Altis Property Partners Pty Ltd

Detailed Site Investigation

884 to 902 and 904 to 928 Mamre Road
Kemps Creek NSW

9 July 2021

60330/1377894 (Rev 0)

JBS&G Australia Pty Ltd

www.jbsg.com.au

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Abbreviations

Term	Definition
ACM	Asbestos Containing Material
AEC	Area of Environmental Concern
AHD	Australian Height Datum
bgl	below ground level
CEC	Cation exchange capacity
CSM	Conceptual site model
BTEX	Benzene, toluene, ethylbenzene and xylenes
B(a)P	Benzo(a)pyrene
COPC	Contaminants of Potential Concern
CSM	Conceptual site model
DP	Deposited Plan
DQI	Data quality indicator
DQO	Data quality objective
DSI	Detailed Site Investigation
EPA	Environment Protection Authority
EIL	Ecological investigation level
ESL	Ecological screening level
FA/AF	Fibrous asbestos/asbestos fines
ha	Hectare
HIL	Health based investigation level
HSL	Health screening level
JBS&G	JBS&G Australia Pty Ltd
LOR	Limit of Reporting
NEPC	National Environment Protection Council
NEPM	National Environment Protection Measure
OEH	Office of Environment and Heritage
OCPs	Organochlorine pesticides
OPPs	Organophosphorus pesticides
PAHs	Polycyclic aromatic hydrocarbons
PID	Photoionisation Detector
PCB	Polychlorinated Biphenyl
PFAS	Per- and polyfluoroalkyl substances
PSI	Preliminary Site Investigation
QA/QC	Quality Assurance/Quality Control
RPD	Relative Percentage Difference
SAQP	Sampling, Analysis and Quality Plan
SEARs	Secretary's Environmental Assessment Requirements
SSDA	States Significant Development Application

Executive Summary

JBS&G Australia Pty Ltd (JBS&G) was engaged by Altis Property Partners Pty Ltd (Altis, the Client) for the provision of environmental services associated with the proposed development of a property located at 884 to 902 and 904 to 928 Mamre Road, Kemps Creek, NSW (the site). The site is legally identified as Lot 52 and Lot 53 in in Deposited Plan 259135 and is shown on **Figure 1**. The site occupies a combined area of approximately 20.3 hectares.

The client proposes to redevelop the site to accommodate a warehouse building for future commercial/industrial use. In support of the proposed development, it is understood that a State Significant Development Application will be submitted.

A Preliminary Site Investigation (PSI) has previously been undertaken on the site. The PSI presented detailed information on the site history, environmental setting and a preliminary conceptual site model (CSM). The PSI identified the potential for contamination to exist at the site, which warranted investigation and characterisation to evaluate whether the site is suitable for the proposed redevelopment. Relevant components of the PSI have been incorporated into this investigation report.

This Detailed Site Investigation (DSI) has been prepared to address the Secretary's Environmental Assessment Requirements (SEARs) relating to contamination including the requirement for an assessment of site suitability for the proposed use in accordance with *State Environmental Planning Policy No. 55 – Remediation of Land* (SEPP 55). This report has been developed in general accordance with the requirements of NSW Environmental Protection Authority (EPA) made or endorsed guidance.

Based on the scope of works completed, and subject to the limitations presented in **Section 12**, the following conclusions are provided:

- The majority of the site is made up of undeveloped pastoral and horticultural land. A review of the site history indicates the site and surrounding area land uses have been consistent since the 1980's;
- A total of 136 soil locations have been advanced within the site which identified predominately reworked natural or natural material, with isolated areas of fill across the site;
- All individual concentrations of soil samples were below the adopted site criteria for proposed commercial/industrial use;
- All COPC concentrations in dam surface water samples were below the adopted site criteria with the exception of copper and zinc, considered to be representative of regional background levels and not posing a risk to future site users. Regardless, dewatering activities may be required during development activities which may require management such that surface water discharged from site does not represent an unacceptable ecological risk; and
- An assessment of site suitability for the proposed use has been undertaken in accordance SEPP 55, and based on the findings of the assessment it is concluded that the site is suitable for the proposed commercial/industrial land use without contamination remediation and/or management.

Based on the site characterisation and conclusions above, the following recommendations are made:

- Hazardous building materials survey (HBMS) of site structures prior to demolition; and
- Development of a dewatering management plan for the site dams if dewatering is required.

1. Introduction

1.1 Introduction and Background

JBS&G Australia Pty Ltd (JBS&G) was engaged by Altis Property Partners Pty Ltd (Altis, the Client) for the provision of environmental services associated with the proposed development of a property located at 884 to 902 and 904 to 928 Mamre Road, Kemps Creek, NSW (the site). The site is legally identified as Lot 52 and Lot 53 in in Deposited Plan (DP) 259135 and is shown on **Figure 1**. The site occupies a combined area of approximately 20.3 hectares (ha).

The client proposes to redevelop the site to accommodate a warehouse building for future commercial/industrial use. In support of the proposed development, it is understood that a State Significant Development Application (SSDA) will be submitted.

A Preliminary Site Investigation (PSI) has previously been undertaken on the site, as documented in JBS&G (2020[1]). The PSI presents detailed information on the Site history, environmental setting and a preliminary conceptual site model (CSM). The PSI identified the potential for contamination to exist at the site, which requires to be investigated and characterised to evaluate whether the site is suitable for the proposed redevelopment. Relevant components of the PSI have been incorporated into this investigation report.

This Detailed Site Investigation (DSI) has been prepared to address the Secretary's Environmental Assessment Requirements (SEARs) relating to contamination. Relevant to site contamination, the SEARs include the requirement for an assessment of site suitability for the proposed use in accordance with *State Environmental Planning Policy No. 55 – Remediation of Land* (SEPP 55[2]). Specific SEARs requirements have been addressed within the report as shown in **Table 1.1**, following.

Table 1-1 SEARs Requirements Report Section References

SEARs Requirement	Report Section(s)
The EIS must include an assessment of the potential impacts of the proposal (including cumulative impacts) and develop appropriate measures to avoid, mitigate, manage and/or offset these impacts. The EIS must address the following specific matters: · Contamination – including an assessment of the site suitability for the proposed use(s) in accordance with State Environmental Planning Policy No 55 – Remediation of Land.	Section 11.1, final paragraph

This report has been developed in general accordance with the requirements of ASC NEPM[3] and NSW Environmental Protection Authority (EPA) made or endorsed guidance.

1.2 Objective

The objective of the DSI was to evaluate, from a land contamination perspective, whether the site is suitable for the proposed commercial/industrial redevelopment.

1.3 Scope of Works

The scope of works completed in preparation of this DSI comprised:

- Review of the PSI (JBS&G 2020);
- Documentation of the environmental setting, site history and a preliminary CSM;

[1] JBS&G (2020) *Preliminary Site Investigation – 884-928 Mamre Road, Kemps Creek, NSW*. JBS&G Australia Pty Ltd reference 59637/133273 Revision 1 dated 19 October 2020.

[2] *Managing Land Contamination. Planning Guidelines SEPP 55 – Remediation of Land*. Department of Urban Affairs and Planning. Environment Protection Authority 1998 (SEPP 55)

[3] ASC NEPM (2013) *National Environment Protection (Assessment of Site Contamination) Measure 1999*. National Environmental Protection Council, Office of Parliamentary Counsel, Canberra, Australia.

- Establishment of data quality objectives (DQOs) and a sampling, analytical and quality plan (SAQP) in accordance with the ASC NEPM procedure to guide collection of field and laboratory analytical data;
- Completion of an intrusive investigation program including field screening, sampling and laboratory analysis of soils, sediment and surface water;
- Data analysis, including comparison of field screening/observational and laboratory analytical data against assessment thresholds obtained from regulatory guidance; and
- Preparation of this DSI report in accordance with relevant EPA guidelines.

1.4 Regulatory Guidance

In preparation of this DSI, guidance was sought from the following NSW EPA made or endorsed guidance, in addition to environmental planning instruments:

- NEPC (2013) *National Environmental Protection (Assessment of Site Contamination) Measure 1999 (as amended 2013)*. National Environmental Protection Council. Office of Parliamentary Council, Canberra, Australia. ('ASC NEPM');
- NSW EPA (2020) *Contaminated Land Guidelines - Consultants Reporting on Contaminated Land*. NSW Environment Protection Authority dated 2020.
- NSW EPA (1995) *Contaminated Sites - Sampling Design Guidelines*. NSW Environment Protection Authority dated 1995; and
- NSW EPA (2017) *Contaminated Land Management - Guidelines for the NSW Site Auditor Scheme (3rd Edition)*. NSW Environment Protection Authority dated 2017.

2. Site Condition and Surrounding Environment

2.1 Site Identification and Details

The location of the site is shown on **Figure 1**, with the current layout presented in **Figure 2**. Site details are summarised in **Table 2-1**.

Table 2-1 Site Identification and Details

Information Requirement	
Legal Property Identification	Lot 52 and Lot 53 in DP 259135
Coordinates (approximate centre of property)	As shown on **Figure 2**
Current Owner	Altis Property Partners Pty Ltd
Current Occupier	Various residents
Area of Property Shape of Property Length of Property Width of Property	Approximately 20.3 ha Irregular ~780 m (northeast to southwest) ~640 m (east to west)
Local Government Area	Penrith City Council
Current Land Use	Rural Residential / Agricultural
Former Land Use(s)	Rural Residential / Agricultural
Proposed Land Use	Commercial / Industrial

2.2 Site Description

The site was inspected on 25 May 2021 by Rohan Hammond, one of JBS&G's trained and experienced environmental consultants. Key site features are shown on **Figure 3** and a photographic log is presented in **Appendix B**.

The site comprised two rural/agricultural premises on the north/east side of Mamre Road in Kemps Creek. General site features and potential sources of contamination are briefly described below, and then subject to detailed consideration in the preliminary Conceptual Site Model (CSM) (See **Section 5**). Evidence of gross and/or widespread contamination was not identified during the site inspection.

2.2.1 884 to 902 Mamre Road (Lot 53)

The property comprises an irregularly shaped parcel of land occupying an approximate area of 10.1 ha. The property perimeter was fenced, with vehicle and pedestrian access provided via gates fronting Mamre Road. The following prominent site features were observed:

- A rural residence, associated agricultural sheds/structures, driveways and landscaped areas in the western site portion;
- A large (~1.2 ha) constructed dam, which extended beyond the property boundary into the adjacent premises (904 to 928 Mamre Road). The use of fill materials was evident in construction of the dam walls;
- An extensive area (~5.3 ha) of former market gardens, which occupied the majority of eastern rear of the premises;
- A second, smaller constructed dam (~4500 m^2) occupying the north easternmost portion of the property; and
- Small operational features including: a pump house adjacent to the large dam, a greenhouse within the rural residence area, a septic tank on the southern side of the residence, a powerline traversing the site and a drainage line connecting the former market gardens to the large dam.

Access was obtained to inspect all non-residential structures. Site sheds and structures contained various tools and equipment. Jerry cans and tubs (<20 L) of motor oils and small quantities of fuels (<20 L) were observed. Empty containers of glyphosate containing herbicides were observed. No substantial quantities of hazardous liquid or solid chemicals (pesticides, solvents/degreasers, etc.) were observed.

2.2.2 904 to 928 Mamre Road (Lot 52)

The property comprises an irregularly shaped parcel of land occupying an approximate area of 10.2 ha. The property perimeter was fenced, with vehicle and pedestrian access provided via gates fronting Mamre Road. The following prominent site features were observed:

- The southern portion of the large, constructed dam present on 884 to 902 Mamre Road, of which 1.9 ha was present within the premises. The use of fill materials was evident in construction of the dam walls;
- A rural residence, associated agricultural sheds/structures, driveways, landscaped areas and a small garden occupying the central/southern portion of the premises;
- A second, smaller (~900 m^2) constructed dam within the central portion of the premises;
- Remnants of former agricultural buildings (sheds, pens, coups, etc.) present east of the rural residential area;
- Within the residential area, two areas of scorched ground were identified including remnant burnt waste (cans, containers, springs, etc.); and
- Small operational features including: a pump house adjacent to the large dam, three septic tanks in two areas proximal to the houses, and a powerline traversing the site.

Access was obtained for inspection of most site structures, with the exception of the central garage/shed. The inside of residences was not inspected. Site sheds and structures contained various timber, hardware, tools and equipment. Jerry cans and tubs (<20 L) of motor oils and small quantities of fuels (<20 L) were observed. No substantial quantities of hazardous liquid or solid chemicals (pesticides, solvents/degreasers, etc.) were observed.

2.3 Surrounding Land uses

A review of information available via ePlanning (NSW 2020[4]) indicates that the site is within an area zoned IN1 General Industrial. The ePlanning portal map is provided as **Appendix C**.

The condition and use of the land surrounding the site as identified during the site inspection and review of readily available online records indicates the surrounding land is utilised as follows:

- North: The site is bound to the north by 864 to 882 Mamre Road, a rural residential and agricultural property;
- East: The site is bound to the east by several rural residential and agricultural properties along Aldington Road;
- South: The southern boundary of the site is shared between Mamre Road and 930A Mamre Road; and
- West: the site is bound to the west by Mamre Road. Further west is M&M Rubber Suppliers and then Kemps Creek, approximately 600 m southwest of the site boundary.

[4] NSW (2020) *ePlanning Spatial Viewer*. NSW Government, accessed 19 May 2021 https://www.planningportal.nsw.gov.au/spatialviewer/#/find-a-property/address

2.4 Regional Topography

Reference to the eSPADE NSW Soil and Land Information database (OEH 2020[5]) indicates that the site exists on the border of two regional landscapes:

- Western site portion: gently undulating rises, local relief to 30 m with slopes typically greater than 5 %. Broad rounded crests and ridges with gently inclined slopes are anticipated; and
- Eastern site portion: undulating to rolling low hills, local relief 50 to 80 m, slopes 5 to 20 %. Narrow ridges, hillcrests and valleys.

The site is situated between 50 m and 65 m Australian Height Datum (AHD) and slopes downward from the northeast to the southwest, toward Kemps Creek.

2.5 Regional Hydrology

Three surface water bodies are present within the site, comprising constructed agricultural dams.

Excess rainwater is anticipated to flow overland to the dams on the site, in line with topographical gradients and drainage lines. From the site, excess rainwater flows west/southwest towards the receiving water body of Kemps Creek. Kemps Creek is identified as a freshwater environment.

2.6 Regional Geology and Soils

Reference to Penrith 1:100,000 Geological Series Sheet 9030 (DME 1991[6]) indicates the site is underlain by Ashfield Shale and Bringelly Shale.

Reference to OEH (2021) indicates the site is underlain by Blacktown Residual Soils (in the western site portion) and Luddenham Erosional Soils (in the eastern site portion). Each soil landscape is separately described:

- Blacktown – shallow to moderately deep hardsetting mottle texture contrast soils (>100 cm), red and brown podzolic soils on crests, grading to yellow podzolic soils on lower slopes and in drainage lines.

  Localised seasonal waterlogging, water erosion hazard, moderately reactive highly plastic subsoil and localised surface movement potential is associated with this soil group; and
- Luddenham – shallow dark podzolic soils or massive earthy clays on crests (<100 cm), moderately deep (70 to 150 cm) red podzolic soils on upper slopes, moderately deep (<150 cm) yellow podzolic soils and prairie soils on lower slopes and drainage lines.

  Water erosion hazard, localised steep slopes, localised mass movement hazard, localised shallow soils, surface movement potential, localised impermeable highly plastic subsoil and moderately reactive soils are associated with this soil group.

It is noted that the site is anticipated to have been subject to earthworks to generate the current built form, and as part of its historical operational usage as market gardens. As such, there is the potential for fill material, which may not be representative of the regional soil groups, to be present in some areas of the site.

2.7 Regional Hydrogeology

A review of the WaterNSW (2020[7]) database did not identify registered groundwater wells within 0.5 km of the site. A printout of the groundwater map is presented in **Appendix D**.

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5 OEH (2021) *eSPADE 2.1 NSW Soil and Land Information*. NSW Office of Environment and Heritage, Accessed 19 May 2021 http://www.environment.nsw.gov.au/eSpade2Webapp

6 Penrith 1:100,000 Geological Series Sheet 9030, Edition 1, 1991, Geological Survey of NSW, Department of Minerals and Energy (DME 1991)

7 WaterNSW (2020) *All Groundwater Map*. Accessed 4 September 2020 https://realtimedata.waternsw.com.au/

Based on the site's regional environmental setting, reported geology and soils, two aquifer types are anticipated to be present within the site. Following periods of rainfall, perched water is anticipated to be present within unconsolidated erosional/residual soils at the bedrock/soil interface. The hydraulic conductivity is expected to be very low, with groundwater being moderately saline. A semi-permanent unconfined to semi-confined aquifer is expected in Ashfield Shale and Bringelly Shale. Water flow is expected to be dominated by secondary porosity through rock defects. Moderately to highly saline groundwater is expected.

2.8 Acid Sulfate Soils

A review of the Section 10.7 planning certificate (See **Appendix H**) indicates that the site is not affected by a policy restriction relating to acid sulfate soils (ASS). A review of OEH (2020[8]) indicates the site is within an area which is not required to be assessed for the presence of ASS (**Appendix E**).

Based on the site's setting, and review of the available data sources, there is no appreciable risk for the presence of natural ASS or potential acid sulfate soils (PASS) at the site.

2.9 Meteorology

The Bureau of Meteorology hosts local climate statistics for Australian locations. A review of statistics presented for the nearby station of Badgery's Creek (1.3 km from the site) indicated the following relevant information (BOM 2020[9]):

- Temperature average minimums range from 4.1 °C to 17.3 °C, and maximums from 17.5 °C to 30.3 °C; and
- Mean rainfall ranges from 24.8 mm to 108.4 mm per month. The highest rainfall occurs in late Summer and early Autumn.

2.10 Summary of Environmental Media

Environmental media are present as a result of both natural and anthropogenic processes. Each of the site media relevant to identification of potential source-pathway-receptor (SPR) linkages are presented **Table 2-2**.

Table 2-2 Relevant Environmental Media

Medium	Description
Soil / lithology	Fill – General Fill used to establish site levels; Fill – Backfill soils surrounding current site infrastructure and services; Fill – Grading soils used to establish site dams; Fill – Disturbed natural materials generated by tilling/ploughing and other agricultural works
	Silty-clay and clay of the Blacktown Residual and Luddenham Erosional Soil group
	Bringelly Shale and Ashfield Shale
Surface Water	As present within current agricultural dams
Sediment	As present within drainage lines Present at the base of current agricultural dams
Groundwater	Perched water table between lenses of higher and lower permeability, anticipated between natural clays and bedrock
	Deeper groundwater present within fractures, bedding lines and joints of bedrock
Ground Gas	Soil pores within unsaturated horizons and within the vadose zone.
Enclosed Space Air	Present throughout the site within current structures

[8] OEH (2020) *Sharing and Enabling Environmental Data (SEED)*. https://www.seed.nsw.gov.au accessed 19 May 2021

[9] BOM (2020) *Climate Statistics for Australian Locations – Monthly Climate Statistics – Bankstown Airport AWS*. Bureau of Meteorology generated 9 July 2020 accessed 14 July 2020. http://www.bom.gov.au/climate/averages/tables/cw_066137.shtml

3. Site History

3.1 General

An assessment of site history information is documented herein such that relevant details are able to be considered in development of the preliminary CSM presented in **Section 5**.

3.2 Anecdotal Evidence

Discussions held with the occupant of 884 to 902 Mamre Road indicated the following information relating to the site history:

- Electrical power and telecommunications services are fed overhead, mains potable water is provided by an underground service line leading in from Mamre Road;
- The market garden area of the property was used to cultivate traditional Chinese herbs and vegetables. The occupant was not aware of the use of pesticides during operation of the market garden;
- The dam at the rear of the property is an overflow dam which is fed by the dam upgradient of the property (Lot 28, **Figure 2**)

Discussions held with the occupant of 904 to 928 Mamre Road indicated the following information relating to the site history:

- Electrical power is fed overhead to the main dam pump house, then underground to site structures. Mains potable water is provided by an underground service line leading in from Mamre Road;

3.3 Historical Aerial Imagery

Historical aerial imagery as presented in the PSI was reviewed, with the images presented in **Appendix F**. Descriptions of the images are summarised in **Table 3-1**.

Table 3-1 Historical Aerial Imagery Observations

Date	Observations
1955	The site comprised a cleared, undeveloped parcel of land on the northeast side of Mamre Road. Internal pathways/earthen tracks were present on the site with very limited vegetation. A creek/ephemeral drainage line appeared to be intersect the northeast site corner, meandering toward the northwest. The surrounding site area was generally consistent with the site, comprising cleared rural residential / agricultural land. An additional drainage line/creek was present southeast of the site.
1965	The site layout appeared broadly similar to that observed in the previous aerial image (1955). Notable exceptions included a dam identified in the central portion of the site, which is noted to be present in the current day. The surrounding site area appeared to have undergone minor developments consistent with agricultural usage, including new dams and earthen roadways.
1975	The site layout appeared broadly similar to that observed in the previous aerial image (1965). Notable exceptions included the presence of the large dam identified in the central portion of the site, which is present in the current day. Additional earthen tracks were present within the site. The surrounding site area appeared to have undergone minor developments consistent with agricultural usage, including new dams and earthen roadways.
1986	The site contains large market gardens on both 884 to 902 and 904 to 928 Mamre Road. An additional dam was present in the northeast site corner, consistent with the current day layout. Several new buildings were observed within areas of the site which were observed to contain structures as described in **Section 2.2**. The surrounding site area appeared to have undergone more substantial developments consistent with agricultural usage, including new dams, earthen roadways and structures.

Date	Observations
1991	The site layout appeared broadly similar to that observed in the previous aerial image (1986). Substantial development of the surrounding properties had occurred since the previous image, comprising new market gardens, dams, buildings, etc. associated with agricultural uses. High density market gardens were present in all directions surrounding the site.
2002	The site and surrounding area appeared broadly similar to that observed in the previous aerial image (1991). Market garden usage on 902 to 928 Mamre Road appeared to have ceased, with no gardens observed.
2012	The site and surrounding area appeared broadly similar to that observed in the previous aerial image (2002). Additional structures were present within the site, in areas which were observed to contain structures as described in **Section 2.2**.
2021	The current site layout is described in **Section 2.2**.

3.4 Historical Title Records

Historical title records presented in the PSI (JBS&G 2020) have been abstracted and are presented herein. Historical title records are presented in **Appendix G**. A summary of site ownership is presented in **Table 3-2**.

Table 3-2 Summary of Historical Ownership Details

Date	Registered Proprietor	Reference to Title at Acquisition
Lots 52 & 53 in DP 259135		
21.09.1916 (1916 to 1934)	Henry Horton (Grazier) & his deceased estate	Pastoral/agricultural
28.06.1934 (1934 to 1945)	Greenfields Limited	Pastoral/agricultural
17.01.1945 (1945 to 1954)	Joseph Henry Bawn (Butcher) Richard Setten Stone (Butcher)	Pastoral/agricultural
16.02.1954 (1954 to 1968)	J.H. Bawn Pty Limited	Pastoral/agricultural
Lot 52 DP 259135		
25.01.1968 (1968 to 1980)	Number One Fleurs Pty Limited	Pastoral/agricultural
21.08.1980 1980 to 2004)	Marko Matanovic (Butcher) Milka Matanovic (Married Woman)	Agricultural/rural residential
16.03.2004 (2004 to 2020)	# Marko Matanovic (Butcher) # Milka Matanovic (Married Woman) # Ivan Matanovic	Agricultural/rural residential
15.09.2020 (2020 to date)	Altis Property Partners Pty Ltd	Commercial/industrial (proposed)
Lot 53 DP 259135		
25.01.1968 (1968 to 1980)	Number One Fleurs Pty Limited	Pastoral/agricultural
17.10.1980 (1980 to 2019)	# Percival Bartolo (Market Gardener) # Mary Bartolo (Married Woman)	Agricultural/rural residential
16.09.2019 (2019 to date)	Altis Property Partners Pty Ltd	Commercial/industrial (proposed)

3.5 Planning Certificates

A copy of the Section 10.7(2&5) Planning Certificates, issued under the *Environmental Planning and Assessment Act 1979* (the EP&A Act) have been obtained from Penrith City Council (Council). The certificates are provided as **Appendix H**. Relevant information is summarised following:

- The site is zoned IN1 General Industrial under the Penrith Local Environmental Plan (Council 2010);
- The land is subject to the Penrith Development Control Plan 2014;
- The land is subject to flood related development controls;
- The land is considered to be bush fire prone land; and

- The land is not affected by any other policy adopted by the council that restricts the development of the land because of the likelihood of land slip, bushfire, tidal inundation, subsidence, acid sulfate soils or any other risk (other than flooding).

The site is subject to the provisions of:

- *State Environmental Planning Policy No.55 - Remediation of Land*; and
- *Sydney Regional Environmental Plan No. 20 - Hawkesbury-Nepean River (No. 2 - 1997)*. gazetted 7 November 1997, as amended.

Council is not aware of a current site verification certificate in relation to the following issues, within the meaning of the *Contaminated Land Management Act 1997* (CLM Act):

- Whether the land is significantly contaminated;
- Whether the land is subject to a management order;
- Whether the land is the subject of an approved voluntary management proposal;
- Whether the land is subject to an ongoing maintenance order; or
- Whether the site is the subject of a site audit statement.

3.6 State Regulator (NSW EPA) Records Search

Public records maintained by the EPA were searched, with results summarised following. The search results are provided as **Appendix I**.

- No notices for the site or immediate surrounds were identified on the contaminated land public register of record of notices issued under Section 58 of the CLM Act;
- The site and nearby premises were not notified to the EPA under Section 60 of the CLM Act;
- No licences, applications or notices were identified for the site or nearby premises as maintained under Section 308 of the *Protection of the Environment Operations Act 1997* (POEO Act); and
- The site and nearby premises were not identified on the public per- and poly-fluoroalklyl substances (PFAS) register. A NSW Rural Fire Station located approximately 8.0 km south of the site. Details of the investigation were not provided on the website, though summary information indicated that all affected stakeholders had previously been contacted in relation to the investigation.

3.7 Dangerous Good Storage

A search of SafeWork NSW records of licensed dangerous/hazardous good storage was not undertaken in relation to this DSI. Given the former land uses and operational history of the site, it is considered unlikely that licensed storage of dangerous goods has occurred.

As discussed in **Section 2.2**, small scale storage of chemicals associated with operational works at the site was observed during the inspection. However, no indication of underground or above ground bulk hazardous good storage was identified.

3.8 Australian and State Heritage Registers

A search of the Australian and NSW Heritage database and the NSW Heritage database was undertaken, and results are included in **Appendix J**. No records of historical significance were identified within the site.

