20-Ma02498	X		Х	Х				Х					
12 SB7_1.0	Feb 28, 2020	Soil	S20-Ma02499			Х	X				Х					
13 SB8_0.2	Feb 28, 2020	Soil	S20-Ma02500	X		Х	X			X	Х	Х				
14 SB8_1.0	Feb 28, 2020	Soil	S20-Ma02501			X	Х				Х					
15 SB9_0.5	Feb 28, 2020	Soil	S20-Ma02502	X		Х	X				Х					
16 SB10_0.2	Feb 28, 2020	Soil	S20-Ma02503	X		X	X				Х					
17 SB11 0.5	Feb 28, 2020	Soil	S20-Ma02504	X		X	X				Х					
		Soil	S20-Ma02505	X		Х	X	X			Х					
18 SB12_0.2	Feb 28, 2020		0001-00-		1	Х	Х	Х		X	Х	Х				
18 SB12_0.2 19 SB13_0.2	Feb 28, 2020	Soil	S20-Ma02506	X									1 I			
18 SB12_0.2 19 SB13_0.2 20 SB13_0.5	Feb 28, 2020 Feb 28, 2020	Soil Soil	S20-Ma02507			Х	Х			X	Х	Х				
18 SB12_0.2 19 SB13_0.2 20 SB13_0.5 21 SB14_0.5	Feb 28, 2020 Feb 28, 2020 Feb 28, 2020 Feb 28, 2020	Soil Soil Soil	S20-Ma02507 S20-Ma02508	X		Х	х			X	Х	X				
18 SB12_0.2 19 SB13_0.2 20 SB13_0.5	Feb 28, 2020 Feb 28, 2020	Soil Soil	S20-Ma02507			-				X						

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Company Name: Address:	JBS & G Australia (NS Level 1, 50 Margaret S Sydney NSW 2000	,			Re Pl	rder N eport none: ax:			0537: 2 824	3 !5 030	0			Received: Due: Priority: Contact Name:	Mar 2, 2020 4:56 PM Mar 9, 2020 5 Day Julia Nicholson	
Project Name: Project ID:	PARRAMATTA POWE 58352	RHOUSE												Eurofins Analytica	l Services Manager : Urs	sula Long
	Sample Deta	ail		Asbestos - WA guidelines	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	Eurofins mgt Suite B13	BTEX and Naphthalene	Volatile Organics	Moisture Set	Total Recoverable Hydrocarbons	BTEXN and Volatile TRH			
lelbourne Laborato	ory - NATA Site # 1254 &	14271														
Sydney Laboratory	- NATA Site # 18217			Х	х	х	Х	х	Х	Х	Х	х	х			
Brisbane Laborator	y - NATA Site # 20794															
Perth Laboratory - N	NATA Site # 23736															
24 SB17_1.0	Feb 28, 2020	Soil	S20-Ma02511	Х		Х	Х				Х					
25 SB18_0.1	Feb 28, 2020	Soil	COO Magoor 10	Х		Х	Х				х					
			S20-Ma02512							1	Х					
	Feb 28, 2020	Soil	S20-Ma02512 S20-Ma02513			х	Х									
	Feb 28, 2020 Feb 28, 2020	Soil Soil		X		X X	X X			х	Х	Х				
27 SB19_1.0 28 SB19_1.5	Feb 28, 2020 Feb 28, 2020	Soil Soil Soil Soil	S20-Ma02513			X	Х			X X	x x	X X				
27 SB19_1.0 28 SB19_1.5 29 SB20_0.2	Feb 28, 2020 Feb 28, 2020 Feb 28, 2020	Soil Soil Soil Soil Soil Soil	S20-Ma02513 S20-Ma02514			X X					Х					
27 SB19_1.0 28 SB19_1.5 29 SB20_0.2 30 MW1_0.2	Feb 28, 2020 Feb 28, 2020	Soil9Soil9Soil9Soil9	S20-Ma02513 S20-Ma02514 S20-Ma02515	x		X X X	Х	x			x x					
27 SB19_1.0 28 SB19_1.5 29 SB20_0.2 30 MW1_0.2	Feb 28, 2020 Feb 28, 2020 Feb 28, 2020	Soil Soil Soil Soil Soil Soil Soil Soil Soil Soil	S20-Ma02513 S20-Ma02514 S20-Ma02515 S20-Ma02516	x x		X X X X X	X X	x		X	X X X X X	Х				
27 SB19_1.0 28 SB19_1.5 29 SB20_0.2 30 MW1_0.2 31 MW1_0.5 32 MW2_0.1	Feb 28, 2020	Soil Soil	S20-Ma02513 S20-Ma02514 S20-Ma02515 S20-Ma02516 S20-Ma02517	x x		X X X	X X X	×		X X	X X X X	X X				
27 SB19_1.0 28 SB19_1.5 29 SB20_0.2 30 MW1_0.2 31 MW1_0.5 32 MW2_0.1	Feb 28, 2020	Soil Soil	S20-Ma02513 S20-Ma02514 S20-Ma02515 S20-Ma02516 S20-Ma02517 S20-Ma02518	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				
27 SB19_1.0 28 SB19_1.5 29 SB20_0.2 30 MW1_0.2 31 MW1_0.5 32 MW2_0.1	Feb 28, 2020	Soil Soil	S20-Ma02513 S20-Ma02514 S20-Ma02515 S20-Ma02516 S20-Ma02517 S20-Ma02518 S20-Ma02519	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 X				
27 SB19_1.0 28 SB19_1.5 29 SB20_0.2 30 MW1_0.2 31 MW1_0.5 32 MW2_0.1 33 MW2_4.0	Feb 28, 2020 Feb 28, 2020	Soil 9 Soil 9	S20-Ma02513 S20-Ma02514 S20-Ma02515 S20-Ma02516 S20-Ma02517 S20-Ma02518 S20-Ma02519 S20-Ma02520	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 X X	X X X X X X				

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	eurofins Environment Testing 50 005 085 521 web : www.eurofins.com.au e.mail : EnviroSales@eurofins.com mpany Name: JBS & G Australia (NSW) P/L Honoria Lough 1 = 50 Margaret St	Testing	Melbour 6 Monter Dandeno Phone : - NATA # Site # 12	ey Road ng Sout -61 3 85 I261	h VIC 3 64 5000	175)	Sydney Unit F3, 16 Mars Lane Co Phone : NATA #	, Buildir s Road ove We : +61 2	st NSW 9900 84	00	Murar Phone	Smallwoo rie QLD e : +61 7	od Place 4172 7 3902 4600 Site # 20794	Perth 2/91 Leach Highway Kewdale WA 6105 Phone : +61 8 9251 9600 NATA # 1261 Site # 23736	Auckland 35 O'Rorke Road Penrose, Auckland 1061 Phone : +64 9 526 45 51 IANZ # 1327	Christchurch 43 Detroit Drive Rolleston, Christchurch Phone : 0800 856 450 IANZ # 1290		
	npany Name: Iress:	ess: Level 1, 50 Margaret St Sydney NSW 2000 ct Name: PARRAMATTA POWERHOUSE				Re Pl	rder N eport none: ax:	#:		70537)2 824	3 15 030	0				Received: Due: Priority: Contact Name:	Mar 2, 2020 4:56 PM Mar 9, 2020 5 Day Julia Nicholson	
	ject Name: ject ID:		POWERHOUSE													Eurofins Analytica	l Services Manager : Ur	sula Long
		Samp	ple Detail		Asbestos - WA guidelines	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	Eurofins mgt Suite B13	BTEX and Naphthalene	Volatile Organics	Moisture Set	Total Recoverable Hydrocarbons	BTEXN and Volatile TRH				
Velb	ourne Laborato	ry - NATA Site # [·]	1254 & 14271															
Sydn	ey Laboratory -	NATA Site # 182	:17		Х	х	х	х	х	Х	Х	Х	Х	х				
Brisb	ane Laboratory	- NATA Site # 20)794															
Perth	Laboratory - N	ATA Site # 23736	3															
		Feb 28, 2020	Soil	S20-Ma02524			х	х				х						
38	QS03	Feb 28, 2020	Soil	S20-Ma02525			х	х				х						
	RINSATE	Feb 28, 2020	Water	S20-Ma02526			х	Х	X		X		х					
	TS	Feb 27, 2020	Water	S20-Ma02527						Х								
	ТВ	Feb 27, 2020	Water	S20-Ma02528										X				
	SB1_0.5	Feb 28, 2020	Soil	S20-Ma02529		X												
	SB1_1.0	Feb 28, 2020	Soil	S20-Ma02530		X												
		Feb 28, 2020	Soil	S20-Ma02531		X												
		Feb 28, 2020	Soil	S20-Ma02532		X												
		Feb 28, 2020	Soil	S20-Ma02533		X												
47	SB4_1.0	Feb 28, 2020	Soil	S20-Ma02534		X								\mid				
				000 14-00505	1	X	1		1	1	1		I	I				
48	SB4_1.5 SB6_1.0	Feb 28, 2020 Feb 28, 2020	Soil Soil	S20-Ma02535 S20-Ma02536		X												

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BN - 50 005 0	npany Name: JBS & G Australia (NSW) P/L	Melbour 6 Monter Dandend Phone : NATA # Site # 12	rey Roa ong Sou +61 3 8 1261	uth VIC 3 564 500	0		, Buildir s Road ove We : +61 2	est NSW 9900 84	00	Murai Phone	Smallwoo rrie QLD e : +61 7	od Place 4172 7 3902 4600 Site # 20794	Perth 2/91 Leach Highway Kewdale WA 6105 Phone : +61 8 9251 9600 NATA # 1261 Site # 23736	Auckland 35 O'Rorke Road Penrose, Auckland 1061 Phone : +64 9 526 45 51 IANZ # 1327	Christchurch 43 Detroit Drive Rolleston, Christchurch Phone : 0800 856 450 IANZ # 1290			
Company Address:	-	JBS & G Aus Level 1, 50 M Sydney NSW 2000	· · ·			R P	Order I Report Phone: Tax:	#:		70537)2 824	'3 45 03(00				Received: Due: Priority: Contact Name:	Mar 2, 2020 4:56 PM Mar 9, 2020 5 Day Julia Nicholson	1
Project N Project II		PARRAMAT 58352	TA POWERHOUSE													Eurofins Analytica	l Services Manager : Ur	sula Long
		Sa	mple Detail		Asbestos - WA guidelines	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	Eurofins mgt Suite B13	BTEX and Naphthalene	Volatile Organics	Moisture Set	Total Recoverable Hydrocarbons	BTEXN and Volatile TRH				
Melbourne	e Laborato	ry - NATA Site	# 1254 & 14271															
Sydney La	aboratory -	NATA Site # 1	8217		Х	X	х	х	х	Х	х	х	х	x				
Brisbane L	aboratory	- NATA Site #	20794															
		ATA Site # 237																
50 SB6_		Feb 28, 2020	Soil	S20-Ma0253	7	X												
51 SB7_(Feb 28, 2020	Soil	S20-Ma02538	3	X												
52 SB8_(Feb 28, 2020	Soil	S20-Ma02539	9	X												
53 SB8_		Feb 28, 2020	Soil	S20-Ma02540		X		 										
54 SB9_0		Feb 28, 2020	Soil	S20-Ma0254		X		 										
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57 SB10		Feb 28, 2020	Soil	S20-Ma0254	4	X		<u> </u>										
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30 SB20_1.5	Feb 28, 2020	Soil	S20-Ma02567		X												
31 MW1_1.0	Feb 28, 2020	Soil	S20-Ma02568		X												
32 MW1_1.5	Feb 28, 2020	Soil	S20-Ma02569		X												
33 MW1_4.0	Feb 28, 2020	Soil	S20-Ma02570		X												
34 MW1_5.0	Feb 28, 2020	Soil	S20-Ma02571		X												
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Internal Quality Control Review and Glossary

General

- Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site 1. 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.
- 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.
- This report replaces any interim results previously issued. 9.

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. **NOTE: pH duplicates are reported as a range NOT as RPD

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	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.3
СР	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

QC - Acceptance Criteria

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%

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 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

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. Organochlorine Pesticide analysis where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
- 4. Organochlorine Pesticide analysis where reporting Spike data, Toxaphene is not added to the Spike.
- Total Recoverable Hydrocarbons where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported 5. in the C10-C14 cell of the Report.
- 6. 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.
- 7. Recovery Data (Spikes & Surrogates) where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
- 8. Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
- 9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
- 10. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.



Quality Control Results

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$\begin{array}{c c} < 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 \\ < 0.5 \\ < 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 \\ < 0.5 \\ < 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 \\ < 0.5 \\ < 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 \\ < 0.5 \\ < 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 \\ < 0.5 \\ < 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 \\ < 0.5 \\ < 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 \\ < 0.5 \\ < 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 \\ < 0.5 \\ < 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 \\ < 0.5 \\ < 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 \\ < 0.5 \\ < 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 \\ < 0.5 \\ < 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 \\ < 0.5 \\ < 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 \\ < 0.5 \\ < 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 \\ < 0.5 \\ < 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$		0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Pass Pass Pass Pass Pass Pass Pass Pass	
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$ \begin{array}{r} < 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 \\ \end{array} $		0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Pass Pass Pass Pass Pass Pass Pass	
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	$\begin{array}{c c} g & < 0.5 \\ g & < 0.5 \\ g & < 0.5 \\ g & < 0.5 \\ g & < 0.5 \\ g & < 0.5 \\ g & < 0.5 \\ \end{array}$	g < 0.5	g < 0.5 0.5 g < 0.5 0.5 g < 0.5 0.5 g < 0.5 0.5 g < 0.5 0.5 g < 0.5 0.5 g < 0.5 0.5 g < 0.5 0.5 g < 0.5 0.5 g < 0.1 0.1 g < 0.5 0.5	g < 0.5 Pass g < 0.5



Test	Units	Result 1	Acceptance Limits	Pass Limits	Qualifying Code
Styrene	mg/kg	< 0.5	0.5	Pass	
Tetrachloroethene	mg/kg	< 0.5	0.5	Pass	
Toluene	mg/kg	< 0.1	0.1	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	
Xylenes - Total	mg/kg	< 0.3	0.3	Pass	
Method Blank					
Total Recoverable Hydrocarbons - 2013 NEPM Fractio	ons				
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					
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-BHC	mg/kg	< 0.05	0.05	Pass	
Aldrin	mg/kg	< 0.05	0.05	Pass	
b-BHC	mg/kg	< 0.05	0.05	Pass	
d-BHC	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-BHC (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	< 0.2	0.2	Pass	
Toxaphene	mg/kg	< 1	1	Pass	
Method Blank		•			
Polychlorinated Biphenyls					
Aroclor-1016	mg/kg	< 0.5	0.5	Pass	
Aroclor-1221	mg/kg	< 0.1	0.1	Pass	
Aroclor-1232	mg/kg	< 0.5	0.5	Pass	
Aroclor-1242	mg/kg	< 0.5	0.5	Pass	
Aroclor-1248	mg/kg	< 0.5	0.5	Pass	
Aroclor-1254	mg/kg	< 0.5	0.5	Pass	
Aroclor-1260	mg/kg	< 0.5	0.5	Pass	
Total PCB*	mg/kg	< 0.5	0.5	Pass	
Method Blank		, 010		1 400	
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		< 5	5	Pass	
	mg/kg				
	mg/kg	< 5	5	Pass	
LCS - % Recovery	··				
Total Recoverable Hydrocarbons - 1999 NEPM Fract					
TRH C6-C9	%	73	70-130	Pass	
TRH C10-C14	%	85	70-130	Pass	
LCS - % Recovery					
Volatile Organics				_	
1.1-Dichloroethene	%	92	70-130	Pass	
1.1.1-Trichloroethane	%	99	70-130	Pass	
1.2-Dichlorobenzene	%	102	70-130	Pass	
1.2-Dichloroethane	%	95	70-130	Pass	
Benzene	%	103	70-130	Pass	
Ethylbenzene	%	95	70-130	Pass	
m&p-Xylenes	%	94	70-130	Pass	
o-Xylene	%	94	70-130	Pass	
Toluene	%	100	70-130	Pass	
Trichloroethene	%	112	70-130	Pass	
Xylenes - Total	%	94	70-130	Pass	
LCS - % Recovery		1 T	- i - i		
Total Recoverable Hydrocarbons - 2013 NEPM Frac	tions				
Naphthalene	%	121	70-130	Pass	
TRH C6-C10	%	76	70-130	Pass	
TRH >C10-C16	%	87	70-130	Pass	
LCS - % Recovery					
Polycyclic Aromatic Hydrocarbons					
Acenaphthene	%	99	70-130	Pass	
Acenaphthylene	%	99	70-130	Pass	
Anthracene	%	96	70-130	Pass	
Benz(a)anthracene	%	100	70-130	Pass	
Benzo(a)pyrene	%	103	70-130	Pass	
Benzo(b&j)fluoranthene	%	115	70-130	Pass	



Test			Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Benzo(k)fluoranthene			%	113		70-130	Pass	
Chrysene			%	103		70-130	Pass	
Dibenz(a.h)anthracene			%	115		70-130	Pass	
Fluoranthene			%	102		70-130	Pass	
Fluorene	iorene			99		70-130	Pass	
Indeno(1.2.3-cd)pyrene			%	109		70-130	Pass	
Naphthalene			%	97		70-130	Pass	
Phenanthrene			%	99		70-130	Pass	
Pyrene			%	103		70-130	Pass	
LCS - % Recovery								
Organochlorine Pesticides								
Chlordanes - Total			%	113		70-130	Pass	
4.4'-DDD			%	106		70-130	Pass	
4.4'-DDE			%	119		70-130	Pass	
4.4'-DDT			%	108		70-130	Pass	
a-BHC			%	116		70-130	Pass	
Aldrin			%	116		70-130	Pass	
b-BHC			%	113		70-130	Pass	
d-BHC			%	115		70-130	Pass	
Dieldrin			%	112		70-130	Pass	
Endosulfan I			%	96		70-130	Pass	
Endosulfan II			%	111		70-130	Pass	
Endosulfan sulphate			%	129		70-130	Pass	
Endrin			%	93		70-130	Pass	
Endrin aldehyde			%	112		70-130	Pass	
Endrin ketone			%	92		70-130	Pass	
g-BHC (Lindane)			%	111		70-130	Pass	
Heptachlor			%	120		70-130	Pass	
Heptachlor epoxide			%	116		70-130	Pass	
Hexachlorobenzene			%	110		70-130	Pass	
Methoxychlor			%	84		70-130	Pass	
LCS - % Recovery								
Heavy Metals								
Arsenic			%	95		70-130	Pass	
Cadmium			%	93		70-130	Pass	
Chromium			%	102		70-130	Pass	
Copper			%	108		70-130	Pass	
Lead			%	103		70-130	Pass	
Mercury			%	109		70-130	Pass	
Nickel			%	107		70-130	Pass	
Zinc			%	106		70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery					· ·			
Total Recoverable Hydrocarbons -	1999 NEPM Fracti	ons		Result 1				
TRH C6-C9	S20-Ma01235	NCP	%	70		70-130	Pass	
TRH C10-C14	S20-Fe42414	NCP	%	82		70-130	Pass	
Spike - % Recovery					· · ·			
Total Recoverable Hydrocarbons -	2013 NEPM Fracti	ons		Result 1				
TRH C6-C10	S20-Ma01235	NCP	%	73		70-130	Pass	
TRH >C10-C16	S20-Fe42414	NCP	%	82		70-130	Pass	
Spike - % Recovery			,,,					
				Result 1				
Organochlorine Pesticides								
Organochlorine Pesticides Chlordanes - Total	S20-Ma10206	NCP	%	120		70-130	Pass	



Test	Lab Sample ID	QA Source	Units	Result 1	Accepta Limit		Qualifying Code
4.4'-DDE	S20-Fe42083	NCP	%	97	70-13	D Pass	
4.4'-DDT	S20-Ma10206	NCP	%	90	70-13	D Pass	
a-BHC	S20-Ma10206	NCP	%	124	70-13	D Pass	
Aldrin	S20-Ma10206	NCP	%	125	70-13	D Pass	
b-BHC	S20-Ma10206	NCP	%	126	70-13	D Pass	
d-BHC	S20-Ma10206	NCP	%	130	70-13	D Pass	
Dieldrin	S20-Ma10206	NCP	%	124	70-13	D Pass	
Endosulfan I	S20-Ma10206	NCP	%	111	70-13	D Pass	
Endosulfan II	S20-Ma10206	NCP	%	123	70-13	D Pass	
Endosulfan sulphate	S20-Fe42083	NCP	%	94	70-13	D Pass	
Endrin	S20-Fe42083	NCP	%	93	70-13	D Pass	
Endrin aldehyde	S20-Ma10206	NCP	%	94	70-13	D Pass	
Endrin ketone	S20-Fe42083	NCP	%	102	70-13	D Pass	
g-BHC (Lindane)	S20-Ma10206	NCP	%	121	70-13	D Pass	
Heptachlor	S20-Fe42083	NCP	%	92	70-13	D Pass	
Heptachlor epoxide	S20-Ma10206	NCP	%	125	70-13	D Pass	
Hexachlorobenzene	S20-Ma10206	NCP	%	129	70-13) Pass	
Methoxychlor	S20-Fe27389	NCP	%	95	70-13) Pass	
Spike - % Recovery	· ·						
Polychlorinated Biphenyls				Result 1			
Aroclor-1260	S20-Ma10206	NCP	%	100	70-13) Pass	
Spike - % Recovery						•	
Volatile Organics				Result 1			
1.1-Dichloroethene	S20-Ma02489	CP	%	87	70-13) Pass	
1.1.1-Trichloroethane	S20-Ma02489	CP	%	94	70-13	D Pass	
1.2-Dichlorobenzene	S20-Ma02489	CP	%	100	70-13		
1.2-Dichloroethane	S20-Ma02489	CP	%	96	70-13		
Benzene	S20-Ma02489	CP	%	99	70-13		
Ethylbenzene	S20-Ma02489	CP	%	88	70-13		
m&p-Xylenes	S20-Ma02489	CP	%	89	70-13		
o-Xylene	S20-Ma02489	CP	%	89	70-13		
Toluene	S20-Ma02489	CP	%	94	70-13		
Trichloroethene	S20-Ma02489	CP	%	104	70-13		
Xylenes - Total	S20-Ma02489	CP	%	89	70-13		
Spike - % Recovery							
Total Recoverable Hydrocarbo	ons - 2013 NEPM Fract	tions		Result 1			
Naphthalene	S20-Ma02489	CP	%	107	70-13) Pass	
Spike - % Recovery						•	
Polycyclic Aromatic Hydrocar	bons			Result 1			
Acenaphthene	S20-Ma02489	CP	%	88	70-13) Pass	
Acenaphthylene	S20-Ma02489	CP	%	85	70-13) Pass	
Anthracene	S20-Ma02489	CP	%	80	70-13		
Benz(a)anthracene	S20-Ma02489	CP	%	85	70-13		
Benzo(a)pyrene	S20-Ma02489	CP	%	73	70-13		
Benzo(b&j)fluoranthene	S20-Ma02489	CP	%	82	70-13		
Benzo(g.h.i)perylene	S20-Ma02489	CP	%	79	70-13		
Benzo(k)fluoranthene	S20-Ma02489	CP	%	92	70-13		
Chrysene	S20-Ma02489	CP	%	83	70-13		
Dibenz(a.h)anthracene	S20-Ma02489	CP	%	73	70-13		
Fluoranthene	S20-Ma02489	CP	%	82	70-13		1
Fluorene	S20-Ma02489	CP	%	82	70-13		1
Indeno(1.2.3-cd)pyrene	S20-Ma02489	CP	%	74	70-13		1
	S20-Ma02489	CP	%	86	70-13		1
Naphthalene							



Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Pyrene	S20-Ma02489	CP	%	85			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S20-Ma02489	CP	%	111			70-130	Pass	
Cadmium	S20-Ma02489	CP	%	112			70-130	Pass	
Chromium	S20-Ma02489	CP	%	111			70-130	Pass	
Copper	S20-Ma02489	CP	%	113			70-130	Pass	
Lead	S20-Ma02489	CP	%	118			70-130	Pass	
Mercury	S20-Ma02489	СР	%	117			70-130	Pass	
Nickel	S20-Ma02489	CP	%	112			70-130	Pass	
Zinc	S20-Ma02489	CP	%	99			70-130	Pass	
Spike - % Recovery					1		1		
Heavy Metals				Result 1					
Arsenic	S20-Ma02511	CP	%	109			70-130	Pass	
Cadmium	S20-Ma02511	CP	%	107			70-130	Pass	
Chromium	S20-Ma02511	CP	%	111			70-130	Pass	
Copper	S20-Ma02511	CP	%	114			70-130	Pass	
Lead	S20-Ma02511	CP	%	114			70-130	Pass	
	S20-Ma02511 S20-Ma02511	CP	%	127			70-130	Pass	
Mercury Nickel	S20-Ma02511 S20-Ma02511	CP	%	121			70-130	Pass	
	S20-Ma02511	CP	%						
Zinc	520-IVIA02511		70	111			70-130	Pass	Qualifying
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate							b	1	
Total Recoverable Hydrocarbons -	1999 NEPM Fract	ions		Result 1	Result 2	RPD			
TRH C6-C9	S20-Ma02488	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S20-Ma02488	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S20-Ma02488	CP	mg/kg	56	58	2.0	30%	Pass	
TRH C29-C36	S20-Ma02488	CP	mg/kg	110	130	9.0	30%	Pass	
Duplicate	020 11002 100	0.		1 1.0		010		1 400	
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	S20-Ma02488	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1-Dichloroethene	S20-Ma02488	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1-Trichloroethane	S20-Ma02488	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	S20-Ma02488	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2-Trichloroethane	S20-Ma02488	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	S20-Ma02488	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dibromoethane	S20-Ma02488	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
	S20-Ma02488	CP					30%		
1.2-Dichlorobenzene		CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloroethane 1.2-Dichloropropane	S20-Ma02488 S20-Ma02488	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
I I		CP	mg/kg	< 0.5	< 0.5	<1		Pass	
1.2.3-Trichloropropane	S20-Ma02488		mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.4-Trimethylbenzene	S20-Ma02488	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichlorobenzene	S20-Ma02488	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichloropropane	S20-Ma02488	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3.5-Trimethylbenzene	S20-Ma02488	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.4-Dichlorobenzene	S20-Ma02488	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Butanone (MEK)	S20-Ma02488	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Propanone (Acetone)	S20-Ma02488	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Chlorotoluene	S20-Ma02488	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	S20-Ma02488	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Allyl chloride	S20-Ma02488	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzene	S20-Ma02488	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Bromobenzene	S20-Ma02488	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Diomobelizene	020 111002400		iiig/ikg	. 0.0	10.0		0070		



Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
Bromodichloromethane	S20-Ma02488	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromoform	S20-Ma02488	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromomethane	S20-Ma02488	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon disulfide	S20-Ma02488	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon Tetrachloride	S20-Ma02488	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chlorobenzene	S20-Ma02488	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroethane	S20-Ma02488	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroform	S20-Ma02488	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloromethane	S20-Ma02488	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.2-Dichloroethene	S20-Ma02488	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.3-Dichloropropene	S20-Ma02488	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromochloromethane	S20-Ma02488	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromomethane	S20-Ma02488	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dichlorodifluoromethane	S20-Ma02488	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Ethylbenzene	S20-Ma02488	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
lodomethane	S20-Ma02488	CP CP	mg/kg	< 0.5	< 0.1	<1	30%	Pass	
Isopropyl benzene (Cumene)	S20-Ma02488	CP CP		< 0.5	< 0.5	<1	30%	Pass	
		CP CP	mg/kg	< 0.5			30%		
m&p-Xylenes	S20-Ma02488	-	mg/kg		< 0.2	<1		Pass	
Methylene Chloride	S20-Ma02488	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
o-Xylene	S20-Ma02488	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Styrene	S20-Ma02488	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
	S20-Ma02488	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Toluene	S20-Ma02488	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
trans-1.2-Dichloroethene	S20-Ma02488	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.3-Dichloropropene	S20-Ma02488	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichloroethene	S20-Ma02488	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichlorofluoromethane	S20-Ma02488	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Vinyl chloride	S20-Ma02488	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Xylenes - Total	S20-Ma02488	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate		-					1	1	
Total Recoverable Hydrocarbons -			1	Result 1	Result 2	RPD			
Naphthalene	S20-Ma02488	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S20-Ma02488	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S20-Ma02488	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S20-Ma02488	CP	mg/kg	130	140	5.0	30%	Pass	
TRH >C34-C40	S20-Ma02488	CP	mg/kg	170	200	13	30%	Pass	
Duplicate				1			1		
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S20-Ma02488	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S20-Ma02488	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S20-Ma02488	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S20-Ma02488	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S20-Ma02488	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S20-Ma02488	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S20-Ma02488	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S20-Ma02488	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S20-Ma02488	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S20-Ma02488	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S20-Ma02488	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S20-Ma02488	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S20-Ma02488	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S20-Ma02488	СР	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S20-Ma02488	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S20-Ma02488	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S20-Ma02488	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	



Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S20-Ma02488	СР	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S20-Ma02488	СР	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S20-Ma02488	СР	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S20-Ma02488	СР	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-BHC	S20-Ma02488	СР	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S20-Ma02488	СР	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-BHC	S20-Ma02488	СР	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-BHC	S20-Ma02488	СР	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S20-Ma02488	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S20-Ma02488	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S20-Ma02488	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S20-Ma02488	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S20-Ma02488	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S20-Ma02488	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S20-Ma02488	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-BHC (Lindane)	S20-Ma02488	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S20-Ma02488	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S20-Ma02488	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlorobenzene	S20-Ma02488	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S20-Ma02488	CP	mg/kg	< 0.2	< 0.03	<1	30%	Pass	
Toxaphene	S20-Fe41367	NCP		< 0.2	< 0.2	<1	30%	Pass	
Duplicate	320-Fe41307	INCE	mg/kg	<u> </u>	< 1	<1	30%	F d 55	
				Decult 1	Deput 2	RPD			
Polychlorinated Biphenyls Aroclor-1016	S20-Ma02488	СР	mg/kg	Result 1 < 0.5	Result 2 < 0.5	<1	30%	Pass	
Aroclor-1221	S20-Ma02488	CP		< 0.3	< 0.5	<1	30%	Pass	
		CP	mg/kg				30%		
Aroclor-1232	S20-Ma02488		mg/kg	< 0.5	< 0.5	<1		Pass	
Aroclor-1242	S20-Ma02488	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1248	S20-Ma02488	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1254	S20-Ma02488	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1260	S20-Ma02488	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Total PCB*	S20-Ma02488	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate				Desilit	Devilio				
Heavy Metals	000 M-00400	0.0		Result 1	Result 2	RPD	0.00/	Dere	
Arsenic	S20-Ma02488	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Cadmium	S20-Ma02488	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S20-Ma02488	CP	mg/kg	70	84	19	30%	Pass	
Copper	S20-Ma02488	CP	mg/kg	79	82	4.0	30%	Pass	
Lead	S20-Ma02488	CP	mg/kg	17	16	8.0	30%	Pass	
Mercury	S20-Ma02488	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S20-Ma02488	CP	mg/kg	80	92	14	30%	Pass	
Zinc	S20-Ma02488	CP	mg/kg	89	90	<1	30%	Pass	
Duplicate				D * *	D. In	0.00			
				Result 1	Result 2	RPD		+	
% Moisture	S20-Ma02488	CP	%	8.5	8.7	3.0	30%	Pass	
Duplicate									
Heavy Metals		-		Result 1	Result 2	RPD		+	
Arsenic	S20-Ma02500	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Cadmium	S20-Ma02500	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S20-Ma02500	CP	mg/kg	14	12	18	30%	Pass	
Copper	S20-Ma02500	CP	mg/kg	74	68	8.0	30%	Pass	
Lead	S20-Ma02500	CP	mg/kg	7.5	7.7	3.0	30%	Pass	
Mercury	S20-Ma02500	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S20-Ma02500	CP	mg/kg	66	52	24	30%	Pass	
Zinc	S20-Ma02500	CP	mg/kg	52	46	13	30%	Pass	



Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S20-Ma02500	CP	%	5.7	4.7	19	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons	6			Result 1	Result 2	RPD			
Acenaphthene	S20-Ma02510	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S20-Ma02510	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S20-Ma02510	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S20-Ma02510	CP	mg/kg	0.8	0.8	8.0	30%	Pass	
Benzo(a)pyrene	S20-Ma02510	CP	mg/kg	0.6	0.6	8.0	30%	Pass	
Benzo(b&j)fluoranthene	S20-Ma02510	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S20-Ma02510	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S20-Ma02510	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S20-Ma02510	CP	mg/kg	0.6	0.6	5.0	30%	Pass	
Dibenz(a.h)anthracene	S20-Ma02510	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S20-Ma02510	CP	mg/kg	1.0	1.1	9.0	30%	Pass	
Fluorene	S20-Ma02510	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S20-Ma02510	CP	mg/kg	0.6	0.7	14	30%	Pass	
Naphthalene	S20-Ma02510	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S20-Ma02510	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S20-Ma02510	CP	mg/kg	0.9	1.0	5.0	30%	Pass	
Duplicate				1	1 1				
			1	Result 1	Result 2	RPD			
% Moisture	S20-Ma02510	CP	%	7.5	7.6	2.0	30%	Pass	
Duplicate		-						1	
Total Recoverable Hydrocarbons -				Result 1	Result 2	RPD		_	
TRH C6-C9	S20-Ma02517	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate				D 14					
Volatile Organics	000 M-00547	0.0		Result 1	Result 2	RPD	000/	Dese	
1.1-Dichloroethane	S20-Ma02517	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1-Dichloroethene	S20-Ma02517	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1-Trichloroethane	S20-Ma02517	CP CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2-Tetrachloroethane	S20-Ma02517 S20-Ma02517	CP CP	mg/kg	< 0.5 < 0.5	< 0.5 < 0.5	<1	30% 30%	Pass Pass	
1.1.2.2-Tetrachloroethane	S20-Ma02517	CP	mg/kg	< 0.5	< 0.5	<1 <1	30%	Pass	
1.2-Dibromoethane	S20-Ma02517	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichlorobenzene	S20-Ma02517	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloroethane	S20-Ma02517	CP	mg/kg mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloropropane	S20-Ma02517	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.3-Trichloropropane	S20-Ma02517	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.4-Trimethylbenzene	S20-Ma02517	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichlorobenzene	S20-Ma02517	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichloropropane	S20-Ma02517	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3.5-Trimethylbenzene	S20-Ma02517	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.4-Dichlorobenzene	S20-Ma02517	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Butanone (MEK)	S20-Ma02517	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Propanone (Acetone)	S20-Ma02517	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Chlorotoluene	S20-Ma02517	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	S20-Ma02517	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Allyl chloride	S20-Ma02517	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
			mg/kg	< 0.1	< 0.1	<1	30%	Pass	
	S20-Ma02517	CP	IIIU/KU					+	
Benzene Bromobenzene	S20-Ma02517 S20-Ma02517	CP CP				<1	30%	Pass	
Benzene		CP	mg/kg	< 0.5	< 0.5	<1 <1	30% 30%	Pass Pass	
Benzene Bromobenzene	S20-Ma02517		mg/kg mg/kg	< 0.5 < 0.5	< 0.5 < 0.5				
Benzene Bromobenzene Bromochloromethane	S20-Ma02517 S20-Ma02517	CP CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	



Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
Carbon disulfide	S20-Ma02517	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon Tetrachloride	S20-Ma02517	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chlorobenzene	S20-Ma02517	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroethane	S20-Ma02517	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroform	S20-Ma02517	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloromethane	S20-Ma02517	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.2-Dichloroethene	S20-Ma02517	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.3-Dichloropropene	S20-Ma02517	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromochloromethane	S20-Ma02517	СР	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromomethane	S20-Ma02517	СР	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dichlorodifluoromethane	S20-Ma02517	СР	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Ethylbenzene	S20-Ma02517	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
lodomethane	S20-Ma02517	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Isopropyl benzene (Cumene)	S20-Ma02517	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
m&p-Xylenes	S20-Ma02517	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Methylene Chloride	S20-Ma02517	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
o-Xylene	S20-Ma02517	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Styrene	S20-Ma02517	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Tetrachloroethene	S20-Ma02517	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Toluene	S20-Ma02517	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
trans-1.2-Dichloroethene	S20-Ma02517	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.3-Dichloropropene	S20-Ma02517	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichloroethene	S20-Ma02517	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichlorofluoromethane	S20-Ma02517	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Vinyl chloride	S20-Ma02517	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Xylenes - Total	S20-Ma02517	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons	s - 2013 NEPM Fract	ions		Result 1	Result 2	RPD			
Naphthalene	S20-Ma02517	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S20-Ma02517	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate				1			1	_	
				Result 1	Result 2	RPD			
% Moisture	S20-Ma02520	CP	%	15	14	6.0	30%	Pass	
Duplicate				1	.		1	-	
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S20-Ma02521	CP	mg/kg	2.9	2.4	18	30%	Pass	
Cadmium	S20-Ma02521	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S20-Ma02521	CP	mg/kg	7.7	7.6	2.0	30%	Pass	
Copper	S20-Ma02521	CP	mg/kg	9.5	8.3	14	30%	Pass	
Lead	S20-Ma02521	CP	mg/kg	13	11	15	30%	Pass	
Mercury	S20-Ma02521	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S20-Ma02521	CP	mg/kg	5.0	< 5	5.0	30%	Pass	
Zinc	S20-Ma02521	CP	mg/kg	45	36	21	30%	Pass	



Comments

This report has been revised (V2) to amend sample name for S20-Ma02492.

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
- 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 N01 (Purge & Trap analysis).
- 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.
- 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.
- 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

Analytical Services Manager
Senior Analyst-Organic (NSW)
Senior Analyst-Metal (NSW)
Senior Analyst-Asbestos (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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JBS & G Australia (NSW) P/L Level 1, 50 Margaret St Sydney NSW 2000





NATA Accredited Accreditation Number 1261 Site Number 18217

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.

Julia Nicholson

Report Project name Project ID Received Date **705373-W-V2** PARRAMATTA POWERHOUSE 58352 Mar 02, 2020

Client Sample ID			RINSATE	R20TS	тв
Sample Matrix			Water	Water	Water
Eurofins Sample No.			S20-Ma02526	S20-Ma02527	S20-Ma02528
Date Sampled			Feb 28, 2020	Feb 27, 2020	Feb 27, 2020
Test/Reference	LOR	Unit		, i	
Total Recoverable Hydrocarbons - 2013 NEPM	-	0			
Naphthalene ^{N02}	0.01	mg/L	< 0.01	120	< 0.01
TRH C6-C10	0.02	mg/L	< 0.02	-	< 0.02
TRH C6-C10 less BTEX (F1) ^{N04}	0.02	mg/L	< 0.02	-	< 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	-	-
Total Recoverable Hydrocarbons - 1999 NEPM	Fractions				
TRH C6-C9	0.02	mg/L	< 0.02	-	< 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	-	-
втех					
Benzene	0.001	mg/L	-	97	< 0.001
Toluene	0.001	mg/L	-	97	< 0.001
Ethylbenzene	0.001	mg/L	-	97	< 0.001
m&p-Xylenes	0.002	mg/L	-	98	< 0.002
o-Xylene	0.001	mg/L	-	100	< 0.001
Xylenes - Total	0.003	mg/L	-	98	< 0.003
4-Bromofluorobenzene (surr.)	1	%	-	108	103
Volatile Organics		-			
1.1-Dichloroethane	0.001	mg/L	< 0.001	-	-
1.1-Dichloroethene	0.001	mg/L	< 0.001	-	-
1.1.1-Trichloroethane	0.001	mg/L	< 0.001	-	-
1.1.1.2-Tetrachloroethane	0.001	mg/L	< 0.001	-	-
1.1.2-Trichloroethane	0.001	mg/L	< 0.001	-	-
1.1.2.2-Tetrachloroethane	0.001	mg/L	< 0.001	-	-
1.2-Dibromoethane	0.001	mg/L	< 0.001	-	-
1.2-Dichlorobenzene	0.001	mg/L	< 0.001	-	-
1.2-Dichloroethane	0.001	mg/L	< 0.001	-	-
1.2-Dichloropropane	0.001	mg/L	< 0.001	-	-
1.2.3-Trichloropropane	0.001	mg/L	< 0.001	-	-
1.2.4-Trimethylbenzene	0.001	mg/L	< 0.001	-	-



Client Sample ID			RINSATE	R20 TS	тв
Sample Matrix			Water	Water	Water
Eurofins Sample No.			S20-Ma02526	S20-Ma02527	S20-Ma02528
Date Sampled			Feb 28, 2020	Feb 27, 2020	Feb 27, 2020
Test/Reference	LOR	Unit			
Volatile Organics	LOIX	Onic			
1.3-Dichlorobenzene	0.001	mg/L	< 0.001		
1.3-Dichloropropane	0.001	mg/L	< 0.001	-	-
1.3.5-Trimethylbenzene	0.001	mg/L	< 0.001	-	
1.4-Dichlorobenzene	0.001	mg/L	< 0.001	-	
2-Butanone (MEK)	0.001	mg/L	< 0.001	-	-
2-Propanone (Acetone)	0.001	mg/L	< 0.001		-
4-Chlorotoluene	0.001	mg/L	< 0.001	-	-
4-Methyl-2-pentanone (MIBK)	0.001	mg/L	< 0.001	-	-
Allyl chloride	0.001	mg/L	< 0.001	-	-
Benzene	0.001	mg/L	< 0.001	-	-
Bromobenzene	0.001	mg/L	< 0.001	-	-
Bromochloromethane	0.001	mg/L	< 0.001	-	-
Bromodichloromethane	0.001	mg/L	< 0.001	-	-
Bromoform	0.001	mg/L	< 0.001	-	-
Bromomethane	0.001	mg/L	< 0.001	-	-
Carbon disulfide	0.001	mg/L	< 0.001	-	-
Carbon Tetrachloride	0.001	mg/L	< 0.001	-	-
Chlorobenzene	0.001	mg/L	< 0.001	-	-
Chloroethane	0.001	mg/L	< 0.001	-	-
Chloroform	0.005	mg/L	< 0.005	-	-
Chloromethane	0.001	mg/L	< 0.001	-	-
cis-1.2-Dichloroethene	0.001	mg/L	< 0.001	-	-
cis-1.3-Dichloropropene	0.001	mg/L	< 0.001	-	-
Dibromochloromethane	0.001	mg/L	< 0.001	-	-
Dibromomethane	0.001	mg/L	< 0.001	-	-
Dichlorodifluoromethane	0.001	mg/L	< 0.001	-	-
Ethylbenzene	0.001	mg/L	< 0.001	-	-
lodomethane	0.001	mg/L	< 0.001	-	-
Isopropyl benzene (Cumene)	0.001	mg/L	< 0.001	-	-
m&p-Xylenes	0.002	mg/L	< 0.002	-	-
Methylene Chloride	0.001	mg/L	< 0.001	-	-
o-Xylene	0.001	mg/L	< 0.001	-	-
Styrene	0.001	mg/L	< 0.001	-	-
Tetrachloroethene	0.001	mg/L	< 0.001	-	-
Toluene	0.001	mg/L	< 0.001	-	-
trans-1.2-Dichloroethene	0.001	mg/L	< 0.001	-	-
trans-1.3-Dichloropropene	0.001	mg/L	< 0.001	-	-
Trichloroethene	0.001	mg/L	< 0.001	-	-
Trichlorofluoromethane	0.001	mg/L	< 0.001	-	-
Vinyl chloride	0.001	mg/L	< 0.001	-	-
Xylenes - Total	0.003	mg/L	< 0.003	_	-
Total MAH*	0.003	mg/L	< 0.003	_	-
Vic EPA IWRG 621 CHC (Total)*	0.005	mg/L	< 0.005		
Vic EPA IWRG 621 Other CHC (Total)*	0.005	mg/L	< 0.005	-	-
4-Bromofluorobenzene (surr.)	0.005	111g/L %	86	-	-
Toluene-d8 (surr.)	1	%	88	-	-



Client Sample ID			RINSATE	R20 TS	тв
Sample Matrix			Water	Water	Water
Eurofins Sample No.			S20-Ma02526	S20-Ma02527	S20-Ma02528
Date Sampled			Feb 28, 2020	Feb 27, 2020	Feb 27, 2020
Test/Reference	LOR	Unit			
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	-	-
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	%	INT	-	-
p-Terphenyl-d14 (surr.)	1	%	INT	-	-
Organochlorine Pesticides	I				
Chlordanes - Total	0.001	mg/L	< 0.001	_	_
4.4'-DDD	0.0001	mg/L	< 0.0001	_	_
4.4'-DDE	0.0001	mg/L	< 0.0001	_	_
4.4'-DDT	0.0001	mg/L	< 0.0001	_	_
a-BHC	0.0001	mg/L	< 0.0001	_	_
Aldrin	0.0001	mg/L	< 0.0001	-	-
b-BHC	0.0001	mg/L	< 0.0001	-	-
d-BHC	0.0001	mg/L	< 0.0001	-	-
Dieldrin	0.0001	mg/L	< 0.0001	-	-
Endosulfan I	0.0001	mg/L	< 0.0001	-	-
Endosulfan II	0.0001	mg/L	< 0.0001	-	-
Endosulfan sulphate	0.0001	mg/L	< 0.0001	-	-
Endrin	0.0001	mg/L	< 0.0001	-	-
Endrin aldehyde	0.0001	mg/L	< 0.0001	-	-
Endrin ketone	0.0001	mg/L	< 0.0001	-	-
g-BHC (Lindane)	0.0001	mg/L	< 0.0001	-	-
Heptachlor	0.0001	mg/L	< 0.0001	-	-
Heptachlor epoxide	0.0001	mg/L	< 0.0001	-	-
Hexachlorobenzene	0.0001	mg/L	< 0.0001	-	-
Methoxychlor	0.0001	mg/L	< 0.0001	-	-
Toxaphene	0.01	mg/L	< 0.01	-	-
Aldrin and Dieldrin (Total)*	0.0001	mg/L	< 0.0001	-	-
DDT + DDE + DDD (Total)*	0.0001	mg/L	< 0.0001	-	-
Vic EPA IWRG 621 OCP (Total)*	0.001	mg/L	< 0.001	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.001	mg/L	< 0.001	-	-
Dibutylchlorendate (surr.)	1	%	INT	-	-
Tetrachloro-m-xylene (surr.)	1	%	INT	-	-



Client Sample ID Sample Matrix			RINSATE Water	R20 TS Water	TB Water
Eurofins Sample No.			S20-Ma02526	S20-Ma02527	S20-Ma02528
Date Sampled			Feb 28, 2020	Feb 27, 2020	Feb 27, 2020
Test/Reference	LOR	Unit			
Polychlorinated Biphenyls	1	•			
Aroclor-1016	0.005	mg/L	< 0.005	-	-
Aroclor-1221	0.001	mg/L	< 0.001	-	-
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*	0.001	mg/L	< 0.001	-	-
Dibutylchlorendate (surr.)	1	%	INT	-	-
Tetrachloro-m-xylene (surr.)	1	%	INT	-	-
Heavy Metals					
Arsenic	0.001	mg/L	< 0.001	-	-
Cadmium	0.0002	mg/L	< 0.0002	-	-
Chromium	0.001	mg/L	< 0.001	-	-
Copper	0.001	mg/L	< 0.001	-	-
Lead	0.001	mg/L	< 0.001	-	-
Mercury	0.0001	mg/L	< 0.0001	-	-
Nickel	0.001	mg/L	0.002	-	-
Zinc	0.005	mg/L	< 0.005	-	-



Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported. A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

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 - 2013 NEPM Fractions	Sydney	Mar 03, 2020	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons	Sydney	Mar 03, 2020	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Mar 04, 2020	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	Mar 03, 2020	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Mar 04, 2020	
- Method: LTM-ORG-2010 TRH C6-C40			
Volatile Organics	Sydney	Mar 03, 2020	7 Days
- Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices			
Polycyclic Aromatic Hydrocarbons	Sydney	Mar 04, 2020	7 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Metals M8	Sydney	Mar 03, 2020	180 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Organochlorine Pesticides	Sydney	Mar 04, 2020	7 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Polychlorinated Biphenyls	Sydney	Mar 04, 2020	7 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			