3.9 Summary of Site History

Historical aerial imagery and historical titles are noted to be in accordance and provide sufficient evidence that the site has been used as a rural residential and agricultural purposes over the period of available records.

No records of significant contamination or environmental pollution incidents within or nearby to the site are held within available public records.

4. Previous Site Investigations

4.1 Preliminary Site Investigation (JBS&G 2020)

JBS&G undertook a PSI at the site in 2020 to identify potential contamination at the site, with consideration of a proposed commercial/industrial land use. The PSI comprised a desktop review and site inspection. No intrusive works were undertaken as part of the PSI. The following information was reviewed:

- Environmental setting with reference to relevant published maps and other information, including topography, hydrology, soils, geology and hydrogeology and historical aerial photographs.
- A detailed site inspection to identify potential sources of contamination;
- Review of Section 10.7 planning certificates obtained from Council for two Lots;
- Review of current and historical land title records for two Lots;
- Records of environmental incidents or former environmental licences as held by the EPA; and
- Licensed groundwater bores present within a 500 m radius of the site.

JBS&G reported the following conclusions and recommendations based on the outcomes of the PSI:

- A majority of the site comprises land which has been generally utilised for agricultural purposes (market gardens);
- The use of fill materials was identified to accommodate the built form, as well as used for the construction of dam walls. Additionally, stockpiled soils were observed to the north of the storage sheds located within Lot 52;
- Anthropogenic materials (building, demolition and household waste) were present in quantities that were considered to potentially comprise an aesthetic concern under the proposed commercial/industrial land use scenario;
- Potential contamination risks to soils at the site were noted to be associated with septic systems, former small-scale burn areas, material/chemical storage areas connected with horticultural activities, and former/existing market and residential garden activities;
- Whilst the investigation identified the potential for soil impacts to be present at the site, the investigation did not identify the potential for gross or wide-spread contamination which may preclude future redevelopment of the site under the proposed commercial/industrial land use; and
- The potential AECs were considered representative of common contaminants and potentially contaminating land use activities which can be readily addressed during the DA stage for redevelopment and assessment for site suitability.

It was recommended that detailed site investigation be undertaken to support the development application/s to assess the suitability of the land for the intended land uses. It was recommended that Hazardous Building Material Surveys (HBMS) be undertaken prior to demolition of existing site structures.

5. Preliminary Conceptual Site Model

5.1 General

A preliminary CSM was developed to evaluate the potential for contamination to exist at the site, and for the contamination to present a risk to potential receptors. The preliminary CSM has been developed based on the environmental setting, site history and previous assessment works. The purpose of the preliminary CSM was to document the state of knowledge about the nature and extent of potential contamination and risks to receptors, where identified by review of the current use of the land, the site history, regional environmental setting, proposed development and previous investigations.

Following completion of the field investigation program, the preliminary CSM was refined as discussed in **Section 10**.

5.2 Essential Elements of Conceptual Site Model

The ASC NEPM states that a CSM should identify complete and potential pathways between known or potential source(s) and receptor(s), referred to herein as source-pathway-receptor (SPR) linkages. To identify SPR linkages, the following essential elements are required:

- Known and potential sources of contamination, including contaminants of concern, and the mechanism(s) of contamination;
- Potentially affected media;
- Human and ecological receptors; and
- Potential and complete exposure pathways.

5.3 Known and Potential Sources of Contamination

Potential sources of contamination exist at the site, resultant from its historical usage for residential and agricultural purposes. Potential sources of site contamination are identified as areas of environmental concern (AECs) on **Figure 3** and are documented in **Table 5-1**.

5.4 Potentially Affected Media

Environmental media present at the site have been documented in **Section 2.10**. By consideration of the mechanisms of contamination associated with known or potential contamination sources, soil, surface water and sediments at the sites are potentially affected media.

Potential media impacts, associated with specific AECs are documented in **Table 5-1**.

Table 5-1 Known and Potential Contamination Sources

AEC	Information Sources	Source, Mechanism, Media and Extent	Contaminants of Potential Concern (COPCs)	Impact Probability
AEC 1 – Former/current Structures	**Section 2.2** and **3.3**	**Source:** Current / former structures potentially containing hazardous building materials (lead paint, treated timber, ACM, etc.) **Mechanism:** Dilapidation and/or demolition of structures may have resulted in impacts to soils **Media**: Soil **Extent**: Anticipated extent is surface to shallow soils (<0.1 m) proximal to former/current structures	Heavy metals and asbestos	Low-Moderate
AEC 2 – Equipment storage and maintenance areas	**Section 2.2**	**Source:** Current / former storage and use of equipment and maintenance accessories (vehicle oils, fuels, lubricants, fuel additives, degreasing agents, waste oils, etc.), as well as farm chemicals (pesticides, herbicides and fertilizers) **Mechanism:** Top-down application and incidental spills during storage/maintenance **Media:** Soil **Extent**: Anticipated extent is surface to shallow soils (<0.5 m) proximal to former/current structures	Petroleum hydrocarbons, heavy metals, polycyclic aromatic hydrocarbons (PAHs), organochlorine pesticides (OCPs), organophosphorus pesticides (OPPs), herbicides, phenols, assorted volatile organic compounds (VOCs)	Low-Moderate
AEC 3 – Fill material of unknown character and origin	**Section 2.2**	**Source:** Fill material generated on, or offsite, with unknown constituents **Mechanism:** Direct application during site grading, cut/fill activities as have been undertaken to create site levels, dam walls, etc. **Media**: Fill-soil only **Extent**: Generally limited to depth and extent of fill	Heavy metals, petroleum hydrocarbons, PAHs, OCPs, OPPs, herbicides, polychlorinated biphenyls (PCBs), assorted VOCs and asbestos	Moderate
AEC 4 – Septic Tanks	**Section 2.2**	**Source:** Sewage waste stored within septic tanks present across the site **Mechanism:** Potential perforations / defects within the tanks, overflows during operation, etc. as may have caused sewage to be liberated **Media**: Proximal soil only **Extent**: Generally proximal to septic tanks (if present), given the limited permeability of natural site soils and anticipated volume of source material being small	Faecal bacteria and nutrients	Low
AEC 5 – Market Gardens	**Section 2.2** and **3**	**Source:** Agricultural chemical products used (herbicides, pesticides, fertilizers, etc.) **Mechanism:** Direct application during site usage, potential for generation of impacted runoff and accumulation within drainage lines / onsite water bodies **Media**: Proximal soil, sediments/surface water present within drainage lines and sediments/surface water within the large dam **Extent**: Likely limited (if present) to shallow soils within current/former market gardens, potentially more widespread	Heavy metals, OCPs, OPPs, herbicides and nutrients	Low-Moderate

AEC	Information Sources	Source, Mechanism, Media and Extent	Contaminants of Potential Concern (COPCs)	Impact Probability
AEC 6 – Burnt Ground	**Section 2.2**	**Source:** Incomplete combustion of wastes (plastics, household / farm chemical containers, building materials, etc.) **Mechanism:** Direct application during incineration. **Media**: Underlying soil **Extent**: Anticipated extent is surface to shallow soils (<0.1 m) within footprint of fires	Heavy metals, assorted semi-volatile organic compounds (SVOCs) and asbestos.	Low-Moderate
AEC 7 – Surface Anthropogenic Waste	**Section 2.2**	**Source:** Wastes (plastics, household / farm chemical containers, building materials, etc.) **Mechanism:** Direct application by placement **Media**: Underlying soil **Extent**: Anticipated extent is surface to shallow soils (<0.1 m) within footprint of impacted areas	Heavy metals and asbestos.	Low
AEC 8 – Surface Water Bodies	**Section 2.2** and **3**	**Source:** Impacted surface water runoff from AEC 1 to AEC 7 **Mechanism:** Migration from the broader property into surface water bodies by overland flow **Media**: Surface water and sediments **Extent**: The extent of the surface water bodies	**Surface Water:** Heavy metals, petroleum hydrocarbons, OCPs/OPPs, herbicides, PAHs, nutrients and physicochemical properties	Low-Moderate
AEC 9 – Drainage Lines	**Section 2.2** and **3**	**Source:** Various potential sources of impacted surface water runoff **Mechanism:** accumulation of impacts in drainage lines by surface water runoff and infiltration **Media**: Soil **Extent**: Shallow soils of the drainage lines	Heavy metals, petroleum hydrocarbons, PAHs, OCPs/OPPs, herbicides, nutrients and physicochemical properties	Low-Moderate

5.5 Receptors of Potential Contamination

Both human and ecological receptors of potential contamination have been identified. Each of the receptor populations have been documented below in the context of anticipated broad exposure scenarios under the proposed development. Receptors groups have been identified by consideration of the proposed landuse on the site, in addition to the current utilisation of the surrounding land.

Human receptor group are identified as:

- Adult commercial workers who access the site to conduct non-intrusive work;
- Adult commercial workers who access the site to conduct intrusive works (landscapers, gardeners, tradesmen, service technicians, etc.);
- Adult commercial workers who occupy areas adjacent to the site to conduct both non-intrusive and intrusive works; and
- Adults and children who occupy areas adjacent to the site for general recreational or other non-intrusive purposes.

The ASC NEPM provides a framework of assessment which establishes threshold assessment values, based on achieving designated levels of species protection. Generic ecological receptor groups are identified as follows:

- Primary Consumers: Microorganisms, soil invertebrates and other ecological process supporting biota;
- Primary Consumers: Native and introduced flora; and
- Secondary and Tertiary Consumers: Native and introduced fauna.

Under the proposed development scenario, limited opportunity exists for the establishment of flora or fauna of ecological significance at the site.

Site contamination may migrate from the site via surface water and groundwater to the receiving environment of Kemps Creek. Potential receptors present within the Kemps Creek comprise freshwater species: micro-organisms, invertebrates, plants and vertebrate species. In addition to terrestrial predators who forage and live within the receiving environment.

5.6 Exposure Pathways

5.6.1 Human Receptor Exposure Pathways

Exposure pathways have been defined for environmental media which represent a reasonable potential for exposure under typical site operational conditions. Exposure pathways for each of the relevant environmental media are documented in **Table 5-2**.

Table 5-2 Human Exposure Pathways

Medium	Oral Ingestion	Dermal Contact	Vapour Inhalation	Dust Inhalation
Onsite Exposure Pathways				
Soil	**Incidental**	**Incidental**	**Incidental**	**Incidental**
Surface Water	**Incidental / Intentional**	**Incidental / Intentional**	**Incidental**	Not a viable pathway
Sediments	**Incidental**	**Incidental**	Implausible	**Incidental**
Groundwater	**Incidental / Intentional**	**Incidental / Intentional**	**Incidental**	Not a viable pathway
Vapour	Not a viable pathway	Not a viable pathway	**Incidental**	Not a viable pathway
Enclosed Air Space	Not a viable pathway	Not a viable pathway	**Incidental**	Not a viable pathway
Offsite Exposure Pathways				
Soil	Implausible	Implausible	**Incidental**	**Incidental**
Surface Water	**Incidental / Intentional**	**Incidental / Intentional**	**Incidental**	**Incidental**
Sediments	Implausible	Implausible	Implausible	**Incidental**
Groundwater	**Incidental / Intentional**	**Incidental / Intentional**	**Incidental**	Not a viable pathway
Vapour	Implausible	Implausible	**Incidental**	Not a viable pathway
Enclosed Air Space	Implausible	Implausible	**Incidental**	Not a viable pathway

5.6.2 Ecological Receptor Exposure Pathways

Exposure pathways have been defined for environmental media which represent a reasonable potential for exposure under typical site operational conditions. Exposure pathways for each of the relevant environmental media are documented in **Table 5-3**.

Table 5-3 Ecological Exposure Pathways

Medium	Primary Consumers	Secondary and Tertiary Consumers
Onsite Exposure Pathways		
Soil	**Ingestion / Passive Absorption (<2 m)**	**Ingestion / Passive Absorption (<2 m)**
Surface Water	**Ingestion / Passive Absorption**	**Ingestion / Passive Absorption**
Sediment	**Ingestion / Passive Absorption (<2 m)**	**Ingestion / Passive Absorption (<2 m)**
Groundwater	Not a viable pathway	Not a viable pathway
Biota	Not a viable pathway	**Ingestion of Impacted Biota**
Offsite Exposure Pathways		
Soil	Implausible	Not a viable pathway
Surface Water (Kemps Creek)	**Ingestion / Passive Absorption**	**Ingestion / Passive Absorption**
Sediment	Implausible	Not a viable pathway
Groundwater	**Ingestion / Passive Absorption in Receiving Water Body**	**Ingestion / Passive Absorption in Receiving Water Body**
Biota	Not a viable pathway	**Ingestion of Impacted Biota**

5.7 Potentially Complete Source-Pathway-Receptor Linkages

The final site development layout is not known. As such, all potential sources of contamination at the site are considered, if confirmed to contain environmental contaminants at elevated concentrations, to be part of a potentially complete SPR Linkage.

6. Sampling Program and Methodology

6.1 Data Quality Objectives

The ASC NEPM describes the DQO process as a seven-step iterative planning approach which is used to determine the type, quantity, and quality of data required to inform decisions relating to the environmental condition of a site. The seven steps of the DQO process are documented in **Table 6-1**.

Table 6-1 Data Quality Objectives

Item	Details
Step 1 – State the Problem	
Objective of the study	The objective of the study has been defined in **Section 1.2.**
State the problem	Based on the understanding of the site history, environmental setting and current environmental management practices occurring at the site, potential for contamination has been identified. Potential contamination risks require to be characterised to achieve the objective stated in **Section 1.2**. To achieve this, environmental data are required to be obtained for parameters relevant to the concentration and distribution of contaminants of potential concern (COPCs). In addition, appropriate assessment thresholds must be adopted to characterisation of contamination risks.
Constraints	Budget; project timelines; field resource availability; site access constraints; viable field and laboratory methodologies;
Regulatory stakeholders	NSW EPA; Council; Development Consent Authority;
Other stakeholders	Client; Neighbouring property owners and occupants; Local community; Downgradient contamination receptors; Future land-owners and occupiers
Step 2 – Identify the Decisions/Goal of the Study	
Goal of the study	The goal of the study was to evaluate whether the site is suitable for the proposed commercial/industrial land use. Study questions have been developed by review of the ASC NEPM, EPA (2017[10]) and EPA (2015[11]).
Study question 1	Is contamination present in site media which may represent a potentially unacceptable risk to site users if not subjected to remediation and/or management?
Study question 2	Is there any evidence of background contamination of site media?
Study question 3	Where contaminant mixtures have been identified in site media, are there any potential issues resulting from synergistic or additive effects to cause potentially unacceptable risks to future site users?
Study question 4	Is there any evidence of, or potential for, migration of contaminants from the site which would cause potential risks to current and/or future offsite receptors?
Study question 5	Is a site management strategy required to address any site contamination issues?
Step 3 – Identify Information Inputs	
Desktop information	Desktop studies have been undertaken as presented in **Section 2** to **Section 4.**
Previous investigations	As detailed in **Section 4.**
Site observations	Site observations made as documented in historical investigations (**Section 4**) and recent site inspections (**Section 2.2**)
Preliminary CSM	**Section 5**
Data generated by this investigation	**Observations**: • **Anthropogenic Materials**: types, extents, condition, presence in/on other site media;

[10] *Contaminated Land Management: Guidelines for the NSW Site Auditor Scheme (3rd Edition).* NSW Environmental Protection Authority, November 2017

[11] Guidelines on the Duty to Report Contamination under the Contaminated Land Management Act 1997. NSW Environmental Protection Authority, September 2015.

Item	Details
	• **Soil and Sediment:** types, depths, quantities, field screening for VOC generation, inclusions and other readily identifiable characteristics; and • **Surface Water:** Extents, colour, turbidity, sheens, odours, inclusions (algal, biota, etc.) and field screening of physicochemical conditions. **Laboratory Analytical Data**: for concentrations of relevant parameters (contaminant concentrations, physicochemical conditions, etc.) **Geospatial Data**: Layout of site features and sample point coordinates.
Decision Thresholds	Screening and/or assessment levels adopted from endorsed regulatory guidance documents (**Section 7**)
Step 4 – Identify the Study Boundaries	
Geographical Extent	The lateral boundary of the investigation site is shown on **Figure 1** and **Figure 5.**
Time and Budget Constraints	Investigation works have been completed in accordance with contractual arrangements between the client and JBS&G.
Temporal Boundaries	The investigation was conducted between May and June of 2021. Assessments are limited in temporal extent to the specified dates/times of sampling.
Scale of Decisions	Decision scale ranges from sub-sets of site media (e.g. fill profiles) to determination of site suitability.
Step 5 – Develop the Analytical Approach	
Preliminary (iterative check point)	Following acquisition of data generated by the investigation works. *Have any of the assumptions or conditions established in Step 1 to Step 4 changed since preparation of the SAQP?* A qualitative review of assumptions and conditions was undertaken. If no assumptions or conditions were substantially and consequentially altered (as determined on the basis of professional judgement) then the answer to the decision was No, and the assessor proceeded to Decision Analysis. If assumptions or conditions were substantially and consequentially altered (for example the identification of gross/widespread contamination during sampling) then the answer to the decision was Yes. If Yes, a review of the appropriateness Step 1 to Step 4 to provide data of sufficient type, quantity and quality was undertaken. Where data generated were partially or wholly able to be used to answer decisions, the assessor proceeded to Decision Analysis. Where newly identified conditions indicate that the data generated may be insufficient to conduct the Decision Analysis, the assessor recommenced planning with relevant stakeholders.
Study question 1A	*Is contamination present in site soils which represents a potentially unacceptable risk to site users?* For potentially contaminated soils identified in the CSM, soil analytical results for relevant compounds were compared to ecological and human health assessment thresholds. Where COPC concentrations exceeded the adopted assessment criteria, data analysis was undertaken to identify distinct soil populations. **For distinct soil populations with <4 analytical sample results:** If all concentrations were less than the adopted assessment thresholds, then the answer to the study question was No. Otherwise the answer was Yes. **For distinct soil populations with 10 or more analytical sample results:** The population was statistically analysed to determine the maximum, standard deviation and 95 % Upper Confidence Limit (UCL) of the mean concentration. For all populations, if: • The maximum concentration was less than 250 % of the assessment threshold; • The standard deviation was less than 50 % of the assessment threshold; and • The 95 % UCL of the mean concentration was less than the assessment threshold. Then the answer to the study question was No. Otherwise, the answer was Yes.
Study question 1B	*Is contamination present in site surface water which represents a potentially unacceptable risk to site users?* If all concentrations were less than the adopted assessment thresholds, then the answer to the study question was No. Otherwise, the answer was Yes.

Item	Details
Study question 1C	*Is contamination present in site sediment which represents a potentially unacceptable risk to site users?* Sediment samples were separated into sub-groups based on the location of collection (e.g. Dam 1, Dam 2, Dam 3, Drainage line 1, etc.) Analytical results for relevant compounds were compared to human health and ecological thresholds. Where COPC concentrations exceeded the adopted assessment criteria, data analysis was undertaken as described in Study Question 1A for soil.
Study question 2	*Is there any evidence of background contamination of site media (soils, groundwater or ground gas)* If all concentrations are less than the adopted assessment thresholds, then the answer to the study question was No. Otherwise, if concentrations of COPCs were above site investigation criteria which were able to be attributed to the actions of natural environmental processes (on or offsite) or anthropogenic actions which have occurred offsite, then the answer to the answer to the study question was Yes.
Study question 3	*Where contaminants have been identified in site media, are there any potential issues resulting from synergistic or additive effects to cause potentially unacceptable risks to future site users?* If no contaminants are positively identified within site media within a factor of 10 from the site assessment thresholds, the answer to the study question was No. Where contaminants are positively identified in site media at concentrations within a factor of 10 from the assessment thresholds, a review of the toxicological end points was undertaken. Where similar toxicological end points are identified for compounds, the answer to the study question was Yes. Otherwise, the answer to the study question was No.
Study question 4	*Is there any evidence of, or potential for, migration of contaminants site derived contaminants from the site which would cause potential risks to current and/or future offsite receptors?* Migration of contaminants is relevant only to mobile media impacts: **Soil Dust Generation** Where stockpiled or surface soils are identified to contain COPCs exceeding assessment threshold levels for solid phase contaminants (e.g. heavy metals, asbestos, etc.), and the quantity, condition, coverage and extent of impacted soils is such that substantial dust generation may occur the answer to the study question was Yes. Otherwise, the answer to the study question was No. **Surface Water Migration** Where surface water present within/generated at the site is identified to be impacted by COPCs at levels exceeding assessment thresholds, and surface waters are being, or expected to be, discharged from the site via surface or stormwater flows, the answer to the study question was Yes. Otherwise, the answer to the study question was No. **Groundwater Migration** Based on the site preliminary CSM, the potential for groundwater contamination is considered low and, in *lieu* of indicators of gross groundwater contamination (e.g. high concentrations of soluble contaminants in site media), the answer to the study question was No. **Soil Vapour Migration** Based on the site preliminary CSM, the potential for soil-vapour contamination is considered low and, in *lieu* of indicators of gross soil-vapour contamination (e.g. high concentrations of volatile contaminants in site media), the answer to the study question was No.
Study question 5	*Is a site management strategy required to address any site contamination issues?* If any of the preceding study questions were answered 'Yes', the answer to the study question was Yes. Otherwise, the answer to the study question was No.
Step 6 – Specify the Performance or Acceptance Criteria	
Null and alternate hypothesis	**Null Hypothesis**: The site is not contaminated. **Alternative Hypothesis:** The site is contaminated.
Types of decision errors	Two types of decision errors have been identified: • Type I Error: Deciding the site is not contaminated when it is (i.e. incorrectly rejecting the null hypothesis); and • Type II Error: Deciding the site is contaminated when it is not (i.e. incorrectly rejecting the alternative hypothesis).

Item	Details
Statistical Data Analysis	Laboratory analytical data was subjected to statistical data analysis. Following receipt of laboratory analytical data, data analysis was undertaken in two stages: 1) **Preliminary Data Analysis:** Calculation and presentation of summary statistics for the parameters of interest within analytical result summary tables (**Appendix A**). Summary statistics identified the number of samples in exceedance of assessment thresholds (if any); and 2) **Detailed Data Analysis**: was undertaken for datasets which included exceedances of the assessment thresholds. Detailed was undertaken as follows: a. Definition of media sub-groups (e.g. impacted fill profile); b. Generation of a 'media sub-group' dataset; c. Where less than four distinct analytical results were available, no statistical assessment was undertaken; d. Where four or more distinct analytical results were available, the 95 % UCL, standard deviation and maximum concentrations of COPCs within relevant sub-group were calculated. ProUCL 5.1 was used to conduct goodness of fit tests and map datasets to a general data distribution. Non-detect values were replaced using imputed statistics, where present.
Limits on decision errors	Analysis of decision error was undertaken based on professional judgement. Where data were limited, consideration was given to expanding the investigation (e.g. additional test pits, delineation of test pit depth, additional analytical results, etc.)
Data quality assurance and control	Data quality assurance and quality control (QA/QC) was assessed against pre-determined data quality indicators (DQIs). DQI development is presented in **Appendix K.**
Step 7 – Optimise the Design for Obtaining Data	
Data acquisition	The program for collection of environmental data is presented in **Section 6.2.**

6.2 Optimise the Design for Obtaining Data

6.2.1 Data Collection Rationale

A preliminary CSM was developed for the site, based on an understanding of the site history, environmental setting, site inspection and historical investigations. The preliminary CSM identified nine AECs which require to be investigated by collection of environmental data.

EPA (1995[12]) recommends that, for site characterisation, either systematic or judgemental sampling patterns are adopted. Given that reasonable knowledge regarding the location and extent of potential site impacts was known prior to commencement of intrusive investigations, the site was stratified into areas presenting distinct potential for contamination and a combination of judgmental and systematic sampling patterns was adopted to make most efficient use of project resources. This is known as a stratified sampling approach.

EPA (1995) provides recommended minimum sampling densities for the detection of circular hotspots. The minimum sampling densities are not recommended for adoption where areas of greater than 5 ha are being assessed, or where the assessor has good knowledge of the layout of potential contamination sources.

[12] EPA (1995) *Contaminated Sites – Sampling Design Guidelines*. NSW Environment Protection Authority, 59-61 Goulburn Street, Sydney South dated September 1995.

Each of the stratified areas are shown on **Figure 4**, and the sampling density/rational is presented in **Table 6-2**.

Table 6-2 Sampling Density

Zone	AECs	Lateral Area	Number of Sample Points	Rationale
1	1, 2, 4, 6, 7 and 9	884 to 902: 0.7 ha 902 to 928: 1.3 ha	15 30	EPA (1995) Table A: Elevated potential exists for the presence of 'hotspots' defined as localised contamination conditions (e.g. oil/fuel spills, fill burial, etc.)
2	3 and 5	884 to 902: 5.0 ha 902 to 928: 2.0 ha	31 19	0.5 x EPA (1995) Table A Limited potential exists for 'hotspots'. Sufficient sampling density is required to characterise AEC 3 and 5 and to provide data representative of the AECs.
3	8	884 to 902: 4.4 ha 902 to 928: 6.9 ha Dam 1: 3.0 ha Dam 2: 0.4 ha Dam 3: 800 m^2	44 (soil) 3 (water) 2 (water) 1 (water)	Adoption of a 50 m grid to provide data representative of the AEC. This provides 95 % confidence to detect circular hotspots of approximately 30 m.

The sampling pattern was biased towards areas of potential impact to provide 'worse case' environmental data. This is consistent with the objective of the investigation to establish the environmental condition of the site to evaluate the potential presence of consequential contamination.

Judgemental locations, as well as systematic locations which coincide with potential sources, have been listed against the sources for which they were intended to provide data as summarised in **Table 6-3.**

Table 6-3 Summary of Targeted *in-situ* Data Collection Rationale

AEC	Potential Media Impact			Investigation Locations		
				Soil	Surface Water	Sediment
AEC 1	Soil ☑	Surface Water ☒	Sediment ☒	S001-S004, S008-S010, S011-S012, S015, S016, S020-S024, S026-S041	-	-
AEC 2	Soil ☑	Surface Water ☒	Sediment ☒	S001-S004, S009, S015, S016, S030-S034,	-	-
AEC 3	Soil ☑	Surface Water ☒	Sediment ☒	S021, S088, S089, S093, S103, S018, SD111, S116-S121	-	-
AEC 4	Soil ☑	Surface Water ☒	Sediment ☒	-	-	-
AEC 5	Soil ☑	Surface Water ☑	Sediment ☑	S051-S053, S059-S064, S071-S076, S081-S087, S090-S092, S096-S101, S104-S107, S112-S115	-	-
AEC 6	Soil ☑	Surface Water ☒	Sediment ☒	S135, S136	-	-
AEC 7	Soil ☑	Surface Water ☒	Sediment ☒	S020, S030, S031	-	-
AEC 8	Soil ☑	Surface Water ☑	Sediment ☑	-	SW01-SW05	SW01-SW05
AEC 9	Soil ☑	Surface Water ☒	Sediment ☒	S127-S130	-	-

6.2.2 Soil Investigation Methodology

Prior to intrusive works commencing at the site, the following was undertaken:

- Development of site-specific Safe Work Method Statements (SWMS) and Job Risk Assessments (JRAs) for site work;
- Completion of a Dial Before You Dig (DBYD) search; and
- Clearance of sample locations via a professionally licensed service locator.