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	50 005 085 521	05 085 521 web : www.eurofins.com.au e.mail : EnviroSales@eurofins.com any Name: JBS & G Australia (NSW) P/L			esting)andeno Phone : - IATA # 1	ey Road ng South VIC 3175 +61 3 8564 5000 1261 54 & 14271			Sydney Unit F3, 16 Mars Lane Co Phone : NATA #	, Buildir s Road ove We : +61 2	est NSW 9900 84	-00	Brisbane 1/21 Smallwood Place Murarrie QLD 4172 Phone : +61 7 3902 4600 NATA # 1261 Site # 20794			Perth 2/91 Leach Highway Kewdale WA 6105 Phone : +61 8 9251 9600 NATA # 1261 Site # 23736	Auckland 35 O'Rorke Road Penrose, Auckland 1061 Phone : +64 9 526 45 51 IANZ # 1327	Christchurch 43 Detroit Drive Rolleston, Christchurch Phone : 0800 856 450 IANZ # 1290
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	oject Name: oject ID:	PARRAMAT 58352	TA POWE	RHOUSE													Eurofins Analytica	l Services Manager : Ur	sula Long
			mple Deta			Asbestos - WA guidelines	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	Eurofins mgt Suite B13	BTEX and Naphthalene	Volatile Organics	Moisture Set	Total Recoverable Hydrocarbons	BTEXN and Volatile TRH				
	ourne Laborato			14271		X					v			~		-			
	ney Laboratory					X	X	Х	X	X	Х	X	X	Х	X	4			
	bane Laboratory							├	├──	+		+			$\left - \right $	+			
	h Laboratory - N		30					├	├──	+		+			$\left \right $	+			
No	rnal Laboratory Sample ID	Sample Date	Samplin Time	g Matrix	LAB ID											-			
	SB1_0.2	Feb 28, 2020		Soil	S20-Ma02488	Х		Х	Х	Х		Х	Х	х					
2	SB1_1.5	Feb 28, 2020		Soil	S20-Ma02489			Х	Х			Х	Х	х					
3	SB2_1.0	Feb 28, 2020		Soil	S20-Ma02490			Х	Х			Х	Х	х					
1	SB3_0.2	Feb 28, 2020		Soil	S20-Ma02491	Х													
5	SB3_1.5	Feb 28, 2020		Soil	S20-Ma02492			Х	Х				Х]			
6	SB4_0.2	Feb 28, 2020		Soil	S20-Ma02493	Х													
7		Feb 28, 2020		Soil	S20-Ma02494			Х	Х				х]			
3	 SB5_0.2	Feb 28, 2020		Soil	S20-Ma02495	Х		Х	х			Х	Х	х]			
	SB5_1.0	Feb 28, 2020		Soil	S20-Ma02496	1	1	Х	х				х	l		1			
9	1000_1.0		1	3011	020-1via02430														

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Company Name Address:	: JBS & G Austra Level 1, 50 Ma Sydney NSW 2000	· · · ·			R Pl	rder N eport hone: ax:	#:		70537)2 824	3 15 030	0			Received: Due: Priority: Contact Name:	Mar 2, 2020 4:56 PM Mar 9, 2020 5 Day Julia Nicholson		
Project Name: Project ID:	PARRAMATTA 58352	POWERHOUSE												Eurofins Analytica	l Services Manager : Ur	sula Long	
	Samı	ole Detail		Asbestos - WA guidelines	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	Eurofins mgt Suite B13	BTEX and Naphthalene	Volatile Organics	Moisture Set	Total Recoverable Hydrocarbons	BTEXN and Volatile TRH				
Melbourne Labora	atory - NATA Site #	1254 & 14271															
Sydney Laborator	y - NATA Site # 182	17		Х	X	Х	Х	Х	Х	Х	Х	Х	Х				
Brisbane Laborate	ory - NATA Site # 20)794															
	- NATA Site # 23736																
11 SB7_0.5	Feb 28, 2020	Soil	S20-Ma02498	X		Х	Х				Х						
12 SB7_1.0	Feb 28, 2020	Soil	S20-Ma02499			Х	X				Х						
13 SB8_0.2	Feb 28, 2020	Soil	S20-Ma02500	X		Х	X			X	Х	Х					
14 SB8_1.0	Feb 28, 2020	Soil	S20-Ma02501			X	Х				Х						
15 SB9_0.5	Feb 28, 2020	Soil	S20-Ma02502	X		Х	X				Х						
16 SB10_0.2	Feb 28, 2020	Soil	S20-Ma02503	X		X	X				Х						
17 SB11 0.5	Feb 28, 2020	Soil	S20-Ma02504	X		X	X				Х						
		Soil	S20-Ma02505	X		Х	X	X			Х						
18 SB12_0.2	Feb 28, 2020		0001-00-		1	Х	Х	Х		X	Х	X					
18 SB12_0.2 19 SB13_0.2	Feb 28, 2020	Soil	S20-Ma02506	X									1 I				
18 SB12_0.2 19 SB13_0.2 20 SB13_0.5	Feb 28, 2020 Feb 28, 2020	Soil Soil	S20-Ma02507			Х	Х			X	Х	Х					
18 SB12_0.2 19 SB13_0.2 20 SB13_0.5 21 SB14_0.5	Feb 28, 2020 Feb 28, 2020 Feb 28, 2020 Feb 28, 2020	Soil Soil Soil	S20-Ma02507 S20-Ma02508	X		Х	х			X	Х	X					
18 SB12_0.2 19 SB13_0.2 20 SB13_0.5	Feb 28, 2020 Feb 28, 2020	Soil Soil	S20-Ma02507			-				X							

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Environment Testing BN - 50 005 085 521 web : www.eurofins.com.au e.mail : EnviroSales@eurofins.com Company Name: JBS & G Australia (NSW) P/L		sting P	Monter andeno hone : + ATA # 1	nterey Road			Sydney Unit F3, Building F 16 Mars Road Lane Cove West NSW 2066 Phone : +61 2 9900 8400 NATA # 1261 Site # 18217			Brisbane 1/21 Smallwood Place Murarrie QLD 4172 Phone : +61 7 3902 4600 NATA # 1261 Site # 20794			Perth 2/91 Leach Highway Kewdale WA 6105 Phone : +61 8 9251 9600 NATA # 1261 Site # 23736	Auckland 35 O'Rorke Road Penrose, Auckland 1061 Phone : +64 9 526 45 51 IANZ # 1327	Christchurch 43 Detroit Drive Rolleston, Christchurch Phone : 0800 856 450 IANZ # 1290			
Company Name: Address:	JBS & G Australia (NS Level 1, 50 Margaret S Sydney NSW 2000	,			Re Pl	rder N eport none: ax:			0537: 2 824	3 !5 030	0				Received: Due: Priority: Contact Name:	Mar 2, 2020 4:56 PM Mar 9, 2020 5 Day Julia Nicholson		
Project Name: Project ID:	PARRAMATTA POWE 58352	RHOUSE													Eurofins Analytica	l Services Manager : Urs	sula Long	
	Sample Deta	ail		Asbestos - WA guidelines	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	Eurofins mgt Suite B13	BTEX and Naphthalene	Volatile Organics	Moisture Set	Total Recoverable Hydrocarbons	BTEXN and Volatile TRH					
lelbourne Laborato	ory - NATA Site # 1254 &	14271																
Sydney Laboratory	- NATA Site # 18217			Х	х	х	Х	х	Х	Х	Х	Х	х					
Brisbane Laborator	y - NATA Site # 20794																	
Perth Laboratory - N	NATA Site # 23736																	
24 SB17_1.0	Feb 28, 2020	Soil	S20-Ma02511	Х		Х	Х				Х							
25 SB18_0.1	Feb 28, 2020	Soil	COO Magoor 10	Х		Х	Х				х							
			S20-Ma02512	~						1	Х							
	Feb 28, 2020	Soil	S20-Ma02512 S20-Ma02513			х	Х											
	Feb 28, 2020 Feb 28, 2020	Soil Soil		X		X X	X X			X	Х	Х						
27 SB19_1.0 28 SB19_1.5	Feb 28, 2020 Feb 28, 2020	Soil Soil Soil Soil Soil	S20-Ma02513			X	Х			X X	x x	X X						
27 SB19_1.0 28 SB19_1.5 29 SB20_0.2	Feb 28, 2020 Feb 28, 2020 Feb 28, 2020	Soil Soil Soil Soil Soil Soil	S20-Ma02513 S20-Ma02514			X X					Х							
27 SB19_1.0 28 SB19_1.5 29 SB20_0.2 30 MW1_0.2	Feb 28, 2020 Feb 28, 2020	Soil Soil Soil Soil Soil Soil	S20-Ma02513 S20-Ma02514 S20-Ma02515	x		X X X	Х	x			x x							
27 SB19_1.0 28 SB19_1.5 29 SB20_0.2 30 MW1_0.2	Feb 28, 2020 Feb 28, 2020 Feb 28, 2020	Soil Soil Soil Soil Soil Soil Soil Soil Soil Soil	S20-Ma02513 S20-Ma02514 S20-Ma02515 S20-Ma02516	x x		X X X X X	X X	x		X	X X X X X X	Х						
27 SB19_1.0 28 SB19_1.5 29 SB20_0.2 30 MW1_0.2 31 MW1_0.5 32 MW2_0.1	Feb 28, 2020 Feb 28, 2020 Feb 28, 2020 Feb 28, 2020 Feb 28, 2020	Soil Soil Soil Soil Soil Soil Soil Soil Soil Soil Soil Soil Soil Soil	S20-Ma02513 S20-Ma02514 S20-Ma02515 S20-Ma02516 S20-Ma02517	x x		X X X	X X X	×		X X	X X X X	X X						
27 SB19_1.0 28 SB19_1.5 29 SB20_0.2 30 MW1_0.2 31 MW1_0.5 32 MW2_0.1	Feb 28, 2020 Feb 28, 2020 Feb 28, 2020 Feb 28, 2020 Feb 28, 2020 Feb 28, 2020	Soil Soil Soil Soil Soil Soil Soil Soil Soil Soil Soil Soil Soil Soil	S20-Ma02513 S20-Ma02514 S20-Ma02515 S20-Ma02516 S20-Ma02517 S20-Ma02518	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						
27 SB19_1.0 28 SB19_1.5 29 SB20_0.2 30 MW1_0.2 31 MW1_0.5 32 MW2_0.1	Feb 28, 2020 Feb 28, 2020 Feb 28, 2020 Feb 28, 2020 Feb 28, 2020 Feb 28, 2020 Feb 28, 2020 Feb 28, 2020	Soil Soil Soil Soil Soil Soil Soil Soil Soil Soil Soil Soil Soil Soil	S20-Ma02513 S20-Ma02514 S20-Ma02515 S20-Ma02516 S20-Ma02517 S20-Ma02518 S20-Ma02519	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 X						
27 SB19_1.0 28 SB19_1.5 29 SB20_0.2 30 MW1_0.2 31 MW1_0.5 32 MW2_0.1 33 MW2_4.0	Feb 28, 2020 Feb 28, 2020 Feb 28, 2020 Feb 28, 2020 Feb 28, 2020 Feb 28, 2020 Feb 28, 2020 Feb 28, 2020 Feb 28, 2020 Feb 28, 2020	Soil 9 Soil 9 Soil 9 Soil 9 Soil 9 Soil 9 Soil 9 Soil 9 Soil 9 Soil 9 Soil 9 Soil 9 Soil 9 Soil 9	S20-Ma02513 S20-Ma02514 S20-Ma02515 S20-Ma02516 S20-Ma02517 S20-Ma02518 S20-Ma02519 S20-Ma02520	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 X X	X X X X X X						

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	ompany Name: JBS & G Australia (NSW) P/L ddress: Level 1, 50 Margaret St Sydney NSW 2000 roject Name: PARRAMATTA POWERHOUSE roject ID: 58352					Re Pl	rder N eport none: ax:	#:		70537)2 824	3 15 030	0				Received: Due: Priority: Contact Name:	Mar 2, 2020 4:56 PM Mar 9, 2020 5 Day Julia Nicholson	
			POWERHOUSE													Eurofins Analytica	l Services Manager : Ur	sula Long
		Samp	ple Detail		Asbestos - WA guidelines	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	Eurofins mgt Suite B13	BTEX and Naphthalene	Volatile Organics	Moisture Set	Total Recoverable Hydrocarbons	BTEXN and Volatile TRH				
Velb	ourne Laborato	ry - NATA Site # [·]	1254 & 14271															
Sydn	ey Laboratory -	NATA Site # 182	:17		Х	х	х	х	х	Х	Х	Х	Х	х				
Brisb	ane Laboratory	- NATA Site # 20)794															
Perth	Laboratory - N	ATA Site # 23736	3															
		Feb 28, 2020	Soil	S20-Ma02524			х	х				х						
38	QS03	Feb 28, 2020	Soil	S20-Ma02525			х	х				х						
	RINSATE	Feb 28, 2020	Water	S20-Ma02526			х	Х	X		X		х					
	TS	Feb 27, 2020	Water	S20-Ma02527						Х								
	ТВ	Feb 27, 2020	Water	S20-Ma02528										X				
	SB1_0.5	Feb 28, 2020	Soil	S20-Ma02529		X												
	SB1_1.0	Feb 28, 2020	Soil	S20-Ma02530		X												
		Feb 28, 2020	Soil	S20-Ma02531		X												
		Feb 28, 2020	Soil	S20-Ma02532		X												
		Feb 28, 2020	Soil	S20-Ma02533		X												
47	SB4_1.0	Feb 28, 2020	Soil	S20-Ma02534		X												
				000 14-00505	1	X	1		1	1	1		I	I				
48	SB4_1.5 SB6_1.0	Feb 28, 2020 Feb 28, 2020	Soil Soil	S20-Ma02535 S20-Ma02536		X												

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BN - 50 005 0		web : www.eurofine	Environme s.com.au e.mail : Enviro	nt Testing Sales@eurofins.com	Melbour 6 Monter Dandend Phone : NATA # Site # 12	rey Roa ong Sou +61 3 8 1261	uth VIC 3 564 500	0		, Buildir s Road ove We : +61 2	est NSW 9900 84	00	Murai Phone	Smallwoo rrie QLD e : +61 7	od Place 4172 7 3902 4600 Site # 20794	Perth 2/91 Leach Highway Kewdale WA 6105 Phone : +61 8 9251 9600 NATA # 1261 Site # 23736	Auckland 35 O'Rorke Road Penrose, Auckland 1061 Phone : +64 9 526 45 51 IANZ # 1327	Christchurch 43 Detroit Drive Rolleston, Christchurch Phone : 0800 856 450 IANZ # 1290
Company Address:	-	JBS & G Aus Level 1, 50 M Sydney NSW 2000	tralia (NSW) P/L largaret St			R P	Order I Report Phone: Tax:	#:		70537)2 824	'3 45 03(00				Received: Due: Priority: Contact Name:	Mar 2, 2020 4:56 PM Mar 9, 2020 5 Day Julia Nicholson	1
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		Sa	mple Detail		Asbestos - WA guidelines	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	Eurofins mgt Suite B13	BTEX and Naphthalene	Volatile Organics	Moisture Set	Total Recoverable Hydrocarbons	BTEXN and Volatile TRH				
Melbourne	e Laborato	ry - NATA Site	# 1254 & 14271															
Sydney La	aboratory -	NATA Site # 1	8217		Х	X	х	х	х	Х	х	х	х	х				
Brisbane L	aboratory	- NATA Site #	20794															
		ATA Site # 237																
50 SB6_		Feb 28, 2020	Soil	S20-Ma0253	7	X												
51 SB7_(Feb 28, 2020	Soil	S20-Ma02538	3	X												
52 SB8_(Feb 28, 2020	Soil	S20-Ma02539	9	X												
53 SB8_		Feb 28, 2020	Soil	S20-Ma02540		X		 										
54 SB9_0		Feb 28, 2020	Soil	S20-Ma0254		X		 										
55 SB9_		Feb 28, 2020	Soil	S20-Ma02542	2	X		 										
56 SB10		Feb 28, 2020	Soil	S20-Ma02543	3	X		 						\mid				
57 SB10		Feb 28, 2020	Soil	S20-Ma0254	4	X		<u> </u>										
	0.2	Feb 28, 2020	Soil	S20-Ma0254	5	X		<u> </u>										
58 SB11				000 14-005 4	3	X												
58 SB11 59 SB11	_1.5	Feb 28, 2020	Soil	S20-Ma02546	,						1		1	1				
58 SB11 59 SB11	_1.5	Feb 28, 2020 Feb 28, 2020	Soil Soil	S20-Ma0254		Х												
58 SB11 59 SB11	_1.5 2_0.5				7	X X												

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Environment Testing N - 50 005 085 521 web : www.eurofins.com.au e.mail : EnviroSales@eurofins.com Company Name: JBS & G Australia (NSW) P/L	Testing	Melbour Monter Dandeno Phone : + IATA # 7 Site # 12	ey Road ng Sout -61 3 85 I261	th VIC 3 564 500	175)	Sydney Unit F3, 16 Mars Lane Co Phone : NATA #	, Buildir s Road ove We : +61 2	st NSW 9900 84	00	Murar Phone	Smallwoo rrie QLD e : +61 7	od Place 4172 7 3902 4600 Site # 20794	Perth 2/91 Leach Highway Kewdale WA 6105 Phone : +61 8 9251 9600 NATA # 1261 Site # 23736	Auckland 35 O'Rorke Road Penrose, Auckland 1061 Phone : +64 9 526 45 51 IANZ # 1327	Christchurch 43 Detroit Drive Rolleston, Christchurch Phone : 0800 856 450 IANZ # 1290			
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Project Name: Project ID:	PARRAMATTA P 58352	OWERHOUSE													Eurofins Analytica	l Services Manager : Ur	sula Long	
	Sample	Detail		Asbestos - WA guidelines	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	Eurofins mgt Suite B13	BTEX and Naphthalene	Volatile Organics	Moisture Set	Total Recoverable Hydrocarbons	BTEXN and Volatile TRH					
Melbourne Laborato	ory - NATA Site # 12	54 & 14271																
Sydney Laboratory	- NATA Site # 18217			Х	Х	Х	х	х	Х	х	Х	х	х					
Brisbane Laborator	y - NATA Site # 2079	94																
Perth Laboratory - N	ATA Site # 23736																	
63 SB13_1.5	Feb 28, 2020	Soil	S20-Ma02550		Х													
64 SB14_0.2	Feb 28, 2020	Soil	S20-Ma02551		X													
65 SB15_0.2	Feb 28, 2020	Soil	S20-Ma02552		Х													
66 SB15_0.5	Feb 28, 2020	Soil	S20-Ma02553		X													
67 SB15_1.0	Feb 28, 2020	Soil	S20-Ma02554		X													
68 SB16_0.5	Feb 28, 2020	Soil	S20-Ma02555		X								\mid					
69 SB16_1.0	Feb 28, 2020	Soil	S20-Ma02556		X													
70 SB16_1.5	Feb 28, 2020	Soil	S20-Ma02557		Х													
71 SB17_0.4	Feb 28, 2020	Soil	S20-Ma02558		Х													
		01	S20-Ma02559		Х													
72 SB17_0.5	Feb 28, 2020	Soil	020 111002000			1	1	1	1	1	1	I I	1					
	Feb 28, 2020 Feb 28, 2020	Soil	S20-Ma02560		Х													
72 SB17_0.5					X X													

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ABN - 50 005 085 521		au e.mail : EnviroSales@	Testing	Melbour Monter Dandence Phone : - NATA # Site # 12	ey Road ng Sout -61 3 85 I261	th VIC 3 564 5000	175 0	Sydney Unit F3, 16 Mars Lane Co Phone : NATA #	, Buildir s Road ove We : +61 2	st NSW 9900 84	00	Murar Phone	Smallwoo rrie QLD e : +61 7	od Place 4172 7 3902 4600 Site # 20794	Perth 2/91 Leach Highway Kewdale WA 6105 Phone : +61 8 9251 9600 NATA # 1261 Site # 23736	Auckland 35 O'Rorke Road Penrose, Auckland 1061 Phone : +64 9 526 45 51 IANZ # 1327	Christchurch 43 Detroit Drive Rolleston, Christchurch Phone : 0800 856 450 IANZ # 1290
Company Name: Address:	JBS & G Australia Level 1, 50 Marga Sydney NSW 2000	· · ·			R	rder N eport hone: ax:	#:		70537)2 824	3 15 030	0				Received: Due: Priority: Contact Name:	Mar 2, 2020 4:56 PM Mar 9, 2020 5 Day Julia Nicholson	
Project Name: Project ID:	PARRAMATTA P 58352	OWERHOUSE													Eurofins Analytica	l Services Manager : Ur	sula Long
Sample Detail			Asbestos - WA guidelines	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	Eurofins mgt Suite B13	BTEX and Naphthalene	Volatile Organics	Moisture Set	Total Recoverable Hydrocarbons	BTEXN and Volatile TRH					
Melbourne Laborato	ory - NATA Site # 12	54 & 14271															
Sydney Laboratory	- NATA Site # 18217	,		Х	Х	Х	Х	х	Х	Х	Х	х	х				
Brisbane Laboratory	y - NATA Site # 2079	94															
Perth Laboratory - N	ATA Site # 23736																
76 SB19_0.1	Feb 28, 2020	Soil	S20-Ma02563		Х												
77 SB19_0.5	Feb 28, 2020	Soil	S20-Ma02564		X												
78 SB20_0.5	Feb 28, 2020	Soil	S20-Ma02565		X												
79 SB20_1.0	Feb 28, 2020	Soil	S20-Ma02566	1	X												
80 SB20_1.5	Feb 28, 2020	Soil	S20-Ma02567		X												
81 MW1_1.0	Feb 28, 2020	Soil	S20-Ma02568	1	X												
82 MW1_1.5	Feb 28, 2020	Soil	S20-Ma02569	1	X								\mid				
83 MW1_4.0	Feb 28, 2020	Soil	S20-Ma02570	1	Х												
		Soil	S20-Ma02571	1	Х												
84 MW1_5.0	Feb 28, 2020			1	X	1											
84 MW1_5.0 85 MW1_6.0	Feb 28, 2020	Soil	S20-Ma02572		<u> </u>	-											
84 MW1_5.0 85 MW1_6.0		Soil Soil	S20-Ma02572 S20-Ma02573		X												
84 MW1_5.0 85 MW1_6.0	Feb 28, 2020																

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BN - 50 005 085 521	web : www.eurofin	Environ	ment T	esting	Ielbourn Monter andeno hone : + ATA # 1 ite # 12	ey Road ng Sout 61 3 85 261	h VIC 3 64 500	175 0	16 Mars Lane Co Phone :	, Buildin	st NSW 9900 84	00	Murar Phone	Smallwo rrie QLD e : +61 7	ood Place 0 4172 7 3902 4600 Site # 20794	Perth 2/91 Leach Highway Kewdale WA 6105 Phone : +61 8 9251 9600 NATA # 1261 Site # 23736	Auckland 35 O'Rorke Road Penrose, Auckland 1061 Phone : +64 9 526 45 51 IANZ # 1327	Christchurch 43 Detroit Drive Rolleston, Christchurch 7675 Phone: 0800 856 450 IANZ # 1290
Company Name: JBS & G Australia (NSW) P/L Address: Level 1, 50 Margaret St Sydney NSW 2000			Order No.: Report #: Phone: Fax:				705373 02 8245 0300							Received: Due: Priority: Contact Name:	Mar 2, 2020 4:56 PM Mar 9, 2020 5 Day Julia Nicholson			
Project Name: Project ID:	PARRAMAT 58352	TA POWERHC	OUSE													Eurofins Analytical	l Services Manager : Ur	sula Long
	Sa	mple Detail			Asbestos - WA guidelines	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	Eurofins mgt Suite B13	BTEX and Naphthalene	Volatile Organics	Moisture Set	Total Recoverable Hydrocarbons	BTEXN and Volatile TRH				
Melbourne Laborato	ory - NATA Site	# 1254 & 1427	'1							ļ'								
Sydney Laboratory - NATA Site # 18217			Х	X	Х	Х	Х	Х	X	Х	Х	X	-					
Brisbane Laboratory										 '								
Perth Laboratory - N										 '					ļ			
	Feb 28, 2020		Soil	S20-Ma02576		X				 '								
	Feb 28, 2020		Soil	S20-Ma02577		X				 '				$\left - \right $	ł			
	Feb 28, 2020		Soil	S20-Ma02578		X	<u> </u>			<u> </u> '					-			
	Feb 28, 2020		Soil Soil	S20-Ma02579		X				<u> </u> '				$\left \right $	-			
	Feb 28, 2020 Feb 28, 2020		Soil Soil	S20-Ma02580 S20-Ma02581		X X	<u> </u>			<u> </u> '				$\left \right $	-			
	r e d 20, 2020		3011	1320-IVI802381	22		26	26	7	1	16	26	16	1	1			
Test Counts					22	53	36	36	7	1	16	36	16	1]			



Internal Quality Control Review and Glossary

General

- Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site 1. 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.
- 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.
- This report replaces any interim results previously issued. 9.

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. **NOTE: pH duplicates are reported as a range NOT as RPD

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	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.3
СР	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

QC - Acceptance Criteria

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%

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 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

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. Organochlorine Pesticide analysis where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
- 4. Organochlorine Pesticide analysis where reporting Spike data, Toxaphene is not added to the Spike.
- Total Recoverable Hydrocarbons where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported 5. in the C10-C14 cell of the Report.
- 6. 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.
- 7. Recovery Data (Spikes & Surrogates) where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
- 8. Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
- 9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
- 10. 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 - 2013 NEPM Fracti	ons				
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					
Total Recoverable Hydrocarbons - 1999 NEPM Fracti	ons				
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	
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	ing/E	0.000	0.000	1 400	
Volatile Organics				[
1.1-Dichloroethane	mg/L	< 0.001	0.001	Pass	
1.1-Dichloroethene	mg/L	< 0.001	0.001	Pass	
1.1.1-Trichloroethane	mg/L	< 0.001	0.001	Pass	
1.1.1.2-Tetrachloroethane	mg/L	< 0.001	0.001	Pass	
1.1.2-Trichloroethane	mg/L	< 0.001	0.001	Pass	
1.1.2.2-Tetrachloroethane	-	< 0.001	0.001	Pass	
1.2-Dibromoethane	mg/L	< 0.001	0.001	Pass	
	mg/L	< 0.001			
1.2-Dichlorobenzene	mg/L	< 0.001	0.001	Pass	
1.2-Dichloroethane 1.2-Dichloropropane	mg/L	< 0.001	0.001	Pass	
	mg/L		0.001	Pass	
1.2.3-Trichloropropane	mg/L	< 0.001	0.001	Pass	
1.2.4-Trimethylbenzene	mg/L	< 0.001	0.001	Pass	
1.3-Dichlorobenzene	mg/L	< 0.001	0.001	Pass	
1.3-Dichloropropane	mg/L	< 0.001	0.001	Pass	
1.3.5-Trimethylbenzene	mg/L	< 0.001	0.001	Pass	
1.4-Dichlorobenzene	mg/L	< 0.001	0.001	Pass	
2-Butanone (MEK)	mg/L	< 0.001	0.001	Pass	
2-Propanone (Acetone)	mg/L	< 0.001	0.001	Pass	
4-Chlorotoluene	mg/L	< 0.001	0.001	Pass	
4-Methyl-2-pentanone (MIBK)	mg/L	< 0.001	0.001	Pass	
Allyl chloride	mg/L	< 0.001	0.001	Pass	
Bromobenzene	mg/L	< 0.001	0.001	Pass	
Bromochloromethane	mg/L	< 0.001	0.001	Pass	
Bromodichloromethane	mg/L	< 0.001	0.001	Pass	
Bromoform	mg/L	< 0.001	0.001	Pass	
Bromomethane	mg/L	< 0.001	0.001	Pass	
Carbon disulfide	mg/L	< 0.001	0.001	Pass	
Carbon Tetrachloride	mg/L	< 0.001	0.001	Pass	
Chlorobenzene	mg/L	< 0.001	0.001	Pass	



Test	Units	Result 1	Acce	eptance imits	Pass Limits	Qualifying Code
Chloroethane	mg/L	< 0.001	0	.001	Pass	
Chloroform	mg/L	< 0.005	0	.005	Pass	
Chloromethane	mg/L	< 0.001	0	.001	Pass	
cis-1.2-Dichloroethene	mg/L	< 0.001	0	.001	Pass	
cis-1.3-Dichloropropene	mg/L	< 0.001	0	.001	Pass	
Dibromochloromethane	mg/L	< 0.001	0	.001	Pass	
Dibromomethane	mg/L	< 0.001	0	.001	Pass	
Dichlorodifluoromethane	mg/L	< 0.001	0	.001	Pass	
lodomethane	mg/L	< 0.001	0	.001	Pass	
Isopropyl benzene (Cumene)	mg/L	< 0.001	0	.001	Pass	
Methylene Chloride	mg/L	< 0.001	0	.001	Pass	
Styrene	mg/L	< 0.001	0	.001	Pass	
Tetrachloroethene	mg/L	< 0.001	0	.001	Pass	
trans-1.2-Dichloroethene	mg/L	< 0.001	0	.001	Pass	
trans-1.3-Dichloropropene	mg/L	< 0.001	0	.001	Pass	
Trichloroethene	mg/L	< 0.001	0	.001	Pass	
Trichlorofluoromethane	mg/L	< 0.001		.001	Pass	
Vinyl chloride	mg/L	< 0.001		.001	Pass	
Method Blank		1	~			
Heavy Metals						
Arsenic	mg/L	< 0.001	0	.001	Pass	
Cadmium	mg/L	0.0002		0002	Pass	
Chromium	mg/L	< 0.0002		.001	Pass	
Copper	mg/L	< 0.001		.001	Pass	
Lead	mg/L	< 0.001		.001	Pass	
Mercury	mg/L	< 0.0001		0001	Pass	
Zinc	mg/L	< 0.005		.005	Pass	
LCS - % Recovery	mg/∟	< 0.000		.005	1 455	
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene	%	110	70	0-130	Pass	
TRH C6-C10	%	73		D-130	Pass	
TRH >C10-C16	%	73		D-130	Pass	
LCS - % Recovery	/0	13		J-130	r ass	
Total Recoverable Hydrocarbons - 1999 NEPM Fractions TRH C6-C9	%	71	70	0-130	Pass	
TRH C10-C14	%	74		D-130	Pass	
LCS - % Recovery	/0	74		J-130	F 855	
BTEX	%	110	70	120	Deee	
Benzene		112		D-130	Pass	
Toluene	%	109		0-130	Pass	
Ethylbenzene	%	105		D-130	Pass	
m&p-Xylenes	%	110		0-130	Pass	
o-Xylene	%	110		0-130	Pass	
Xylenes - Total	%	110		0-130	Pass	
LCS - % Recovery				1		
Volatile Organics						
1.1-Dichloroethene	%	115		0-130	Pass	
1.1.1-Trichloroethane	%	109		0-130	Pass	
1.2-Dichlorobenzene	%	107		0-130	Pass	
1.2-Dichloroethane	%	109		0-130	Pass	
Trichloroethene	%	120	70	0-130	Pass	
LCS - % Recovery		1				
Polycyclic Aromatic Hydrocarbons	1					
Benzo(a)pyrene	%	127	70	0-130	Pass	



Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Naphthalene			%	75			70-130	Pass	
LCS - % Recovery				4					
Heavy Metals									
Arsenic			%	100			70-130	Pass	
Cadmium			%	104			70-130	Pass	
Chromium			%	101			70-130	Pass	
Copper			%	97			70-130	Pass	
Lead			%	101			70-130	Pass	
Mercury			%	109			70-130	Pass	
Zinc			%	97			70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike % Decovery	•	Source					Limits	Limits	Code
Spike - % Recovery				Desult 4			T	1	
Heavy Metals	000 Ma00707	NOD	0/	Result 1			70.400	Deee	
Arsenic	S20-Ma00787	NCP	%	102			70-130	Pass	
Cadmium	S20-Ma00787	NCP	%	99			70-130	Pass	
Chromium	S20-Ma00787	NCP	%	96			70-130	Pass	
Copper	S20-Ma00787	NCP	%	91			70-130	Pass	
Lead	S20-Ma00787	NCP	%	93			70-130	Pass	
Mercury	S20-Ma00787	NCP	%	99			70-130	Pass	
Zinc	S20-Ma00787	NCP	%	91			70-130	Pass	
Spike - % Recovery				1	1 1		-	1	
Total Recoverable Hydrocarbons -				Result 1					
Naphthalene	S20-Ma00728	NCP	%	122			70-130	Pass	
Spike - % Recovery					1 1		T	1	
BTEX	1			Result 1					
Benzene	S20-Ma00728	NCP	%	90			70-130	Pass	
Toluene	S20-Ma00728	NCP	%	98			70-130	Pass	
Ethylbenzene	S20-Ma00728	NCP	%	109			70-130	Pass	
m&p-Xylenes	S20-Ma00728	NCP	%	111			70-130	Pass	
o-Xylene	S20-Ma00728	NCP	%	110			70-130	Pass	
Xylenes - Total	S20-Ma00728	NCP	%	111			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons -	2013 NEPM Fract	tions		Result 1					
TRH C6-C10	S20-Ma00728	NCP	%	90			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons -	1999 NEPM Fract	tions		Result 1					
TRH C6-C9	S20-Ma00728	NCP	%	93			70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate	I				·				
Total Recoverable Hydrocarbons -	2013 NEPM Fract	tions		Result 1	Result 2	RPD			
Naphthalene	S20-Fe37035	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
TRH C6-C10	S20-Fe37035	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons -	1999 NEPM Fract	tions		Result 1	Result 2	RPD			
TRH C6-C9	S20-Fe37035	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
Duplicate			g/ L	<u>, , 0.02</u>	- 0.0Z		0070	1 400	
BTEX				Result 1	Result 2	RPD			
Benzene	S20-Fe37035	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Toluene	S20-Fe37035	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Ethylbenzene	S20-Fe37035	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
	S20-Fe37035	NCP			< 0.001	<1 <1	30%	Pass	
m&p-Xylenes			mg/L	< 0.002					
o-Xylene	S20-Fe37035	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Xylenes - Total	S20-Fe37035	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	



Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	S20-Fe37035	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1-Dichloroethene	S20-Fe37035	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1.1-Trichloroethane	S20-Fe37035	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	S20-Fe37035	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1.2-Trichloroethane	S20-Fe37035	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	S20-Fe37035	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2-Dibromoethane	S20-Fe37035	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2-Dichlorobenzene	S20-Fe37035	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2-Dichloroethane	S20-Fe37035	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2-Dichloropropane	S20-Fe37035	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2.3-Trichloropropane	S20-Fe37035	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2.4-Trimethylbenzene	S20-Fe37035	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.3-Dichlorobenzene	S20-Fe37035	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.3-Dichloropropane	S20-Fe37035	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.3.5-Trimethylbenzene	S20-Fe37035	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.4-Dichlorobenzene	S20-Fe37035	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
2-Butanone (MEK)	S20-Fe37035	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
2-Propanone (Acetone)	S20-Fe37035	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
4-Chlorotoluene	S20-Fe37035	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	S20-Fe37035	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Allyl chloride	S20-Fe37035	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromobenzene	S20-Fe37035	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromochloromethane	S20-Fe37035	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromodichloromethane	S20-Fe37035	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromoform	S20-Fe37035	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromomethane	S20-Fe37035	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Carbon disulfide	S20-Fe37035	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Carbon Tetrachloride	S20-Fe37035	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chlorobenzene	S20-Fe37035	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chloroethane	S20-Fe37035	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chloroform	S20-Fe37035	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Chloromethane	S20-Fe37035	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
cis-1.2-Dichloroethene	S20-Fe37035	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
cis-1.3-Dichloropropene	S20-Fe37035	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dibromochloromethane	S20-Fe37035	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dibromomethane	S20-Fe37035	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dichlorodifluoromethane	S20-Fe37035	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Iodomethane	S20-Fe37035	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Isopropyl benzene (Cumene)	S20-Fe37035	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Methylene Chloride	S20-Fe37035	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Styrene	S20-Fe37035	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Tetrachloroethene	S20-Fe37035	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
trans-1.2-Dichloroethene	S20-Fe37035	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
trans-1.3-Dichloropropene	S20-Fe37035	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Trichloroethene	S20-Fe37035	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Trichlorofluoromethane	S20-Fe37035	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Vinyl chloride	S20-Fe37035	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Duplicate						PRE			
Heavy Metals				Result 1	Result 2	RPD		+	
Arsenic	S20-Ma05285	NCP	mg/L	< 0.001	0.001	28	30%	Pass	
Cadmium	S20-Ma05285	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Chromium	S20-Ma05285	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Copper	S20-Ma05285	NCP	mg/L	0.004	0.003	3.0	30%	Pass	
Lead	S20-Ma05285	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	



Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Mercury	S20-Ma05285	NCP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Zinc	S20-Ma05285	NCP	mg/L	0.016	0.015	8.0	30%	Pass	



Comments

This report has been revised (V2) to amend sample name for S20-Ma02492.

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

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 N01 (Purge & Trap analysis).

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.

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

R20 This sample is a Trip Spike and therefore all results are reported as a percentage

Authorised By

Ursula Long Andrew Sullivan Gabriele Cordero Analytical Services Manager Senior Analyst-Organic (NSW) Senior Analyst-Metal (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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CERTIFICATE OF ANALYSIS 237935

Client Details	
Client	JBS & G (NSW & WA) Pty Ltd
Attention	J Nicholson
Address	Level 1, 50 Margaret St, Sydney, NSW, 2000

Sample Details	
Your Reference	58352, Parramatta Powerhouse
Number of Samples	4 Soil
Date samples received	02/03/2020
Date completed instructions received	02/03/2020

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Report Details					
Date results requested by	09/03/2020				
Date of Issue	09/03/2020				
NATA Accreditation Number 2901. This document shall not be reproduced except in full.					
Accredited for compliance with ISO/IEC 17025 - Testing. Tests not covered by NATA are denoted with *					

Results Approved By Josh Williams, Senior Chemist Loren Bardwell, Senior Chemist Steven Luong, Organics Supervisor Authorised By

Nancy Zhang, Laboratory Manager



PAHs in Soil				
Our Reference		237935-1	237935-2	237935-3
Your Reference	UNITS	QS01a	QS02a	QS03a
Date Sampled		28/02/2020	28/02/2020	28/02/2020
Type of sample		Soil	Soil	Soil
Date extracted	-	04/03/2020	04/03/2020	04/03/2020
Date analysed	-	05/03/2020	05/03/2020	05/03/2020
Naphthalene	mg/kg	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	91	94	100

Acid Extractable metals in soil				
Our Reference		237935-1	237935-2	237935-3
Your Reference	UNITS	QS01a	QS02a	QS03a
Date Sampled		28/02/2020	28/02/2020	28/02/2020
Type of sample		Soil	Soil	Soil
Date prepared	-	06/03/2020	06/03/2020	06/03/2020
Date analysed	-	06/03/2020	06/03/2020	06/03/2020
Arsenic	mg/kg	5	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4
Chromium	mg/kg	10	5	3
Copper	mg/kg	14	9	2
Lead	mg/kg	14	35	4
Mercury	mg/kg	<0.1	<0.1	<0.1
Nickel	mg/kg	5	3	1
Zinc	mg/kg	18	18	3

Moisture				
Our Reference		237935-1	237935-2	237935-3
Your Reference	UNITS	QS01a	QS02a	QS03a
Date Sampled		28/02/2020	28/02/2020	28/02/2020
Type of sample		Soil	Soil	Soil
Date prepared	-	04/03/2020	04/03/2020	04/03/2020
Date analysed	-	05/03/2020	05/03/2020	05/03/2020
Moisture	%	9.9	8.0	4.7

Method ID	Methodology Summary
Inorg-008	Moisture content determined by heating at 105+/-5 °C for a minimum of 12 hours.
Metals-020	Determination of various metals by ICP-AES.
Metals-021	Determination of Mercury by Cold Vapour AAS.
Org-012/017	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS and/or GC-MS/MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013. For soil results:- 1. 'EQ PQL'values are assuming all contributing PAHs reported as <pql actually="" and="" approach="" are="" at="" be="" calculation="" can="" conservative="" contribute="" false="" give="" given="" is="" may="" most="" not="" pahs="" positive="" pql.="" present.<br="" teq="" teqs="" that="" the="" this="" to="">2. 'EQ zero'values are assuming all contributing PAHs reported as <pql and="" approach="" are="" below="" but="" calculation="" conservative="" contribute="" false="" is="" least="" more="" negative="" pahs="" pql.<br="" present="" susceptible="" teq="" teqs="" that="" the="" this="" to="" when="" zero.="">3. 'EQ half PQL'values are assuming all contributing PAHs reported as <pql a="" above.<br="" and="" approaches="" are="" between="" conservative="" half="" hence="" least="" mid-point="" most="" pql.="" stipulated="" the="">Note, the Total +ve PAHs PQL is reflective of the lowest individual PQL and is therefore "Total +ve PAHs" is simply a sum of the positive individual PAHs.</pql></pql></pql>

QUALI	TY CONTRO	L: PAHs	in Soil			Du	plicate		Spike Rec	overy %
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-8	[NT]
Date extracted	-			04/03/2020	[NT]		[NT]	[NT]	04/03/2020	
Date analysed	-			05/03/2020	[NT]		[NT]	[NT]	05/03/2020	
Naphthalene	mg/kg	0.1	Org-012/017	<0.1	[NT]		[NT]	[NT]	104	
Acenaphthylene	mg/kg	0.1	Org-012/017	<0.1	[NT]		[NT]	[NT]	[NT]	
Acenaphthene	mg/kg	0.1	Org-012/017	<0.1	[NT]		[NT]	[NT]	[NT]	
Fluorene	mg/kg	0.1	Org-012/017	<0.1	[NT]		[NT]	[NT]	98	
Phenanthrene	mg/kg	0.1	Org-012/017	<0.1	[NT]		[NT]	[NT]	92	
Anthracene	mg/kg	0.1	Org-012/017	<0.1	[NT]		[NT]	[NT]	[NT]	
Fluoranthene	mg/kg	0.1	Org-012/017	<0.1	[NT]		[NT]	[NT]	98	
Pyrene	mg/kg	0.1	Org-012/017	<0.1	[NT]		[NT]	[NT]	94	
Benzo(a)anthracene	mg/kg	0.1	Org-012/017	<0.1	[NT]		[NT]	[NT]	[NT]	
Chrysene	mg/kg	0.1	Org-012/017	<0.1	[NT]		[NT]	[NT]	66	
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-012/017	<0.2	[NT]		[NT]	[NT]	[NT]	
Benzo(a)pyrene	mg/kg	0.05	Org-012/017	<0.05	[NT]		[NT]	[NT]	84	
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-012/017	<0.1	[NT]		[NT]	[NT]	[NT]	
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-012/017	<0.1	[NT]		[NT]	[NT]	[NT]	
Benzo(g,h,i)perylene	mg/kg	0.1	Org-012/017	<0.1	[NT]		[NT]	[NT]	[NT]	
Surrogate p-Terphenyl-d14	%		Org-012/017	101	[NT]		[NT]	[NT]	98	

QUALITY CONTROL: Acid Extractable metals in soil						Dup		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-8	[NT]
Date prepared	-			06/03/2020	[NT]	[NT]		[NT]	06/03/2020	
Date analysed	-			06/03/2020	[NT]	[NT]		[NT]	06/03/2020	
Arsenic	mg/kg	4	Metals-020	<4	[NT]	[NT]		[NT]	113	
Cadmium	mg/kg	0.4	Metals-020	<0.4	[NT]	[NT]		[NT]	106	
Chromium	mg/kg	1	Metals-020	<1	[NT]	[NT]		[NT]	123	
Copper	mg/kg	1	Metals-020	<1	[NT]	[NT]		[NT]	116	
Lead	mg/kg	1	Metals-020	<1	[NT]	[NT]		[NT]	125	
Mercury	mg/kg	0.1	Metals-021	<0.1	[NT]	[NT]		[NT]	98	
Nickel	mg/kg	1	Metals-020	<1	[NT]	[NT]		[NT]	109	
Zinc	mg/kg	1	Metals-020	<1	[NT]	[NT]		[NT]	117	

Result Definiti	ons
NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions					
Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.				
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.				
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.				
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.				
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.				

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from "2018 TLVs and BEIs", as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

CHAIN OF CUSTODY POIL 20910 SIBSEG

PROJECT NO .: 59752						LABORATORY BATCH NO.:										
PROJECT NAME:	PROJECT NO.: 58352 I PROJECT NAME: forganatta fore-house S					SAMPLERS: JN										
DATE NEEDED BY:	Stadan	(QC LEVEL: NEPM (2013)											
	8245 0300 Perth:									_						
SEND REPORT & IN	VOICE TO: (1) admin	nsw@jbsg.com.au;	(2) JNichelson @	jbsg.com.a	au; (3)				@jb	sg.com.	au					
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OF: JBS&G 7/20 TRANSPORT CO.			DATE: OF:	U ² [(. كر كر	13:14			FR TFM	P de	ee C					
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Container & Preservative	coues: P = Plastic; J = Soll Jar;	, o – Glass Bottle; N = Nitric.	Acia risva, c – soulani riyatoxide Prsva; va			vu vidi, V3	- Sunul	TC ACIU PIS	vu viai, 5 -	Sumanc Ac	u risvu;		. 3VU, C -	LUIAF	574,3	

IMSO FormsO13 - Chain of Custody - Generic



Envirolab Services Pty Ltd ABN 37 112 535 645 12 Ashley St Chatswood NSW 2067 ph 02 9910 6200 fax 02 9910 6201 customerservice@envirolab.com.au www.envirolab.com.au

SAMPLE RECEIPT ADVICE

Client Details	
Client	JBS & G (NSW & WA) Pty Ltd
Attention	J Nicholson

Sample Login Details	
Your reference	58352, Parramatta Powerhouse
Envirolab Reference	237935
Date Sample Received	02/03/2020
Date Instructions Received	02/03/2020
Date Results Expected to be Reported	09/03/2020

Sample Condition	
Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	4 Soil
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	8.4
Cooling Method	Ice Pack
Sampling Date Provided	YES

Comments Nil

Please direct any queries to:

Aileen Hie	Jacinta Hurst
Phone: 02 9910 6200	Phone: 02 9910 6200
Fax: 02 9910 6201	Fax: 02 9910 6201
Email: ahie@envirolab.com.au	Email: jhurst@envirolab.com.au

Analysis Underway, details on the following page:



Envirolab Services Pty Ltd ABN 37 112 535 645 12 Ashley St Chatswood NSW 2067 ph 02 9910 6200 fax 02 9910 6201 customerservice@envirolab.com.au www.envirolab.com.au

Sample ID	PAHs in Soil	Acid Extractable metalsin soil	On Hold
QS01a	1	✓	
QS02a	1	\checkmark	
QS03a	1	✓	
QS04a			\checkmark

The ' \checkmark ' indicates the testing you have requested. THIS IS NOT A REPORT OF THE RESULTS.

Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.

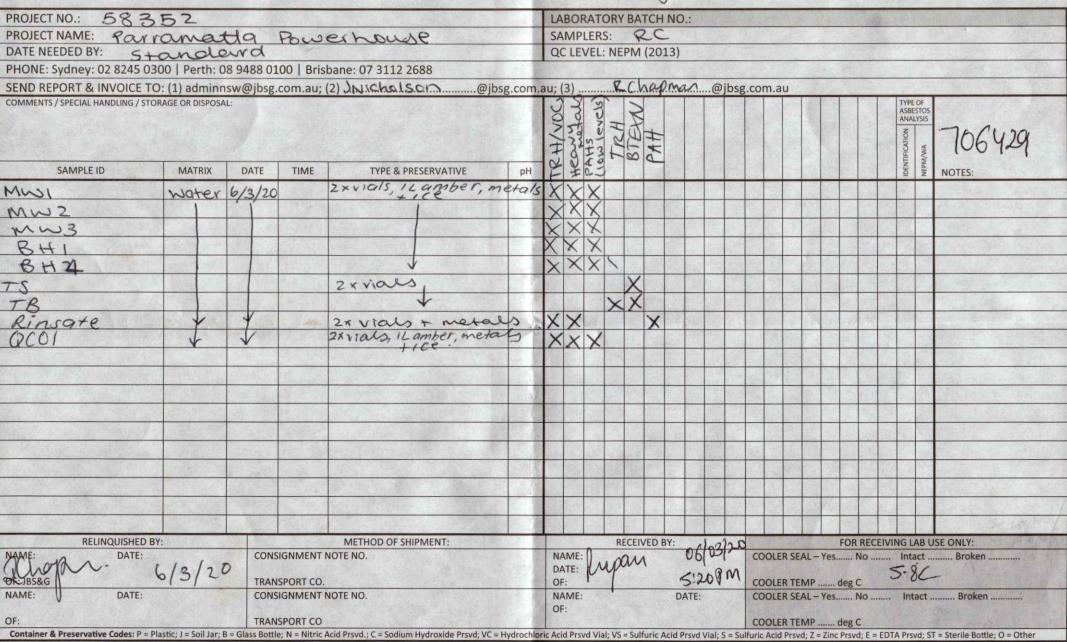
Requests for longer term sample storage must be received in writing.

Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.

TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

CHAIN OF CUSTODY P31/1 20466

BS&G



IMSO FormsO13 - Chain of Custody - Generic



Environment Testing Melbourne 6 Monterey Road Unit F3, Building F Unit F3, Building F Dandenong South Vis 3175 16 Mars Road Place Murarrie QLD 4172 Phone : +61 3 8564 5000 NATA # 1261 Site # 1254 & 14271 NATA # 1261 Site # 16217

Perth 2/91 Leach Highway Kewdale WA 6105 Phone : +61 8 9251 9600 NATA # 1261 Site # 23736

ABN - 50 005 085 521

e.mail : EnviroSales@eurofins.com

web : www.eurofins.com.au

Sample Receipt Advice

Company name:

JBS & G Australia (NSW) P/L

Contact name:	Julia Nicholson
Project name:	PARRAMATTA POWERHOUSE
Project ID:	58352
COC number:	Not provided
Turn around time:	5 Day
Date/Time received:	Mar 6, 2020 5:20 PM
Eurofins reference:	706429

Sample information

- A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- Sample Temperature of a random sample selected from the batch as recorded by Eurofins Sample Receipt : 5.8 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.
- \mathbf{V} Appropriate sample containers have been used.
- Sample containers for volatile analysis received with zero headspace.
- \boxtimes Split sample sent to requested external lab.
- \boxtimes Some samples have been subcontracted.
- Custody Seals intact (if used). Notes^{N/A}

2-vials and metal container received for sample RINSATE, hence logged accordingly.