Intrusive investigation works comprised the advancement of soil investigation locations by backhoe. The methodologies for each of these works are discussed following.

Test Pit Advancement and Soil Sampling

Following service location, a backhoe was used to excavate soil test pits, fitted with a 400 mm bucket. The backhoe progressively excavated layers of soil in approximately 300 mm depth intervals, placing excavated soils adjacent to the test pit to facilitate inspection of bulk quantities of soil.

Soil samples were obtained by gloved hand directly from the backhoe bucket prior to placement next to the test pit. A fresh pair of disposable nitrile gloves was worn for each sample collected. Samples was collected at the surface (0-0.1 m), 0.2-0.3 m bgl, 0.5 m bgl then approximately 0.5 m intervals until the target depth of investigation was achieved. Disturbance of the soil samples was minimised where possible to reduce the potential release of volatile organic contaminants.

During the collection of soil samples, the presence of discolouration, staining, odours, potential ACM and other indicators of contamination was noted on borehole logs. Where potential ACM was identified, asbestos quantification was undertaken on the subject soil in accordance with WA DOH (2009[13]).

Collected soil samples were immediately transferred to laboratory supplied sample jars and zip-lock bags. The sample containers were labelled, sealed and transferred to a chilled esky for sample preservation prior to and during shipment. A chain-of-custody form was completed and forwarded with the samples to the testing laboratory.

Not all soil samples collected were analysed.

Decontamination

Prior to the commencement of sampling activities, non-disposable sampling equipment was cleaned with a high-pressure water/detergent spray, then rinsed with potable water. The equipment was inspected to ensure that no soil, oil, debris or other contaminants were present prior to the commencement of drilling at each new location. Records of decontamination are provided in **Appendix M**. A rinsate sample was collected during the sampling event to demonstrate the effectiveness of decontamination procedures prior to and during sampling activities.

Duplicate Sample Preparation

Field soil duplicate samples were obtained during the sampling event using the above sampling methods. The collected samples were split into three samples with minimal disturbance, to reduce the potential for loss of volatiles and placed in two clean glass jars and sample bags as appropriate. Each sample was then labelled with a primary or duplicate sample identification before being placed in the same chilled esky for laboratory transport. Sufficient duplicate samples were prepared in the field to submit for intra- and inter-laboratory analysis.

6.2.3 Surface Water and Sediment Investigation Methodology

Accessible portions of the dams were identified during inspection, and representative samples collected from accessible locations. Prior to disturbance of the water column, a water quality meter (WQM) was lowered to halfway through the water column. The WQM was fitted with probes which provided a field measurement of physico-chemical parameters: electrical conductivity (EC), pH, reduction-oxidation potential (Redox), dissolved oxygen and temperature.

Following parameter collection and documentation, surface water grab samples were collected from the shore using a long-reach telescopic grab sampler. The grab sampler was fitted with a fresh, disposable (non-preserved) container which was used to collect bulk water samples. The water samples were then transferred to appropriately preserved containers.

[13] WA DOH (2009) *Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia*. Western Australia - Department of Health dated May 2009

Following collection of the water sample, a sample of sediments was obtained from the same location. The sediment sample was collected using hand tools, and immediately transferred to unpreserved glass jars.

The sample containers were labelled, sealed and transferred to a chilled esky for sample preservation prior to and during shipment. A chain-of-custody form was completed and forwarded with the samples to the testing laboratory.

6.2.4 Laboratory Analysis of Samples

JBS&G engaged Eurofins Environment Testing (Eurofins, the primary laboratory) and Envirolab Services Pty Ltd (Envirolab, the secondary laboratory) to undertake analysis of environmental media. The analytical laboratories were National Association of Testing Authorities (NATA) accredited for the analytical methods undertaken.

A summary of the analytical schedule for primary and quality assurance/quality control (QA/QC) samples is presented in **Appendix A**.

7. Assessment Criteria

7.1 Regulatory Guidelines

The investigation was undertaken with consideration to relevant aspects of the following NSW EPA made or endorsed guidelines:

- *National Environment Protection (Assessment of Site Contamination) Amendment Measure 2013 (No. 1)*, National Environment Protection Council, ASC NEPM (2013);
- *Contaminated Sites: Sampling Design Guidelines*, EPA (1995);
- *Contaminated Land Management: Guidelines for the NSW Site Auditor Scheme (3rd Edition).'* NSW Environmental Protection Authority, November 2017, EPA (2017);
- *Contaminated Sites: Guidelines on Duty to Report Contamination under the Contaminated Land Management Act 1997*, NSW DECC, June 2009; and
- *Consultants reporting on contaminated Land, Contaminated Land Guidelines*, NSW EPA, EPA 2020P2233, April 2020, updated 5 May 2020.

7.2 Human Health Assessment Criteria

7.2.1 Soil and Sediment

To assess the risks posed to current and future site receptors, the analytical data acquired during the current assessment was compared against criteria appropriate for the assessment of potential risks to human and ecological receptors based on the current site layout and the neighbouring properties (commercial/industrial land use). The criteria adopted are presented following:

- ASC NEPM Schedule B1 Table 7 'Health Screening Levels for Asbestos Contamination in Soil' (HSLs);
- ASC NEPM Schedule B2 Table 1A(1) 'Health Investigation Levels for Soil Contaminants' (HILs);
- ASC NEPM Schedule B2 Table 1A(3) 'Soil Health Screening Levels for Vapour Intrusion'; and
- ASC NEPM Schedule B2 Table 1A(5) 'Soil Vapour Health Screening Levels for Vapour Intrusion'.

7.2.2 Surface Water

Potential human to surface water exposure risks are limited to the following:

- Extraction of surface water for beneficial reuse (drinking water, irrigation, etc.); and
- Primary and secondary contact recreation within the receiving water body.

Potential beneficial reuse of groundwater was assessed by consideration of 'worst case' exposure scenarios:

- NHMRC (2018[14]) drinking water guidelines based on health and aesthetic considerations;
- NHMRC (2008) *Guidelines for Managing Risks in Recreational Water*. National Health and Medical Research Council, NHMRC (2008) – to assess groundwater quality against potential primary and secondary contact recreation at the receiving water body. This criteria set is also protective of potential extraction of groundwater for non-recreational or drinking water uses (e.g. construction dewatering) where incidental exposure to groundwater may occur.

[14] NHMRC (2018) *National Water Quality Management Strategy - Australian Drinking Water Guidelines 6 (2011) Version 3.5*. National Health and Medical Research Council dated August 2018

No nationally endorsed criteria exist for the assessment of potential human health impacts due to direct contact (ingestion/dermal contact) between petroleum hydrocarbons in water. Reference has been made to WHO (2008[15]) which provides a criterion of 0.09 mg/L for drinking water. It is noted that this criterion is marginally below the detection limit of the analytical techniques adopted, as such, any detection will comprise an exceedance of this criterion.

The assessment criteria are presented within analytical result summary tables (**Appendix A**).

7.3 Ecological Protection Criteria

7.3.1 Soil

To assess the risks posed to potential current and future ecological receptors, the analytical data acquired during this assessment were compared against criteria appropriate for the assessment of potential risks to ecological receptors based on commercial/industrial land use. Each of the criteria adopted are presented following:

- ASC NEPM Schedule B2 Table 1B(1) 'Soil-specific added contaminant limits for aged zinc in soil' (ACL);
- ASC NEPM Schedule B2 Table 1B(2) 'Soil-specific added contaminant limits for aged copper in soil' (ACL);
- ASC NEPM Schedule B2 Table 1B(3) 'Soil-specific added contaminant limits for aged chromium III and nickel in soil' (ACL);
- ASC NEPM Schedule B2 Table 1B(4) 'Generic added contaminant limits for lead in soils irrespective of their physicochemical properties' (ACL);
- ASC NEPM Schedule B2 Table 1B(5) 'Generic EILs for aged As, fresh DDT and fresh naphthalene in soils irrespective of their physicochemical properties' (EIL); and
- ASC NEPM Schedule B2 Table 1B(6) 'Ecological Screening Levels for Total Petroleum Hydrocarbon Fractions F1-F4 and BTEX in Soil' (ESLs). An alternate criterion to that provided in NEPC (2013) has been adopted for benzo(a)pyrene as discussed below.

Site specific EILs were calculated using the NEPC EIL Calculator[16]. Site-specific values for CEC (17 mg/kg) and pH (7.0 pH) were derived from the laboratory analysis of three representative soil samples (**Table 7-1**). Due to the predominate lithology of the site consisting silty clay a Clay % of 18 was adopted. Representative sample laboratory analysis used in the derivation of EILs is presented in **Table 7-1** and Site Specific EILs shown in **Table 7-2**.

Table 7-1: Physical Parameters used for Derivations of EILs

Physical Parameters		
Sample	**CEC (meq/100g)**	**pH (pH units)**
S003 0.0-0.1	16	8.5
S003 0.4-0.5	17	5.9
S092 0.3-0.4	19	6.5
Average	17	7.0

[15] WHO (2008) *Petroleum Products in Drinking-water- Background document for development of WHO Guidelines for Drinking-water Quality*. World Health Organisation dated May 2008.

[16] *Ecological Investigation Level Calculation Spreadsheet.* Developed by CSIRO for the National Environment Protection Council, 2010.

Table 7-2: Adopted Generic and Site Specific EILs

Adopted EILs		
Analyte	**NEPM 2013 - Generic Commercial/Industrial EILs (mg/kg)**	**Site Specific EILs (mg/kg)**
Arsenic	160	-
Chromium (III)	-	780
Copper	-	320
DDT	640	-
Lead	1800	-
Naphthalene	370	-
Nickel	-	430
Zinc	-	970

CRC CARE (2017[17]) provides alternative ESLs for B(a)P than those provided in the ASC NEPM. The alternative ESLs are based on higher reliability, species sensitivity distribution data than was used to calculate the ESLs provided in ASC NEPM. CRC CARE (2017) provides an alternative ESLs for B(a)P for commercial and industrial landuse of 172 mg/kg. It is noted that upon review of CRC CARE (2017) by NSW Office of Environment and Heritage, Environment Protection Science Branch, adjusted ESLs were derived providing a value of 67 mg/kg for B(a)P, which has been adopted as the B(a)P ecological screening level for assessment purposes.

The assessment criteria are presented within analytical result summary tables (**Appendix A**).

7.3.2 Surface Water

Potential ecological exposures to site surface water are limited to the dams present within the site and potentially within Kemps Creek, the downgradient ecological receiving body.

Potential exposure of ecological species to impacted site surface water has been assessed by comparison of site contaminant concentrations to *Australian and New Zealand Guidelines for Fresh and Marine Water Quality*. Australian and New Zealand and Australian State and Territory Governments (ANZG, August 2018)– for the assessment of freshwater species, with a nominally adopted 95 % species protection requirement.

No nationally endorsed criteria exist for the assessment of potential ecological impacts by the presence of petroleum hydrocarbons in water. Various low-reliability ranges are provided by ANZG (2018) based on petroleum hydrocarbon sources (diesel, bunker fuels, crude oil, etc.). The ranges provided are highly sensitive to the petroleum source and not readily applied to mixed hydrocarbon sources. Where hydrocarbons are detected above the laboratory LOR, which are unable to be attributed to individual compounds by review of VOC/SVOC analyses, this was considered a trigger for further consideration and/or management.

The assessment criteria are presented within analytical result summary tables (**Appendix A**).

7.4 Total Recoverable Hydrocarbons Management Limits

In addition to appropriate consideration and application of the HSLs and ESLs, there are a number of policy considerations which reflect the nature and properties of petroleum hydrocarbons, including:

- Formation of observable LNAPL;
- Fire and explosive hazards; and
- Effects on buried infrastructure e.g. penetration of, or damage to, in-ground services by hydrocarbons.

[17] *Technical Report No. 39 Risk-based management and remediation guidance for benzo(a)pyrene*, CRC for Contamination Assessment and Remediation of the Environment, 2017 (CRC CARE 2017)

The ASC NEPM (2013) includes 'management limits' to avoid or minimise these potential effects and these values have been adopted as screening criteria. TRH results have been screened against the ASC NEPM (2013) commercial and industrial Management Limits for TRH fractions (F1 - C_6-C_9; F2 - >C_{10}-C_{16}; F3 - >C_{16}-C_{34}; F4 - >C_{34}-C_{40}). The criteria for "coarse" soil texture have been adopted. It is noted that the primary soil texture at the site is "fine", however adoption of coarse soil for comparison provides a conservative screen.

8. Data Quality Assessment

Data generated by review of historical assessment reports and by completion of the current investigation program have been assessed against DQIs as presented in **Appendix K**. The detailed assessment is provided in **Appendix L**.

In summary, whilst individual instances of data outside of the optimal DQI acceptance criteria have been identified, the data are considered to be both sufficient and valid to be relied upon for the intended purpose. [to be confirmed].

9. Results

9.1 Soil

9.1.1 Observations and Screening

Observations made during advancement of soil test pits are presented in detail in soil bore-logs provided as **Appendix M**. Soil and sediment observations have been summarised in **Table 9-1**, as relevant to distinct material types encountered. It is noted that, following investigation, not all AECs identified in **Table 5-1** presented soil conditions which were distinct from the broader site and, as such, they have not been detailed in **Table 9-1**.

Fill material, comprising reworked natural soils, was encountered within the walls of the dams and at each of the locations advanced into market gardens. The fill material is described in **Table 9-1**, and was notably absent indicators of potential contamination (e.g. ACM, liquid containers, etc.). The balance of locations were not identified to be underlain by fill material, with the exception of distinct material types identified in **Table 9-1**.

Natural material was encountered at the majority of investigation locations, and was observed to comprise natural silty clays.

Indicators of gross and/or widespread contamination were not observed at any of the soil investigation locations.

Table 9-1 Soil and Sediment Observations Summary

Material Type	AEC	Sample Locations	Observation Summary
Ground underneath shed	2	S009	Fill / Reworked natural material – Silty CLAY; brown; heterogeneous; damp; firm; medium plasticity; with inclusions of roots
Dam Wall Fill	3	S088, S089, S093, S103, S108, S111, S116, S117, S118, S119, S120, S121	Fill / Reworked natural material – Silty CLAY; brown, orange and grey; heterogeneous; damp; soft to firm; medium plasticity; with inclusions of roots and shale gravels
Market Gardens	5	S051-S053, S059-S064, S071-S076, S081-S087, S090-S092, S096-S101, S104-S107, S112-S115	Reworked natural material – Silty CLAY; brown; heterogeneous; medium plasticity; damp; with inclusions of roots and trace anthropogenic materials (tiles) Natural material – CLAY; brown, yellow and orange; mottled; high plasticity; firm; damp; trace roots.
Burnt Waste / Ash	6	S135 and S136	Fill – Silty ASH; black; heterogeneous; dry; loose; with inclusions of small wood
Base of Dam	8	S044, S079, S094, S109	Sandy CLAY; brown; homogeneous; saturated; high plasticity; soft; no inclusions
Drainage Lines	9	S127, S128, S129, S130	Alluvium – Sandy CLAY; light brown; heterogeneous; damp; moderate plasticity; soft; inclusions of natural ironstone gravels

9.1.2 Analytical Results

Soil analytical results summary tables are provided in **Appendix A** (**Table A1** and **A2**). All samples returned results below either laboratory limit of reporting (LOR) or site adopted criteria.

9.2 Leachate Results

Toxicity characteristic leaching procedure (TCLP) was undertaken on selected samples as presented in **Table A3**. All samples returned non/low leachable results.

9.3 Surface Water

9.3.1 Observations and Field Measurements

Observations of surface water quality made during sampling conducted at the site are presented in **Tables 9-3** and **9-4**.

Table 9-3 Surface Water Field Physiochemical Parameters

Sample ID	Dissolved Oxygen (mgL/ppm)	Electrical Conductivity (µS/cm)	pH (Units)	Oxidation Reduction Potential (mV)	Temperature (°C)
SW01	6.74	309.7	8.33	99.9	18.7
SW02	5.71	347.1	7.73	70.5	19.4
SW03	6.91	371.2	7.61	208.2	18.8
SW04	3.40	356.5	7.22	180.8	19.1
SW05	6.47	710.0	7.36	140.6	18.4

Table 9-4 Surface Water Field Physiochemical Parameters

Sample ID	Odour	Sheen	Turbidity	Colour
SW01	Odourless	No Sheen	Slightly turbid	Light brown
SW02	Odourless	No Sheen	Clear	Colourless
SW03	Odourless	No Sheen	Clear	Colourless
SW04	Odourless	No Sheen	Clear	Colourless
SW05	Odourless	No Sheen	Clear	Colourless

A summary of key observations is provided following:

- pH ranged from 7.22 to 8.33, indicating neutral to slightly acidic surface water conditions;
- Electrical conductivity (EC) ranged from 309.7 µS/cm to 710.0 µS/cm, characterised as fresh;
- Dissolved oxygen (DO) typically ranged from 3.40 mgL/ppm to 6.91 mgL/ppm, indicating relatively high DO within surface water;
- Oxidation reduction potential (ORP) ranged from 70.5 mV to 208.2 mV; and
- No odours or sheens were identified within any of the sampled surface water.

9.3.2 Analytical Results

Surface water analytical results summary tables are provided in **Appendix A** (**Table B**). Individual exceedances of the adopted ecological and human health assessment criteria were reported, as summarised in **Table 9-5**, and are discussed further in **Section 10** and **Section 11**.

Table 9-5 Surface Water Contaminant Exceedances Summary

Sample ID	Concentration (mg/L)	Analyte	ANZG 2018 95% Criterion (mg/L)
SW01	0.002	Copper	0.0014
SW02	0.003		
SW03	0.006		
SW04	0.005		
SW05	0.003		
SW02	0.013	Zinc	0.008
SW03	0.036		
SW04	0.029		
SW05	0.01		

10. Discussion

10.1 Decision 1 - Potentially Unacceptable Risk to Site Users

10.1.1 Soil and Sediment

Is contamination present in site soils which represents a potentially unacceptable risk to site users?

No potentially unacceptable risks to site users have been identified during the investigation.

10.1.2 Surface Water

Is contamination present in site surface water which represents a potentially unacceptable risk to site users?

Surface water at the site has been identified to have concentrations of some metals at levels exceeding the adopted assessment criteria. Heavy metals (Cu and Zn) were identified within surface water at levels exceeding the adopted ecological assessment criteria. The levels were generally consistent across the Site, indicating that site based impacts were not significantly contributing to the presence of metals in surface waters. JBS&G consider the elevated concentrations of heavy metals are representative of regional heavy metal levels. As such, management and/or remediation for the presence of heavy metals in surface water at the site is not considered to be warranted.

10.2 Decision 2 – Evidence of Background Contamination of Site Media

Is there any evidence of background contamination of site media (soils or surface water)?

No COPCs have been identified in site media which are indicative of potential natural or anthropogenic background contamination.

10.3 Decision 3 - Potential Issues Resulting from Synergistic or Additive Effects of Contaminants

Where contaminants have been identified in site media, are there any potential issues resulting from synergistic or additive effects to cause potentially unacceptable risks to future site users?

No contaminates were identified in soil media.

Contaminates identified within surface water are noted to be representative of regional background levels and not considered to represent an unacceptable risk to future site users.

10.4 Decision 4 – Potential for Off-Site Migration

Is there any evidence of, or potential for, migration of contaminants site derived contaminants from the site which would cause potential risks to current and/or future offsite receptors?

Dust Generation

The site is primarily covered by grasses, building footprints or dams/water. In areas of exposed soil, no COPCs have been identified at concentrations which would represent substantial potential for impacted dust generation.

Surface Water Migration

Three surface water bodies are present on the Site. Based on the test results of the water samples obtained from the dams, it is considered that the water is of generally good quality. The slight exceedance of copper and zinc prevents discharge of the water to local waterways, although additional data may demonstrate that the average water quality of the dam is consistent with that required by ANZG 2018. The preferred option for dewatering of the dam is irrigation of adjacent lands or dust suppression during future development works.

Groundwater Migration

Groundwater was not assessed during the investigation described herein, but on the basis of historical and current land use and laboratory results for both soil and surface water not reporting

gross contamination, it is not considered likely that groundwater is significantly impacted. Consideration to groundwater migration is therefore not considered relevant.

Vapour Migration

No contamination that would suggest potential soil vapour impact was identified during the investigation described herein.

10.5 Decision 5 – Requirement for Management Strategy

Is a site management strategy required to address any site contamination issues?

It is anticipated that during development works dam dewatering may require management to mitigate health or ecological risks.

While no ACM was identified on site structures, on the basis of the age of the buildings (circa 1980s) it is recommended that a Hazardous Building Material Survey (HBMS) be undertaken prior to any demolition of existing site structures.

11. Conclusions and Recommendations

11.1 Conclusions

Based on the scope of works completed, and subject to the limitations presented in **Section 12**, the following conclusions are provided:

- The majority of the site is made up of undeveloped pastoral and horticultural land. A review of the site history indicates the site and surrounding area land uses have been consistent since the 1980's;
- A total of 136 soil locations have been advanced within the site which identified mainly reworked natural or natural material, with isolated areas of fill material across the site;
- All individual concentrations of soil samples were below the adopted site criteria;
- All COPC concentrations in dam surface water samples were below the adopted site criteria with the exception of copper and zinc, considered to be representative of regional background levels and not posing a risk to future site users. Regardless, dewatering activities may be required during development activities which may require management such that surface water discharged from site does not represent an unacceptable ecological risk; and
- An assessment of site suitability for the proposed use has been undertaken in accordance SEPP 55, and based on the findings of the assessment it is concluded that the site is suitable for the proposed commercial/industrial land use without contamination remediation and/or management.

11.2 Recommendations

Based on the site characterisation and conclusions above, the following recommendations are made:

- Hazardous building materials survey (HBMS) of site structures prior to demolition; and
- Development of a dewatering management plan for the site dams if dewatering is required.

12. Limitations

This report has been prepared for use by the client who has commissioned the works in accordance with the project brief only, and 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 should not be relied upon by other parties, who should make their own enquiries.

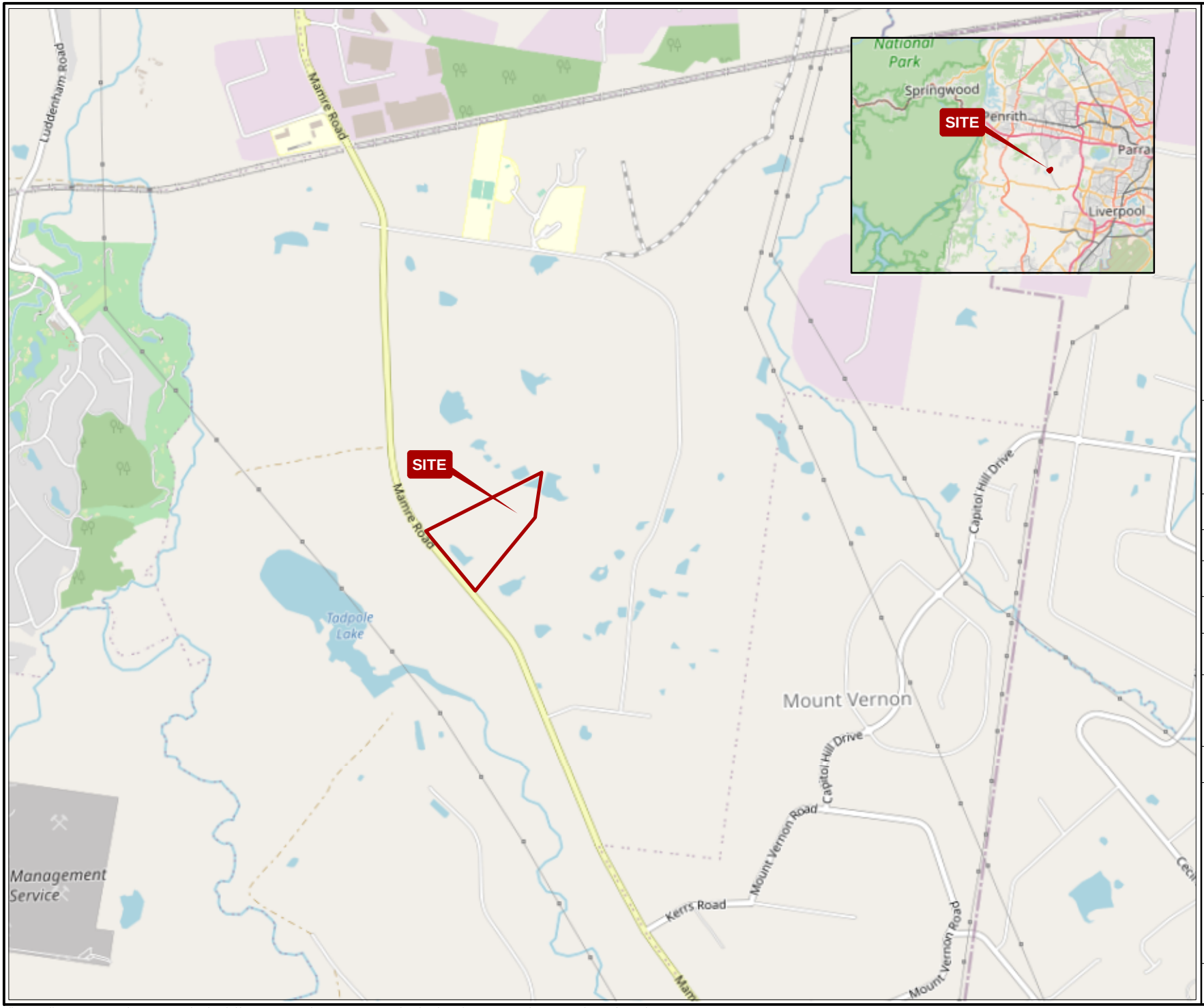
Sampling and chemical analysis of environmental media is based on appropriate guidance documents made and approved by the relevant regulatory authorities. Conclusions arising from the review and assessment of environmental data are based on the sampling and analysis considered appropriate based on the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



Legend:

Approximate Site Boundary

JBS&G

Job No: 60330	
Client: Altis	
Version: R01 Rev 0	Date 20/05/2021
Drawn By: RF	Checked By: RH
Scale 1:30,000	