Contact notes

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

Ursula Long on Phone : or by e.mail: UrsulaLong@eurofins.com

Results will be delivered electronically via e.mail to Julia Nicholson - jnicholson@jbsg.com.au.

🛟 eurofins 🛛															New Zealand	
	Environment Testing N - 50 005 085 521 web : www.eurofins.com.au e.mail : EnviroSales@eurofins.com						Melbourne 6 Monterey Road Dandenong South VIC 3175 Phone : +61 3 8564 5000 NATA # 1261 Site # 1254 & 14271			Sydney Unit F3, Building F 16 Mars Road Lane Cove West NSW 2066 Phone : +61 2 9900 8400 NATA # 1261 Site # 18217			Brisbane 1/21 Smallwood Place Murarrie QLD 4172 Phone : +61 7 3902 4600 NATA # 1261 Site # 20794	Perth 2/91 Leach Highway Kewdale WA 6105 Phone : +61 8 9251 9600 NATA # 1261 Site # 23736	Auckland 35 O'Rorke Road Penrose, Auckland 1061 Phone : +64 9 526 45 51 IANZ # 1327	Christchurch 43 Detroit Drive Rolleston, Christchurch 7 Phone : 0800 856 450 IANZ # 1290
	ompany Name: Idress:	JBS & G Aus Level 1, 50 M Sydney NSW 2000	stralia (NSW) Margaret St	P/L			Re Pl	rder N eport hone: ax:	#:		70642)2 824	29 45 0300		Received: Due: Priority: Contact Name:	Mar 6, 2020 5:20 PN Mar 13, 2020 5 Day Julia Nicholson	٨
	oject Name: oject ID:	PARRAMAT 58352	TA POWERH	IOUSE										Eurofins Analytica	l Services Manager : Ui	rsula Long
Sample Detail							Metals M8	BTEX	Volatile Organics	Total Recoverable Hydrocarbons	BTEXN and Volatile TRH	Polycyclic Aromatic Hydrocarbons (Trace level)				
/lell	oourne Laborato	ory - NATA Site	# 1254 & 142	271		х	Х	Х	Х	х	Х	х				
Syd	ney Laboratory	- NATA Site # 1	8217			_	_	_	_	ļ'						
	bane Laborator					<u> </u>	—	—	—	<u> </u>						
	h Laboratory - N		736			—	—	—	—	<u> </u> '		<u> </u>				
Exte No	ernal Laboratory Sample ID	Sample Date	Sampling Time	Matrix	LAB ID											
1	MW1	Mar 06, 2020		Water	S20-Ma09920	1	Х	1	Х	Х		X				
2	MW2	Mar 06, 2020		Water	S20-Ma09921		Х		Х	Х		x				
3	MW3	Mar 06, 2020		Water	S20-Ma09922		Х		Х	Х		x				
1	BH1	Mar 06, 2020		Water	S20-Ma09923		Х		Х	Х		х				
5	BH4	Mar 06, 2020		Water	S20-Ma09924		Х		Х	Х		х				
6	TS	Mar 06, 2020		Water	S20-Ma09925			Х								
7	ТВ	Mar 06, 2020		Water	S20-Ma09926						Х					
8	RINSATE	Mar 06, 2020		Water	S20-Ma09927	Х	Х		Х							
9	QC01	Mar 06, 2020		Water	S20-Ma09928		Х		Х	Х		х				
	Counts					1	7	T	7	6	1	6				



JBS & G Australia (NSW) P/L Level 1, 50 Margaret St Sydney NSW 2000





NATA Accredited Accreditation Number 1261 Site Number 18217

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.

Attention:

Julia Nicholson

Report Project name Project ID Received Date 706429-W PARRAMATTA POWERHOUSE 58352 Mar 06, 2020

Client Sample ID			MW1	MW2	MW3	BH1
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S20-Ma09920	S20-Ma09921	S20-Ma09922	S20-Ma09923
Date Sampled			Mar 06, 2020	Mar 06, 2020	Mar 06, 2020	Mar 06, 2020
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 2013 NEPM Fract		0				
Naphthalene ^{N02}	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
TRH C6-C10	0.02	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
TRH C6-C10 less BTEX (F1) ^{N04}	0.02	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
TRH >C10-C16	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
TRH >C10-C16 less Naphthalene (F2) ^{N01}	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
TRH >C16-C34	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH >C34-C40	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH >C10-C40 (total)*	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
Total Recoverable Hydrocarbons - 1999 NEPM Fract	tions					
TRH C6-C9	0.02	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
TRH C10-C14	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
TRH C15-C28	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH C29-C36	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH C10-C36 (Total)	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
Volatile Organics						
1.1-Dichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.1-Trichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.1.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.2-Trichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.2.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dibromoethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2.3-Trichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2.4-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.3-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.3-Dichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.3.5-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.4-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
2-Butanone (MEK)	0.001	mg/L	< 0.001	0.001	< 0.001	< 0.001
2-Propanone (Acetone)	0.001	mg/L	0.002	0.021	0.003	0.002
4-Chlorotoluene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
4-Methyl-2-pentanone (MIBK)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001



Client Sample ID			MW1	MW2	MW3	BH1
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S20-Ma09920	S20-Ma09921	S20-Ma09922	S20-Ma09923
Date Sampled			Mar 06, 2020	Mar 06, 2020	Mar 06, 2020	Mar 06, 2020
Test/Reference	LOR	Unit				
Volatile Organics						
Allyl chloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromochloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromodichloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromoform	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Carbon disulfide	0.001	mg/L	< 0.001	0.001	< 0.001	< 0.001
Carbon Tetrachloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chloroform	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Chloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
cis-1.2-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	0.019
cis-1.3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dibromochloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dibromomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dichlorodifluoromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Ethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
lodomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Isopropyl benzene (Cumene)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Methylene Chloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
o-Xylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Styrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Tetrachloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Toluene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
trans-1.2-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
trans-1.3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Trichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Trichlorofluoromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Vinyl chloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Xylenes - Total	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
Total MAH*	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
Vic EPA IWRG 621 CHC (Total)*	0.005	mg/L	< 0.005	< 0.005	< 0.005	0.019
Vic EPA IWRG 621 Other CHC (Total)*	0.005	mg/L	< 0.005	< 0.005	< 0.005	0.019
4-Bromofluorobenzene (surr.)	1	%	97	91	93	94
Toluene-d8 (surr.)	1	%	97	106	105	113
Polycyclic Aromatic Hydrocarbons (Trace level)						
Acenaphthene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Acenaphthylene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Anthracene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benz(a)anthracene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benzo(a)pyrene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benzo(b&j)fluoranthene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benzo(g.h.i)perylene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benzo(k)fluoranthene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Chrysene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001



Client Sample ID			MW1	MW2	MW3	BH1
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S20-Ma09920	S20-Ma09921	S20-Ma09922	S20-Ma09923
Date Sampled			Mar 06, 2020	Mar 06, 2020	Mar 06, 2020	Mar 06, 2020
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons (Trace level)						
Fluoranthene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Fluorene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Indeno(1.2.3-cd)pyrene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Naphthalene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Phenanthrene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pyrene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Total PAH*	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
2-Fluorobiphenyl (surr.)	1	%	67	53	81	87
p-Terphenyl-d14 (surr.)	1	%	87	80	54	90
Heavy Metals						
Arsenic (filtered)	0.001	mg/L	< 0.001	0.002	0.002	0.005
Cadmium (filtered)	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Chromium (filtered)	0.001	mg/L	0.002	< 0.001	< 0.001	< 0.001
Copper (filtered)	0.001	mg/L	0.001	0.001	0.002	< 0.001
Lead (filtered)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Mercury (filtered)	0.0001	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nickel (filtered)	0.001	mg/L	< 0.001	0.002	< 0.001	0.003
Zinc (filtered)	0.005	mg/L	0.010	0.012	0.078	< 0.005

Client Sample ID			BH4	R20 TS	тв	RINSATE
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S20-Ma09924	S20-Ma09925	S20-Ma09926	S20-Ma09927
Date Sampled			Mar 06, 2020	Mar 06, 2020	Mar 06, 2020	Mar 06, 2020
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 2013 NEPM	Fractions					
Naphthalene ^{N02}	0.01	mg/L	< 0.01	-	< 0.01	-
TRH C6-C10	0.02	mg/L	< 0.02	-	< 0.02	-
TRH C6-C10 less BTEX (F1) ^{N04}	0.02	mg/L	< 0.02	-	< 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	-	-	-
Total Recoverable Hydrocarbons - 1999 NEPM	Fractions					
TRH C6-C9	0.02	mg/L	< 0.02	-	< 0.02	< 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	-	-	-
BTEX						
Benzene	0.001	mg/L	-	84	< 0.001	-
Toluene	0.001	mg/L	-	87	< 0.001	-
Ethylbenzene	0.001	mg/L	-	82	< 0.001	-
m&p-Xylenes	0.002	mg/L	-	97	< 0.002	-
o-Xylene	0.001	mg/L	-	84	< 0.001	-
Xylenes - Total	0.003	mg/L	-	93	< 0.003	-
4-Bromofluorobenzene (surr.)	1	%	-	99	78	-



Client Sample ID			BH4	R20TS	тв	RINSATE
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S20-Ma09924	S20-Ma09925	S20-Ma09926	S20-Ma09927
Date Sampled			Mar 06, 2020	Mar 06, 2020	Mar 06, 2020	Mar 06, 2020
Test/Reference	LOR	Unit				
Volatile Organics	Lon	Offic				
1.1-Dichloroethane	0.001	mg/L	< 0.001		_	< 0.001
1.1-Dichloroethene	0.001	mg/L	< 0.001	-	_	< 0.001
1.1.1-Trichloroethane	0.001	mg/L	< 0.001	-	_	< 0.001
1.1.1.2-Tetrachloroethane	0.001	mg/L	< 0.001	-	-	< 0.001
1.1.2-Trichloroethane	0.001	mg/L	< 0.001	-	-	< 0.001
1.1.2.2-Tetrachloroethane	0.001	mg/L	< 0.001	-	-	< 0.001
1.2-Dibromoethane	0.001	mg/L	< 0.001	-	-	< 0.001
1.2-Dichlorobenzene	0.001	mg/L	< 0.001	-	-	< 0.001
1.2-Dichloroethane	0.001	mg/L	< 0.001	-	-	< 0.001
1.2-Dichloropropane	0.001	mg/L	< 0.001	-	-	< 0.001
1.2.3-Trichloropropane	0.001	mg/L	< 0.001	-	-	< 0.001
1.2.4-Trimethylbenzene	0.001	mg/L	< 0.001	-	-	< 0.001
1.3-Dichlorobenzene	0.001	mg/L	< 0.001	-	-	< 0.001
1.3-Dichloropropane	0.001	mg/L	< 0.001	-	-	< 0.001
1.3.5-Trimethylbenzene	0.001	mg/L	< 0.001	-	-	< 0.001
1.4-Dichlorobenzene	0.001	mg/L	< 0.001	-	-	< 0.001
2-Butanone (MEK)	0.001	mg/L	< 0.001	-	-	< 0.001
2-Propanone (Acetone)	0.001	mg/L	< 0.001	-	-	< 0.001
4-Chlorotoluene	0.001	mg/L	< 0.001	-	-	< 0.001
4-Methyl-2-pentanone (MIBK)	0.001	mg/L	< 0.001	-	-	< 0.001
Allyl chloride	0.001	mg/L	< 0.001	-	-	< 0.001
Benzene	0.001	mg/L	< 0.001	-	-	< 0.001
Bromobenzene	0.001	mg/L	< 0.001	-	-	< 0.001
Bromochloromethane	0.001	mg/L	< 0.001	-	-	< 0.001
Bromodichloromethane	0.001	mg/L	< 0.001	-	-	< 0.001
Bromoform	0.001	mg/L	< 0.001	-	-	< 0.001
Bromomethane	0.001	mg/L	< 0.001	-	-	< 0.001
Carbon disulfide	0.001	mg/L	< 0.001	-	-	< 0.001
Carbon Tetrachloride	0.001	mg/L	< 0.001	-	-	< 0.001
Chlorobenzene	0.001	mg/L	< 0.001	-	-	< 0.001
Chloroethane	0.001	mg/L	< 0.001	-	-	< 0.001
Chloroform	0.005	mg/L	< 0.005	-	-	< 0.005
Chloromethane	0.001	mg/L	< 0.001	-	-	< 0.001
cis-1.2-Dichloroethene	0.001	mg/L	< 0.001	-	-	< 0.001
cis-1.3-Dichloropropene	0.001	mg/L	< 0.001	-	-	< 0.001
Dibromochloromethane	0.001	mg/L	< 0.001	-	-	< 0.001
Dibromomethane	0.001	mg/L	< 0.001	-	-	< 0.001
Dichlorodifluoromethane	0.001	mg/L	< 0.001	-	-	< 0.001
Ethylbenzene	0.001	mg/L	< 0.001	-	-	< 0.001
lodomethane	0.001	mg/L	< 0.001	-	-	< 0.001
Isopropyl benzene (Cumene)	0.001	mg/L	< 0.001	-	-	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002	-	-	< 0.002
Methylene Chloride	0.001	mg/L	< 0.001	-	-	< 0.001
o-Xylene	0.001	mg/L	< 0.001	-	-	< 0.001
Styrene	0.001	mg/L	< 0.001	-	-	< 0.001
Tetrachloroethene	0.001	mg/L	< 0.001	-	-	< 0.001
Toluene	0.001	mg/L	< 0.001	-	-	< 0.001
trans-1.2-Dichloroethene	0.001	mg/L	< 0.001	-	-	< 0.001
trans-1.3-Dichloropropene	0.001	mg/L	< 0.001	-	-	< 0.001



Client Sample ID			BH4	R20TS	тв	RINSATE
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S20-Ma09924	S20-Ma09925	S20-Ma09926	S20-Ma09927
Date Sampled			Mar 06, 2020	Mar 06, 2020	Mar 06, 2020	Mar 06, 2020
Test/Reference	LOR	Unit			11101 00, 2020	
Volatile Organics	LOIN	Onit				
	0.001	ma/l	< 0.001			< 0.001
Trichloroethene Trichlorofluoromethane	0.001	mg/L mg/L	< 0.001	-	-	< 0.001
	0.001	mg/L	< 0.001	-	-	< 0.001
Vinyl chloride	0.001	mg/L	< 0.001	-		< 0.001
Xylenes - Total Total MAH*	0.003	mg/L	< 0.003	-		< 0.003
	0.003	mg/L	< 0.003	-	-	< 0.003
Vic EPA IWRG 621 CHC (Total)*						
Vic EPA IWRG 621 Other CHC (Total)*	0.005	mg/L %	< 0.005	-	-	< 0.005
4-Bromofluorobenzene (surr.)	1	%	96	-	-	91
Toluene-d8 (surr.) Polycyclic Aromatic Hydrocarbons (Trace level)		70	110	-	-	108
	0.00004		0.00004			
Acenaphthene	0.00001	mg/L	< 0.00001	-	-	-
Acenaphthylene	0.00001	mg/L	< 0.00001	-	-	-
Anthracene	0.00001	mg/L	< 0.00001	-	-	-
Benz(a)anthracene	0.00001	mg/L	< 0.00001	-	-	-
Benzo(a)pyrene	0.00001	mg/L	< 0.00001	-	-	-
Benzo(b&j)fluoranthene	0.00001	mg/L	< 0.00001	-	-	-
Benzo(g.h.i)perylene	0.00001	mg/L	< 0.00001	-	-	-
Benzo(k)fluoranthene	0.00001	mg/L	< 0.00001	-	-	-
Chrysene	0.00001	mg/L	< 0.00001	-	-	-
Dibenz(a.h)anthracene	0.00001	mg/L	< 0.00001	-	-	-
Fluoranthene	0.00001	mg/L	< 0.00001	-	-	-
Fluorene	0.00001	mg/L	< 0.00001	-	-	-
Indeno(1.2.3-cd)pyrene	0.00001	mg/L	< 0.00001	-	-	-
Naphthalene	0.00001	mg/L	< 0.00001	-	-	-
Phenanthrene	0.00001	mg/L	< 0.00001	-	-	-
Pyrene	0.00001	mg/L	< 0.00001	-	-	-
Total PAH*	0.00001	mg/L	< 0.00001	-	-	-
2-Fluorobiphenyl (surr.)	1	%	85	-	-	-
p-Terphenyl-d14 (surr.)	1	%	70	-	-	-
Heavy Metals						
Arsenic	0.001	mg/L	-	-	-	< 0.001
Arsenic (filtered)	0.001	mg/L	0.002	-	-	-
Cadmium	0.0002	mg/L	-	-	-	< 0.0002
Cadmium (filtered)	0.0002	mg/L	< 0.0002	-	-	-
Chromium	0.001	mg/L	-	-	-	< 0.001
Chromium (filtered)	0.001	mg/L	< 0.001	-	-	-
Copper	0.001	mg/L	-	-	-	< 0.001
Copper (filtered)	0.001	mg/L	< 0.001	-	-	-
Lead	0.001	mg/L	-	-	-	< 0.001
Lead (filtered)	0.001	mg/L	< 0.001	-	-	-
Mercury	0.0001	mg/L	-	-	-	< 0.0001
Mercury (filtered)	0.0001	mg/L	< 0.0001	-	-	-
Nickel	0.001	mg/L	-	-	-	< 0.001
Nickel (filtered)	0.001	mg/L	0.001	-	-	-
Zinc	0.005	mg/L	-	-	-	< 0.005
Zinc (filtered)	0.005	mg/L	< 0.005	-	-	-



Client Sample ID			QC01
Sample Matrix			Water
Eurofins Sample No.			S20-Ma09928
Date Sampled			Mar 06, 2020
Test/Reference	LOR	Unit	
Total Recoverable Hydrocarbons - 2013 NEPM Frac	-	Onit	
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
Total Recoverable Hydrocarbons - 1999 NEPM Frac	ctions		
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
Volatile Organics			
1.1-Dichloroethane	0.001	mg/L	< 0.001
1.1-Dichloroethene	0.001	mg/L	< 0.001
1.1.1-Trichloroethane	0.001	mg/L	< 0.001
1.1.1.2-Tetrachloroethane	0.001	mg/L	< 0.001
1.1.2-Trichloroethane	0.001	mg/L	< 0.001
1.1.2.2-Tetrachloroethane	0.001	mg/L	< 0.001
1.2-Dibromoethane	0.001	mg/L	< 0.001
1.2-Dichlorobenzene	0.001	mg/L	< 0.001
1.2-Dichloroethane	0.001	mg/L	< 0.001
1.2-Dichloropropane	0.001	mg/L	< 0.001
1.2.3-Trichloropropane	0.001	mg/L	< 0.001
1.2.4-Trimethylbenzene	0.001	mg/L	< 0.001
1.3-Dichlorobenzene	0.001	mg/L	< 0.001
1.3-Dichloropropane	0.001	mg/L	< 0.001
1.3.5-Trimethylbenzene	0.001	mg/L	< 0.001
1.4-Dichlorobenzene	0.001	mg/L	< 0.001
2-Butanone (MEK)	0.001	mg/L	< 0.001
2-Propanone (Acetone)	0.001	mg/L	< 0.001
4-Chlorotoluene	0.001	mg/L	< 0.001
4-Methyl-2-pentanone (MIBK)	0.001	mg/L	< 0.001
Allyl chloride	0.001	mg/L	< 0.001
Benzene	0.001	mg/L	< 0.001
Bromobenzene	0.001	mg/L	< 0.001
Bromochloromethane	0.001	mg/L	< 0.001
Bromodichloromethane	0.001	mg/L	< 0.001
Bromoform	0.001	mg/L	< 0.001
Bromomethane	0.001	mg/L	< 0.001
Carbon disulfide	0.001	mg/L	< 0.001
Carbon Tetrachloride	0.001	mg/L	< 0.001
Chlorobenzene	0.001	mg/L	< 0.001
Chloroethane	0.001	mg/L	< 0.001
	0.005	mg/L	< 0.005
Chloroform Chloromethane	0.001	mg/L	< 0.001



Client Sample ID			QC01
Sample Matrix			Water
Eurofins Sample No.			S20-Ma09928
Date Sampled			Mar 06, 2020
Test/Reference	LOR	Unit	
Volatile Organics			
cis-1.3-Dichloropropene	0.001	mg/L	< 0.001
Dibromochloromethane	0.001	mg/L	< 0.001
Dibromomethane	0.001	mg/L	< 0.001
Dichlorodifluoromethane	0.001	mg/L	< 0.001
Ethylbenzene	0.001	mg/L	< 0.001
Iodomethane	0.001	mg/L	< 0.001
Isopropyl benzene (Cumene)	0.001	mg/L	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002
Methylene Chloride	0.001	mg/L	< 0.001
o-Xylene	0.001	mg/L	< 0.001
Styrene	0.001	mg/L	< 0.001
Tetrachloroethene	0.001	mg/L	< 0.001
Toluene	0.001	mg/L	< 0.001
trans-1.2-Dichloroethene	0.001	mg/L	< 0.001
trans-1.3-Dichloropropene	0.001	mg/L	< 0.001
Trichloroethene	0.001	mg/L	< 0.001
Trichlorofluoromethane	0.001	mg/L	< 0.001
Vinyl chloride	0.001	mg/L	< 0.001
Xylenes - Total	0.003	mg/L	< 0.003
Total MAH*	0.003	mg/L	< 0.003
Vic EPA IWRG 621 CHC (Total)*	0.005	mg/L	< 0.005
Vic EPA IWRG 621 Other CHC (Total)*	0.005	mg/L	< 0.005
4-Bromofluorobenzene (surr.)	1	%	88
Toluene-d8 (surr.)	1	%	101
Polycyclic Aromatic Hydrocarbons (Trace level)			
Acenaphthene	0.00001	mg/L	< 0.00001
Acenaphthylene	0.00001	mg/L	< 0.00001
Anthracene	0.00001	mg/L	< 0.00001
Benz(a)anthracene	0.00001	mg/L	< 0.00001
Benzo(a)pyrene	0.00001	mg/L	< 0.00001
Benzo(b&j)fluoranthene	0.00001	mg/L	< 0.00001
Benzo(g.h.i)perylene	0.00001	mg/L	< 0.00001
Benzo(k)fluoranthene	0.00001	mg/L	< 0.00001
Chrysene	0.00001	mg/L	< 0.00001
Dibenz(a.h)anthracene	0.00001	mg/L	< 0.00001
Fluoranthene	0.00001	mg/L	< 0.00001
Fluorene	0.00001	mg/L	< 0.00001
Indeno(1.2.3-cd)pyrene	0.00001	mg/L	< 0.00001
Naphthalene	0.00001	mg/L	< 0.00001
Phenanthrene	0.00001	mg/L	< 0.00001
Pyrene	0.00001	mg/L	< 0.00001
Total PAH*	0.00001	mg/L	< 0.00001
2-Fluorobiphenyl (surr.)	1	%	98
p-Terphenyl-d14 (surr.)	1	%	60
Heavy Metals	0.001		0.001
Arsenic (filtered)	0.001	mg/L	< 0.001
Cadmium (filtered)	0.0002	mg/L	< 0.0002
Chromium (filtered)	0.001	mg/L	0.002
Copper (filtered)	0.001	mg/L	0.002



Client Sample ID Sample Matrix Eurofins Sample No.			QC01 Water S20-Ma09928
Date Sampled			Mar 06, 2020
Test/Reference	LOR	Unit	
Heavy Metals			
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	0.011



Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported. A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

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 Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Testing Site Melbourne	Extracted Mar 11, 2020	Holding Time 7 Days
- Method: LTM-ORG-2010 TRH C6-C40		,	,
Total Recoverable Hydrocarbons	Melbourne	Mar 11, 2020	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Melbourne	Mar 12, 2020	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Melbourne	Mar 11, 2020	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Mar 12, 2020	
- Method: LTM-ORG-2010 TRH C6-C40			
Volatile Organics	Melbourne	Mar 11, 2020	7 Days
- Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices (USEPA 8260)			
Polycyclic Aromatic Hydrocarbons (Trace level)	Melbourne	Mar 12, 2020	7 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water (trace)			
Metals M8	Melbourne	Mar 11, 2020	180 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Metals M8 filtered	Melbourne	Mar 11, 2020	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			

•			А	Australia									New Zealand			
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Company Name: JBS & G Australia (NSW) P/L Address: Level 1, 50 Margaret St Sydney NSW 2000 Project Name: PARRAMATTA POWERHOUSE							Re Pl	rder N eport none: ax:	#:		70642)2 824	9 15 0300		Received: Due: Priority: Contact Name:	Mar 6, 2020 5:20 PM Mar 13, 2020 5 Day Julia Nicholson	1
	Project Name: PARRAMATTA POWERHOUSE Project ID: 58352													Eurofins Analytical	l Services Manager : Ur	[.] sula Long
Sample Detail							Metals M8	BTEX	Volatile Organics	Total Recoverable Hydrocarbons	BTEXN and Volatile TRH	Polycyclic Aromatic Hydrocarbons (Trace level)				
/lell	oourne Laborato	ory - NATA Site	# 1254 & 142	.71		х	Х	х	х	Х	х	х				
Syd	ney Laboratory	- NATA Site # 1	8217													
Bris	bane Laborator	y - NATA Site #	20794													
Pert	h Laboratory - N	NATA Site # 237	'36													
Exte	rnal Laboratory	/														
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID											
	MW1	Mar 06, 2020		Water	S20-Ma09920		X		Х	х		x				
2	MW2	Mar 06, 2020		Water	S20-Ma09921		X		X	Х		X				
3	MW3	Mar 06, 2020		Water	S20-Ma09922		X		Х	Х		X				
1	BH1	Mar 06, 2020		Water	S20-Ma09923		X		X	Х		X				
5	BH4	Mar 06, 2020		Water	S20-Ma09924		X		X	Х		X				
6	TS	Mar 06, 2020		Water	S20-Ma09925			Х								
7	ТВ	Mar 06, 2020		Water	S20-Ma09926						Х	 				
3	RINSATE	Mar 06, 2020		Water	S20-Ma09927	Х	X		Х							
9	QC01	Mar 06, 2020		Water	S20-Ma09928		Х		Х	Х		Х				
	Counts					1	7	4	7	6	1	6				



Internal Quality Control Review and Glossary

General

- Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site 1. 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.
- 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.
- This report replaces any interim results previously issued. 9.