0 380 760

metres

Coord. Sys. GDA 1994 MGA Zone 56

884-902 and 904- 928 Mamre Road, Kemps Creek, NSW

SITE LOCATION

FIGURE 1

File Name: \\JBSG-NSW-FS01\Company Data\Projects\Altis Property Group\60330 884 Mamre Rd DSI\GIS\Maps\R01_RevA_DSI\59637_01_SiteLocation.mxd

Reference: © OpenStreetMap (and) contributors, CC-BY-SA



Site		
ID	Easting	Northing
1	295571.992	6252892.673
2	295533.722	6252632.099
3	295187.568	6252205.721
4	294899.578	6252551.958

Legend:

- Approximate Site Boundary
- NSW Cadastre (DFSI, 2021)

JBS&G

Job No: 60330

Client: Altis

Version: R01 Rev A	Date 9/06/2021
Drawn By: RF	Checked By: RH

Scale 1:4,000

0 50 100

metres

Coord. Sys. GDA 1994 MGA Zone 56

884-902 and 904-928 Mamre Road, Kemps Creek, NSW

SITE LAYOUT

FIGURE 2

File Name: N:\Projects\Altis Property Group\60330 884 Mamre Rd DSI\GIS\Maps\R01_RevA_DSI\60330_02_SiteLayout.mxd
Reference: Nearmap - nearmap.com.au - Imagery 20200803



Legend:

- Approximate Site Boundary
- NSW Cadastre (DFSI, 2021)

Site Features

- AEC 1: Former/current structures
- AEC 2: Equipment storage and maintenance areas
- AEC 3: Fill material of unknown origin
- AEC 4: Septic Tanks
- AEC 5: Market Gardens
- AEC 6: Burnt Ground
- AEC 7: Surface Anthropogenic
- AEC 8: Surface Water Bodies
- AEC 9: Drainage Lines

JBS&G

Job No: 60330

Client: Altis

Version: R01 Rev A	Date 21/05/2021
Drawn By: RF	Checked By: RH

Scale 1:4,000

0 50 100

metres

Coord. Sys. GDA 1994 MGA Zone 56

884-902 and 904-928 Mamre Road, Kemps Creek, NSW

AREAS OF ENVIRONMENTAL CONCERN

FIGURE 3

File Name: N:\Projects\Altis Property Group\60330 884 Mamre Rd DSI\GIS\Maps\R01_RevA_DSI\59637_03_AECs.mxd
Reference: Nearmap - nearmap.com.au - Imagery 20210415



Legend:

- Approximate Site Boundary
- NSW Cadastre (DFSI, 2021)

Site Stratification

- Zone 1
- Zone 2
- Zone 3

JBS&G

Job No: 60330	
Client: Altis	
Version: R01 Rev A	Date 21/05/2021
Drawn By: RF	Checked By: RH
Scale 1:4,000	

0 50 100
metres

Coord. Sys. GDA 1994 MGA Zone 56

884-902 and 904-928 Mamre Road, Kemps Creek, NSW

SITE STRATIFICATION FOR SAMPLING

FIGURE 4

File Name: N:\Projects\Altis Property Group\60330 884 Mamre Rd DSI\GIS\Maps\R01_RevA_DSI\59637_04_SiteStratificationforSampling.mxd
Reference: Nearmap - nearmap.com.au - Imagery 20210415



Legend:

- Approximate Site Boundary
- NSW Cadastre (DFSI, 2021)

Site Stratification

- Zone 1
- Zone 2
- Zone 3

Sample Locations

- Drainage Line
- Zone 1
- Zone 2
- Zone 3

JBS&G

Job No: 60330

Client: Altis

Version: R01 Rev A	Date 9/06/2021
Drawn By: RF	Checked By: RH

Scale 1:4,000

0 50 100

metres

Coord. Sys. GDA 1994 MGA Zone 56

884-902 and 904-928 Mamre Road, Kemps Creek, NSW

SAMPLING LAYOUT

FIGURE 5

File Name: N:\Projects\Altis Property Group\60330 884 Mamre Rd DSI\GIS\Maps\R01_RevA_DSI\59637_05_SamplingLayout.mxd
Reference: Nearmap - nearmap.com.au - Imagery 20210415

Appendix A Summary Tables

Table A1 - Soil Analytical Results
Project Number: 60330
Project Name: Mamre Road, DSI

| | Metals & Metalloids | | | | | | | | TPHs (NEPC 1999) | | | | | TRHs (NEPC 2013) | | | | | | | | BTEXN | | | | | | | | PAH | | | | | | | |

Table A1 - Soil Analytical Results
Project Number: 60330
Project Name: Mamre Road, DSI

| | Metals & Metalloids | | | | | | | | TPHs (NEPC 1999) | | | | | TRHs (NEPC 2013) | | | | | | | BTEXN | | | | | | | | PAH | | | | | | | |

Table A1 - Soil Analytical Results
Project Number: 60330
Project Name: Mamre Road, DSI

				Organochlorine Pesticides																							Chlorinated Alkanes																			
				4,4-DDE	a-BHC	b-BHC	d-BHC	g-BHC (Lindane)	Aldrin	Dieldrin	Aldrin + Dieldrin	Chlordane	Chlordane (cis)	Chlordane (trans)	DDT	DDD	DDT+DDE+DDD	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	Endrin ketone	Heptachlor	Heptachlor Epoxide	Methoxychlor	Toxaphene	1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1,2-trichloroethane	1,1-dichloroethane	1,2,3-trichloropropane	1,2-dibromo-3-chloropropane	1,2-dichloroethane	1,2-dichloropropane	1,3-dichloropropane	2,2-dichloropropane	Bromochloromethane	Carbon tetrachloride	Chloroethane	Chloromethane	Dichlorodifluoromethane	Dichloromethane	Trichlorofluoromethane
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.1	0.1	0.1	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.2	0.1	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5	0.5	0.5	0.5
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil											45	530					3600				100			50		2500	160																		
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay (0-1m)																																													
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay (1-2m)																																													
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay (2-4m)																																													
NEPM 2013 Table 1B(1-5) Generic EIL - Comm/Ind															640																															
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil																																													
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Coarse Soil																																													
NEPM 2013 Table 7 Comm/Ind D Soil HSL for Asbestos in Soil																																													
Sample ID	**Sample Code**	**Sample Date/Primary**	**Lab Report**																																										
S001 0.3-0.4	S21-My61791	28/05/2021	799439	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S003 0.0-0.1	S21-Jn00478	27/05/2021	799524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
S003 0.4-0.5	S21-Jn00479	27/05/2021	799524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S004 0.0-0.1	S21-Jn00480	27/05/2021	799524	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
S005 0.3-0.4	S21-Jn00482	27/05/2021	799524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S005 0.8-0.9	S21-Jn00483	27/05/2021	799524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S005 0-0.1	S21-Jn00481	27/05/2021	799524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S006 0-0.1	S21-Jn00484	27/05/2021	799524	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S007 0.0-0.1	S21-Jn00485	27/05/2021	799524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S007 0.3-0.4	S21-Jn00486	27/05/2021	799524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S008 0.4-0.5	S21-Jn00487	27/05/2021	799524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S009 0-0.1	S21-My61792	28/05/2021	799439	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S010 0-0.1	S21-My61793	28/05/2021	799439	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S011 0-0.1	S21-My61794	28/05/2021	799439	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S012 0.4-0.5	S21-Jn00489	27/05/2021	799524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S012 0.9-1.0	S21-Jn00490	27/05/2021	799524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S012 0-0.1	S21-Jn00488	27/05/2021	799524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S013 0-0.1	S21-Jn00491	27/05/2021	799524	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S015 0-0.1	S21-My61795	28/05/2021	799439	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S016 0-0.1	S21-My61796	28/05/2021	799439	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S019 0-0.1	S21-Jn00492	27/05/2021	799524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S024 0.4-0.5	S21-Jn00493	27/05/2021	799524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S024 0.8-0.9	S21-Jn00494	27/05/2021	799524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S028 0-0.1	S21-Jn00495	27/05/2021	799524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S029 0-0.1	S21-Jn00496	27/05/2021	799524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S031 0-0.1	S21-My54127	26/05/2021	798505	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA02	270211-2	S031 0-0.1	270211	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC02	S21-My54128	S031 0-0.1	798505	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S032 0-0.1	S21-Jn00497	27/05/2021	799524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S033 0-0.1	S21-Jn00498	27/05/2021	799524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S034 0-0.1	S21-Jn00499	27/05/2021	799524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S036 0-0.1	S21-Jn00500	27/05/2021	799524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S038 0-0.1	S21-Jn00501	27/05/2021	799524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S041 0-0.1	S21-Jn00502	27/05/2021	799524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S042 0-0.1	S21-Jn00503	27/05/2021	799524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S043 0-0.1	S21-Jn00504	27/05/2021	799524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S044 0-0.1	S21-My54129	26/05/2021	798505	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S047 0.3-0.4	S21-My54130	26/05/2021	798505	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S051 0-0.1	S21-Jn00505	27/05/2021	799524	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S052 0-0.1	S21-My61797	28/05/2021	799439	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S054 0.3-0.4	S21-Jn00506	27/05/2021	799524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S055 0-0.1	S21-My54131	26/05/2021	798505	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA03	270211-3	S055 0-0.1	270211	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC03	S21-My54132	S055 0-0.1	798505	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S059 0.3-0.4	S21-My61798	28/05/2021	799439	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S061 0-0.1	S21-Jn00507	27/05/2021	799524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S062 0-0.1	S21-Jn00508	27/05/2021	799524	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S069 0.3-0.4	S21-Jn00509	27/05/2021	799524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S071 0-0.1	S21-My61800	28/05/2021	799439	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S072 0-0.1	S21-My61799	28/05/2021	799439	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S074 0-0.1	S21-Jn00510	27/05/2021	799524	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S076 0.3-0.4	S21-My61801	28/05/2021	799439	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S079 0-0.1	S21-Jn00511	27/05/2021	799524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S079 0-0.1	S21-My54135	26/05/2021	798505	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S081 0-0.1	S21-My61802	28/05/2021	799439	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S082 0-0.1	S21-My61803	28/05/2021	799439	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S083 0-0.1	S21-Jn00512	27/05/2021	799524	0.11	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	0.11	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S084 0-0.1	S21-My61804	28/05/2021	799439	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S085 0-0.1	S21-My61805	28/05/2021	799439	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S088 0-0.1	S21-Jn00513	27/05/2021	799524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S089 0.9-1.0	S21-Jn00514	27/05/2021	799524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S090 0-0.1	S21-My54136	26/05/2021	798505	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	0.06	<0.05	0.06	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S091 0-0.1	S21-My54137	26/05/2021	798505	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table A1 - Soil Analytical Results
Project Number: 60330
Project Name: Mamre Road, DSI

	Organochlorine Pesticides																								Chlorinated Alkanes																			
	4,4-DDE	a-BHC	b-BHC	d-BHC	g-BHC (Lindane)	Aldrin	Dieldrin	Aldrin + Dieldrin	Chlordane	Chlordane (cis)	Chlordane (trans)	DDT	DDD	DDT+DDE+DDD	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	Endrin ketone	Heptachlor	Heptachlor Epoxide	Methoxychlor	Toxaphene	1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1,2-trichloroethane	1,1-dichloroethane	1,2,3-trichloropropane	1,2-dibromo-3-chloropropane	1,2-dichloroethane	1,2-dichloropropane	1,3-dichloropropane	2,2-dichloropropane	Bromochloromethane	Carbon tetrachloride	Chloroethane	Chloromethane	Dichlorodifluoromethane	Dichloromethane	Trichlorofluoromethane
	mg/kg	EQL	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.1	0.1	0.1	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.2	0.1	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5	0.5	0.5	0.5
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil								45	530					3600				100			50		2500	160																			
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay (0-1m)																																											
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay (1-2m)																																											
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay (2-4m)																																											
NEPM 2013 Table 1B(1-5) Generic EIL - Comm/Ind												640																															
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil																																											
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Coarse Soil																																											
NEPM 2013 Table 7 Comm/Ind D Soil HSL for Asbestos in Soil																																											

Sample ID	Sample Code	Sample Date/Primary	Lab Report																																											
S092 0.3-0.4	S21-My54139	26/05/2021	798505	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S092 0-0.1	S21-My54138	26/05/2021	798505	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S093 0-0.1	S21-My54140	26/05/2021	798505	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S094 0-0.1	S21-My54141	26/05/2021	798505	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S098 0-0.1	S21-My61806	28/05/2021	799439	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S104 0-0.1	S21-My54142	26/05/2021	798505	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S105 0-0.1	S21-My54143	26/05/2021	798505	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S106 0-0.1	S21-My54144	26/05/2021	798505	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S107 0-0.1	S21-My54145	26/05/2021	798505	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S108 0.9-1.0	S21-My54147	26/05/2021	798505	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S108 0-0.1	S21-My54146	26/05/2021	798505	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S109 0-0.1	S21-My54148	26/05/2021	798505	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S110 0-0.1	S21-My61807	28/05/2021	799439	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S111 0.4-0.5	S21-My54149	26/05/2021	798505	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S112 0-0.1	S21-My54150	26/05/2021	798505	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S113 0-0.1	S21-My54151	26/05/2021	798505	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S114 0-0.1	S21-My54152	26/05/2021	798505	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
QA01	270211-1	S114 0-0.1	270211	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1
QC01	S21-My54153	S114 0-0.1	798505	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
S115 0-0.1	S21-My54154	26/05/2021	798505	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S116 1.9-2.0	S21-My54155	26/05/2021	798505	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S117 1.9-2.0	S21-My54156	26/05/2021	798505	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S118 0-0.1	S21-My54157	26/05/2021	798505	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S119 0.9-1.0	S21-My61808	28/05/2021	799439	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S120 1.9-2.0	S21-My61809	28/05/2021	799439	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S121 0.9-1.0	S21-My61810	28/05/2021	799439	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S125 0-0.1	S21-My61812	28/05/2021	799439	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S127 0-0.1	S21-Jn00515	27/05/2021	799524	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S128 0.3-0.4	S21-Jn00516	27/05/2021	799524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S129 0-0.1	S21-Jn00517	27/05/2021	799524	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S134 0.4-0.5	S21-My61816	28/05/2021	799439	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
S135 0-0.05	S21-My61817	28/05/2021	799439	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S136 0-0.05	S21-My61818	28/05/2021	799439	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Statistical Summary

Number of Results	44	44	44	44	44	44	44	42	42	2	2	44	44	44	44	44	44	44	44	42	44	44	44	42	6	6	6	6	6	6	1	6	6	6	1	6	6	6	6	6	5	6
Number of Detects	1	0	0	0	0	0	0	0	0	0	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Minimum Detect	0.11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.06	ND	0.06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration	0.11	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1	<0.1	<0.1	0.11	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Maximum Detect	0.11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.06	ND	0.11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration	0.028	0.026	0.026	0.026	0.026	0.026	0.026	0.025	0.05			0.027	0.026	0.029	0.026	0.026	0.026	0.026	0.026	0.025	0.026	0.026	0.098	0.05	0.29	0.29	0.29	0.29	0.29	0.29		0.29	0.29	0.29		0.29	0.29	0.29	0.29	0.29	0.25	0.29
Median Concentration	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.05	0.05	0.05	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.1	0.05	0.25	0.25	0.25	0.25	0.25	0.25	0.5	0.25	0.25	0.25	0.5	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Standard Deviation	0.014	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053	0	0			0.0073	0.0053	0.015	0.0053	0.0053	0.0053	0.0053	0.0053	0	0.0053	0.0053	0.011	0	0.1	0.1	0.1	0.1	0.1	0.1		0.1	0.1	0.1		0.1	0.1	0.1	0.1	0.1	0	0.1
Number of Guideline Exceedances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table A1 - Soil Analytical Results
Project Number: 60330
Project Name: Mamre Road, DSI

	Chlorinated Alkenes												Solvents	Polychlorinated Biphenyls								Phenols		MAH									Miscellaneous Hydrocarbons							Chlorinated Benzenes							
	1,1-dichloroethene	1,1-dichloropropene	2-chlorotoluene	3-chloropropene	4-chlorotoluene	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Tetrachloroethene	trans-1,2-dichloroethene	trans-1,3-dichloropropene	Trichloroethene	Vinyl Chloride	Acetone	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	PCBs (Sum of total)	2,6-D	4,6-Dinitro-2-methylphenol	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	n-butylbenzene	n-propylbenzene	p-isopropyltoluene	sec-butylbenzene	Styrene	tert-butylbenzene	Total MAH	Bromobenzene	Isopropylbenzene	1,2-dibromoethane	Bromomethane	Cyclohexane	Dibromomethane	Iodomethane	4-Methyl-2-pentanone	Methyl Ethyl Ketone	1,2,3-trichlorobenzene	1,2,4-trichlorobenzene	1,2-Dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	Chlorobenzene	Hexachlorobenzene
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.5	1	1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	1	1	1	0.5	1	0.5	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5	1	1	0.5	0.5	0.5	0.5	0.05
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil																					7																										80
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay (0-1m)																																															
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay (1-2m)																																															
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay (2-4m)																																															
NEPM 2013 Table 1B(1-5) Generic EIL - Comm/Ind																																															
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil																																															
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Coarse Soil																																															
NEPM 2013 Table 7 Comm/Ind D Soil HSL for Asbestos in Soil																																															

| Sample ID | Sample Code | Sample Date/Primary | Lab Report | | | | | | | | | | | | | | | | | | |

Table A1 - Soil Analytical Results
Project Number: 60330
Project Name: Mamre Road, DSI

	Chlorinated Alkenes												Solvents	Polychlorinated Biphenyls								Phenols		MAH										Miscellaneous Hydrocarbons							Chlorinated Benzenes							
	1,1-dichloroethene	1,1-dichloropropene	2-chlorotoluene	3-chloropropene	4-chlorotoluene	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Tetrachloroethene	trans-1,2-dichloroethene	trans-1,3-dichloropropene	Trichloroethene	Vinyl Chloride	Acetone	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	PCBs (Sum of total)	2,6-D	4,6-Dinitro-2-methylphenol	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	n-butylbenzene	n-propylbenzene	p-isopropyltoluene	sec-butylbenzene	Styrene	tert-butylbenzene	Total MAH	Bromobenzene	Isopropylbenzene	1,2-dibromoethane	Bromomethane	Cyclohexane	Dibromomethane	Iodomethane	4-Methyl-2-pentanone	Methyl Ethyl Ketone	1,2,3-trichlorobenzene	1,2,4-trichlorobenzene	1,2-Dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	Chlorobenzene	Hexachlorobenzene
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.5	1	1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	1	1	1	0.5	1	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5	0.5	1	1	0.5	0.5	0.5	0.5	0.05
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil																					7																											80
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay (0-1m)																																															
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay (1-2m)																																															
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay (2-4m)																																															
NEPM 2013 Table 1B(1-5) Generic EIL - Comm/Ind																																															
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil																																															
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Coarse Soil																																															
NEPM 2013 Table 7 Comm/Ind D Soil HSL for Asbestos in Soil																																															
Sample ID	**Sample Code**	**Sample Date/Primary**	**Lab Report**																																													
S092 0.3-0.4	S21-My54139	26/05/2021	798505	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S092 0-0.1	S21-My54138	26/05/2021	798505	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05
S093 0-0.1	S21-My54140	26/05/2021	798505	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05
S094 0-0.1	S21-My54141	26/05/2021	798505	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05
S098 0-0.1	S21-My61806	28/05/2021	799439	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S104 0-0.1	S21-My54142	26/05/2021	798505	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05
S105 0-0.1	S21-My54143	26/05/2021	798505	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05
S106 0-0.1	S21-My54144	26/05/2021	798505	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05
S107 0-0.1	S21-My54145	26/05/2021	798505	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05
S108 0.9-1.0	S21-My54147	26/05/2021	798505	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05
S108 0-0.1	S21-My54146	26/05/2021	798505	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05
S109 0-0.1	S21-My54148	26/05/2021	798505	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05
S110 0-0.1	S21-My61807	28/05/2021	799439	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S111 0.4-0.5	S21-My54149	26/05/2021	798505	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05
S112 0-0.1	S21-My54150	26/05/2021	798505	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05
S113 0-0.1	S21-My54151	26/05/2021	798505	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05
S114 0-0.1	S21-My54152	26/05/2021	798505	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.05
QA01	270211-1	S114 0-0.1	270211	<1	<1	<1	-	<1	<1	<1	<1	<1	<1	<1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	-	<1	<1	<1	<1	<1	<1	<1	-	<1	<1	<1	<1	-	-	-	-	<1	<1	<1	<1	<1	<1	<0.1
QC01	S21-My54153	S114 0-0.1	798505	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.05
S115 0-0.1	S21-My54154	26/05/2021	798505	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05
S116 1.9-2.0	S21-My54155	26/05/2021	798505	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05
S117 1.9-2.0	S21-My54156	26/05/2021	798505	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05
S118 0-0.1	S21-My54157	26/05/2021	798505	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05
S119 0.9-1.0	S21-My61808	28/05/2021	799439	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S120 1.9-2.0	S21-My61809	28/05/2021	799439	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S121 0.9-1.0	S21-My61810	28/05/2021	799439	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S125 0-0.1	S21-My61812	28/05/2021	799439	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S127 0-0.1	S21-Jn00515	27/05/2021	799524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05
S128 0.3-0.4	S21-Jn00516	27/05/2021	799524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S129 0-0.1	S21-Jn00517	27/05/2021	799524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05
S134 0.4-0.5	S21-My61816	28/05/2021	799439	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.05
S135 0-0.05	S21-My61817	28/05/2021	799439	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S136 0-0.05	S21-My61818	28/05/2021	799439	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Statistical Summary																																																
Number of Results				6	1	1	5	6	6	6	6	6	6	6	5	6	6	6	6	6	6	6	6	2	39	6	6	1	1	1	1	6	1	5	6	6	6	6	1	6	5	5	5	1	1	6	6	6	6	44
Number of Detects				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration				<0.5	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.05
Minimum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration				<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.1
Maximum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration				0.29			0.25	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.25	0.22	0.05	0.22	0.22	0.22	0.22	0.22	0.22		0.25	0.29	0.29					0.29		0.25	0.29	0.29	0.29	0.29		0.29	0.25	0.25	0.25			0.29	0.29	0.29	0.29	0.026
Median Concentration				0.25	0.5	0.5	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.05	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.5	0.5	0.5	0.5	0.5	0.25	0.5	0.25	0.25	0.25	0.25	0.25	0.5	0.25	0.25	0.25	0.25	0.5	0.5	0.25	0.25	0.25	0.25	0.025
Standard Deviation				0.1			0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0	0.082	0	0.082	0.082	0.082	0.082	0.082	0.082		0	0.1	0.1					0.1		0	0	0				0.1	0	0	0			0.1	0.1	0.1	0.1	0.0053
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table A1 - Soil Analytical Results
Project Number: 60330
Project Name: Mamre Road, DSI

	Trihalomethanes				Herbicides & Fungicides																				Organic Sulfur Compounds	Ionic Balance			Particle Size	Chlorinated Hydrocarbons	Moisture Content	Other			
	Dibromochloromethane	Chloroform	Tribromomethane	Bromodichloromethane	Picloram	2,4,5-TP (Silvex)	2,4,5-Trichlorophenoxy Acetic Acid	2,4-dichlorophenoxybutanoic acid	2,4-Dichloprop	2-Methyl-4-Chlorophenoxy Butanoic Acid	2-Methyl-4-chlorophenoxyacetic acid	4-(2,4-Dichlorophenoxy)butyric Acid (2,4-DB)	Bromoxynil	Clopyralid	Dicamba	Dinoseb	Hedonal	Mecoprop	Triclopyr	2,4,5-Trichlorophenoxy-acetic acid	2-Chlorophenoxyacetic acid	4-Chlorophenoxy acetic acid	Acifluorfen	Carbon disulfide	CEC	Conductivity (1:5 aqueous extract)	pH (aqueous extract)	% Clay*	Hexachlorobutadiene	Moisture Content	Moisture Content (dried @ 103°C)	3,5-Dichlorobenzoic acid	Actril (loxynil)	DCPA (Chlorthal) Diacid
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	MEQ/100G	US/CM	pH Units	%	mg/kg	%	%	mg/kg	mg/kg
EQL	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	2	0.5	0.05	10	0.1	1	1	0.1	1	0.5	0.5	0.5
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil					35000		5000			5000	5000						9000	5000																
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay (0-1m)																																		
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay (1-2m)																																		
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay (2-4m)																																		
NEPM 2013 Table 1B(1-5) Generic EIL - Comm/Ind																																		
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil																																		
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Coarse Soil																																		
NEPM 2013 Table 7 Comm/Ind D Soil HSL for Asbestos in Soil																																		
Sample ID	**Sample Code**	**Sample Date/Primary**	**Lab Report**																															
S001 0.3-0.4	S21-My61791	28/05/2021	799439	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24	-	-	-
S003 0.0-0.1	S21-Jn00478	27/05/2021	799524	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	25	73	8.5	-	-	-	8	-	-	-
S003 0.4-0.5	S21-Jn00479	27/05/2021	799524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	120	5.9	-	-	-	20	-	-	-
S004 0.0-0.1	S21-Jn00480	27/05/2021	799524	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	18	-	<0.5	-
S005 0.3-0.4	S21-Jn00482	27/05/2021	799524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	-	-	-
S005 0.8-0.9	S21-Jn00483	27/05/2021	799524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	-	-	-
S005 0-0.1	S21-Jn00481	27/05/2021	799524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	-	-	-
S006 0-0.1	S21-Jn00484	27/05/2021	799524	-	-	-	-	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	26	-	<0.5	-
S007 0.0-0.1	S21-Jn00485	27/05/2021	799524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	-	-	-
S007 0.3-0.4	S21-Jn00486	27/05/2021	799524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	-	-	-
S008 0.4-0.5	S21-Jn00487	27/05/2021	799524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	-	-	-
S009 0-0.1	S21-My61792	28/05/2021	799439	-	-	-	-	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	20	-	<0.5	-
S010 0-0.1	S21-My61793	28/05/2021	799439	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S011 0-0.1	S21-My61794	28/05/2021	799439	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22	-	-	-
S012 0.4-0.5	S21-Jn00489	27/05/2021	799524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19	-	-	-
S012 0.9-1.0	S21-Jn00490	27/05/2021	799524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S012 0-0.1	S21-Jn00488	27/05/2021	799524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S013 0-0.1	S21-Jn00491	27/05/2021	799524	-	-	-	-	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	24	-	<0.5	-
S015 0-0.1	S21-My61795	28/05/2021	799439	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	-	-	-
S016 0-0.1	S21-My61796	28/05/2021	799439	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	46	-	-	-
S019 0-0.1	S21-Jn00492	27/05/2021	799524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19	-	-	-
S024 0.4-0.5	S21-Jn00493	27/05/2021	799524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	-	-	-
S024 0.8-0.9	S21-Jn00494	27/05/2021	799524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S028 0-0.1	S21-Jn00495	27/05/2021	799524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	-	-	-
S029 0-0.1	S21-Jn00496	27/05/2021	799524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20	-	-	-
S031 0-0.1	S21-My54127	26/05/2021	798505	-	-	-	-	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	19	-	<0.5	-
QA02	270211-2	S031 0-0.1	270211	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	-	-	-	-	-	-	26	-	<0.5	<1	<0.5
QC02	S21-My54128	S031 0-0.1	798505	-	-	-	-	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	22	-	<0.5	-
S032 0-0.1	S21-Jn00497	27/05/2021	799524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.1	-	-	-
S033 0-0.1	S21-Jn00498	27/05/2021	799524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	-	-	-
S034 0-0.1	S21-Jn00499	27/05/2021	799524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.3	-	-	-
S036 0-0.1	S21-Jn00500	27/05/2021	799524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	-	-	-
S038 0-0.1	S21-Jn00501	27/05/2021	799524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22	-	-	-
S041 0-0.1	S21-Jn00502	27/05/2021	799524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	-	-	-
S042 0-0.1	S21-Jn00503	27/05/2021	799524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	-	-	-
S043 0-0.1	S21-Jn00504	27/05/2021	799524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	-	-	-
S044 0-0.1	S21-My54129	26/05/2021	798505	-	-	-	-	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	39	-	<0.5	-
S047 0.3-0.4	S21-My54130	26/05/2021	798505	-	-	-	-	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	21	-	<0.5	-
S051 0-0.1	S21-Jn00505	27/05/2021	799524	-	-	-	-	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	18	-	<0.5	-
S052 0-0.1	S21-My61797	28/05/2021	799439	-	-	-	-	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	13	-	<0.5	-
S054 0.3-0.4	S21-Jn00506	27/05/2021	799524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21	-	-	-
S055 0-0.1	S21-My54131	26/05/2021	798505	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19	-	-	-
QA03	270211-3	S055 0-0.1	270211	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21	-	-	-
QC03	S21-My54132	S055 0-0.1	798505	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21	-	-	-
S059 0.3-0.4	S21-My61798	28/05/2021	799439	-	-	-	-	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	20	-	<0.5	-
S061 0-0.1	S21-Jn00507	27/05/2021	799524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	-	-	-
S062 0-0.1	S21-Jn00508	27/05/2021	799524	-	-	-	-	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	17	-	<0.5	-
S069 0.3-0.4	S21-Jn00509	27/05/2021	799524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19	-	-	-
S071 0-0.1	S21-My61800	28/05/2021	799439	-	-	-	-	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	15	-	<0.5	-
S072 0-0.1	S21-My61799	28/05/2021	799439	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	-	-	-
S074 0-0.1	S21-Jn00510	27/05/2021	799524	-	-	-	-	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	18	-	<0.5	-
S076 0.3-0.4	S21-My61801	28/05/2021	799439	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19	-	-	-
S079 0-0.1	S21-Jn00511	27/05/2021	799524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19	-	-	-
S079 0-0.1	S21-My54135	26/05/2021	798505	-	-	-	-	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	48	-	<0.5	-
S081 0-0.1	S21-My61802	28/05/2021	799439	-	-	-	-	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	19	-	<0.5	-
S082 0-0.1	S21-My61803	28/05/2021	799439	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19	-	-	-
S083 0-0.1	S21-Jn00512	27/05/2021	799524	-	-	-	-	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	15	-	<0.5	-
S084 0-0.1	S21-My61804	28/05/2021	799439	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	-	-	-
S085 0-0.1	S21-My61805	28/05/2021	799439	-	-	-	-	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	14	-	<0.5	-
S088 0-0.1	S21-Jn00513	27/05/2021	799524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	-	-	-
S089 0.9-1.0	S21-Jn00514	27/05/2021	799524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20	-	-	-
S090 0-0.1	S21-My54136	26/05/2021	798505	-	-	-	-	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	13	-	<0.5	-
S091 0-0.1	S21-My54137	26/05/2021	798505	-	-	-	-	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	18	-	<0.5	-

Table A1 - Soil Analytical Results
Project Number: 60330
Project Name: Mamre Road, DSI

	Trihalomethanes				Herbicides & Fungicides																			Organic Sulfur Compounds	Ionic Balance			Particle Size	Chlorinated Hydrocarbons	Moisture Content	Other			
	Dibromochloromethane	Chloroform	Tribromomethane	Bromodichloromethane	Picloram	2,4,5-TP (Silvex)	2,4,5-Trichlorophenoxy Acetic Acid	2,4-dichlorophenoxybutanoic acid	2,4-Dichloprop	2-Methyl-4-Chlorophenoxy Butanoic Acid	2-Methyl-4-chlorophenoxyacetic acid	4-(2,4-Dichlorophenoxy)butyric Acid (2,4-DB)	Bromoxynil	Clopyralid	Dicamba	Dinoseb	Hedonal	Mecoprop	Triclopyr	2,4,5-Trichlorophenoxy-acetic acid	2-Chlorophenoxyacetic acid	4-Chlorophenoxy acetic acid	Acifluorfen	Carbon disulfide	CEC	Conductivity (1:5 aqueous extract)	pH (aqueous extract)	% Clay*	Hexachlorobutadiene	Moisture Content	Moisture Content (dried @ 103°C)	3,5-Dichlorobenzoic acid	Actril (loxynil)	DCPA (Chlorthal) Diacid
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	MEQ/100G	US/CM	pH Units	%	mg/kg	%	%	mg/kg	mg/kg	mg/kg
EQL	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	2	0.5	0.05	10	0.1	1	1	0.1	1	0.5	0.5	0.5
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil					35000		5000			5000	5000						9000	5000																
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay (0-1m)																																		
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay (1-2m)																																		
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay (2-4m)																																		
NEPM 2013 Table 1B(1-5) Generic EIL - Comm/Ind																																		
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil																																		
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Coarse Soil																																		
NEPM 2013 Table 7 Comm/Ind D Soil HSL for Asbestos in Soil																																		
Sample ID	**Sample Code**	**Sample Date/Primary**	**Lab Report**																															
S092 0.3-0.4	S21-My54139	26/05/2021	798505	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19	22	6.5	18	-	-	17	-	-	-
S092 0-0.1	S21-My54138	26/05/2021	798505	-	-	-	-	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	18	-	<0.5	-
S093 0-0.1	S21-My54140	26/05/2021	798505	-	-	-	-	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	17	-	<0.5	-
S094 0-0.1	S21-My54141	26/05/2021	798505	-	-	-	-	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	28	-	<0.5	-
S098 0-0.1	S21-My61806	28/05/2021	799439	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	-	-	-
S104 0-0.1	S21-My54142	26/05/2021	798505	-	-	-	-	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	17	-	<0.5	-
S105 0-0.1	S21-My54143	26/05/2021	798505	-	-	-	-	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	27	-	<0.5	-
S106 0-0.1	S21-My54144	26/05/2021	798505	-	-	-	-	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	19	-	<0.5	-
S107 0-0.1	S21-My54145	26/05/2021	798505	-	-	-	-	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	17	-	<0.5	-
S108 0.9-1.0	S21-My54147	26/05/2021	798505	-	-	-	-	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	22	-	<0.5	-
S108 0-0.1	S21-My54146	26/05/2021	798505	-	-	-	-	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	13	-	<0.5	-
S109 0-0.1	S21-My54148	26/05/2021	798505	-	-	-	-	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	52	-	<0.5	-
S110 0-0.1	S21-My61807	28/05/2021	799439	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	33	-	-	-
S111 0.4-0.5	S21-My54149	26/05/2021	798505	-	-	-	-	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	14	-	<0.5	-
S112 0-0.1	S21-My54150	26/05/2021	798505	-	-	-	-	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	19	-	<0.5	-
S113 0-0.1	S21-My54151	26/05/2021	798505	-	-	-	-	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	20	-	<0.5	-
S114 0-0.1	S21-My54152	26/05/2021	798505	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	-	-	-	-	-	-	-	20	-	-	-
QA01	270211-1	S114 0-0.1	270211	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<2	-	-	-	-	-	<1	19	-	<0.5	<1	<0.5
QC01	S21-My54153	S114 0-0.1	798505	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	-	-	-	-	-	-	-	25	-	-	-
S115 0-0.1	S21-My54154	26/05/2021	798505	-	-	-	-	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	20	-	<0.5	-
S116 1.9-2.0	S21-My54155	26/05/2021	798505	-	-	-	-	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	13	-	<0.5	-
S117 1.9-2.0	S21-My54156	26/05/2021	798505	-	-	-	-	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	19	-	<0.5	-
S118 0-0.1	S21-My54157	26/05/2021	798505	-	-	-	-	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	17	-	<0.5	-
S119 0.9-1.0	S21-My61808	28/05/2021	799439	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	-	-	-
S120 1.9-2.0	S21-My61809	28/05/2021	799439	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	-	-	-
S121 0.9-1.0	S21-My61810	28/05/2021	799439	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24	-	-	-
S125 0-0.1	S21-My61812	28/05/2021	799439	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S127 0-0.1	S21-Jn00515	27/05/2021	799524	-	-	-	-	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	20	-	<0.5	-
S128 0.3-0.4	S21-Jn00516	27/05/2021	799524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20	-	-	-
S129 0-0.1	S21-Jn00517	27/05/2021	799524	-	-	-	-	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	20	-	<0.5	-
S134 0.4-0.5	S21-My61816	28/05/2021	799439	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	-	-	-	-	-	-	-	17	-	-	-
S135 0-0.05	S21-My61817	28/05/2021	799439	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28	-	-	-
S136 0-0.05	S21-My61818	28/05/2021	799439	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20	-	-	-
Statistical Summary																																		
Number of Results				6	6	6	6	2	41	41	2	41	41	41	39	2	2	41	41	41	41	2	2	2	2	2	5	3	3	3	1	1	3	88	2	41	2
Number of Detects				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	3	1	0	3	88	0	0	0
Minimum Concentration				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	16	22	5.9	18	<1	19	7.1	<0.5	<0.5	<0.5
Minimum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	16	22	5.9	18	ND	19	7.1	ND	ND	ND
Maximum Concentration				<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	25	120	8.5	18	<1	26	52	<0.5	<1	<0.5
Maximum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	25	120	8.5	18	ND	26	52	ND	ND	ND
Average Concentration				0.29	0.29	0.29	0.29		0.25	0.25		0.25	0.25	0.25	0.25			0.25	0.26	0.25	0.25					0.25	20	72	7			22	19		0.26	
Median Concentration				0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	1	0.25	19	73	6.5	18	0.5	21	18.5	0.25	0.25	0.25
Standard Deviation				0.1	0.1	0.1	0.1		0	0		0	0	0	0			0	0.055	0	0					0	4.6	49	1.4			3.6	7.5		0.055	
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table A2 - Asbestos in Soil
Project Number: 60330
Project Name: Mamre Road, DSI

	Asbestos - Eurofins																	Asbestos - Envirolab			
	Approximate Sample Mass	Mass ACM	Mass Asbestos in ACM	Asbestos from ACM in Soil	Mass FA	Mass Asbestos in FA	Mass AF	Mass asbestos in AF	Asbestos from FA & AF in Soil	Mass Asbestos in FA & AF	ACM - Comment	FA- Comment	AF - Comment	Organic Fibres - Comment	Respirable Fibres - Comment	Synthetic Fibres - Comment	Asbestos Reported Result	Asbestos ID in Soil	Total Asbestos	Asbestos (ACM >7mm) Estimation	Asbestos in soil (<2mm AF/FA) (%w/w)
	g	g	g	% (w/w)	g	g	g	g	% (w/w)	g	Comment	Comment	Comment	Comment	Comment	Comment	Comment	g/kg	g/kg	% (w/w)	% (w/w)
EQL																			0	0	0
NEPM 2013 Table 7 Comm/Ind D Soil HSL for Asbestos in Soil				0.05					0.001											0.05	0.001
Sample ID	**Sample Code**	**Sample Date/Primary**	**Lab Report**																		
S003 0.0-0.1	S21-Jn00478	27/05/2021	799524	827	0	0	0	0	0	0	0	0	ND	1	1	1	1	1	1	-	-	-	-
S004 0.0-0.1	S21-Jn00480	27/05/2021	799524	422	0	0	0	0	0	0	0	0	ND	1	1	1	1	1	1	-	-	-	-
S005 0.3-0.4	S21-Jn00482	27/05/2021	799524	650	0	0	0	0	0	0	0	0	ND	1	1	1	1	1	1	-	-	-	-
S005 0-0.1	S21-Jn00481	27/05/2021	799524	650	0	0	0	0	0	0	0	0	ND	1	1	1	1	1	1	-	-	-	-
S007 0.0-0.1	S21-Jn00485	27/05/2021	799524	716	0	0	0	0	0	0	0	0	ND	1	1	1	1	1	1	-	-	-	-
S008 0.4-0.5	S21-Jn00487	27/05/2021	799524	608	0	0	0	0	0	0	0	0	ND	1	1	1	1	1	1	-	-	-	-
S010 0-0.1	S21-My61793	28/05/2021	799439	553	0	0	0	0	0	0	0	0	ND	1	1	1	1	1	1	-	-	-	-
S012 0.4-0.5	S21-Jn00489	27/05/2021	799524	580	0	0	0	0	0	0	0	0	ND	1	1	1	1	1	1	-	-	-	-
S012 0.9-1.0	S21-Jn00490	27/05/2021	799524	423	0	0	0	0	0	0	0	0	ND	1	1	1	1	1	1	-	-	-	-
S012 0-0.1	S21-Jn00488	27/05/2021	799524	617	0	0	0	0	0	0	0	0	ND	1	1	1	1	1	1	-	-	-	-
S015 0-0.1	S21-My61795	28/05/2021	799439	650	0	0	0	0	0	0	0	0	ND	1	1	1	1	1	1	-	-	-	-
S019 0-0.1	S21-Jn00492	27/05/2021	799524	550	0	0	0	0	0	0	0	0	ND	1	1	1	1	1	1	-	-	-	-
S024 0.4-0.5	S21-Jn00493	27/05/2021	799524	543	0	0	0	0	0	0	0	0	ND	1	1	1	1	1	1	-	-	-	-
S024 0.8-0.9	S21-Jn00494	27/05/2021	799524	550	0	0	0	0	0	0	0	0	ND	1	1	1	1	1	1	-	-	-	-
S028 0-0.1	S21-Jn00495	27/05/2021	799524	586	0	0	0	0	0	0	0	0	ND	1	1	1	1	1	1	-	-	-	-
S029 0-0.1	S21-Jn00496	27/05/2021	799524	412	0	0	0	0	0	0	0	0	ND	1	1	1	1	1	1	-	-	-	-
QA02	270211-2	S031 0-0.1	270211	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	<0.1	<0.01	<0.001
S032 0-0.1	S21-Jn00497	27/05/2021	799524	834	0	0	0	0	0	0	0	0	ND	1	1	1	1	1	1	-	-	-	-
S033 0-0.1	S21-Jn00498	27/05/2021	799524	610	0	0	0	0	0	0	0	0	ND	1	1	1	1	1	1	-	-	-	-
S034 0-0.1	S21-Jn00499	27/05/2021	799524	834	0	0	0	0	0	0	0	0	ND	1	1	1	1	1	1	-	-	-	-
S038 0-0.1	S21-Jn00501	27/05/2021	799524	678	0	0	0	0	0	0	0	0	ND	1	1	1	1	1	1	-	-	-	-
S043 0-0.1	S21-Jn00504	27/05/2021	799524	598	0	0	0	0	0	0	0	0	ND	1	1	1	1	1	1	-	-	-	-
S051 0-0.1	S21-Jn00505	27/05/2021	799524	601	0	0	0	0	0	0	0	0	ND	1	1	1	1	1	1	-	-	-	-
S055 0-0.1	S21-My54131	26/05/2021	798505	684	0	0	0	0	0	0	0	0	ND	1	1	1	1	1	1	-	-	-	-
S059 0.3-0.4	S21-My61798	28/05/2021	799439	702	0	0	0	0	0	0	0	0	ND	1	1	1	1	1	1	-	-	-	-
S069 0.3-0.4	S21-Jn00509	27/05/2021	799524	754	0	0	0	0	0	0	0	0	ND	1	1	1	1	1	1	-	-	-	-
S079 0-0.1	S21-Jn00511	27/05/2021	799524	810	0	0	0	0	0	0	0	0	ND	1	1	1	1	1	1	-	-	-	-
S082 0-0.1	S21-My61803	28/05/2021	799439	620	0	0	0	0	0	0	0	0	ND	1	1	1	1	1	1	-	-	-	-
S088 0-0.1	S21-Jn00513	27/05/2021	799524	660	0	0	0	0	0	0	0	0	ND	1	1	1	1	1	1	-	-	-	-
S089 0.9-1.0	S21-Jn00514	27/05/2021	799524	530	0	0	0	0	0	0	0	0	ND	1	1	1	1	1	1	-	-	-	-
S093 0-0.1	S21-My54140	26/05/2021	798505	534	0	0	0	0	0	0	0	0	ND	1	1	1	1	1	1	-	-	-	-
S108 0-0.1	S21-My54146	26/05/2021	798505	660	0	0	0	0	0	0	0	0	ND	1	1	1	1	1	1	-	-	-	-
S110 0-0.1	S21-My61807	28/05/2021	799439	569	0	0	0	0	0	0	0	0	ND	1	1	1	1	1	1	-	-	-	-
S111 0.4-0.5	S21-My54149	26/05/2021	798505	646	0	0	0	0	0	0	0	0	ND	1	1	1	1	1	1	-	-	-	-
S114 0-0.1	S21-My54152	26/05/2021	798505	500	0	0	0	0	0	0	0	0	ND	1	1	1	1	1	1	-	-	-	-
QA01	270211-1	S114 0-0.1	270211	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	<0.1	<0.01	<0.001
QC01	S21-My54153	S114 0-0.1	798505	507	0	0	0	0	0	0	0	0	ND	1	1	1	1	1	1	-	-	-	-
S119 0.9-1.0	S21-My61808	28/05/2021	799439	388	0	0	0	0	0	0	0	0	ND	1	1	1	1	1	1	-	-	-	-
S120 1.9-2.0	S21-My61809	28/05/2021	799439	998	0	0	0	0	0	0	0	0	ND	1	1	1	1	1	1	-	-	-	-
S121 0.9-1.0	S21-My61810	28/05/2021	799439	561	0	0	0	0	0	0	0	0	ND	1	1	1	1	1	1	-	-	-	-
S125 0-0.1	S21-My61812	28/05/2021	799439	462	0	0	0	0	0	0	0	0	ND	1	1	1	1	1	1	-	-	-	-
S134 0.4-0.5	S21-My61816	28/05/2021	799439	552	0	0	0	0	0	0	0	0	ND	1	1	1	1	1	1	-	-	-	-
S135 0-0.05	S21-My61817	28/05/2021	799439	335	0	0	0	0	0	0	0	0	ND	1	1	1	1	1	1	-	-	-	-
S136 0-0.05	S21-My61818	28/05/2021	799439	166	0	0	0	0	0	0	0	0	ND	1	1	1	1	1	1	-	-	-	-
Statistical Summary																					
Number of Results				42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	2	2	2	2
Number of Detects				42	42	42	42	42	42	42	0	42	42	42	42	42	42	42	2	0	0	0
Minimum Concentration				166	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	<0.1	<0.01	<0.001
Minimum Detect				166	ND	ND	ND	ND	ND	ND	ND	1	1	1	1	1	1	1	ND	ND	ND	ND
Maximum Concentration				998	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	<0.1	<0.01	<0.001
Maximum Detect				998	ND	ND	ND	ND	ND	ND	ND	1	1	1	1	1	1	1	ND	ND	ND	ND
Average Concentration				598	0	0	0	0	0	0	0	1	1	1	1	1	1	1				
Median Concentration				600	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0.05	0.005	0.0005
Standard Deviation				149	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table A3: Soil Leachate Data
Project Number: 60330
Project Name: Mamre Road, DSI

				Metals & Metalloids								PAH																	Ionic Balance		
				Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a) pyrene	Benzo(b+j)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene - PAH	Phenanthrene	Pyrene	PAHs (Sum of total)	pH (after HCL)	pH (Final)	pH (Initial)
				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pH Units	pH Units	pH Units
EQL				0.01	0.005	0.05	0.05	0.01	0.001	0.01	0.05	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	0.1	0.1	0.1
NSW 2014 General Solid Waste TCLP1 (leached)				5	1	5		5	0.2	2						0.04															
NSW 2014 Restricted Solid Waste TCLP2 (leached)				20	4	20		20	0.8	8						0.16															
Sample ID	**Sample Code**	**Sample Date**	**Lab Report**																												
S003 0.0-0.1	S21-Jn00518	27/05/2021	799524	<0.01	<0.005	<0.05	<0.05	<0.01	<0.001	0.12	0.06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	5.3	9.1
S003 0.0-0.1	S21-Jn00520	27/05/2021	799524	-	-	-	-	-	-	-	-	<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	2	5.2	9.2
S004 0.0-0.1	S21-Jn00519	27/05/2021	799524	<0.01	<0.005	<0.05	<0.05	<0.01	<0.001	<0.01	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.9	5.1	6.7
S004 0.0-0.1	S21-Jn00521	27/05/2021	799524	-	-	-	-	-	-	-	-	<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	1.9	5	6.7
S135 0-0.05	S21-My61822	28/05/2021	799439	0.09	<0.005	<0.05	<0.05	<0.01	<0.001	<0.01	0.15	<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	1.8	5.1	7.7
Statistical Summary																															
Number of Results				3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	5	5	5
Number of Detects				1	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5	5
Minimum Concentration				<0.01	<0.005	<0.05	<0.05	<0.01	<0.001	<0.01	<0.05	<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	1.8	5	6.7
Minimum Detect				0.09	ND	ND	ND	ND	ND	0.12	0.06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.8	5	6.7
Maximum Concentration				0.09	<0.005	<0.05	<0.05	<0.01	<0.001	0.12	0.15	<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	2	5.3	9.2
Maximum Detect				0.09	ND	ND	ND	ND	ND	0.12	0.15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2	5.3	9.2
Average Concentration				0.033	0.0025	0.025	0.025	0.005	0.0005	0.043	0.078	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	1.9	5.1	7.9
Median Concentration				0.005	0.0025	0.025	0.025	0.005	0.0005	0.005	0.06	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	1.9	5.1	7.7
Standard Deviation				0.049	0	0	0	0	0	0.066	0.064	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.084	0.11	1.2
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table B - Surface Water Analytical Results
Project Number: 60330
Project Name: Mamre Road, DSI

				Metals & Metalloids								TPHs (NEPC 1999)					TRHs (NEPC 2013)							BTEXN							
				Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum of Total)	C6-C10	C10-C16	C16-C34	C34-C40	C10-C40 (Sum of total)	F1 (C6-C10 minus BTEX)	F2 (C10-C16 less Naphthalene)	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Naphthalene	Naphthalene - MAH
				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL				0.001	0.0002	0.001	0.001	0.001	0.0001	0.001	0.005	0.02	0.05	0.1	0.1	0.1	0.02	0.05	0.1	0.1	0.1	0.02	0.05	0.001	0.001	0.001	0.001	0.002	0.003	0.0002	0.01
ANZG (2018) Freshwater 95% toxicant DGVs				0.013	0.0002	0.001	0.0014	0.0034	0.0006	0.011	0.008													0.95			0.35			0.016	0.016
CRC Care 2011 Table A2 Vapour Intrusion HSL-D Commercial / Industrial, Clay (2-4m)																	NL	NL						29	NL	NL				NL	NL	NL
Sample ID	**Sample Code**	**Sample Date/Primary**	**Lab Report**																												
SW01	M21-My57873	26/05/2021	798936	0.001	<0.0002	<0.001	0.002	<0.001	<0.0001	<0.001	0.005	<0.02	<0.05	<0.1	<0.1	<0.1	<0.02	<0.05	<0.1	<0.1	<0.1	<0.02	<0.05	<0.001	<0.001	<0.001	<0.001	<0.002	<0.003	-	<0.01
SW02	M21-My57874	26/05/2021	798936	0.003	<0.0002	<0.001	0.003	<0.001	<0.0001	0.002	0.013	<0.02	<0.05	<0.1	<0.1	<0.1	<0.02	<0.05	<0.1	<0.1	<0.1	<0.02	<0.05	<0.001	<0.001	<0.001	<0.001	<0.002	<0.003	-	<0.01
QAOLSW	270211-4	SW02	270211	0.003	<0.0001	<0.001	0.005	<0.001	<0.00005	0.002	0.044	<0.01	<0.05	<0.1	<0.1	-	<0.01	<0.05	<0.1	<0.1	-	<0.01	<0.05	<0.001	<0.001	<0.001	<0.001	<0.002	-	<0.0002	-
QC01_SW	M21-My57878	SW02	798936	0.003	<0.0002	<0.001	0.007	<0.001	<0.0001	0.002	0.018	<0.04	<0.05	<0.1	<0.1	<0.1	<0.04	<0.05	<0.1	<0.1	<0.1	<0.04	<0.05	<0.002	<0.002	<0.002	<0.002	<0.004	<0.006	-	<0.02
SW03	M21-My57875	26/05/2021	798936	0.004	<0.0002	0.001	0.006	0.002	<0.0001	0.002	0.036	<0.02	<0.05	<0.1	<0.1	<0.1	<0.02	<0.05	<0.1	<0.1	<0.1	<0.02	<0.05	<0.001	<0.001	<0.001	<0.001	<0.002	<0.003	-	<0.01
SW04	M21-My57876	26/05/2021	798936	0.003	<0.0002	0.001	0.005	0.001	<0.0001	0.002	0.029	<0.02	<0.05	<0.1	<0.1	<0.1	<0.02	<0.05	<0.1	<0.1	<0.1	<0.02	<0.05	<0.001	<0.001	<0.001	<0.001	<0.002	<0.003	-	<0.01
SW05	M21-My57877	26/05/2021	798936	0.004	<0.0002	0.001	0.003	0.001	<0.0001	0.002	0.01	<0.04	<0.05	<0.1	<0.1	<0.1	<0.04	<0.05	<0.1	<0.1	<0.1	<0.04	<0.05	<0.002	<0.002	<0.002	<0.002	<0.004	<0.006	-	<0.02
Statistical Summary																															
Number of Results				5	5	5	5	5	5	5	5	5	5	5	5	4	5	5	5	5	4	5	5	5	5	5	5	5	4	1	4
Number of Detects				5	0	3	5	3	0	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration				0.003	<0.0001	<0.001	0.003	<0.001	<0.00005	0.002	0.01	<0.01	<0.05	<0.1	<0.1	<0.1	<0.01	<0.05	<0.1	<0.1	<0.1	<0.01	<0.05	<0.001	<0.001	<0.001	<0.001	<0.002	<0.003	<0.0002	<0.01
Minimum Detect				0.003	ND	0.001	0.003	0.001	ND	0.002	0.01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration				0.004	<0.0002	0.001	0.007	0.002	<0.0001	0.002	0.044	<0.04	<0.05	<0.1	<0.1	<0.1	<0.04	<0.05	<0.1	<0.1	<0.1	<0.04	<0.05	<0.002	<0.002	<0.002	<0.002	<0.004	<0.006	<0.0002	<0.02
Maximum Detect				0.004	ND	0.001	0.007	0.002	ND	0.002	0.044	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration				0.0034	0.00009	0.0008	0.0052	0.001	0.000045	0.002	0.027	0.013	0.025	0.05	0.05	0.05	0.013	0.025	0.05	0.05	0.05	0.013	0.025	0.0007	0.0007	0.0007	0.0007	0.0014	0.0023		0.0075
Median Concentration				0.003	0.0001	0.001	0.005	0.001	0.00005	0.002	0.029	0.01	0.025	0.05	0.05	0.05	0.01	0.025	0.05	0.05	0.05	0.01	0.025	0.0005	0.0005	0.0005	0.0005	0.001	0.00225	0.0001	0.0075
Standard Deviation				0.00055	0.000022	0.00027	0.0015	0.00061	0.000011	0	0.014	0.0067	0	0	0	0	0.0067	0	0	0	0	0.0067	0	0.00027	0.00027	0.00027	0.00027	0.00055	0.00087		0.0029
Number of Guideline Exceedances				0	0	3	5	0	0	0	5	0	0	0	0	0	5	5	0	0	0	0	0	0	5	5	0	0	4	0	2
Number of Guideline Exceedances(Detects Only)				0	0	3	5	0	0	0	5	0	0	0	0	0	5	5	0	0	0	0	0	0	5	5	0	0	4	0	0