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. **NOTE: pH duplicates are reported as a range NOT as RPD

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	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.3
СР	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

QC - Acceptance Criteria

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%

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 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

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. Organochlorine Pesticide analysis where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
- 4. Organochlorine Pesticide analysis where reporting Spike data, Toxaphene is not added to the Spike.
- Total Recoverable Hydrocarbons where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported 5. in the C10-C14 cell of the Report.
- 6. 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.
- 7. Recovery Data (Spikes & Surrogates) where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
- 8. Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
- 9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
- 10. 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 - 2013 NEPM Fract	ions				
Naphthalene	mg/L	< 0.01	0.01	Pass	
TRH C6-C10	mg/L	< 0.02	0.02	Pass	
Method Blank					
Total Recoverable Hydrocarbons - 1999 NEPM Fract	ions				
TRH C6-C9	mg/L	< 0.02	0.02	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	· · · ·				
Volatile Organics					
1.1-Dichloroethane	mg/L	< 0.001	0.001	Pass	
1.1-Dichloroethene	mg/L	< 0.001	0.001	Pass	
1.1.1-Trichloroethane	mg/L	< 0.001	0.001	Pass	
1.1.1.2-Tetrachloroethane	mg/L	< 0.001	0.001	Pass	
1.1.2-Trichloroethane	mg/L	< 0.001	0.001	Pass	
1.1.2.2-Tetrachloroethane	mg/L	< 0.001	0.001	Pass	
1.2-Dibromoethane	mg/L	< 0.001	0.001	Pass	
1.2-Dichlorobenzene	mg/L	< 0.001	0.001	Pass	
1.2-Dichloroethane	mg/L	< 0.001	0.001	Pass	
1.2-Dichloropropane	mg/L	< 0.001	0.001	Pass	
1.2.3-Trichloropropane	mg/L	< 0.001	0.001	Pass	
1.2.4-Trimethylbenzene	mg/L	< 0.001	0.001	Pass	
1.3-Dichlorobenzene	mg/L	< 0.001	0.001	Pass	
1.3-Dichloropropane	mg/L	< 0.001	0.001	Pass	
1.3.5-Trimethylbenzene	mg/L	< 0.001	0.001	Pass	
1.4-Dichlorobenzene	mg/L	< 0.001	0.001	Pass	
2-Butanone (MEK)	mg/L	< 0.001	0.001	Pass	
2-Propanone (Acetone)	mg/L	< 0.001	0.001	Pass	
4-Chlorotoluene	mg/L	< 0.001	0.001	Pass	
4-Methyl-2-pentanone (MIBK)	mg/L	< 0.001	0.001	Pass	
Allyl chloride	mg/L	< 0.001	0.001	Pass	
Bromobenzene	mg/L	< 0.001	0.001	Pass	
Bromochloromethane	mg/L	< 0.001	0.001	Pass	
Bromodichloromethane	mg/L	< 0.001	0.001	Pass	
Bromoform	mg/L	< 0.001	0.001	Pass	
Bromomethane	mg/L	< 0.001	0.001	Pass	
Carbon disulfide	mg/L	< 0.001	0.001	Pass	
Carbon Tetrachloride	mg/L	< 0.001	0.001	Pass	
Chlorobenzene	mg/L	< 0.001	0.001	Pass	
Chloroethane	mg/L	< 0.001	0.001	Pass	
Chloroform	mg/L	< 0.005	0.005	Pass	
Chloromethane	mg/L	< 0.001	0.003	Pass	
cis-1.2-Dichloroethene	mg/L	< 0.001	0.001	Pass	
cis-1.3-Dichloropropene	mg/L	< 0.001	0.001	Pass	
Dibromochloromethane	mg/L	< 0.001	0.001	Pass	



Test	Units	Result 1	Acceptance Limits	Pass Limits	Qualifying Code
Dibromomethane	mg/L	< 0.001	0.001	Pass	
Dichlorodifluoromethane	mg/L	< 0.001	0.001	Pass	
lodomethane	mg/L	< 0.001	0.001	Pass	
Isopropyl benzene (Cumene)	mg/L	< 0.001	0.001	Pass	
Methylene Chloride	mg/L	< 0.001	0.001	Pass	
Styrene	mg/L	< 0.001	0.001	Pass	
Tetrachloroethene	mg/L	< 0.001	0.001	Pass	
trans-1.2-Dichloroethene	mg/L	< 0.001	0.001	Pass	
trans-1.3-Dichloropropene	mg/L	< 0.001	0.001	Pass	
Trichloroethene	mg/L	< 0.001	0.001	Pass	
Trichlorofluoromethane	mg/L	< 0.001	0.001	Pass	
Vinyl chloride	mg/L	< 0.001	0.001	Pass	
Method Blank					
Heavy Metals					
Arsenic	mg/L	< 0.001	0.001	Pass	
Arsenic (filtered)	mg/L	< 0.001	0.001	Pass	
Cadmium	mg/L	< 0.0002	0.0002	Pass	
Cadmium (filtered)	mg/L	< 0.0002	0.0002	Pass	
Chromium	mg/L	< 0.001	0.001	Pass	
Chromium (filtered)	mg/L	< 0.001	0.001	Pass	
Copper	mg/L	< 0.001	0.001	Pass	
Copper (filtered)	mg/L	< 0.001	0.001	Pass	
Lead	mg/L	< 0.001	0.001	Pass	
Lead (filtered)	mg/L	< 0.001	0.001	Pass	
Mercury	mg/L	< 0.0001	0.0001	Pass	
Mercury (filtered)	mg/L	< 0.0001	0.0001	Pass	
Nickel	mg/L	< 0.001	0.001	Pass	
Nickel (filtered)	mg/L	< 0.001	0.001	Pass	
Zinc	mg/L	< 0.005	0.005	Pass	
Zinc (filtered)	mg/L	< 0.005	0.005	Pass	
LCS - % Recovery					
Total Recoverable Hydrocarbons - 2013 NEPM Fractions					
Naphthalene	%	92	70-130	Pass	
TRH C6-C10	%	91	70-130	Pass	
LCS - % Recovery					
Total Recoverable Hydrocarbons - 1999 NEPM Fractions					
TRH C6-C9	%	97	70-130	Pass	
LCS - % Recovery					
BTEX					
Benzene	%	80	70-130	Pass	
Toluene	%	96	70-130	Pass	
Ethylbenzene	%	97	70-130	Pass	
m&p-Xylenes	%	90	70-130	Pass	
Xylenes - Total	%	91	70-130	Pass	
LCS - % Recovery					
Volatile Organics					
1.1-Dichloroethene	%	78	70-130	Pass	
1.1.1-Trichloroethane	%	72	70-130	Pass	
1.2-Dichlorobenzene	%	84	70-130	Pass	
1.2-Dichloroethane	%	75	70-130	Pass	
Trichloroethene	%	72	70-130	Pass	
LCS - % Recovery					
Heavy Metals					
Arsenic	%	102	80-120	Pass	



Test			Units	Result 1		 I	Acceptance Limits	Pass Limits	Qualifying Code
Cadmium			%	104			80-120	Pass	
Chromium			%	103			80-120	Pass	
Copper			%	105			80-120	Pass	
Lead			%	104			80-120	Pass	
Mercury			%	110			75-125	Pass	
Nickel			%	105			80-120	Pass	
Zinc			%	106			80-120	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery				1					
Heavy Metals	•			Result 1					
Arsenic (filtered)	S20-Ma10098	NCP	%	101			70-130	Pass	
Cadmium (filtered)	S20-Ma10098	NCP	%	99			70-130	Pass	
Chromium (filtered)	S20-Ma10098	NCP	%	100			70-130	Pass	
Copper (filtered)	S20-Ma10098	NCP	%	98			70-130	Pass	
Lead (filtered)	S20-Ma10098	NCP	%	100			70-130	Pass	
Mercury (filtered)	S20-Ma10098	NCP	%	97			70-130	Pass	
Nickel (filtered)	S20-Ma10098	NCP	%	99			70-130	Pass	
Zinc (filtered)	S20-Ma10098	NCP	%	96			70-130	Pass	
Spike - % Recovery				1					
Polycyclic Aromatic Hydrocarbon	s (Trace level)			Result 1					
Acenaphthene	S20-Ma09921	CP	%	117			70-130	Pass	
Acenaphthylene	S20-Ma09921	CP	%	112			70-130	Pass	
Anthracene	S20-Ma09921	CP	%	103			70-130	Pass	
Benz(a)anthracene	S20-Ma09921	CP	%	92			70-130	Pass	
Benzo(a)pyrene	S20-Ma09921	CP	%	100			70-130	Pass	
Benzo(b&j)fluoranthene	S20-Ma09921	CP	%	124			70-130	Pass	
Benzo(g.h.i)perylene	S20-Ma09921	CP	%	89			70-130	Pass	
Benzo(k)fluoranthene	S20-Ma09921	CP	%	118			70-130	Pass	
Chrysene	S20-Ma09921	CP	%	109			70-130	Pass	
Dibenz(a.h)anthracene	S20-Ma09921	CP	%	74			70-130	Pass	
Fluoranthene	S20-Ma09921	CP	%	107			70-130	Pass	
Fluorene	S20-Ma09921	CP	%	113			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S20-Ma09921	CP	%	82			70-130	Pass	
Naphthalene	S20-Ma09921	CP	%	112			70-130	Pass	
Phenanthrene	S20-Ma09921	CP	%	98			70-130	Pass	
Pyrene	S20-Ma09921	CP	%	109			70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Total Recoverable Hydrocarbons	2013 NEPM Fract	ions		Result 1	Result 2	RPD			
TRH >C10-C16	S20-Ma09920	CP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
TRH >C16-C34	S20-Ma09920	CP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH >C34-C40	S20-Ma09920	CP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons -	1999 NEPM Fract	ions		Result 1	Result 2	RPD			
TRH C10-C14	S20-Ma09920	CP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
TRH C15-C28	S20-Ma09920	CP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH C29-C36	S20-Ma09920	СР	mg/L	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbon	s (Trace level)			Result 1	Result 2	RPD			
Acenaphthene	S20-Ma09920	CP	mg/L	< 0.00001	< 0.00001	<1	30%	Pass	
Acenaphthylene	S20-Ma09920	СР	mg/L	< 0.00001	< 0.00001	<1	30%	Pass	
Anthracene	S20-Ma09920	CP	mg/L	< 0.00001	< 0.00001	<1	30%	Pass	L i



Duplicate									
Polycyclic Aromatic Hydrocarbor	ns (Trace level)			Result 1	Result 2	RPD			
Benzo(a)pyrene	S20-Ma09920	CP	mg/L	< 0.00001	< 0.00001	<1	30%	Pass	
Benzo(b&j)fluoranthene	S20-Ma09920	CP	mg/L	< 0.00001	< 0.00001	<1	30%	Pass	
Benzo(g.h.i)perylene	S20-Ma09920	CP	mg/L	< 0.00001	< 0.00001	<1	30%	Pass	
Benzo(k)fluoranthene	S20-Ma09920	CP	mg/L	< 0.00001	< 0.00001	<1	30%	Pass	
Chrysene	S20-Ma09920	CP	mg/L	< 0.00001	< 0.00001	<1	30%	Pass	
Dibenz(a.h)anthracene	S20-Ma09920	CP	mg/L	< 0.00001	< 0.00001	<1	30%	Pass	
Fluoranthene	S20-Ma09920	CP	mg/L	< 0.00001	< 0.00001	<1	30%	Pass	
Fluorene	S20-Ma09920	CP	mg/L	< 0.00001	< 0.00001	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S20-Ma09920	CP	mg/L	< 0.00001	< 0.00001	<1	30%	Pass	
Naphthalene	S20-Ma09920	CP	mg/L	< 0.00001	< 0.00001	<1	30%	Pass	
Phenanthrene	S20-Ma09920	CP	mg/L	< 0.00001	< 0.00001	<1	30%	Pass	
Pyrene	S20-Ma09920	CP	mg/L	< 0.00001	< 0.00001	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic (filtered)	S20-Ma10098	NCP	mg/L	0.003	0.003	1.0	30%	Pass	
Cadmium (filtered)	S20-Ma10098	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Chromium (filtered)	S20-Ma10098	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Copper (filtered)	S20-Ma10098	NCP	mg/L	0.017	0.017	<1	30%	Pass	
Lead (filtered)	S20-Ma10098	NCP	mg/L	0.002	0.002	1.0	30%	Pass	
Mercury (filtered)	S20-Ma10098	NCP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Nickel (filtered)	S20-Ma10098	NCP	mg/L	0.011	0.011	2.0	30%	Pass	
Zinc (filtered)	S20-Ma10098	NCP	mg/L	0.065	0.065	<1	30%	Pass	
Duplicate									
втех				Result 1	Result 2	RPD			
Benzene	M20-Ma12303	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Toluene	M20-Ma12303	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Ethylbenzene	M20-Ma12303	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
m&p-Xylenes	M20-Ma12303	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
o-Xylene	M20-Ma12303	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Xylenes - Total	M20-Ma12303	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	M20-Ma12303	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
TRH C6-C10	M20-Ma12303	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons	- 1999 NEPM Fract	ions		Result 1	Result 2	RPD			
TRH C6-C9	M20-Ma12303	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	



Environment Testing

Comments

Sample Integrity	
Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	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.

R20 This sample is a Trip Spike and therefore all results are reported as a percentage

Authorised By

Ursula Long
Emily Rosenberg
Harry Bacalis
Joseph Edouard

Analytical Services Manager
Senior Analyst-Metal (VIC)
Senior Analyst-Volatile (VIC)
Senior Analyst-Organic (VIC)

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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CERTIFICATE OF ANALYSIS 238372

Client Details	
Client	JBS & G (NSW & WA) Pty Ltd
Attention	R Chapman, J Nicholson
Address	Level 1, 50 Margaret St, Sydney, NSW, 2000

Sample Details	
Your Reference	58352, Parramatta Powerhouse
Number of Samples	1 water
Date samples received	06/03/2020
Date completed instructions received	06/03/2020

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Report Details		
Date results requested by	13/03/2020	
Date of Issue	13/03/2020	
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Accredited for compliance with ISO/IEC 17025 - Testing. Tests not covered by NATA are denoted with *		

Results Approved By Jaimie Loa-Kum-Cheung, Metals Supervisor Josh Williams, Senior Chemist Steven Luong, Organics Supervisor Authorised By

Nancy Zhang, Laboratory Manager



VOCs in water		
Our Reference		238372-1
Your Reference	UNITS	QC01A
Date Sampled		06/03/2020
Type of sample		water
Date extracted	-	10/03/2020
Date analysed	-	10/03/2020
Dichlorodifluoromethane	μg/L	<10
Chloromethane	μg/L	<10
Vinyl Chloride	µg/L	<10
Bromomethane	µg/L	<10
Chloroethane	µg/L	<10
Trichlorofluoromethane	µg/L	<10
1,1-Dichloroethene	µg/L	<1
Trans-1,2-dichloroethene	µg/L	<1
1,1-dichloroethane	µg/L	<1
Cis-1,2-dichloroethene	µg/L	<1
Bromochloromethane	µg/L	<1
Chloroform	µg/L	<1
2,2-dichloropropane	µg/L	<1
1,2-dichloroethane	µg/L	<1
1,1,1-trichloroethane	µg/L	<1
1,1-dichloropropene	µg/L	<1
Cyclohexane	µg/L	<1
Carbon tetrachloride	µg/L	<1
Benzene	µg/L	<1
Dibromomethane	µg/L	<1
1,2-dichloropropane	µg/L	<1
Trichloroethene	µg/L	<1
Bromodichloromethane	μg/L	<1
trans-1,3-dichloropropene	μg/L	<1
cis-1,3-dichloropropene	µg/L	<1
1,1,2-trichloroethane	µg/L	<1
Toluene	µg/L	<1
1,3-dichloropropane	µg/L	<1
Dibromochloromethane	µg/L	<1
1,2-dibromoethane	µg/L	<1
Tetrachloroethene	µg/L	<1
1,1,1,2-tetrachloroethane	µg/L	<1
Chlorobenzene	µg/L	<1
Ethylbenzene	µg/L	<1

VOCs in water		
Our Reference		238372-1
Your Reference	UNITS	QC01A
Date Sampled		06/03/2020
Type of sample		water
Bromoform	µg/L	<1
m+p-xylene	µg/L	<2
Styrene	µg/L	<1
1,1,2,2-tetrachloroethane	µg/L	<1
o-xylene	µg/L	<1
1,2,3-trichloropropane	µg/L	<1
Isopropylbenzene	µg/L	<1
Bromobenzene	µg/L	<1
n-propyl benzene	µg/L	<1
2-chlorotoluene	µg/L	<1
4-chlorotoluene	µg/L	<1
1,3,5-trimethyl benzene	µg/L	<1
Tert-butyl benzene	µg/L	<1
1,2,4-trimethyl benzene	µg/L	<1
1,3-dichlorobenzene	µg/L	<1
Sec-butyl benzene	µg/L	<1
1,4-dichlorobenzene	µg/L	<1
4-isopropyl toluene	µg/L	<1
1,2-dichlorobenzene	µg/L	<1
n-butyl benzene	µg/L	<1
1,2-dibromo-3-chloropropane	µg/L	<1
1,2,4-trichlorobenzene	µg/L	<1
Hexachlorobutadiene	µg/L	<1
1,2,3-trichlorobenzene	µg/L	<1
Surrogate Dibromofluoromethane	%	122
Surrogate toluene-d8	%	101
Surrogate 4-BFB	%	111

vTRH(C6-C10)/BTEXN in Water		
Our Reference		238372-1
Your Reference	UNITS	QC01A
Date Sampled		06/03/2020
Type of sample		water
Date extracted	-	10/03/2020
Date analysed	-	10/03/2020
TRH C ₆ - C ₉	µg/L	<10
TRH C ₆ - C ₁₀	µg/L	<10
TRH C ₆ - C ₁₀ less BTEX (F1)	µg/L	<10
Benzene	µg/L	<1
Toluene	µg/L	<1
Ethylbenzene	µg/L	<1
m+p-xylene	µg/L	<2
o-xylene	µg/L	<1
Naphthalene	μg/L	<1
Surrogate Dibromofluoromethane	%	122
Surrogate toluene-d8	%	101
Surrogate 4-BFB	%	111

svTRH (C10-C40) in Water		
Our Reference		238372-1
Your Reference	UNITS	QC01A
Date Sampled		06/03/2020
Type of sample		water
Date extracted	-	09/03/2020
Date analysed	-	10/03/2020
TRH C ₁₀ - C ₁₄	µg/L	<50
TRH C ₁₅ - C ₂₈	µg/L	<100
TRH C ₂₉ - C ₃₆	µg/L	<100
TRH >C ₁₀ - C ₁₆	µg/L	<50
TRH >C10 - C16 less Naphthalene (F2)	µg/L	<50
TRH >C ₁₆ - C ₃₄	µg/L	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100
Surrogate o-Terphenyl	%	107

PAHs in Water - Low Level		
Our Reference		238372-1
Your Reference	UNITS	QC01A
Date Sampled		06/03/2020
Type of sample		water
Date extracted	-	09/03/2020
Date analysed	-	10/03/2020
Naphthalene	µg/L	<0.2
Acenaphthylene	µg/L	<0.1
Acenaphthene	μg/L	<0.1
Fluorene	µg/L	<0.1
Phenanthrene	μg/L	<0.1
Anthracene	µg/L	<0.1
Fluoranthene	μg/L	<0.1
Pyrene	µg/L	<0.1
Benzo(a)anthracene	μg/L	<0.1
Chrysene	µg/L	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2
Benzo(a)pyrene	µg/L	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5
Total +ve PAH's	µg/L	<0.1
Surrogate p-Terphenyl-d14	%	70

HM in water - dissolved		
Our Reference		238372-1
Your Reference	UNITS	QC01A
Date Sampled		06/03/2020
Type of sample		water
Date prepared	-	10/03/2020
Date analysed	-	10/03/2020
Arsenic-Dissolved	μg/L	1
Cadmium-Dissolved	μg/L	<0.1
Chromium-Dissolved	μg/L	4
Copper-Dissolved	µg/L	<1
Lead-Dissolved	μg/L	<1
Mercury-Dissolved	μg/L	<0.05
Nickel-Dissolved	μg/L	1
Zinc-Dissolved	µg/L	10

Method ID	Methodology Summary
Metals-021	Determination of Mercury by Cold Vapour AAS.
Metals-022	Determination of various metals by ICP-MS.
Org-003	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.
Org-012/017	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS and/or GC-MS/MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013.
Org-013	Water samples are analysed directly by purge and trap GC-MS.
Org-016	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.