Table B - Surface Water Analytical Results
Project Number: 60330
Project Name: Mamre Road, DSI

				PAH																	Non-Metallic Inorganics			Ionic Balance	Other
				Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a) pyrene	Benzo(a)pyrene TEQ	Benzo(b+j)fluoranthene	Benzo(b+j+k)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene - PAH	Phenanthrene	Pyrene	PAHs (Sum of total)	Ammonia as N	Nitrate (as N)	Nitrite (as N)	pH (Lab)	TSS
				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	MG/L	mg/L	pH Units	mg/L
EQL				0.00001	0.00001	0.00001	0.00001	0.00001	0.0005	0.00001	0.0002	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.01	0.02	0.02	0.1	1
ANZG (2018) Freshwater 95% toxicant DGVs																			0.016				0.9				
CRC Care 2011 Table A2 Vapour Intrusion HSL-D Commercial / Industrial, Clay (2-4m)																			NL								
Sample ID	**Sample Code**	**Sample Date/Primary**	**Lab Report**																								
SW01	M21-My57873	26/05/2021	798936	<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	<0.01	0.03	0.03	8.3	6.5
SW02	M21-My57874	26/05/2021	798936	<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	0.21	0.05	<0.02	7.6	220
QAOLSW	270211-4	SW02	270211	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0005	-	<0.0002	<0.0001	-	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	-	<0.0001	<0.0001	<0.0001	0.075	0.02	<0.005	7.1	130
QC01_SW	M21-My57878	SW02	798936	<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	0.14	0.03	<0.02	7.7	140
SW03	M21-My57875	26/05/2021	798936	<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	0.04	0.1	<0.02	8.2	49
SW04	M21-My57876	26/05/2021	798936	<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	0.63	<0.02	<0.02	7.6	310
SW05	M21-My57877	26/05/2021	798936	<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	0.03	<0.02	<0.02	7.9	100
Statistical Summary																											
Number of Results				5	5	5	5	5	1	4	1	5	4	5	5	5	5	5	4	5	5	5	5	5	5	5	5
Number of Detects				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	3	0	5	5
Minimum Concentration				<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.0005	<0.00001	<0.0002	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.03	<0.02	<0.005	7.1	49
Minimum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.03	0.02	ND	7.1	49
Maximum Concentration				<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0005	<0.00001	<0.0002	<0.0001	<0.00001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00001	<0.0001	<0.0001	<0.0001	0.63	0.1	<0.02	8.2	310
Maximum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.63	0.1	ND	8.2	310
Average Concentration				0.000014	0.000014	0.000014	0.000014	0.000014		0.000005		0.000014	0.000005	0.000014	0.000014	0.000014	0.000014	0.000014	0.000005	0.000014	0.000014	0.000014	0.18	0.034	0.0085	7.7	146
Median Concentration				0.000005	0.000005	0.000005	0.000005	0.000005	0.00025	0.000005	0.0001	0.000005	0.000005	0.000005	0.000005	0.000005	0.000005	0.000005	0.000005	0.000005	0.000005	0.000005	0.075	0.02	0.01	7.7	130
Standard Deviation				0.00002	0.00002	0.00002	0.00002	0.00002		0		0.00002	0	0.00002	0.00002	0.00002	0.00002	0.00002	0	0.00002	0.00002	0.00002	0.25	0.038	0.0034	0.41	98
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Appendix B Photographic Log

PHOTOGRAPH 1: SHEDS AND FIRE PIT IN ALONGSIDE THE CENTRAL SOUTHERN BOUNDARY



PHOTOGRAPH 2: MAIN RESIDENCE IN THE SOUTHERN LOT (FACING NORTH)



PHOTOGRAPH 3: STOCKPILES FARM IMPLEMENTS AND WASTE



PHOTOGRAPH 4: SHED IN THE SOUTHERN PORTION OF THE SITE



JBS&G

Job No: 60330	
Client: Altis Property Group	
Version: R01 Rev A	Date: 08/06/2021
Drawn By: RL	Checked By: RL
Not to Scale	
Coord. Sys n/a	

884 – 902 and 904 – 928 Mamre Rd, Kemps Creek, NSW

APPENDIX B: PHOTOGRAPH LOG

PHOTOGRAPH 5: TP118 IN THE WESTERN PORTION OF THE SITE ATOP DAM EMBANKMENT



PHOTOGRAPH 6: GRAVELLED FLOOR OF SHED IN NORTHERN PORTION OF THE SITE (S131)



PHOTOGRAPH 7: SHED ADJACENT NORTHERN BOUNDARY OF THE SITE WITH S003 IN FOREGROUND



PHOTOGRAPH 8: NORTHERN PORTION OF THE SITE (FORMER MARKET GARDENS) WITH S060 IN FOREGROUND



JBS&G

Job No: 60330	
Client: Altis Property Group	
Version: R01 Rev A	Date: 08/06/2021
Drawn By: RL	Checked By: RL
Not to Scale	
Coord. Sys n/a	

884 – 902 and 904 – 928 Mamre Rd, Kemps Creek, NSW

APPENDIX B: PHOTOGRAPH LOG

PHOTOGRAPH 9: SOUTHERN PORTION OF THE SITE (GRASSED PADDOCK) WITH S059 IN FOREGROUND



PHOTOGRAPH 10: DAM IN CENTRAL PORTION OF THE SITE WITH S018 IN FOREGROUND (FACING NORTH)



PHOTOGRAPH 11: MOWN AREA IN FRONT OF SHED IN CENTRAL NORTHERN PORTION OF THE SITE



PHOTOGRAPH 12: EASTERN PORTION OF THE SITE FACING WEST



JBS&G

Job No: 60330

Client: Altis Property Group

Version: R01 Rev A	Date: 08/06/2021
Drawn By: RL	Checked By: RL

Not to Scale

Coord. Sys n/a

884 – 902 and 904 – 928 Mamre Rd, Kemps Creek, NSW

APPENDIX B: PHOTOGRAPH LOG

Appendix C ePlanning Portal Map

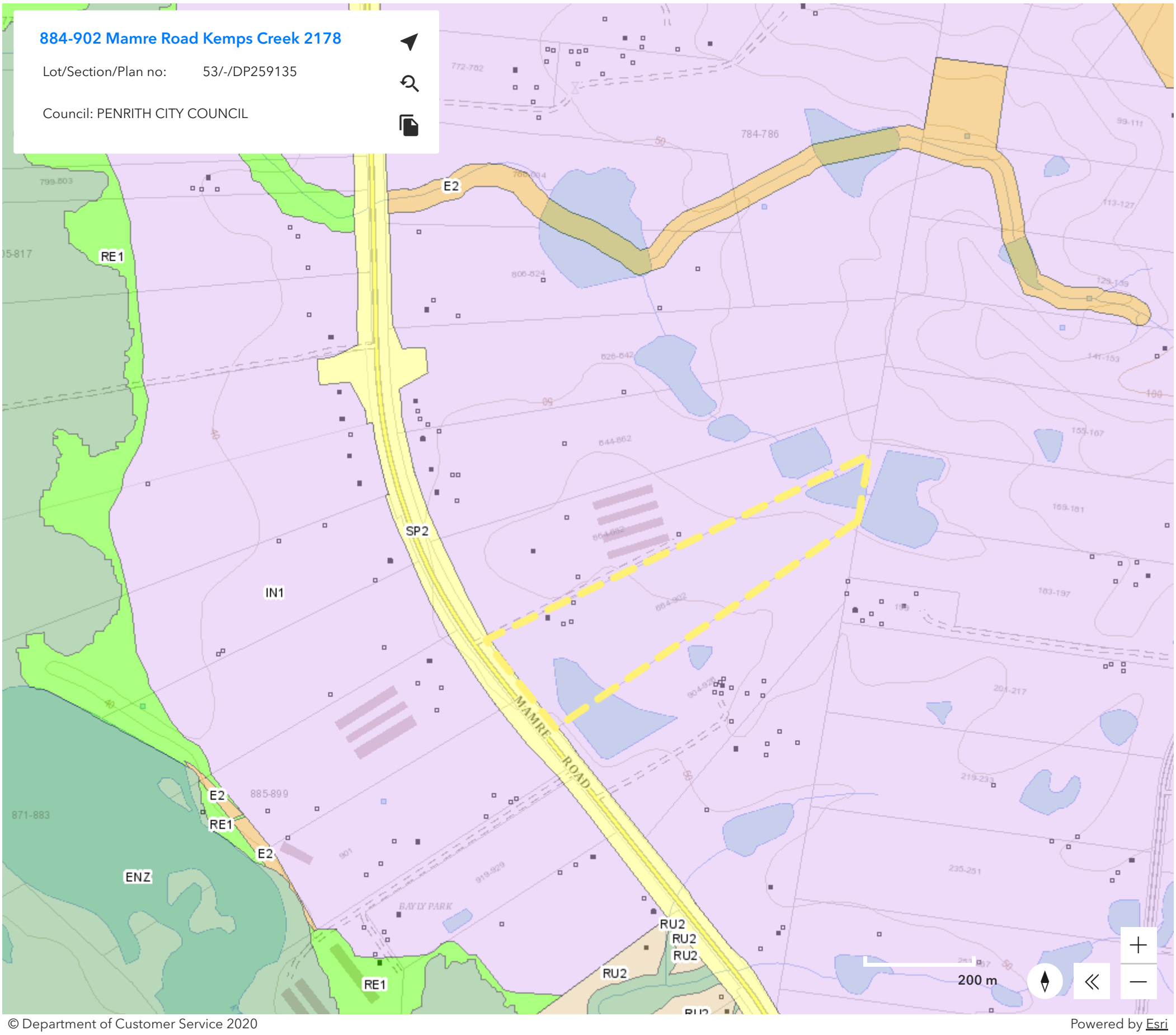
ePlanning Spatial Viewer

NSW Planning Portal | Login | User Guide

884-902 Mamre Road Kemps Creek 2178

Lot/Section/Plan no: 53/-/DP259135

Council: PENRITH CITY COUNCIL



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Appendix D Regional Groundwater Information

Download All Groundwater Site details sites

navigate | by radius | by rectangle

Create a list of sites

- Upload site list [Choose File] No file chosen
- Select by radius from map
- Select by rectangle from map

clear

Data to be downloaded

What type of data do you want to download?

- [x] Site Details
- [x] Available Data

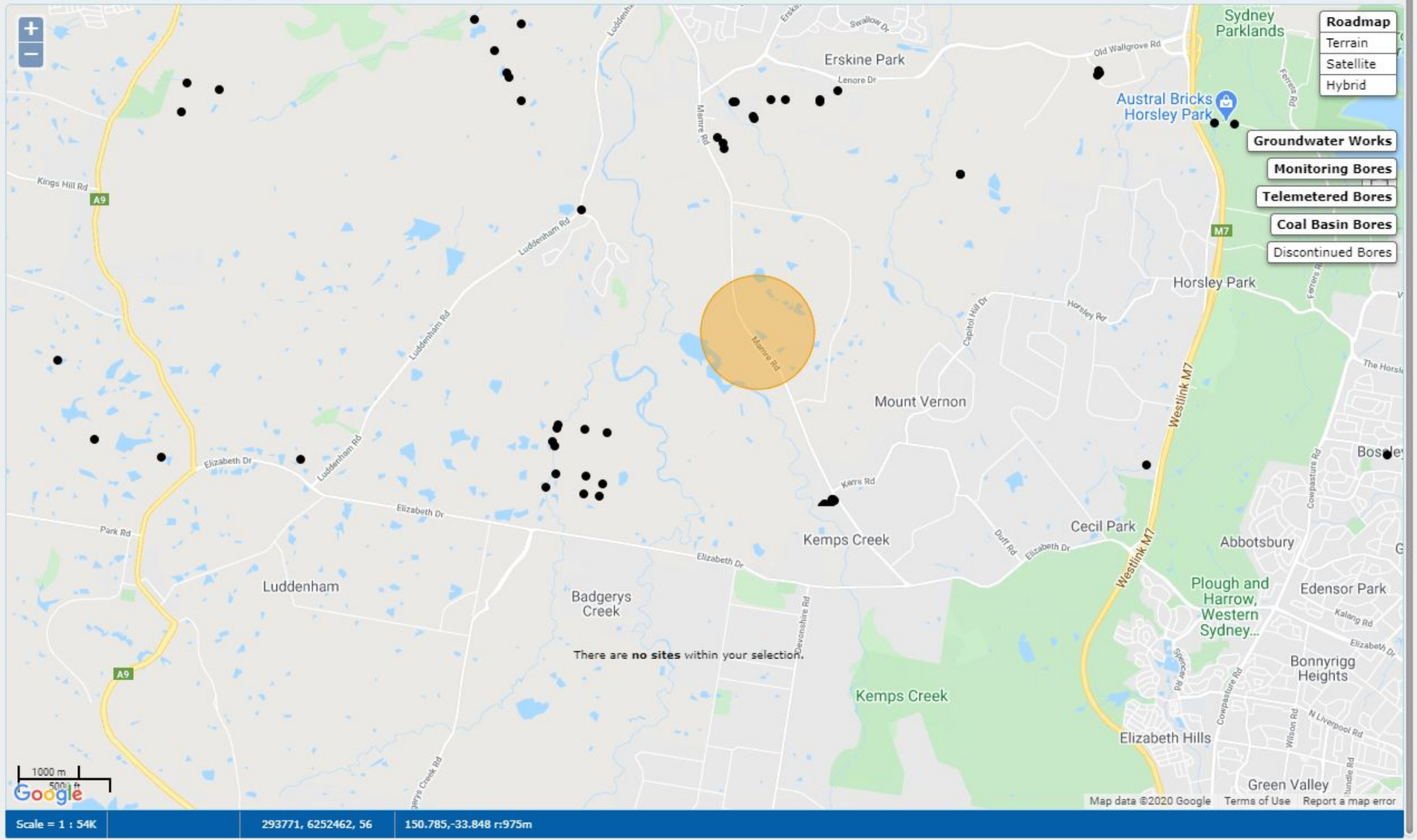
What interval do you wish to use for aggregating data? All points

Do you want all available data or a particular period? All data

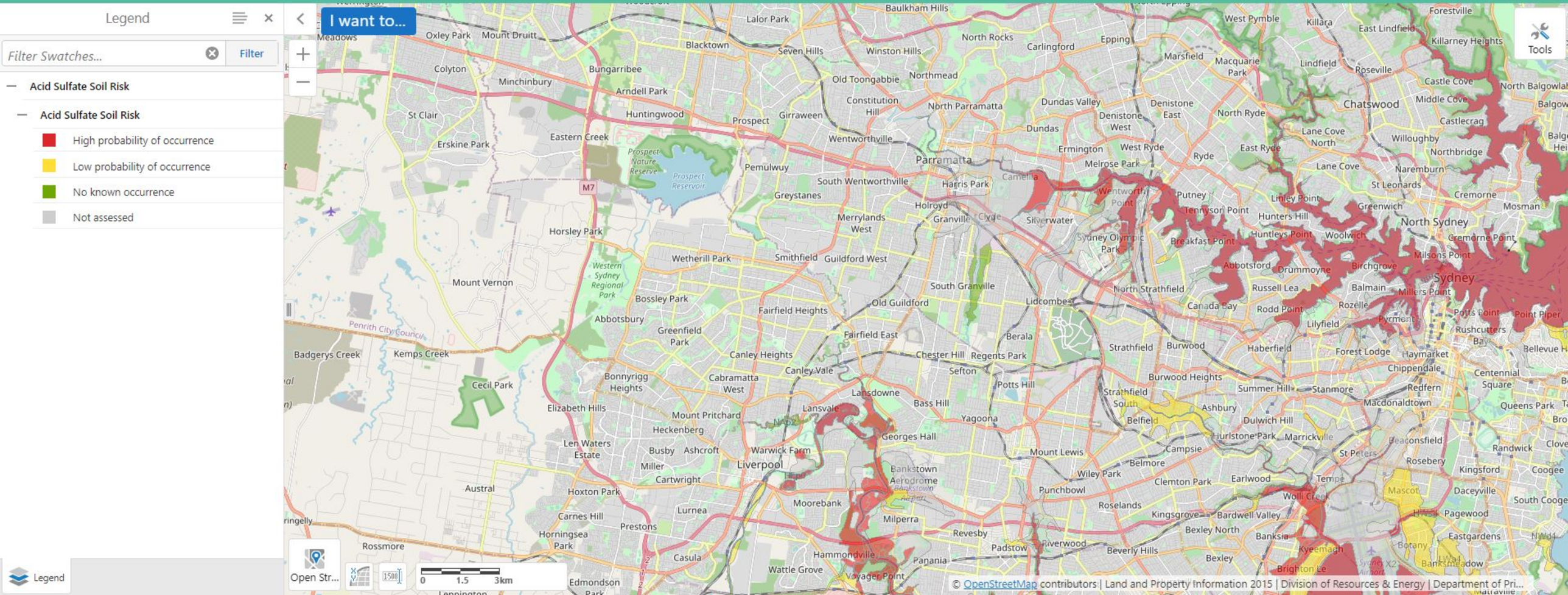
Email address

Enter email address to send data

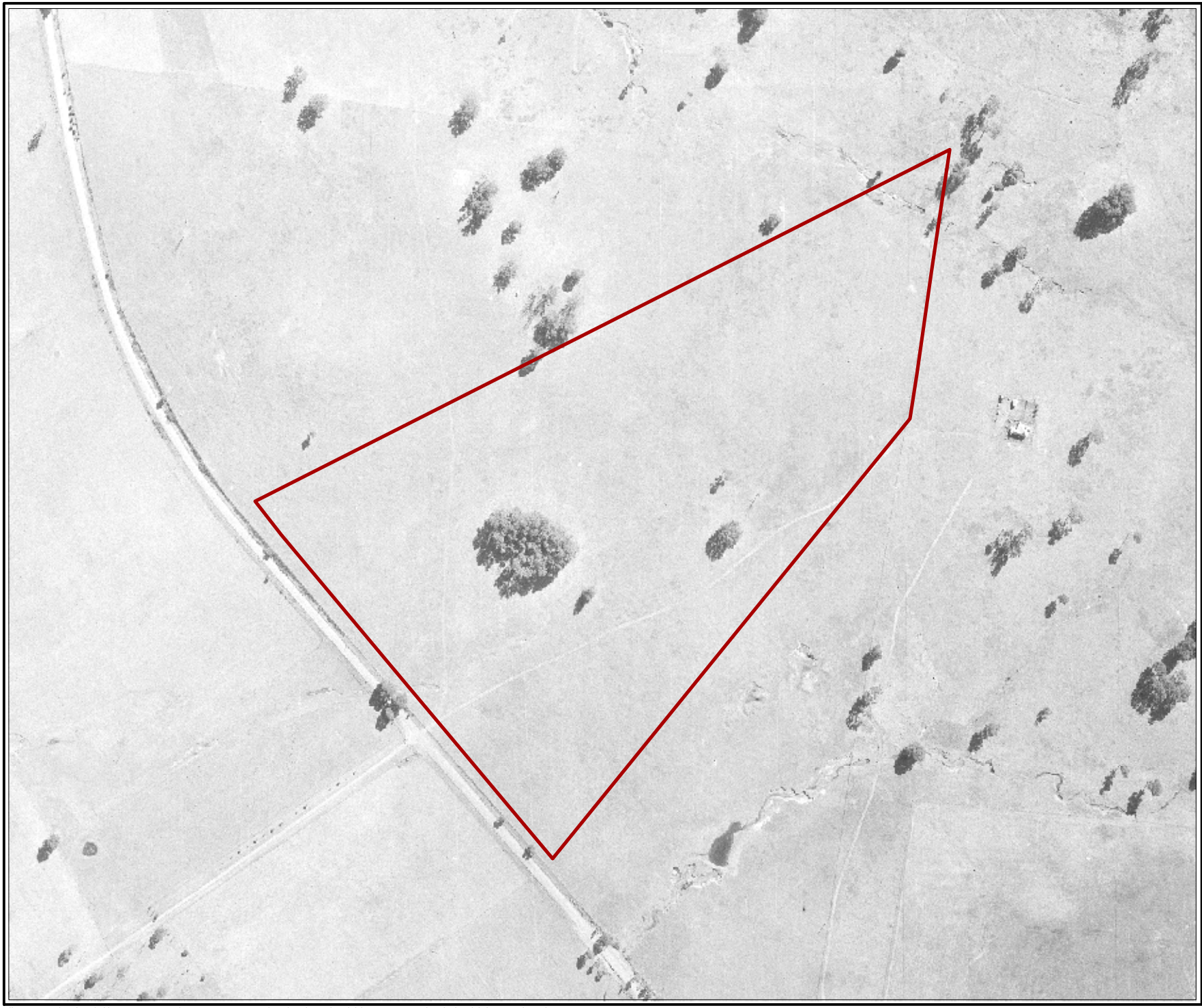
Prepare to Download



Appendix E Sharing and Enabling Environmental Data ASS Map


Legend
Filter Swatches...
Filter
Acid Sulfate Soil Risk
Acid Sulfate Soil Risk
High probability of occurrence
Low probability of occurrence
No known occurrence
Not assessed
I want to...
Tools
Legend
Open Str...
0 1.5 3km
© OpenStreetMap contributors | Land and Property Information 2015 | Division of Resources & Energy | Department of Pri...

Appendix F Historical Aerial Photographs



Legend:

Approximate Site Boundary

JBS&G

Job No: 60330	
Client: Altis	
Version: Aerials	Date 21/05/2021
Drawn By: RF	Checked By: MS
Scale 1:5,000	

0 50 100

metres

Coord. Sys. GDA 1994 MGA Zone 56

884-902 and 904-928 Mamre Road, Kemps Creek, NSW

HISTORICAL AERIAL PHOTOGRAPH - 1955

FIGURE 1955

File Name: N:\Projects\Altis Property Group\60330 884 Mamre Rd DSI\GIS\Maps\Aerials\60330_1955_HistoricalAerialPhotograph.mxd
Reference: Spatial Services - DFSI, NSW



Legend:

Approximate Site Boundary

JBS&G

Job No: 60330	
Client: Altis	
Version: Aerials	Date 21/05/2021
Drawn By: RF	Checked By: MS
Scale 1:5,000	

0 50 100

metres

Coord. Sys. GDA 1994 MGA Zone 56

884-902 and 904-928 Mamre Road, Kemps Creek, NSW

HISTORICAL AERIAL PHOTOGRAPH - 1965

FIGURE 1965

File Name: N:\Projects\Altis Property Group\60330 884 Mamre Rd DSI\GIS\Maps\Aerials\60330_1965_HistoricalAerialPhotograph.mxd
Reference: Spatial Services - DFSI, NSW



Legend:

Approximate Site Boundary

JBS&G

Job No: 60330	
Client: Altis	
Version: Aerials	Date 21/05/2021
Drawn By: RF	Checked By: MS
Scale 1:5,000	

0 50 100

metres

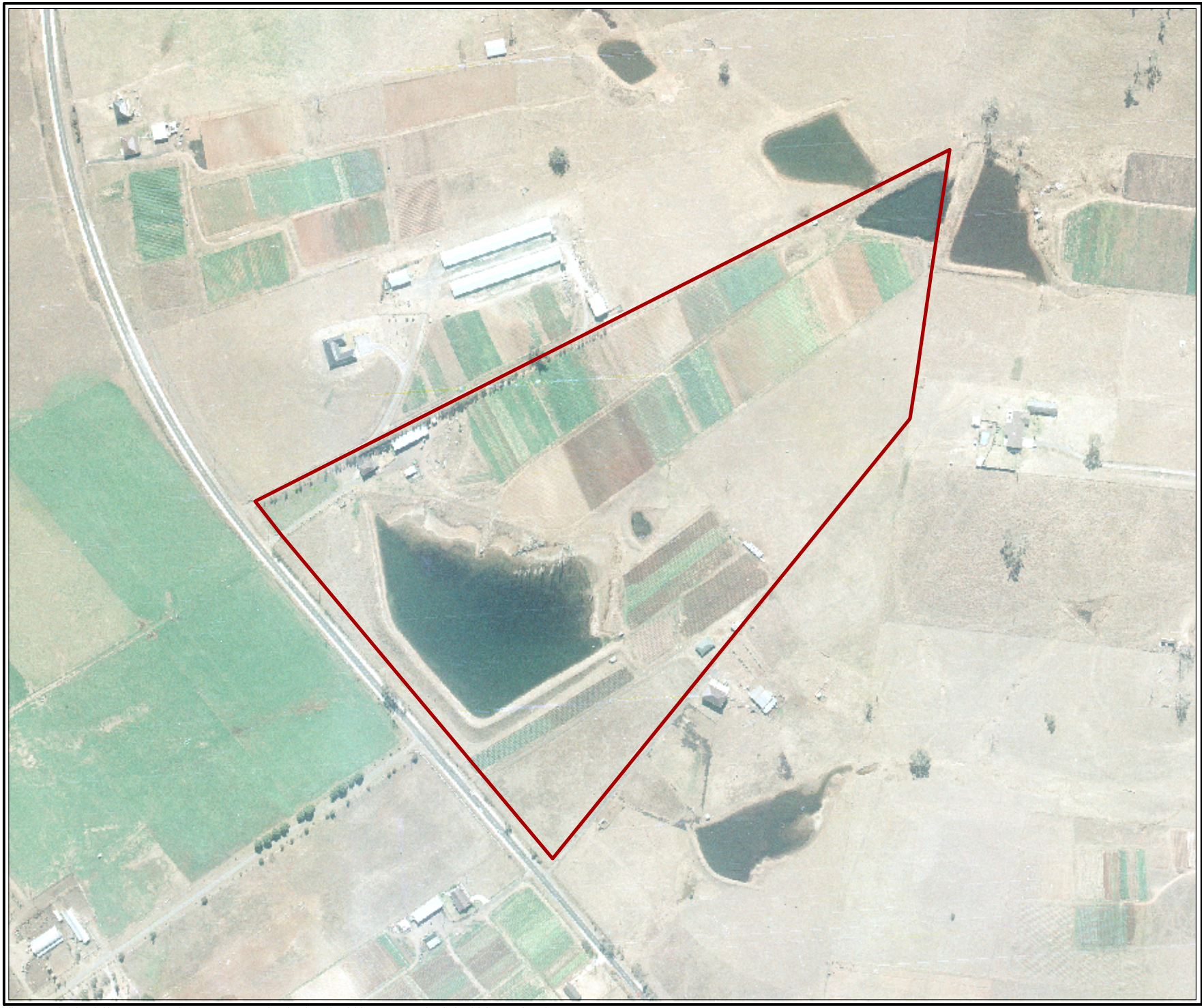
Coord. Sys. GDA 1994 MGA Zone 56

884-902 and 904-928 Mamre Road, Kemps Creek, NSW

HISTORICAL AERIAL PHOTOGRAPH - 1975

FIGURE 1975

File Name: N:\Projects\Altis Property Group\60330 884 Mamre Rd DSI\GIS\Maps\Aerials\60330_1975_HistoricalAerialPhotograph.mxd
Reference: Spatial Services - DFSI, NSW



Legend:

Approximate Site Boundary

JBS&G

Job No: 60330	
Client: Altis	
Version: Aerials	Date 21/05/2021
Drawn By: AV	Checked By: MS
Scale 1:5,000	

0 50 100

metres

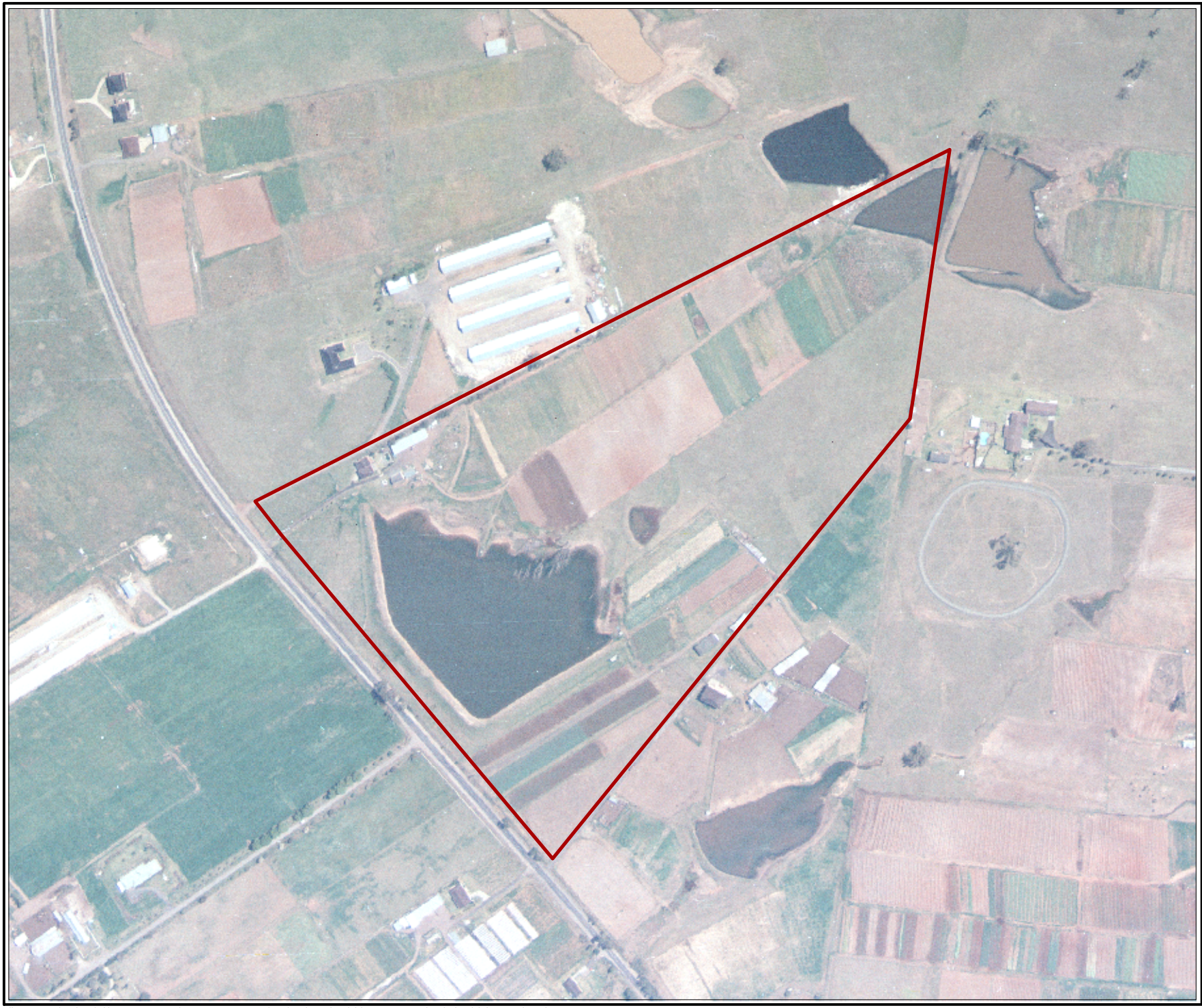
Coord. Sys. GDA 1994 MGA Zone 56

884-902 and 904-928 Mamre Road, Kemps Creek, NSW

HISTORICAL AERIAL PHOTOGRAPH - 1986

FIGURE 1986

File Name: N:\Projects\Altis Property Group\60330 884 Mamre Rd DSI\GIS\Maps\Aerials\60330_1986_HistoricalAerialPhotograph.mxd
Reference: Spatial Services - DFSI, NSW



Legend:

Approximate Site Boundary

JBS&G

Job No: 60330	
Client: Altis	
Version: Aerials	Date 21/05/2021
Drawn By: RF	Checked By: MS
Scale 1:5,000	

0 50 100

metres

Coord. Sys. GDA 1994 MGA Zone 56

884-902 and 904-928 Mamre Road, Kemps Creek, NSW

HISTORICAL AERIAL PHOTOGRAPH - 1991

FIGURE 1991

File Name: N:\Projects\Altis Property Group\60330 884 Mamre Rd DSI\GIS\Maps\Aerials\60330_1991_HistoricalAerialPhotograph.mxd
Reference: Spatial Services - DFSI, NSW



Legend:

Approximate Site Boundary

JBS&G

Job No: 60330	
Client: Altis	
Version: Aerials	Date 21/05/2021
Drawn By: RF	Checked By: MS
Scale 1:5,000	

0 50 100

metres

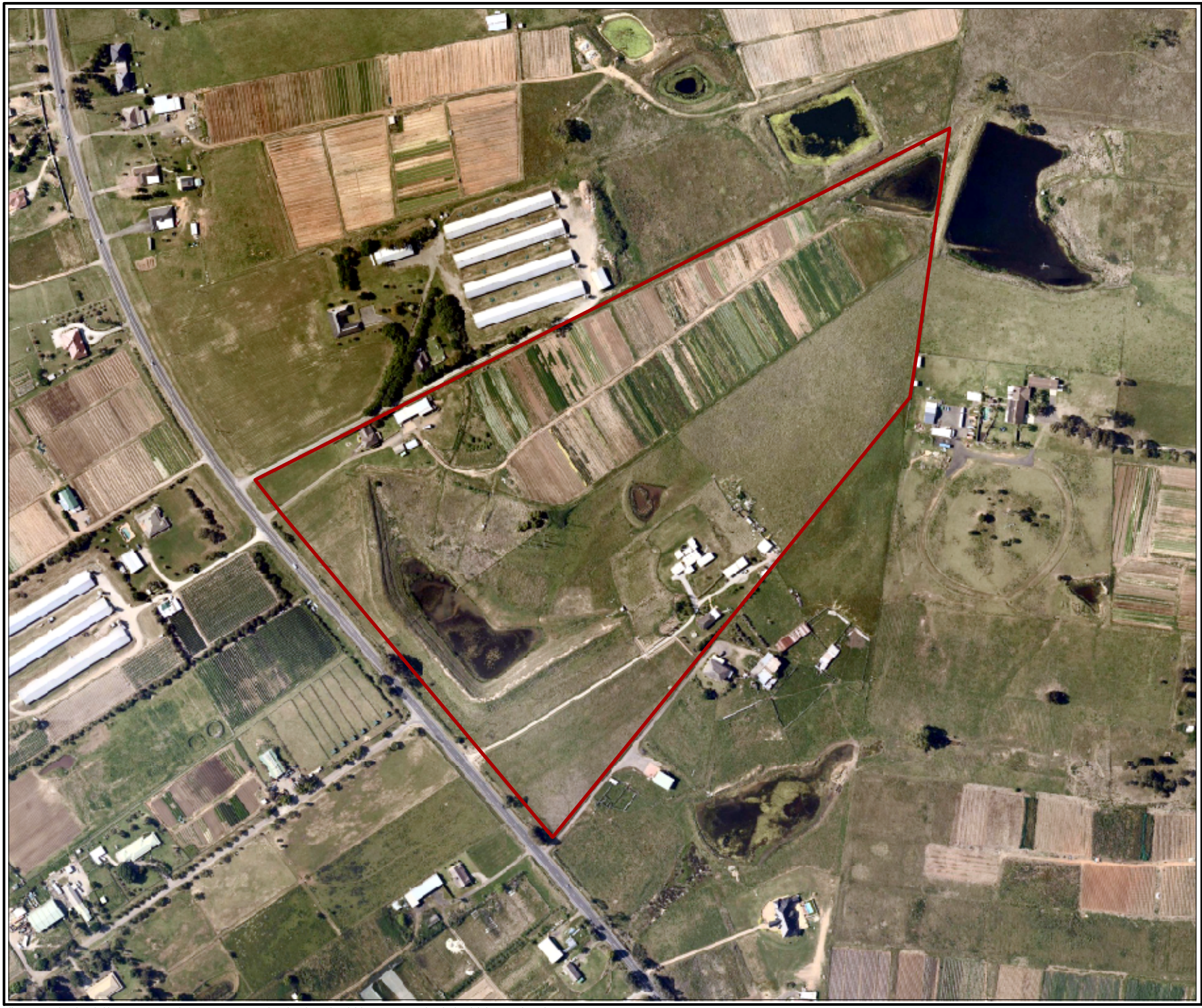
Coord. Sys. GDA 1994 MGA Zone 56

884-902 and 904-928 Mamre Road, Kemps Creek, NSW

HISTORICAL AERIAL PHOTOGRAPH - 2002

FIGURE 2002

File Name: N:\Projects\Altis Property Group\60330 884 Mamre Rd DSI\GIS\Maps\Aerials\60330_2002_HistoricalAerialPhotograph.mxd
Reference: Spatial Services - DFSI, NSW



Legend:

Approximate Site Boundary

JBS&G

Job No: 60330	
Client: Altis	
Version: Aerials	Date 21/05/2021
Drawn By: RF	Checked By: MS
Scale 1:5,000	

0 50 100

metres

Coord. Sys. GDA 1994 MGA Zone 56

884-902 and 904-928 Mamre Road, Kemps Creek, NSW

HISTORICAL AERIAL PHOTOGRAPH - 2011

FIGURE 2011

File Name: N:\Projects\Altis Property Group\60330 884 Mamre Rd DSI\GIS\Maps\Aerials\60330_2011_HistoricalAerialPhotograph.mxd
Reference: www.nearmap.com.au Imagery 20111023



Legend:

Approximate Site Boundary

JBS&G

Job No: 60330	
Client: Altis	
Version: Aerials	Date 21/05/2021
Drawn By: RF	Checked By: MS
Scale 1:5,000	

0 50 100

metres

Coord. Sys. GDA 1994 MGA Zone 56

884-902 and 904-928 Mamre Road, Kemps Creek, NSW

HISTORICAL AERIAL PHOTOGRAPH - 2020

FIGURE 2020

File Name: N:\Projects\Altis Property Group\60330 884 Mamre Rd DSI\GIS\Maps\Aerials\60330_2020_HistoricalAerialPhotograph.mxd
Reference: www.nearmap.com.au Imagery 20200803

Appendix G Historical Title Records

ABN: 36 092 724 251
Ph: 02 9099 7400
(Ph: 0412 199 304)

Level 14, 135 King Street, Sydney
Sydney 2000
GPO Box 4103 Sydney NSW 2001
DX 967 Sydney

Summary of Owners Report

LRS NSW **Sydney**

Address: - Mamre Road, Kemps Creek

Description: - Lots 52 to 58 D.P. 259135

As regards the whole of the subject land

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
21.09.1916 (1916 to 1934)	Henry Horton (Grazier) (& His deceased estate)	Vol 2656 Fol 98
28.06.1934 (1934 to 1945)	Greenfields Limited	Vol 2656 Fol 98
17.01.1945 (1945 to 1954)	Joseph Henry Bawn (Butcher) Richard Setten Stone (Butcher)	Vol 2656 Fol 98
16.02.1954 (1954 to 1968)	J.H. Bawn Pty Limited	Vol 2656 Fol 98 Now Vol 6884 Fol 54

Continued as regards Lot 52 D.P. 259135 – excluding part for road in D.P. 606341

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
25.01.1968 (1968 to 1980)	Number One Fleurs Pty Limited	Vol 6884 Fol 54 Now Vol 13940 Fol 182
21.08.1980 (1980 to 2004)	Marko Matanovic (Butcher) Milka Matanovic (Married Woman)	Vol 13940 Fol 182 Now 52/259135
16.03.2004 (2004 to date)	# Marko Matanovic (Butcher) # Milka Matanovic (Married Woman) # Ivan Matanovic	52/259135

Denotes current registered proprietors

Leases & Easements: - NIL

ABN: 36 092 724 251
Ph: 02 9099 7400
(Ph: 0412 199 304)

Level 14, 135 King Street, Sydney
Sydney 2000
GPO Box 4103 Sydney NSW 2001
DX 967 Sydney

Continued as regards Lot 53 D.P. 259135 – excluding part for road in D.P. 606341

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
25.01.1968 (1968 to 1980)	Number One Fleurs Pty Limited	Vol 6884 Fol 54 Now Vol 13940 Fol 183
17.10.1980 (1980 to date)	# Percival Bartolo (Market Gardener) # Mary Bartolo (Married Woman)	Vol 13940 Fol 183 Now 53/259135

Denotes current registered proprietors

Leases & Easements: - NIL

Continued as regards Lot 54 D.P. 259135

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
25.01.1968 (1968 to 1980)	Number One Fleurs Pty Limited	Vol 6884 Fol 54 Now Vol 13940 Fol 184
14.02.1980 (1980 to 1985)	Myner Pty Limited	Vol 13940 Fol 184
17.06.1985 (1985 to date)	# Michael Vincent Borg # Mary Victoria Borg	Vol 13940 Fol 184 Now 54/259135

Denotes current registered proprietors

Leases & Easements: - NIL

Continued as regards Lot 55 D.P. 259135

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
25.01.1968 (1968 to 1980)	Number One Fleurs Pty Limited	Vol 6884 Fol 54 Now Vol 13940 Fol 185
21.02.1980 (1980 to date)	# Pasquale Maltese (Farmer) # Concetta Maltese (Married Woman)	Vol 13940 Fol 185 Now 55/259135

Denotes current registered proprietors

Leases & Easements: - NIL

ABN: 36 092 724 251
Ph: 02 9099 7400
(Ph: 0412 199 304)

Level 14, 135 King Street, Sydney
Sydney 2000
GPO Box 4103 Sydney NSW 2001
DX 967 Sydney

Continued as regards Lot 56 D.P. 259135 – excluding part for road in D.P. 606341

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
25.01.1968 (1968 to 1980)	Number One Fleurs Pty Limited	Vol 6884 Fol 54 Now Vol 13940 Fol 186
13.02.1980 (1980 to date)	# Angelo Perri (Hairdresser) #Antonio Perri (Student) # Emilia Ierufi (Widow)	Vol 13940 Fol 186 Now 56/259135

Denotes current registered proprietors

Leases & Easements: - NIL

Continued as regards Lot 57 D.P. 259135 – excluding part for road in D.P. 606341

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
25.01.1968 (1968 to 1980)	Number One Fleurs Pty Limited	Vol 6884 Fol 54 Now Vol 13940 Fol 187
28.07.1980 (1980 to 1984)	Exotic Livestock Aust Pty Limited	Vol 13940 Fol 187
13.04.1984 (1984 to date)	# Benito Vitalone # Francesca Vitalone	Vol 13940 Fol 187 Now 57/259135

Denotes current registered proprietors

Leases & Easements: - NIL

ABN: 36 092 724 251
Ph: 02 9099 7400
(Ph: 0412 199 304)

Level 14, 135 King Street, Sydney
Sydney 2000
GPO Box 4103 Sydney NSW 2001
DX 967 Sydney

Continued as regards Lot 57 D.P. 259135 – excluding part for road in D.P. 606341

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
25.01.1968 (1968 to 1980)	Number One Fleurs Pty Limited	Vol 6884 Fol 54 Now Vol 13940 Fol 188
28.07.1980 (1980 to 1982)	Exotic Livestock Aust Pty Limited	Vol 13940 Fol 188
22.10.1982 (1982 to 1997)	Giuseppe Demasi Alfonza Demasi	Vol 13940 Fol 188 Now 58/259135
18.11.1997 (1997 to date)	# Diab Finianos # Sayde Finianos	58/259135

Denotes current registered proprietors

Easements: - NIL

Leases: -

- 25.08.1993 (I 590218) – expired due to effluxion of time – not investigated

---

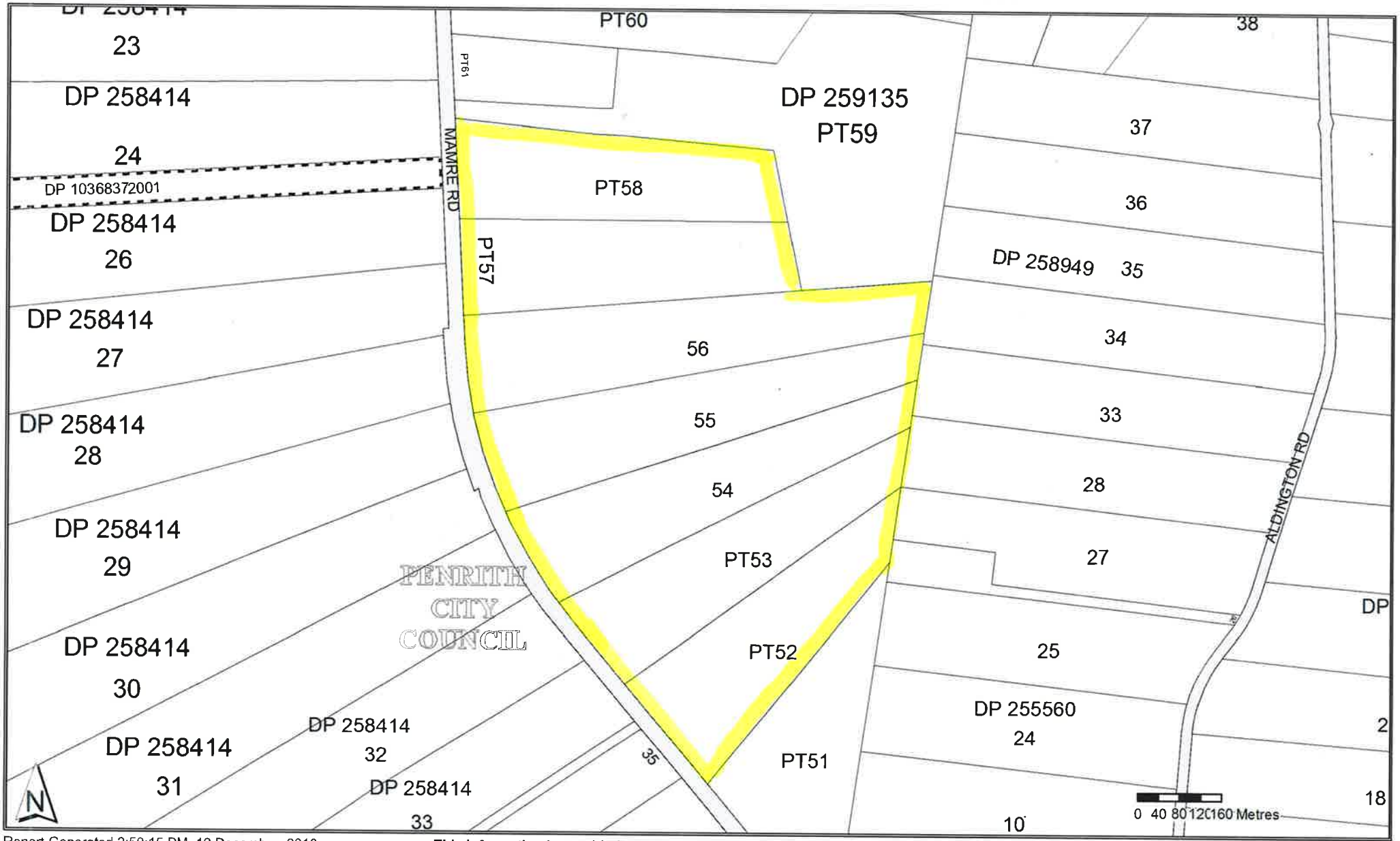
Yours Sincerely,
Mark Groll
12 December 2018

LAND REGISTRY SERVICES

Cadastral Records Enquiry Report : Lot 55 DP 259135

Locality : KEMPS CREEK
LGA : PENRITH
Parish : MELVILLE
County : CUMBERLAND

Ref : CMapIT



Report Generated 2:50:15 PM, 12 December, 2018
Copyright © Crown in right of New South Wales, 2017

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

InfoTrack

InfoTrack

Req:R719701 /Doc:DP 0606341 P /Rev:31-Dec-1992 /Sts:OK.OK /Pgs:ALL /Prt:12-Dec-2018 14:29 /Seq:1 of 1
Ref:kemps creek /Src:M

PLAN FORM 2 — Plan Drawing only to appear in this space — * OFFICE USE ONLY

Signatures and seals only

D. P. 606341

Registered: 22.11.1979

C.A. No 54490 OF 28.9.1979

Title System: TORRENS

Purpose: ROAD

Ref. Map: PARISH

Last Plan: D. P. 259135*

PLAN OF ROAD WIDENING WITHIN LOTS 51-53 INCL. & LOTS 56-61 INCL. D. P. 259135

Reduction Ratio 1 : 4000
Lengths are in metres

Municipality / City: PENRITH

Locality: SOUTH ST MARYS

Parish: MELVILLE

County: CUMBERLAND

This is sheet 1 of my plan in ... sheets.
(Delete if inapplicable)

I, BARRY WILLIAM GARDNER of PRIDDLE & GARDNER 426 PACIFIC HWY LINDFIELD, a surveyor registered under the Surveyors Act, 1929, as amended, hereby certify that the survey represented in this plan is COMPILED FROM D.P. 259135.

21ST AUGUST 1979

Signature

Surveyor registered under Surveyors Act, 1929, as amended.
*Delete 2 cms of distance
*Delete sub section (1) or (2). Consent date of survey

Panel for use only for statements of intention to dedicate public roads or to create public reserves, drainage reserves, easements or restrictions as to user

IT IS INTENDED TO DEDICATE THE AREAS — 3695m², 2554m², 1608m², 920·3m², 1803m², 1867m², 338·4m², 1219m² & 1718m² TO THE PUBLIC AS ROAD.

Council Clerk's Certificate 96/79

I hereby certify that :

(a) the requirements of the Local Government Act, 1919 (other than the requirements for the registration of plans), and

*(b) the requirements of section 348 of the Metropolitan Water, Sewerage and Drainage Act, 1924, as amended, Hawkesbury District Water, Sewerage, and Drainage Act, 1938, as amended

have been complied with by the applicant in relation to the proposed Road Widening

Subdivision No. S. 44490

Date 28-9-79

Council Clerk

*This part of certificate to be deleted where the application is only for a consolidation not on the opening of a new road or where the land to be subdivided is wholly outside the area of operations of the Metropolitan Water, Sewerage and Drainage Board and the Hawkesbury District Water Board.
*Delete if inapplicable.

MPD

WARNING: CREASING OR FOLDING WILL LEAD TO REJECTION

SURVEYOR'S REFERENCE: FLEURS P.N.D.W.

I, Bruce Richard Davies, Registrar General for New South Wales, certify that this negative is a photograph made as a permanent record of a document in my custody this 30th day of November, 1979

D. P. 606341

Req:R719613 /Doc:CT 10884-223 CT /Rev:14-Jan-2011 /Sts:OK.SC /Pgs:ALL /Prt:12-Dec-2018 14:23
Ref:kemps creek /Src:M

[redacted]

10884223

NEW SOUTH WALES

ICATE OF TITLE

PERTY ACT, 1900, as amended.