QUALIT	Y CONTROL	: VOCs i	n water			Du	plicate		Spike Red	covery %
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			10/03/2020	[NT]		[NT]	[NT]	10/03/2020	
Date analysed	-			10/03/2020	[NT]		[NT]	[NT]	10/03/2020	
Dichlorodifluoromethane	µg/L	10	Org-013	<10	[NT]		[NT]	[NT]	[NT]	
Chloromethane	µg/L	10	Org-013	<10	[NT]		[NT]	[NT]	[NT]	
Vinyl Chloride	µg/L	10	Org-013	<10	[NT]		[NT]	[NT]	[NT]	
Bromomethane	µg/L	10	Org-013	<10	[NT]		[NT]	[NT]	[NT]	
Chloroethane	µg/L	10	Org-013	<10	[NT]		[NT]	[NT]	[NT]	
Trichlorofluoromethane	µg/L	10	Org-013	<10	[NT]		[NT]	[NT]	[NT]	
1,1-Dichloroethene	µg/L	1	Org-013	<1	[NT]		[NT]	[NT]	[NT]	
Trans-1,2-dichloroethene	µg/L	1	Org-013	<1	[NT]		[NT]	[NT]	[NT]	
1,1-dichloroethane	µg/L	1	Org-013	<1	[NT]		[NT]	[NT]	94	
Cis-1,2-dichloroethene	µg/L	1	Org-013	<1	[NT]		[NT]	[NT]	[NT]	
Bromochloromethane	µg/L	1	Org-013	<1	[NT]		[NT]	[NT]	[NT]	
Chloroform	µg/L	1	Org-013	<1	[NT]		[NT]	[NT]	88	
2,2-dichloropropane	µg/L	1	Org-013	<1	[NT]		[NT]	[NT]	[NT]	
1,2-dichloroethane	µg/L	1	Org-013	<1	[NT]		[NT]	[NT]	91	
1,1,1-trichloroethane	µg/L	1	Org-013	<1	[NT]		[NT]	[NT]	89	
1,1-dichloropropene	µg/L	1	Org-013	<1	[NT]		[NT]	[NT]	[NT]	
Cyclohexane	µg/L	1	Org-013	<1	[NT]		[NT]	[NT]	[NT]	
Carbon tetrachloride	µg/L	1	Org-013	<1	[NT]		[NT]	[NT]	[NT]	
Benzene	µg/L	1	Org-013	<1	[NT]		[NT]	[NT]	[NT]	
Dibromomethane	µg/L	1	Org-013	<1	[NT]		[NT]	[NT]	[NT]	
1,2-dichloropropane	µg/L	1	Org-013	<1	[NT]		[NT]	[NT]	[NT]	
Trichloroethene	µg/L	1	Org-013	<1	[NT]		[NT]	[NT]	81	
Bromodichloromethane	µg/L	1	Org-013	<1	[NT]		[NT]	[NT]	93	
trans-1,3-dichloropropene	µg/L	1	Org-013	<1	[NT]		[NT]	[NT]	[NT]	
cis-1,3-dichloropropene	µg/L	1	Org-013	<1	[NT]		[NT]	[NT]	[NT]	
1,1,2-trichloroethane	µg/L	1	Org-013	<1	[NT]		[NT]	[NT]	[NT]	
Toluene	µg/L	1	Org-013	<1	[NT]		[NT]	[NT]	[NT]	
1,3-dichloropropane	µg/L	1	Org-013	<1	[NT]		[NT]	[NT]	[NT]	
Dibromochloromethane	µg/L	1	Org-013	<1	[NT]		[NT]	[NT]	91	
1,2-dibromoethane	µg/L	1	Org-013	<1	[NT]		[NT]	[NT]	[NT]	
Tetrachloroethene	µg/L	1	Org-013	<1	[NT]		[NT]	[NT]	96	
1,1,1,2-tetrachloroethane	µg/L	1	Org-013	<1	[NT]		[NT]	[NT]	[NT]	
Chlorobenzene	µg/L	1	Org-013	<1	[NT]		[NT]	[NT]	[NT]	
Ethylbenzene	µg/L	1	Org-013	<1	[NT]		[NT]	[NT]	[NT]	
Bromoform	µg/L	1	Org-013	<1	[NT]		[NT]	[NT]	[NT]	
m+p-xylene	µg/L	2	Org-013	<2	[NT]		[NT]	[NT]	[NT]	
Styrene	µg/L	1	Org-013	<1	[NT]		[NT]	[NT]	[NT]	
1,1,2,2-tetrachloroethane	µg/L	1	Org-013	<1	[NT]		[NT]	[NT]	[NT]	

QUALIT		Du	plicate		Spike Recovery %					
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
o-xylene	μg/L	1	Org-013	<1	[NT]		[NT]	[NT]	[NT]	
1,2,3-trichloropropane	µg/L	1	Org-013	<1	[NT]		[NT]	[NT]	[NT]	
Isopropylbenzene	μg/L	1	Org-013	<1	[NT]		[NT]	[NT]	[NT]	
Bromobenzene	µg/L	1	Org-013	<1	[NT]		[NT]	[NT]	[NT]	
n-propyl benzene	μg/L	1	Org-013	<1	[NT]		[NT]	[NT]	[NT]	
2-chlorotoluene	µg/L	1	Org-013	<1	[NT]		[NT]	[NT]	[NT]	
4-chlorotoluene	μg/L	1	Org-013	<1	[NT]		[NT]	[NT]	[NT]	
1,3,5-trimethyl benzene	µg/L	1	Org-013	<1	[NT]		[NT]	[NT]	[NT]	
Tert-butyl benzene	μg/L	1	Org-013	<1	[NT]		[NT]	[NT]	[NT]	
1,2,4-trimethyl benzene	µg/L	1	Org-013	<1	[NT]		[NT]	[NT]	[NT]	
1,3-dichlorobenzene	μg/L	1	Org-013	<1	[NT]		[NT]	[NT]	[NT]	
Sec-butyl benzene	µg/L	1	Org-013	<1	[NT]		[NT]	[NT]	[NT]	
1,4-dichlorobenzene	μg/L	1	Org-013	<1	[NT]		[NT]	[NT]	[NT]	
4-isopropyl toluene	µg/L	1	Org-013	<1	[NT]		[NT]	[NT]	[NT]	
1,2-dichlorobenzene	μg/L	1	Org-013	<1	[NT]		[NT]	[NT]	[NT]	
n-butyl benzene	µg/L	1	Org-013	<1	[NT]		[NT]	[NT]	[NT]	
1,2-dibromo-3-chloropropane	μg/L	1	Org-013	<1	[NT]		[NT]	[NT]	[NT]	
1,2,4-trichlorobenzene	µg/L	1	Org-013	<1	[NT]		[NT]	[NT]	[NT]	
Hexachlorobutadiene	µg/L	1	Org-013	<1	[NT]		[NT]	[NT]	[NT]	
1,2,3-trichlorobenzene	µg/L	1	Org-013	<1	[NT]		[NT]	[NT]	[NT]	
Surrogate Dibromofluoromethane	%		Org-013	120	[NT]		[NT]	[NT]	112	
Surrogate toluene-d8	%		Org-013	102	[NT]		[NT]	[NT]	101	
Surrogate 4-BFB	%		Org-013	113	[NT]		[NT]	[NT]	109	

QUALITY CONTI			Du	plicate		Spike Recovery %				
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			10/03/2020	[NT]		[NT]	[NT]	10/03/2020	
Date analysed	-			10/03/2020	[NT]		[NT]	[NT]	10/03/2020	
TRH C ₆ - C ₉	µg/L	10	Org-016	<10	[NT]		[NT]	[NT]	100	
TRH C ₆ - C ₁₀	µg/L	10	Org-016	<10	[NT]		[NT]	[NT]	100	
Benzene	µg/L	1	Org-016	<1	[NT]		[NT]	[NT]	94	
Toluene	µg/L	1	Org-016	<1	[NT]		[NT]	[NT]	90	
Ethylbenzene	µg/L	1	Org-016	<1	[NT]		[NT]	[NT]	105	
m+p-xylene	µg/L	2	Org-016	<2	[NT]		[NT]	[NT]	106	
o-xylene	µg/L	1	Org-016	<1	[NT]		[NT]	[NT]	103	
Naphthalene	µg/L	1	Org-013	<1	[NT]		[NT]	[NT]	[NT]	
Surrogate Dibromofluoromethane	%		Org-016	120	[NT]		[NT]	[NT]	112	
Surrogate toluene-d8	%		Org-016	102	[NT]		[NT]	[NT]	101	
Surrogate 4-BFB	%		Org-016	113	[NT]		[NT]	[NT]	109	

QUALITY CON	TROL: svTF	RH (C10-0	C40) in Water			Du	plicate		Spike Re	covery %
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	[NT]
Date extracted	-			09/03/2020	[NT]		[NT]	[NT]	09/03/2020	
Date analysed	-			09/03/2020	[NT]		[NT]	[NT]	09/03/2020	
TRH C ₁₀ - C ₁₄	µg/L	50	Org-003	<50	[NT]		[NT]	[NT]	116	
TRH C ₁₅ - C ₂₈	µg/L	100	Org-003	<100	[NT]		[NT]	[NT]	94	
TRH C ₂₉ - C ₃₆	µg/L	100	Org-003	<100	[NT]		[NT]	[NT]	108	
TRH >C ₁₀ - C ₁₆	µg/L	50	Org-003	<50	[NT]		[NT]	[NT]	116	
TRH >C ₁₆ - C ₃₄	µg/L	100	Org-003	<100	[NT]		[NT]	[NT]	94	
TRH >C ₃₄ - C ₄₀	µg/L	100	Org-003	<100	[NT]		[NT]	[NT]	108	
Surrogate o-Terphenyl	%		Org-003	103	[NT]	[NT]	[NT]	[NT]	116	[NT]

QUALITY CON	ITROL: PAH	s in Wate	r - Low Level			Du	plicate		Spike Rec	overy %
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			09/03/2020	[NT]		[NT]	[NT]	09/03/2020	
Date analysed	-			10/03/2020	[NT]		[NT]	[NT]	10/03/2020	
Naphthalene	µg/L	0.2	Org-012/017	<0.2	[NT]		[NT]	[NT]	92	
Acenaphthylene	µg/L	0.1	Org-012/017	<0.1	[NT]		[NT]	[NT]	[NT]	
Acenaphthene	μg/L	0.1	Org-012/017	<0.1	[NT]		[NT]	[NT]	[NT]	
Fluorene	µg/L	0.1	Org-012/017	<0.1	[NT]		[NT]	[NT]	104	
Phenanthrene	µg/L	0.1	Org-012/017	<0.1	[NT]		[NT]	[NT]	74	
Anthracene	µg/L	0.1	Org-012/017	<0.1	[NT]		[NT]	[NT]	[NT]	
Fluoranthene	µg/L	0.1	Org-012/017	<0.1	[NT]		[NT]	[NT]	62	
Pyrene	µg/L	0.1	Org-012/017	<0.1	[NT]		[NT]	[NT]	80	
Benzo(a)anthracene	µg/L	0.1	Org-012/017	<0.1	[NT]		[NT]	[NT]	[NT]	
Chrysene	µg/L	0.1	Org-012/017	<0.1	[NT]		[NT]	[NT]	74	
Benzo(b,j+k)fluoranthene	µg/L	0.2	Org-012/017	<0.2	[NT]		[NT]	[NT]	[NT]	
Benzo(a)pyrene	µg/L	0.1	Org-012/017	<0.1	[NT]		[NT]	[NT]	70	
Indeno(1,2,3-c,d)pyrene	µg/L	0.1	Org-012/017	<0.1	[NT]		[NT]	[NT]	[NT]	
Dibenzo(a,h)anthracene	µg/L	0.1	Org-012/017	<0.1	[NT]		[NT]	[NT]	[NT]	
Benzo(g,h,i)perylene	µg/L	0.1	Org-012/017	<0.1	[NT]		[NT]	[NT]	[NT]	
Surrogate p-Terphenyl-d14	%		Org-012/017	80	[NT]		[NT]	[NT]	72	

QUALITY CC	NTROL: HN	1 in water	- dissolved			Du	plicate		Spike Red	overy %
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W5	[NT]
Date prepared	-			10/03/2020	[NT]		[NT]	[NT]	10/03/2020	
Date analysed	-			10/03/2020	[NT]		[NT]	[NT]	10/03/2020	
Arsenic-Dissolved	µg/L	1	Metals-022	<1	[NT]		[NT]	[NT]	100	
Cadmium-Dissolved	µg/L	0.1	Metals-022	<0.1	[NT]		[NT]	[NT]	100	
Chromium-Dissolved	µg/L	1	Metals-022	<1	[NT]		[NT]	[NT]	102	
Copper-Dissolved	µg/L	1	Metals-022	<1	[NT]		[NT]	[NT]	113	
Lead-Dissolved	µg/L	1	Metals-022	<1	[NT]		[NT]	[NT]	102	
Mercury-Dissolved	µg/L	0.05	Metals-021	<0.05	[NT]		[NT]	[NT]	99	
Nickel-Dissolved	µg/L	1	Metals-022	<1	[NT]		[NT]	[NT]	101	
Zinc-Dissolved	µg/L	1	Metals-022	<1	[NT]		[NT]	[NT]	101	

Result Definiti	ons
NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Contro	ol Definitions
Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from "2018 TLVs and BEIs", as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

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Container & Preservative Co	odes: P = Pla	stic; J = Soil Jar;	B = Glass Bott	le; N = Nitric	Acid Prsvd.; C = Sodium Hydro	xide Prsvd; VC = H	lydrochloi	ric Aci	id Prsve	Vial;	VS = Sulf	uric Acid	Prsvd Vial	; S = Sulf	uric Acid	Prsvd;	Z = Zino	: Prsvd	; E = ED1	A Prsv	d; ST =	Sterile Bott	e; 0 = Oth	er

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IMSO FormsO13 - Chain of Custody - Generic

1



Envirolab Services Pty Ltd ABN 37 112 535 645 12 Ashley St Chatswood NSW 2067 ph 02 9910 6200 fax 02 9910 6201 customerservice@envirolab.com.au www.envirolab.com.au

SAMPLE RECEIPT ADVICE

Client Details	
Client	JBS & G (NSW & WA) Pty Ltd
Attention	R Chapman, J Nicholson

Sample Login Details				
Your reference	58352, Parramatta Powerhouse			
Envirolab Reference	238372			
Date Sample Received	06/03/2020			
Date Instructions Received	06/03/2020			
Date Results Expected to be Reported	13/03/2020			

Sample Condition	
Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	1 water
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	8.3
Cooling Method	Ice
Sampling Date Provided	YES

Comments Nil

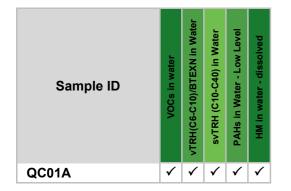
Please direct any queries to:

Aileen Hie	Jacinta Hurst
Phone: 02 9910 6200	Phone: 02 9910 6200
Fax: 02 9910 6201	Fax: 02 9910 6201
Email: ahie@envirolab.com.au	Email: jhurst@envirolab.com.au

Analysis Underway, details on the following page:



Envirolab Services Pty Ltd ABN 37 112 535 645 12 Ashley St Chatswood NSW 2067 ph 02 9910 6200 fax 02 9910 6201 customerservice@envirolab.com.au www.envirolab.com.au



The ' \checkmark ' indicates the testing you have requested. THIS IS NOT A REPORT OF THE RESULTS.

Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.

Requests for longer term sample storage must be received in writing.

Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.

TAT for Micro is dependent on incubation. This varies from 3 to 6 days.



Appendix K Calibration Certificates

Multi Parameter Water Meter

Instrument	YSI Quatro Pro Plus
Serial No.	18J104341



Item	Test	Pass	Comments
Battery	Charge Condition	1	
	Fuses	1	
	Capacity	1	
Switch/keypad	Operation	1	
Display	Intensity	✓	
	Operation (segments)	¥	
Grill Filter	Condition	✓	
	Seal	✓	
PCB	Condition	1	
Connectors	Condition	✓	
Sensor	1. pH	✓	
	2. mV	✓	
	3. EC	✓	
	4. D.O	✓	
	5. Temp	✓	
Alarms	Beeper	2	
	Settings		
Software	Version		
Data logger	Operation		
Download	Operation		
Other tests:			

Certificate of Calibration

This is to certify that the above instrument has been calibrated to the following specifications:

Sensor	Serial no	Standard Solutions	Certified	Solution Bottle Number	Instrument Reading
1. pH 10.00		pH 10.00		324189	pH 9.79
2. pH 7.00		pH 7.00		330737	pH 7.08
3. pH 4.00		pH 4.00		330734	pH 4.01
4. mV		229.6mV		338782/337308	229.6mV
5. EC		2.76mS		333787	2.76mS
6. D.O		0.00ppm		329994	0.02ppm
7. Temp		22.0°C		MultiTherm	21.7°C

Calibrated by:

Darcy Keogh

Calibration date:

Next calibration due:

4/04/2020

5/03/2020



Calibration Certificate

AirMet Scientific P/L

Level 3, 18-26 Dickson Avenue Artarmon NSW 2064, Australia Tel: 02 8425 8300 Fax: 02 8425 8399

This document certifies that the instrument detailed has been calibrated to the parameters								
Certificate	Certificate Print Date: 21-Oct-2019 Call ID / Order No: 239984							
Calibration	Date: 18	18-Oct-2019 Job No / Pack No: S2399840001						
Next Calibr	ation Due: 15	5-Apr-2020						
	Customer:JBS&G Australia Pty Ltd-ID 202507Serial No: T-113497Description:PhoCheck Tiger Li-ion Battery Battery Charger							
	Calibration Summary							
Frequency:	180 Days	Temp: Humidity:	22°C 45%	As Found: Certificate: S	Out of Tolerance S2399840001	Result:	Pass	

Desc	As Found <u>Actual Result</u>	As Left (Cal Status) <u>Actual Result</u>
ISOBUTYLENE 100ppm	95.6 Pass	100.4 Pass
ISOBUTYLENE 1000ppm	851.9 Fail	998.9 Pass

	Standard Used		
Equip ID	Description	<u>Valid Until</u>	<u>Cert</u>
SY281	Zero Grade Air 20.9%VOL O2, N2 Balance	05-08-2024	400285698/12 901475
SY276	ISOBUTYLENE 100PPM AIR Balance	03-07-2024	400284906
SY234	ISO-BUTYLENE 1000PPM, AIR BALANCE	08-10-2021	BU 70910- 022118

Completed By: Jason Cheng

Signed:



Field Equipment Calibration and Decontamination

PROJECT NAME: Parrametta Paul	erhanser NO:
FIELDWORK DATES: 28-2.20	SAMPLERS: JN + JDC + MN
TYPE OF INVESTIGATION: Daillies	PROJECT MANAGER:

CALIBRATION SUMMARY

EQUIPMENT	:
PID,	P

CALIBRATION STANDARD:

DATE	TIME	READING (ppm)	COMMENTS
28/2/20	6:50	0	zero cal
//	6.51	100	Tero Cal 100ppm Isobutylere
	6:52	102.3	Post cal burn test
	U		/

DECONTAMINATION SUMMARY

EQU	JIPMENT:									
F	fugers, IP									
1	Was the equipment decontaminated appropriately prior to sampling at each location?	Y	N	NA						
2	2 Was excess soil removed by scraping, brushing or wiping with disposable towels? (Y) N									
3	Was the equipment contaminated with grease, tar or similar material?	Y	Ν	NA						
	If so, was the equipment steam cleaned or rinsed with pesticide-grade acetone:hexane? Y N (NA)									
4	Was phosphate-free detergent used to wash the equipment?	(Y)	N	NA						
5	Was the equipment rinsed with clean water?	Y	Ν	NA						
6	Was the equipment then rinsed with deionised water?	Ŷ	N	NA						
7	Were all sample containers cleaned and acid or solvent washed prior to sample collection?	Y	Ν	NA						
WE	RE ANY ADDITIONAL DECONTAMINATION MEASURES REQUIRED? PROVIDE DETAILS									
N	lew pair of nitrile places used for each s	Parp	le.							

Field Equipment Calibration and Decontamination



PROJECT NAME:	Parramatta	Paserhouse	PROJECT NO:	58352
FIELD DATES:	6/3/20		FIELD STAFF:	RC

CALIBRATION SUMMARY		
EQUIPMENT: 71	D	
CALIBRATION STANDARD:	IDOPPM	Esobutulene

8

DATE	TIME	READING (ppm _v)	COMMENTS
6/3/20	7:05	0	Lero
58	7:06	106	Zero Cal. Bump
, N	7:07	101.7	Bump
1			

DECONTAMINATION SUMMARY			
EQUIPMENT: PID			
1. Was the equipment decontaminated appropriately prior to sampling at each location?	Y	N	NA
2. Was excess soil removed by scraping, brushing or wiping with disposable towels?	Y	N	NA
3. Was the equipment contaminated with grease, tar or similar material? If so, was the equipment steam cleaned or rinsed with pesticide-grade acetone:hexane?	Y	N N	NA
4. Was phosphate-free detergent used to wash the equipment?	P	N	NA
5. Was the equipment rinsed with clean water?	Y	N	NA
6. Was the equipment then rinsed with deionised water?	Y	N	NA
7. Were all sample containers cleaned and acid or solvent washed prior to sample collection?	Y	N	NA
WERE ANY ADDITIONAL DECONTAMINATION MEASURES REQUIRED? PROVIDE DETAILS.			
New gloves for each sample.			



Appendix L Detailed QA/QC Assessment

QA/QC Results

The QA/QC result for soil samples collected during the JBS&G 2020 assessment are summarised in **Table L1** and discussed below. Detailed QA/QC results are included following the discussion of DQI exceedances below. QA/QC results from previous assessments are detailed in the associated previous reports.

Table	L1:	QA/QC	Results	Summary
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Data Quality Indicator	Results	DQO met?
Precision		
Blind duplicates (intra laboratory)	Soil	Partial ¹
	0-67% RPD	
	Groundwater	
	0-67% RPD	
	Intra laboratory samples were analysed at a rate of 1 in 20	
	samples.	
Blind duplicates (inter laboratory)	Soil	Partial ¹
	0-82% RPD	
	Groundwater	
	0-67% RPD	
	Inter laboratory samples were analysed at a rate greater	
	than 1 in 20 samples.	
Laboratory duplicates	0-24% RPD	Yes
	Intra laboratory samples were analysed at a rate of 1 in 20	
	samples.	
Accuracy		1
Laboratory control samples (LCS)	70-130% recovery	Yes
	Laboratory control samples were completed at a suitable	
	density with respect to laboratory batch size and sample	
	analyses.	
Surrogate spikes	52-132%	Partial ¹
	Surrogate spikes were completed for all organic sample	
	analyses.	
Matrix spikes	70-130% recovery	Yes
	Matrix spikes were completed at a suitable density with	
	respect to laboratory batch size and sample analyses.	
Representativeness		
Samples extracted and analysed within	All primary and duplicate samples were extracted within	Yes
holding times	appropriate holding times.	
Sampling appropriate for media and	Samples were collected using appropriate methodology with	Yes
analytes	regard to the sample media and analytes (volatile, semi-	
	volatile and low volatility organics and inorganics).	
Trip spike	70-130%	Yes
	One completed per sampling event and associated	
≠ de la la sele	laboratory batches.	N
Trip blank	<pre><lor< pre=""></lor<></pre>	Yes
	One completed per sampling event and associated	
Pincata blank	laboratory batches.	Vac
Rinsate blank	<lor< p=""> One completed per campling event and accepted.</lor<>	Yes
	One completed per sampling event and associated laboratory batch.	
Standard operating procedures used for	Standard operating procedures used as listed in Section 5	Yes
sample collection and handling	adopted for all sampling events and samples collected.	
Comparability		



Data Quality Indicator	Results	DQO met?
Standard analytical methods used for all analyses	Standard analytical methods used as listed in Appendix J .	Yes
Consistent field conditions, field staff and laboratories	Sampling was conducted by the same field staff members in the investigation. Standard operating procedures were implemented throughout the works. Field conditions remained consistent with those anticipated in development of the SAQP throughout the works.	Yes
Limits of reporting appropriate and consistent	Limits of reporting were consistent and appropriate.	Yes
Completeness		
Soil description and COCs completed and appropriate	All field documentation and COCs were completed appropriately.	Yes
Appropriate documentation	All field documentation was appropriately completed.	Yes
Satisfactory frequency and result for QC samples	The QC results are considered adequate for the purposes of the investigation.	Yes
Data from critical samples	Samples were analysed at locations designed to address the requirements of the investigation such that a suitable data set could be established. All critical samples were analysed for appropriate COPC and the QA/QC assessment confirmed the reliability of this data.	Yes
Sensitivity		
Analytical methods and limits of recovery appropriate for media and adopted site assessment criteria	Analytical methods and limits of recovery were considered appropriate for media and adopted site validation criteria for all soil analytes.	Yes

Notes: 1. See discussion below for notes

Discussion of QA/QC Results

Precision

Soil Blind Duplicates (intra laboratory)

The rate of blind duplicate sampling and analysis of soils is considered appropriate.

Soil RPDs for blind duplicate pairs were calculated according to the NEPC (2013) guidelines and were generally within the JBS&G acceptable limit (0-50%), with the exception of a nominal amount of heavy metals. These elevated RPDs are considered to be the result of heterogeneity in the soil samples collected and are not considered to influence the outcome of the investigation. In addition, reported concentrations were generally within 10 times the laboratory LOR, where any RPD is acceptable. As a conservative measure, or where concentrations exceeded 10 times the laboratory LOR, the highest concentration between the duplicate and primary sample was compared to the relevant adopted site criteria.

Soil Split Duplicates (inter laboratory)

The rate of split duplicate sampling and analysis of soils is considered appropriate.

Soil RPDs for blind interlab duplicate pairs were all within the JBS&G acceptable limit with the exception of chromium (55% RPD) and Benzo(a)pyrene TEQ (upper bound, 82% RPD). Reported concentrations are within 10x the laboratory limit of reporting, where any RPD is acceptable.

On this basis, the data has met the DQIs for inter-laboratory duplicates and the reported the elevated RPD is considered a result of field/soil characteristics and not laboratory precision errors and as such do not to affect the overall reliability or precision of the data.



Groundwater Blind Duplicates (intra laboratory)

The rate of blind duplicate sampling and analysis of groundwater is considered appropriate.

Groundwater RPDs for blind duplicate pairs were calculated according to the NEPC (2013) guidelines and were generally within the JBS&G acceptable limit (0-50%), with the exception of copper (67% RPD). Reported concentrations are within 10x the laboratory limit of reporting, where any RPD is acceptable.

Groundwater Split Duplicates (inter laboratory)

The rate of split duplicate sampling and analysis of groundwater is considered appropriate.

Groundwater RPDs for blind duplicate pairs were calculated according to the NEPC (2013) guidelines and were generally within the JBS&G acceptable limit (0-50%), with the exception of chromium (67% RPD). Reported concentrations are within 10x the laboratory limit of reporting, where any RPD is acceptable.

On this basis, the data has met the DQIs for inter-laboratory duplicates and the reported the elevated RPD is considered a result of field/groundwater characteristics and not laboratory precision errors and as such do not to affect the overall reliability or precision of the data.

Laboratory Duplicates

The rate of laboratory duplicate analysis are within the JBS&G acceptance criteria of 1 in 20 samples. RPDs were within the laboratory DQI of <30 % and the JBS&G DQI of <50 % RPD.

<u>Accuracy</u>

Laboratory Control Samples

All laboratory control samples (LCS) were reported as having recoveries within the JBS&G acceptable range of 70-130%.

Surrogate Spikes

Surrogate spikes were conducted in conjunction with organic contaminant analysis of all samples. Some of the surrogate spikes reported recoveries were not within the JBS&G acceptable range of 70-130%, yet the surrogate spike recoveries outside of the target range are not considered to affect the analytical data set as concentrations in validation samples were close to or below the laboratory's LOR and/or within the laboratories NATA accredited limits (50-150%).

Matrix Spikes

All matrix spikes reported recoveries were within the JBS&G acceptable range of 70 % – 130 %.



Representativeness

Sampling appropriate for media and analytes

All sampling works completed during the investigation were conducted in accordance with JBS&G standard operating procedures as outlined in the SAQP. Sample locations were undertaken for the purposes of visual inspection and/or olfactory assessment of soil/rock conditions and the collection of samples was considered appropriate for identified COPC.

All samples were collected wearing a new pair of disposable nitrile gloves. Where possible, disturbance of the sample was minimised during placement within the laboratory supplied sample container and during shipment to reduce the potential for loss of VOCs within the samples.

Holding Times

Copies of Sample Receipt Notes (SRNs) are included in relevant sections of the report (**Appendix J**) and sample extraction/analysis dates were reported in each laboratory report. All soil and groundwater analyses were undertaken within appropriate holding times for the respective analytes.

Trip Spike

Trip spikes were submitted with characterisation samples collected during the assessment. A trip spike was submitted with the lab batch, meeting the overall nominated frequency thresholds. Trip spike recoveries were within the JBS&G acceptable limit of 70-130%.

Storage Blank

A storage blank sample was carried during the characterisation sampling events and was submitted with the lab batch, meeting the overall nominated frequency thresholds. There were no reported concentrations of BTEX compounds above the laboratory LOR, achieving the nominated DQIs.

Rinsate Blank

Rinsate samples were prepared during the sampling events and subsequently submitted with the sample lab batch for analysis for key COPC. All subsequent contaminant concentrations were below the laboratory LOR.

Decontamination Comparability

All non-single use field equipment was decontaminated as per the procedure identified in **Section 5.4.2**.

Experienced JBS&G personnel undertook all sampling in accordance with standard JBS&G sampling methods as nominated in the validation SAQP.

The laboratory LORs are consistent and are considered appropriate.

Comparability

Eurofins, the primary laboratory, and Envirolab, the secondary laboratory, were NATA accredited for all analytical methods used. The laboratories used similar analytical methods and the analytical data was considered to be comparable between the laboratories as indicated by the results of interlaboratory duplicate analyses. Where different LORs were adopted by the laboratories, the primary laboratory typically had a lower LOR than the secondary laboratory, and as such, consideration of the data set was not impacted.

Furthermore, the samples collected for assessment/validation purposes are considered comparable as all samples were collected by experienced JBS&G personnel in accordance with standard JBS&G sampling methods.



Completeness

Documentation

All laboratory documentation is complete and correct. Chain of custody documentation is provided with laboratory reports in **Appendix J.**

Frequency for QC Samples

The frequency of analysis of all QC samples was considered appropriate and valid.

Assessment of QA/QC

The field sampling and handling procedures produced QA/QC results which indicate that the collected soil analytical data are of an acceptable quality and suitable for use in site the characterisation/validation assessment.

The NATA certified laboratory results sheets indicate that the project laboratory was generally achieving levels of performance within its recommended control limits during the period when the samples for this project were analysed.

On the basis of the results of the field and laboratory QA/QC program, the soil data is of an acceptable quality in order to achieve the objectives of the current assessment.

Soil RPDs Project Number: 58352 Project Name: Parramatta Powerhouse

Field Duplic			SDG	705373	705373		705373	705373		705373	705373		705373	ENVIROLAB 2020-03-02T00:00:00		705373	ENVIROLAB 2020-03-02T00:00:00		705373	ENVIROLAB 2020-03-02T00:00:00	
Filter: SDG	in('706429','705373')		Field ID	SB3_1.5	QS01	RPD	SB7_1.0	QS02	RPD		Q\$03	RPD	SB3_1.5	QS01a	RPD	SB7_1.0	QS02a	RPD		QS03a	RPD
			Sampled Date/Time	28/02/2020	28/02/2020)	28/02/2020	28/02/2020		28/02/2020	28/02/2020		28/02/2020	28/02/2020		28/02/2020	28/02/2020		28/02/2020	28/02/2020	
Chem_Gro	ChemName	Units	EQL			1												1			Τ
Metals & N	Arsenic (Total)	mg/kg	2 (Primary): 4 (Interlab)	5.2	5.4	4	2.6	3.5	30	<2.0	<2.0	0	5.2	5.0	4	2.6	<4.0	0	<2.0	<4.0	0
	Cadmium	mg/kg	0.4	<0.4	<0.4	0	<0.4	<0.4	0	<0.4	<0.4	0	<0.4	<0.4	0	<0.4	<0.4	0	<0.4	<0.4	0
	Chromium (Total)	mg/kg	5 (Primary): 1 (Interlab)	12.0	11.0	9	6.9	7.8	12	5.3	<5.0	6	12.0	10.0	18	6.9	5.0	32	5.3	3.0	55
	Copper	mg/kg	5 (Primary): 1 (Interlab)	13.0	19.0	38	8.5	11.0	26	<5.0	<5.0	0	13.0	14.0	7	8.5	9.0	6	<5.0	2.0	0
	Lead	mg/kg	5 (Primary): 1 (Interlab)	16.0	16.0	0	33.0	66.0	67	<5.0	<5.0	0	16.0	14.0	13	33.0	35.0	6	<5.0	4.0	0
	Mercury (Inorganic)	mg/kg	0.1	<0.1	<0.1	0	0.1	0.2	67	<0.1	<0.1	0	<0.1	<0.1	0	0.1	<0.1	0	<0.1	<0.1	0
	Nickel	mg/kg	5 (Primary): 1 (Interlab)	5.3	7.5	34	<5.0	<5.0	0	<5.0	<5.0	0	5.3	5.0	6	<5.0	3.0	0	<5.0	1.0	0
	Zinc	mg/kg	5 (Primary): 1 (Interlab)	20.0	26.0	26	19.0	21.0	10	<5.0	<5.0	0	20.0	18.0	11	19.0	18.0	5	<5.0	3.0	0
BTEXN	Naphthalene	mg/kg	0.5 (Primary): 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0
Polycyclic A	Acenaphthene	mg/kg	0.5 (Primary): 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0
	Acenaphthylene	mg/kg	0.5 (Primary): 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0
	Anthracene	mg/kg	0.5 (Primary): 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0
	Benz(a)anthracene	mg/kg	0.5 (Primary): 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0
	Benzo(a)pyrene	mg/kg	0.5 (Primary): 0.05 (Interlab)	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.05	0	<0.5	<0.05	0	<0.5	<0.05	0
	Benzo(a)pyrene TEQ (lower bound)*	mg/kg		<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0
	Benzo(a)pyrene TEQ (medium bound)*	mg/kg	0.5	0.6	0.6	0	0.6	0.6	0	0.6	0.6	0	0.6	<0.5	18	0.6	<0.5	18	0.6	<0.5	18
	Benzo(a)pyrene TEQ (upper bound)*	mg/kg	0.5	1.2	1.2	0	1.2	1.2	0	1.2	1.2	0	1.2	<0.5	82	1.2	<0.5	82	1.2	<0.5	82
	Benzo(b,j)fluoranthene	mg/kg	0.5	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5			<0.5			<0.5		
	Benzo(g,h,i)perylene	mg/kg	0.5 (Primary): 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0
	Benzo(k)fluoranthene	mg/kg	0.5	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5			<0.5			<0.5		
	Chrysene	mg/kg	0.5 (Primary): 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0
	Dibenz(a,h)anthracene	mg/kg	0.5 (Primary): 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0
	Fluoranthene	mg/kg	0.5 (Primary): 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0
	Fluorene	mg/kg	0.5 (Primary): 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.5 (Primary): 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0
	Phenanthrene		0.5 (Primary): 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0
	PAHs (Total)	mg/kg	0.5	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5			<0.5			<0.5		
	Pyrene	mg/kg	0.5 (Primary): 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0
Other	% Moisture 103oC	%	1	11.0	12.0	9	8.6	7.7	11	5.3	5.4	2	11.0			8.6		-	5.3		+

*RPDs have only been considered where a concentration is greater than 1 times the EQL. **High RPDs are in bold (Acceptable RPDs for each EQL multiplier range are: 30 (1-10 x EQL); 30 (> 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



Groundwater RPDs Project Number: 58352 Project Name: Parramatta Powerhouse Field Duplicates (WATER) SDG ENVIROLAB 2020-03-09T00:00:00 706429 706429 706429 Filter: SDG in('706429','705373') Field ID MW1 QC01 RPD MW1 QC01A 6/03/2020 Sampled Date/Time 6/03/2020 6/03/2020 6/03/2020 Chem_Group ChemName Units EQL Metals & Metalloids Arsenic (Total) (Filtered) Cadmium (Filtered) mg/I 0.001 mg/I 0.0002 (Primary): 0.0001 (Interlab) <0.001 <0.001 0 <0.001 0.001 <0.0002 <0.0002 0 <0.0002 < 0.0001

RPD

0 0

	Caumum (mereu)			NU.0002	<0.000Z	0	N0.0002	<0.0001	0
	Chromium (Total) (Filtered)	j.	0.001	0.002	0.002	0	0.002	0.004	67
	Copper (Filtered)	mg/l	0.001	0.001	0.002	67	0.001	<0.001	0
	Lead (Filtered)	mg/l	0.001	< 0.001	< 0.001	0	< 0.001	<0.001	0
	Mercury (Inorganic) (Filtered)	mg/l	0.0001 (Primary): 0.00005 (Interlab)	< 0.0001	< 0.0001	0	< 0.0001	<0.0001	0
	Nickel (Filtered)	mg/l	0.001	< 0.001	< 0.001	0	< 0.001	0.001	0
	Zinc (Filtered)	-	0.005 (Primary): 0.001 (Interlab)	0.01	0.011	10	0.01	0.01	0
		1116/1		0.01	0.011	10	0.01	0.01	0
	CC CO Fuentier			10.02	.0.02	_	-0.02	-0.01	-
TPHs (NEPC 1999)	C6-C9 Fraction		0.02 (Primary): 0.01 (Interlab)	< 0.02	<0.02	0	<0.02	<0.01	0
	C10-C14 Fraction	mg/l	0.05	<0.05	<0.05	0	<0.05	<0.05	0
	C15-C28 Fraction	mg/l	0.1	<0.1	<0.1	0	<0.1	<0.1	0
	C29-C36 Fraction	mg/l	0.1	<0.1	<0.1	0	<0.1	<0.1	0
	C10-C36 Fraction (Total)	mg/l	0.1	<0.1	<0.1	0	<0.1		
TRHs (NEPC 2013)	>C10-C16 Fraction	mg/l	0.05	< 0.05	< 0.05	0	< 0.05	<0.05	0
	>C16-C34 Fraction	mg/l	0.1	<0.1	<0.1	0	<0.1	<0.1	0
	>C34-C40 Fraction	-	0.1	<0.1	<0.1	0	<0.1	<0.1	0
	>C10-C40 Fraction (Total)	mg/l	0.1	<0.1	<0.1	0	<0.1		Ŭ
		-						<0.0F	-
	>C10-C16 less Naphthalene (F2)		0.05	< 0.05	< 0.05	0	< 0.05	<0.05	0
	C6-C10 Fraction		0.02 (Primary): 0.01 (Interlab)	<0.02	<0.02	0	<0.02	<0.01	0
	C6-C10 less BTEX (F1)	mg/l	0.02 (Primary): 0.01 (Interlab)	<0.02	<0.02	0	<0.02	<0.01	0
BTEXN	Benzene	mg/l	0.001	< 0.001	< 0.001	0	< 0.001	<0.001	0
	Ethylbenzene	mg/l	0.001	< 0.001	< 0.001	0	< 0.001	<0.001	0
	Toluene	-	0.001	< 0.001	< 0.001	0	< 0.001	<0.001	0
	Xylene (o)	mg/l	0.001	< 0.001	< 0.001	0	<0.001	<0.001	0
		.							0
	Xylene (m & p)	0.	0.002	< 0.002	< 0.002	0	< 0.002	<0.002	0
	Xylene (Total)	mg/l	0.003	< 0.003	< 0.003	0	< 0.003		
	Naphthalene	mg/l	0.01 (Primary): 0.001 (Interlab)	<0.01	<0.01	0	<0.01	<0.0002	0
	Naphthalene	mg/l	0.00001 (Primary): 0.001 (Interlab)	<0.0	<0.0	0	<0.0	<0.0002	0
Polycyclic Aromatic Hydrocarbons	Acenaphthene	mg/l	0.00001 (Primary): 0.0001 (Interlab)	<0.0	<0.0	0	<0.0	<0.0001	0
	Acenaphthylene	mg/l	0.00001 (Primary): 0.0001 (Interlab)	<0.0	<0.0	0	<0.0	<0.0001	0
	Anthracene	-	0.00001 (Primary): 0.0001 (Interlab)	<0.0	<0.0	0	<0.0	<0.0001	0
	Benz(a)anthracene	-	0.00001 (Primary): 0.0001 (Interlab)	<0.0	<0.0	0	<0.0	<0.0001	0
		-	0.00001 (Primary): 0.0001 (Interlab)	<0.0	<0.0	0	<0.0	<0.0001	0
	Benzo(a)pyrene							<0.0001	0
	Benzo(b,j)fluoranthene	mg/l	0.00001	<0.0	<0.0	0	<0.0		
	Benzo(g,h,i)perylene	-	0.00001 (Primary): 0.0001 (Interlab)	<0.0	<0.0	0	<0.0	<0.0001	0
	Benzo(k)fluoranthene	mg/l	0.00001	<0.0	<0.0	0	<0.0		
	Chrysene	mg/l	0.00001 (Primary): 0.0001 (Interlab)	<0.0	<0.0	0	<0.0	<0.0001	0
	Dibenz(a,h)anthracene	mg/l	0.00001 (Primary): 0.0001 (Interlab)	<0.0	<0.0	0	<0.0	<0.0001	0
	Fluoranthene	mg/l	0.00001 (Primary): 0.0001 (Interlab)	<0.0	< 0.0	0	<0.0	<0.0001	0
	Fluorene		0.00001 (Primary): 0.0001 (Interlab)	<0.0	<0.0	0	<0.0	<0.0001	0
	Indeno(1,2,3-c,d)pyrene		0.00001 (Primary): 0.0001 (Interlab)	<0.0	<0.0	0	<0.0	<0.0001	0
	Phenanthrene	.	0.00001 (Primary): 0.0001 (Interlab)	<0.0	<0.0	0	<0.0	<0.0001	0
		-						<0.0001	0
	PAHs (Total)	Ċ,	0.00001	<0.0	<0.0	0	<0.0		
	Pyrene	mg/l	0.00001 (Primary): 0.0001 (Interlab)	<0.0	<0.0	0	<0.0	<0.0001	0
Chlorinated Alkanes	1,1,1,2-tetrachloroethane	mg/l	0.001	< 0.001	< 0.001	0	< 0.001	<0.001	0
	1,1,1-trichloroethane	mg/l	0.001	< 0.001	< 0.001	0	< 0.001	<0.001	0
	1,1,2,2-tetrachloroethane	mg/l	0.001	< 0.001	< 0.001	0	< 0.001	<0.001	0
				< 0.001	< 0.001	0	< 0.001	<0.001	0
	1,1,2-trichloroethane	mg/l	0.001	<0.001	<0.001				
		0.				0		<0.001	Ω
	1,1-dichloroethane	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	1,1-dichloroethane 1,2,3-trichloropropane	mg/l mg/l	0.001 0.001	<0.001 <0.001	<0.001 <0.001	0	<0.001 <0.001	<0.001	0
	1,1-dichloroethane1,2,3-trichloropropane1,2-dichloroethane	mg/l mg/l mg/l	0.001 0.001 0.001	<0.001 <0.001 <0.001	<0.001 <0.001 <0.001	0	<0.001 <0.001 <0.001	<0.001 <0.001	0
	1,1-dichloroethane 1,2,3-trichloropropane 1,2-dichloroethane 1,2-dichloropropane	mg/l mg/l mg/l mg/l	0.001 0.001 0.001 0.001 0.001	<0.001 <0.001 <0.001 <0.001	<0.001 <0.001 <0.001 <0.001	0 0 0	<0.001 <0.001 <0.001 <0.001	<0.001 <0.001 <0.001	0 0 0
	1,1-dichloroethane1,2,3-trichloropropane1,2-dichloroethane1,2-dichloropropane1,3-dichloropropane	mg/l mg/l mg/l mg/l mg/l	0.001 0.001 0.001 0.001 0.001 0.001	<0.001 <0.001 <0.001 <0.001 <0.001	<0.001 <0.001 <0.001 <0.001 <0.001	0 0 0	<0.001 <0.001 <0.001 <0.001 <0.001	<0.001 <0.001 <0.001 <0.001	0 0 0 0
	1,1-dichloroethane 1,2,3-trichloropropane 1,2-dichloroethane 1,2-dichloropropane	mg/l mg/l mg/l mg/l	0.001 0.001 0.001 0.001 0.001	<0.001 <0.001 <0.001 <0.001	<0.001 <0.001 <0.001 <0.001	0 0 0	<0.001 <0.001 <0.001 <0.001	<0.001 <0.001 <0.001	0 0 0
	1,1-dichloroethane1,2,3-trichloropropane1,2-dichloroethane1,2-dichloropropane1,3-dichloropropane	mg/l mg/l mg/l mg/l mg/l	0.001 0.001 0.001 0.001 0.001 0.001	<0.001 <0.001 <0.001 <0.001 <0.001	<0.001 <0.001 <0.001 <0.001 <0.001	0 0 0	<0.001 <0.001 <0.001 <0.001 <0.001	<0.001 <0.001 <0.001 <0.001	0 0 0 0
	1,1-dichloroethane1,2,3-trichloropropane1,2-dichloroethane1,2-dichloropropane1,3-dichloropropaneBromochloromethane	mg/l mg/l mg/l mg/l mg/l mg/l	0.001 0.001 0.001 0.001 0.001 0.001 0.001	<0.001 <0.001 <0.001 <0.001 <0.001 <0.001	<0.001 <0.001 <0.001 <0.001 <0.001 <0.001	0 0 0 0	<0.001 <0.001 <0.001 <0.001 <0.001 <0.001	<0.001 <0.001 <0.001 <0.001 <0.001	0 0 0 0 0
	1,1-dichloroethane1,2,3-trichloropropane1,2-dichloroethane1,2-dichloropropane1,3-dichloropropaneBromochloromethaneCarbon tetrachlorideChloroethane	mg/l mg/l mg/l mg/l mg/l mg/l mg/l	0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 (Primary): 0.01 (Interlab)	<0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	<0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	0 0 0 0 0 0	<0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	<0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.01	0 0 0 0 0 0 0
	1,1-dichloroethane 1,2,3-trichloropropane 1,2-dichloroethane 1,2-dichloropropane 1,3-dichloropropane Bromochloromethane Carbon tetrachloride Chloroethane Chloromethane	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 (Primary): 0.01 (Interlab) 0.001 (Primary): 0.01 (Interlab)	<0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	<0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	0 0 0 0 0 0 0	<0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	<pre><0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.01 <0.01 <0.01</pre>	0 0 0 0 0 0 0 0 0
	1,1-dichloroethane 1,2,3-trichloropropane 1,2-dichloroethane 1,2-dichloropropane 1,3-dichloropropane Bromochloromethane Carbon tetrachloride Chloroethane Chloromethane Dichlorodifluoromethane	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 (Primary): 0.01 (Interlab) 0.001 (Primary): 0.01 (Interlab) 0.001 (Primary): 0.01 (Interlab)	<0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	<0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	0 0 0 0 0 0 0 0 0 0	<0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	<0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.01	0 0 0 0 0 0 0
	1,1-dichloroethane 1,2,3-trichloropropane 1,2-dichloroethane 1,2-dichloropropane 1,3-dichloropropane Bromochloromethane Carbon tetrachloride Chloroethane Chloromethane	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 (Primary): 0.01 (Interlab) 0.001 (Primary): 0.01 (Interlab)	<0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	<0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	0 0 0 0 0 0 0	<0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	<pre><0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.01 <0.01 <0.01</pre>	0 0 0 0 0 0 0 0 0



Project Name: Parramatta Powerhous									
Field Duplicates (WATER)			SDG	706429	706429		706429	ENVIROLAB 2020-03-09T00:00:00	
Filter: SDG in('706429','705373')			Field ID	MW1	QC01	RPD	MW1	QC01A	RPD
,			Sampled Date/Time	6/03/2020	6/03/2020		6/03/2020	6/03/2020	
Chlorinated Alkenes	1,1-dichloroethene	mg/l	0.001	< 0.001	< 0.001	0	< 0.001	<0.001	0
	3-chloropropene	mg/l	0.001	< 0.001	< 0.001	0	<0.001		_
	4-chlorotoluene	mg/l	0.001	< 0.001	< 0.001	0	<0.001	<0.001	0
	cis-1,2-dichloroethene	mg/l	0.001	< 0.001	< 0.001	0	<0.001	<0.001	0
	cis-1,3-dichloropropene	mg/l	0.001	< 0.001	< 0.001	0	<0.001	<0.001	0
	Tetrachloroethene	mg/l	0.001	< 0.001	< 0.001	0	<0.001	<0.001	0
	trans-1,2-dichloroethene	mg/l	0.001	< 0.001	< 0.001	0	< 0.001	<0.001	0
	trans-1,3-dichloropropene	mg/l	0.001	< 0.001	< 0.001	0	< 0.001	<0.001	0
	Trichloroethene	mg/l	0.001	< 0.001	< 0.001	0	< 0.001	<0.001	0
	Vinyl Chloride	mg/l	0.001 (Primary): 0.01 (Interlab)	< 0.001	< 0.001	0	< 0.001	<0.01	0
									1
Solvents	2-Propanone (Acetone)	μg/l	1	2.0	<1.0	67	2.0		
									1
Monocyclic Aromatic Hydrocarbons	1,2,4-trimethyl benzene	mg/l	0.001	< 0.001	< 0.001	0	<0.001	<0.001	0
	1,3,5-trimethyl benzene	mg/l	0.001	< 0.001	< 0.001	0	<0.001	<0.001	0
	Bromobenzene	mg/l	0.001	< 0.001	< 0.001	0	<0.001	<0.001	0
	Isopropylbenzene	mg/l	0.001	< 0.001	< 0.001	0	<0.001	<0.001	0
	Styrene	mg/l	0.001	< 0.001	< 0.001	0	<0.001	<0.001	0
Miscellaneous Hydrocarbons	1,2-dibromoethane	mg/l	0.001	< 0.001	< 0.001	0	<0.001	<0.001	0
	2-Butanone (MEK)	mg/l	0.001	< 0.001	< 0.001	0	<0.001		_
	4-Methyl-2-pentanone (MIBK)	mg/l	0.001	< 0.001	< 0.001	0	<0.001		
	Bromomethane	mg/l	0.001 (Primary): 0.01 (Interlab)	< 0.001	< 0.001	0	<0.001	<0.01	0
	Dibromomethane	mg/l	0.001	< 0.001	< 0.001	0	<0.001	<0.001	0
	Iodomethane	mg/l	0.001	< 0.001	< 0.001	0	<0.001		
Chlorinated Benzenes	1,2-Dichlorobenzene	mg/l	0.001	< 0.001	< 0.001	0	<0.001	<0.001	0
	1,3-dichlorobenzene	mg/l	0.001	< 0.001	< 0.001	0	<0.001	<0.001	0
	1,4-dichlorobenzene	mg/l	0.001	<0.001	< 0.001	0	<0.001	<0.001	0
	Chlorobenzene	mg/l	0.001	<0.001	< 0.001	0	<0.001	<0.001	0
Trihalomethanes	Bromodichloromethane	mg/l	0.001	<0.001	<0.001	0	< 0.001	<0.001	0
	Chloroform	mg/l	0.005 (Primary): 0.001 (Interlab)	<0.005	<0.005	0	<0.005	<0.001	0
	Dibromochloromethane	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Tribromomethane	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
Organic Sulfur Compounds	Carbon disulfide	mg/l	0.001	<0.001	<0.001	0	< 0.001		
EPA VIC - IWRG621	Chlorinated Hydrocarbons EPAVic	µg/l	5	<5.0	<5.0	0	<5.0		
	Other Chlorinated Hydrocarbons EPAVic	μg/l	5	<5.0	<5.0	0	<5.0		

Groundwater RPDs Project Number: 58352 Project Name: Parramatta Powerhouse

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

High RPDs are in bold (Acceptable RPDs for each EQL multiplier range are: 30 (1-10 x EQL); 30 (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





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