Appln. No.7336

Vol. 10884 Fol. 223

Prior Title Vol.6886 Fol. 54

Edition issued 11-9-1968

AS K943629 **CANCELLED**

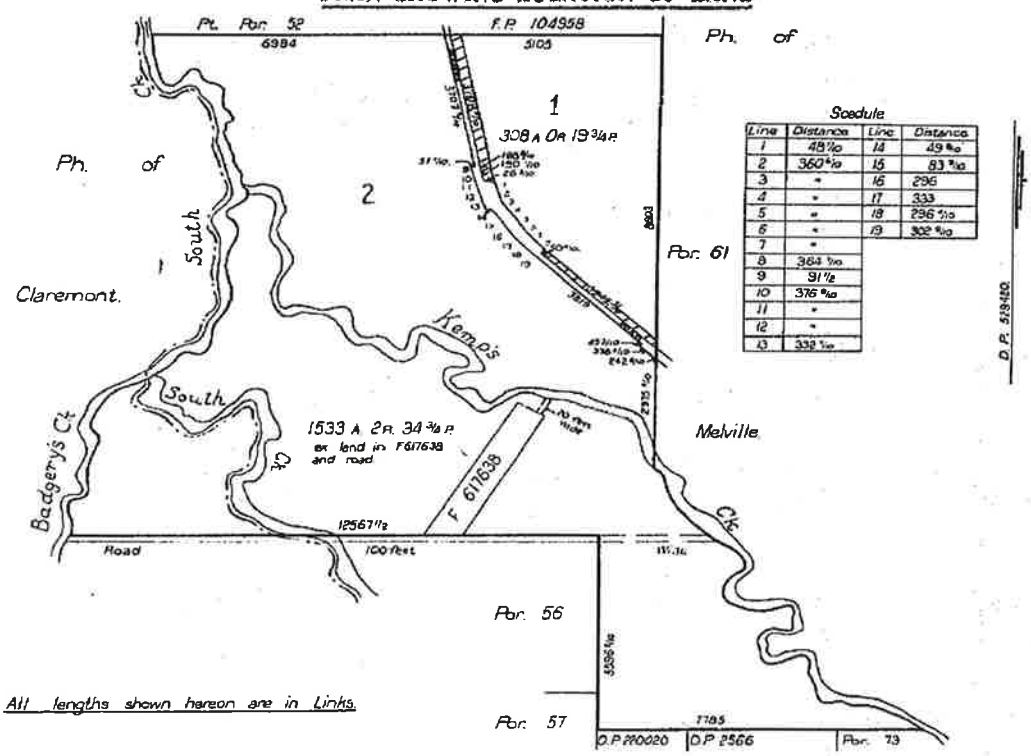
I certify that the person described in the First Schedule is the registered proprietor of the undermentioned estate in the land within described subject nevertheless to such exceptions encumbrances and interests as are shown in the Second Schedule.

Witness L. Bellinger

Registrar General.

(Page 1) Vol. 10884 Fol. 223

PLAN SHOWING LOCATION OF LAND



Scedule

Line	Distance	Line	Distance
1	48 ½	14	49 ½
2	360 ½	15	83 ½
3	"	16	296
4	"	17	333
5	"	18	296 ½
6	"	19	302 ½
7	"		
8	384 ½		
9	91 ½		
10	376 ½		
11	"		
12	"		
13	338 ½		

ESTATE AND LAND REFERRED TO

Estate in Fee Simple in Lot 1 in Deposited Plan 529420 in the City of Penrith Parish of Melville and County of Cumberland being part of Portions 53 and 55 granted to Richard Fitzgerald and Nicholas Bayly respectively on 18-12-1805 and part of Portion 54 granted to Nicholas Bayly on 1-1-1810.

FIRST SCHEDULE (continued overleaf)

NUMBER ONE FLEURS PTY. LIMITED.

SECOND SCHEDULE (continued overleaf)

1. Reservations and conditions, if any, contained in the Crown Grants above referred to.
2. ~~Mortgage No.G104014 to The Commercial Bank of Australia Limited. Entered 6-12-1954.~~
3. Restriction on User No.H107598 of land shown by hatching in plan hereon. See Section 27E (6) Main Roads Act, 1924. Entered 2-4-1959.

Registrar General

PERSONS ARE CAUTIONED AGAINST ALTERING OR ADDING TO THIS CERTIFICATE OR ANY NOTIFICATION HEREON

WARNING: THIS DOCUMENT MUST NOT BE REMOVED FROM THE LAND TITLES OFFICE.

NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR GENERAL ARE CANCELLED.

Req:R719613 /Doc:CT 10884-223 CT /Rev:14-Jan-2011 /Sts:OK.SC /Pgs:ALL /Prt:12-Dec-2018 14:23
Ref:kemps creek /Src:M

V. C. N. BLIGHT, GOVERNMENT PRINTER

Vol. 10884 Fol 223

FIRST SCHEDULE (continued)

REGISTERED PROPRIETOR	INSTRUMENT NATURE	INSTRUMENT NUMBER	INSTRUMENT DATE	ENTERED	Signature of Registrar-General
This deed is cancelled as to the whole New certificates of Title have issued on 17-9-1974 for lots in ~~Deposited~~ Plan No 259135 ~~as follows:~~ Lots ~~51 to 61~~ of 13940 Fol 181 to 191 respectively. REGISTRAR GENERAL NEW CERTIFICATE(S) OF TITLE ISSUING ON DP259135 NO DEALING TO BE REGISTERED WITHOUT REFERENCE TO SURVEY DRAFTING BRANCH.					

K943630 E 2/9/75
IX.7.7279
M826978 M/g
N8 8 v/m R
P284317 Caveat
P412531 W/d
CT 18.1.77
065730 Discharge

SECOND SCHEDULE (continued)

INSTRUMENT NATURE	INSTRUMENT NUMBER	INSTRUMENT DATE	PARTICULARS	ENTERED	Signature of Registrar-General	CANCELLATION		
~~Mortgage~~	~~K743630~~	~~25-1-1968~~	~~To J. H. Brown Pty. Limited~~	~~1-10-1968~~		Discharged	Q629196	
~~Mortgage~~	~~L571589~~	~~22-7-1969~~	~~to Australia and New Zealand Bank Limited~~	~~24-9-1969~~		Discharged	Q65730	
~~Mortgage~~	~~M826978~~	~~6-6-1972~~	~~to Midland Credit Limited~~	~~4-8-1972~~		Discharged	Q918131	
~~Caveat~~	~~P284317~~			~~12-6-1975~~		Withdrawn	P412531	
~~Mortgage~~	Q629199		to Australia and New Zealand Banking Group Limited	11-4-1978				
~~Mortgage~~	~~M826978~~		Priority now being Q629199, M826978 see further memorial					
~~Mortgage~~	~~Q629199~~		Q629199.	11-4-1978		Cancelled	Q918131	
Mortgage	Q918133	—	to Finance Corporation of Australia Limited	9-5-1979				
			Interests created pursuant to Section 88B Conveyancing Act, 1919, by the registration of Deposited Plan 259135	31-7-1979				

Q629196 Dm 199 M 198 P/d/m
Q918131 D/m -2D/m 0 -3 M
DP 259135

(Page 2 of 2 pages)

NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR-GENERAL ARE CANCELLED

Req:R719507 /Doc:CT 13940-182 CT /Rev:28-Feb-2011 /Sts:OK.SC /Pgs:ALL /Prt:12-Dec-2018 14:14
Ref:kemps creek /Src:M

CERTIFICATE OF TITLE

NEW SOUTH WALES

PROPERTY ACT, 1900

13940182

Vol. 13940 Fol. 182

Appln. No.7336

Prior Title Vol.10884 Fol.223

EDITION ISSUED

17 9 1979

I certify that the person described in the First Schedule is the registered proprietor of the undermentioned estate in the land within described subject nevertheless to such exceptions encumbrances and interests as are shown in the Second Schedule.

CANCELLED

Registrar General.

SEE AUTO FOLIO

(Page 1) Vol. 13940 Fol. 182

PLAN SHOWING LOCATION OF LAND

LENGTHS ARE IN METRES

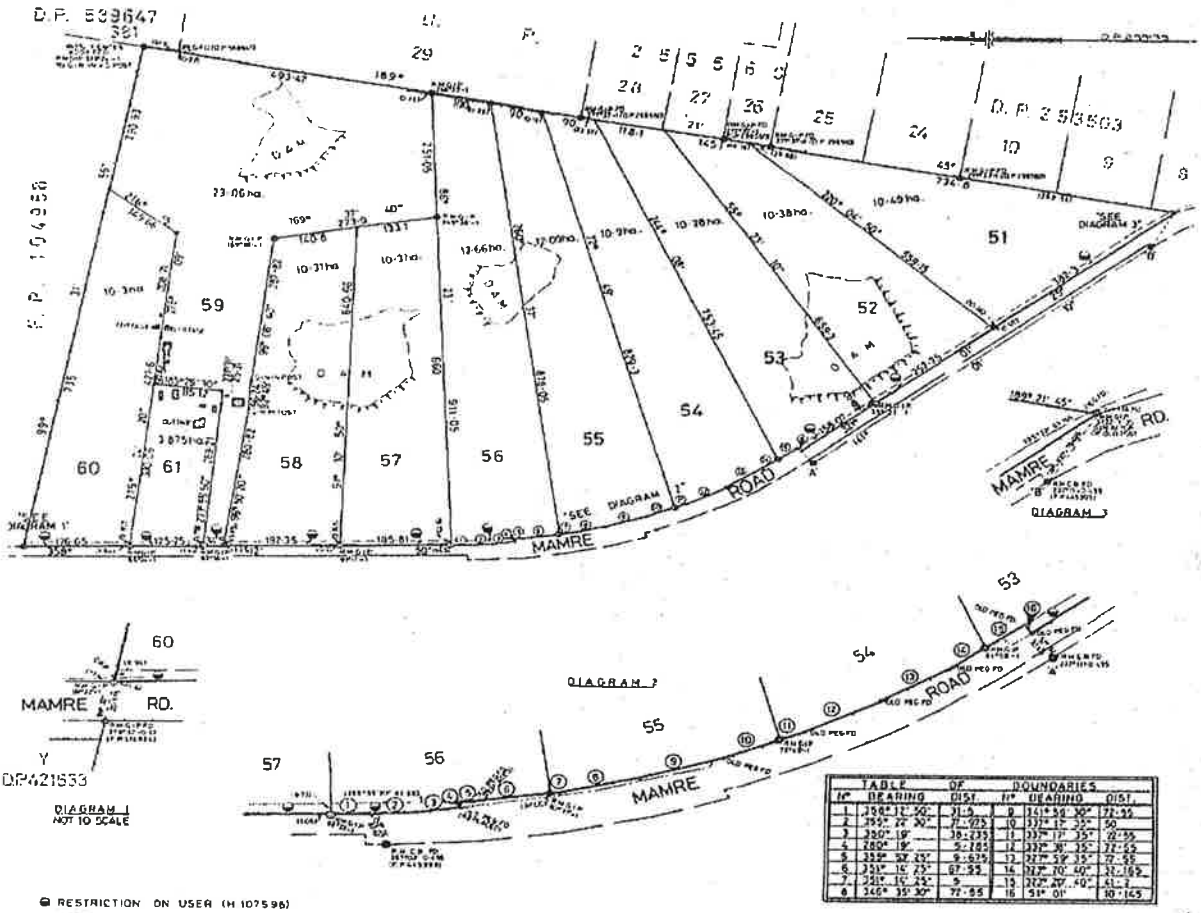


TABLE OF BOUNDARIES					
No.	BEARING	DIST.	No.	BEARING	DIST.
1	350° 12' 50"	21.5	9	341° 58' 30"	72.55
2	359° 22' 30"	71.175	10	333° 12' 35"	50
3	330° 18'	38.235	11	332° 12' 35"	22.55
4	280° 18'	5.185	12	332° 36' 35"	72.55
5	332° 52' 25"	9.625	13	332° 52' 35"	22.55
6	351° 14' 25"	67.55	14	332° 20' 40"	32.165
7	351° 14' 25"	5	15	332° 20' 40"	41.7
8	340° 35' 30"	72.55	16	51° 01'	10.165

ESTATE AND LAND REFERRED TO

Estate in Fee Simple in Lot 52 in Deposited Plan 259135 at South St.Marys in the City of Penrith Parish of Melville and County of Cumberland being part of Portion 54 granted to Nicholas Bayly on 1-1-1810.

FIRST SCHEDULE

~~NUMBER ONE FLEURS PTY. LIMITED.~~

SECOND SCHEDULE

1. Reservations and conditions, if any, contained in the Crown Grant above referred to.
2. ~~H107598 Restriction as to user (see section 27E(6) Main Roads Act, 1924) affecting the part of the land above described shown so burdened in Deposited Plan 259135~~ cancelled DP606241.
3. ~~Q629199 Mortgage to Australia and New Zealand Banking Group Limited.~~ discharged R721151
4. ~~Q918133 Mortgage to Finance Corporation of Australia Limited.~~ Discharged R645934.
5. DP259135 Restriction as to user.

NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR GENERAL ARE CANCELLED

RG 2/62

PERSONS ARE CAUTIONED AGAINST ALTERING OR ADDING TO THIS CERTIFICATE OR ANY NOTIFICATION HEREON

WARNING: THIS DOCUMENT MUST NOT BE REMOVED FROM THE REGISTRAR GENERAL'S OFFICE.

Vol. 13940 Fol. 182

FIRST SCHEDULE (continued)

REGISTERED PROPRIETOR	INSTRUMENT NATURE	INSTRUMENT NUMBER	REGISTERED	Signature of Registrar General
Marko Matanovic of St. Marys, Butcher and Milka Matanovic his wife as joint tenants	Transfer	R994528	21-8-1980	

R645934 Dm
R921151 DM
R994528 T
S422463M

SECOND SCHEDULE (continued)

INSTRUMENT NATURE	INSTRUMENT NUMBER	PARTICULARS	REGISTERED	Signature of Registrar General	CANCELLATION	
AA		The interest of the Council of the City of Penrith in the addition to existing road shown on D.P. 606341	22-11-1979			
M	S422463	Mortgage to Commonwealth Savings Bank of Australia. Registered 28-4-1981.				

(Page 2 of 2 pages)

NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR GENERAL ARE CANCELLED

Req:R719507 /Doc:CT 13940-182 CT /Rev:28-Feb-2011 /Sts:OK.SC /Pgs:ALL /Prt:12-Dec-2018 14:14
Ref:kemps creek /Src:M

LAND REGISTRY SERVICES — Historical Title

NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE
26/11/2018 11:17AM

FOLIO: 52/259135

First Title(s): SEE PRIOR TITLE(S)
Prior Title(s): VOL 13940 FOL 182

Recorded	Number	Type of Instrument	C.T. Issue
5/6/1987		TITLE AUTOMATION PROJECT	LOT RECORDED FOLIO NOT CREATED
28/9/1987		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED
29/6/1988	X651228	DISCHARGE OF MORTGAGE	EDITION 1
18/11/1993		AMENDMENT: LOCAL GOVT AREA	
23/6/1994	U378379	CHANGE OF NAME	EDITION 2
16/3/2004	AA498129	TRANSFER	EDITION 3
11/3/2013	AH601743	DEPARTMENTAL DEALING	

*** END OF SEARCH ***

kemps

PRINTED ON 26/11/2018

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Received: 26/11/2018 11:17:46

Req:R719687 /Doc:DL AA498129 /Rev:17-Mar-2004 /Sts:NO.OK /Pgs:ALL /Prt:12-Dec-2018 14:28 /Seq:1 of 1
Ref:kemps /Src:M

Form: 01T
Release: 2
www.lpi.nsw.gov.au

TRANSFER

New South Wales
Real Property Act 1900

AA498129L

PRIVACY NOTE: this information is legally required and will [illegible]

STAMP DUTY

Office of State Revenue use only

NEW SOUTH WALES DUTY
09-03-2004 0001869750-001
TRANSFER- TRANSFER
DUTIABLE AMOUNT $ **********44,000.00
DUTY $ ************660.00

(A) **TORRENS TITLE** Folio Identifier 52/259135

(B) **LODGED BY**

Delivery Box	Name, Address or DX and Telephone	CODES
1029S	Astley Thompson Cox DX 8046 Penrith Reference: HP:sb:20026766	T TW (Sheriff)

(C) **TRANSFEROR** MARKO MATANOVIC & MILKA MATANOVIC

(D) **CONSIDERATION** The transferor acknowledges receipt of the consideration of $ 1.00 and as regards

(E) **ESTATE** the land specified above transfers to the transferee an estate in fee simple

(F) **SHARE TRANSFERRED**

(G) Encumbrances (if applicable):

(H) **TRANSFEREE** MARKO MATANOVIC & MILKA MATANOVIC as joint tenants as to 96/100 share
and
IVAN MATANOVIC as to 4/100 share as tenants in common

(I) **TENANCY:**

(J) **DATE** 8th March 2004

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 witness:

Name of witness: GRAEME JOHN HOCKLEY
Address of witness: 61-79 HENRY STREET PENRITH
SOLICITOR

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

Signature of transferor: Marko Matanovic

Milka Matanovic

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 witness:

Name of witness: HELEN MARY PEARSE
Address of witness: 36 Woodriff St, PENRITH

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

Signature of transferee: Ivan M. Tanovic

All handwriting must be in block capitals.

Land and Property Information NSW.

LAND REGISTRY SERVICES Title Search

InfoTrack

NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

FOLIO: 52/259135

SEARCH DATE	TIME	EDITION NO	DATE
12/12/2018	2:29 PM	3	16/3/2004

LAND

LOT 52 IN DEPOSITED PLAN 259135
AT SOUTH ST.MARYS
LOCAL GOVERNMENT AREA PENRITH
PARISH OF MELVILLE COUNTY OF CUMBERLAND
TITLE DIAGRAM DP259135

FIRST SCHEDULE

MARKO MATANOVIC
MILKA MATANOVIC
AS JOINT TENANTS IN 96/100 SHARE
IVAN MATANOVIC
IN 4/100 SHARE
AS TENANTS IN COMMON (T AA498129)

SECOND SCHEDULE (3 NOTIFICATIONS)

1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
2 DP259135 RESTRICTION(S) ON THE USE OF LAND
* 3 THE INTEREST(S) OF THE COUNCIL OF THE CITY OF PENRITH IN ADDITION TO EXISTING ROAD SHOWN ON DP606341

NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

kemps creek PRINTED ON 12/12/2018

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Received: 12/12/2018 14:29:15

Req:R719509 /Doc:CT 13940-183 CT /Rev:28-Feb-2011 /Sts:OK.OK /Pgs:ALL /Prt:12-Dec-2018 14:14
Ref:kemps creek /Src:M

CERTIFICATE OF TITLE

NEW SOUTH WALES

PROPERTY ACT, 1900

13940/183

Vol. 13940 Fol. 183

Appln. No.7336

Prior Title Vol.10884 Fol.223

EDITION ISSUED

17 9 1979

(Page 1) Vol. 13940 Fol. 183

I certify that the person described in the First Schedule is the registered proprietor of the undermentioned estate in the land within described subject nevertheless to such exceptions encumbrances and interests as are shown in the Second Schedule.

CANCELLED

Registrar General.

PLAN SHOWING LOCATION OF LAND

SEE AUTO FOLIO

LENGTHS ARE IN METRES

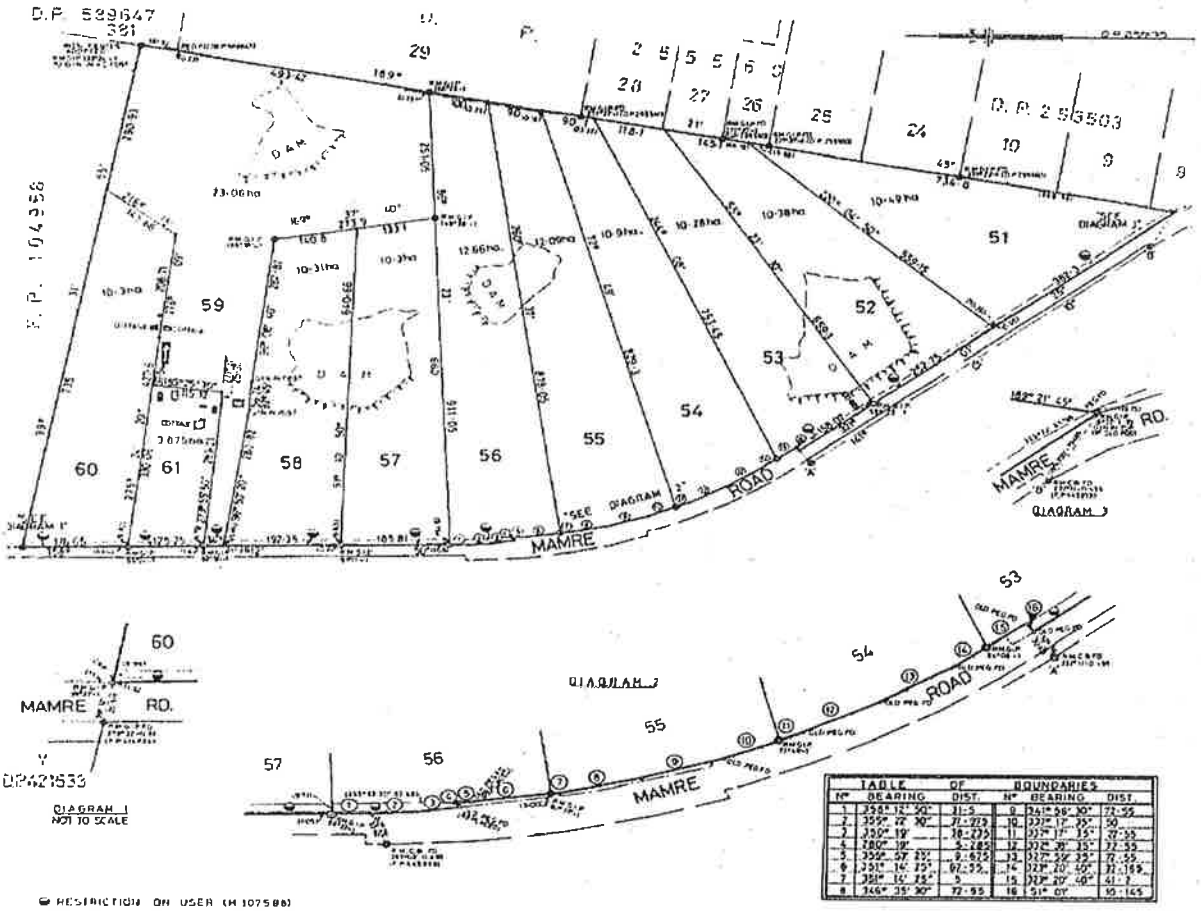


TABLE OF BOUNDARIES					
N°	BEARING	DIST.	N°	BEARING	DIST.
1	358° 12' 30"	31.5	9	241° 56' 30"	72.55
2	359° 12' 30"	71.979	10	239° 17' 55"	50
3	330° 19'	38.225	11	237° 17' 55"	72.55
4	280° 19'	5.485	12	237° 39' 35"	72.55
5	350° 57' 25"	9.675	13	237° 59' 35"	72.55
6	351° 14' 25"	92.52	14	237° 20' 40"	72.169
7	351° 14' 25"	5	15	237° 20' 40"	41.1
8	346° 35' 30"	72.55	16	51° 0'	10.165

RESTRICTION ON USER (H 107598)

ESTATE AND LAND REFERRED TO

Estate in Fee Simple in Lot 53 in Deposited Plan 259135 at South St.Marys in the City of Penrith Parish of Melville and County of Cumberland being part of Portion 54 granted to Nicholas Bayly on 1-1-1810.

FIRST SCHEDULE

~~NUMBER ONE FIBRES PTY. LIMITED.~~

SECOND SCHEDULE

GRY 1. Reservations and conditions, if any, contained in the Crown Grant above referred to.
2. ~~H107598 Restriction as to user (see section 27E(6) Main Roads Act, 1924) affecting the part of the land above described shown so burdened in Deposited Plan 259135.~~ Cancelled DP 662941
3. ~~Q629199 Mortgage to Australia and New Zealand Banking Group Limited~~ discharged R910151
4. ~~Q918133 Mortgage to Finance Corporation of Australia Limited.~~ Discharged R645934.
RM 5. DP259135 Restriction as to user.

RG 2/62

NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR GENERAL ARE CANCELLED

PERSONS ARE CAUTIONED AGAINST ALTERING OR ADDING TO THIS CERTIFICATE OR ANY NOTIFICATION HEREON

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Ref:kemps creek /Src:M

Vol. 13940 Fol. 183

FIRST SCHEDULE (continued)

REGISTERED PROPRIETOR	INSTRUMENT NATURE	INSTRUMENT NUMBER	REGISTERED	Signature of Registrar General
Percival Bartolo of Austral, Market Gardener and Mary Bartolo his wife, as joint tenants	Transfer	S935505	17-10-1980	

R645934 Dm R
R921151 Dm R
R935505 Te R
(~~Ex DP 606341~~)

SECOND SCHEDULE (continued)

INSTRUMENT NATURE	INSTRUMENT NUMBER	PARTICULARS	REGISTERED	Signature of Registrar General	CANCELLATION	
		The interest of the Council of the City of Penrith in the addition to existing road shown on D.P 606341	22.11.1979			

NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR GENERAL ARE CANCELLED

LAND REGISTRY SERVICES

Historical Title

InfoTrack

NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE
26/11/2018 11:17AM

FOLIO: 53/259135

First Title(s): SEE PRIOR TITLE(S)
Prior Title(s): VOL 13940 FOL 183

Recorded	Number	Type of Instrument	C.T. Issue
5/6/1987		TITLE AUTOMATION PROJECT	LOT RECORDED FOLIO NOT CREATED
28/9/1987		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED
18/11/1993		AMENDMENT: LOCAL GOVT AREA	
13/11/2007	AD560942	CAVEAT	
14/2/2012	AG810891	WITHDRAWAL OF CAVEAT	
11/3/2013	AH601743	DEPARTMENTAL DEALING	

*** END OF SEARCH ***

kemps

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Received: 26/11/2018 11:17:46

LAND REGISTRY SERVICES **Title Search** InfoTrack

NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

FOLIO: 53/259135

SEARCH DATE	TIME	EDITION NO	DATE
12/12/2018	2:29 PM	-	-

VOL 13940 FOL 183 IS THE CURRENT CERTIFICATE OF TITLE

LAND

LOT 53 IN DEPOSITED PLAN 259135
AT SOUTH ST.MARYS
LOCAL GOVERNMENT AREA PENRITH
PARISH OF MELVILLE COUNTY OF CUMBERLAND
TITLE DIAGRAM DP259135

FIRST SCHEDULE

PERCIVAL BARTOLO
MARY BARTOLO
AS JOINT TENANTS (T S935505)

SECOND SCHEDULE (3 NOTIFICATIONS)

1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
2 DP259135 RESTRICTION(S) ON THE USE OF LAND
* 3 THE INTEREST(S) OF THE COUNCIL OF THE CITY OF PENRITH IN ADDITION TO EXISTING ROAD SHOWN ON DP606341

NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

kemps creek PRINTED ON 12/12/2018

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Req:R719510 /Doc:CT 13940-184 CT /Rev:28-Feb-2011 /Sts:OK.SC /Pgs:ALL /Prt:12-Dec-2018 14:14
Ref:kemps creek /Src:M

[redacted]

ICATE OF TITLE

NEW SOUTH WALES

L PROPERTY ACT, 1900

13940184

Vol. 13940 Fol. 184

Appln. No.7336

Prior Title Vol.10884 Fol.223

EDITION ISSUED

17 9 1979

(Page 1) Vol. 13940 Fol. 184

I certify that the person described in the First Schedule is the registered proprietor of the undermentioned estate in the land within described subject nevertheless to such exceptions encumbrances and interests as are shown in the Second Schedule.

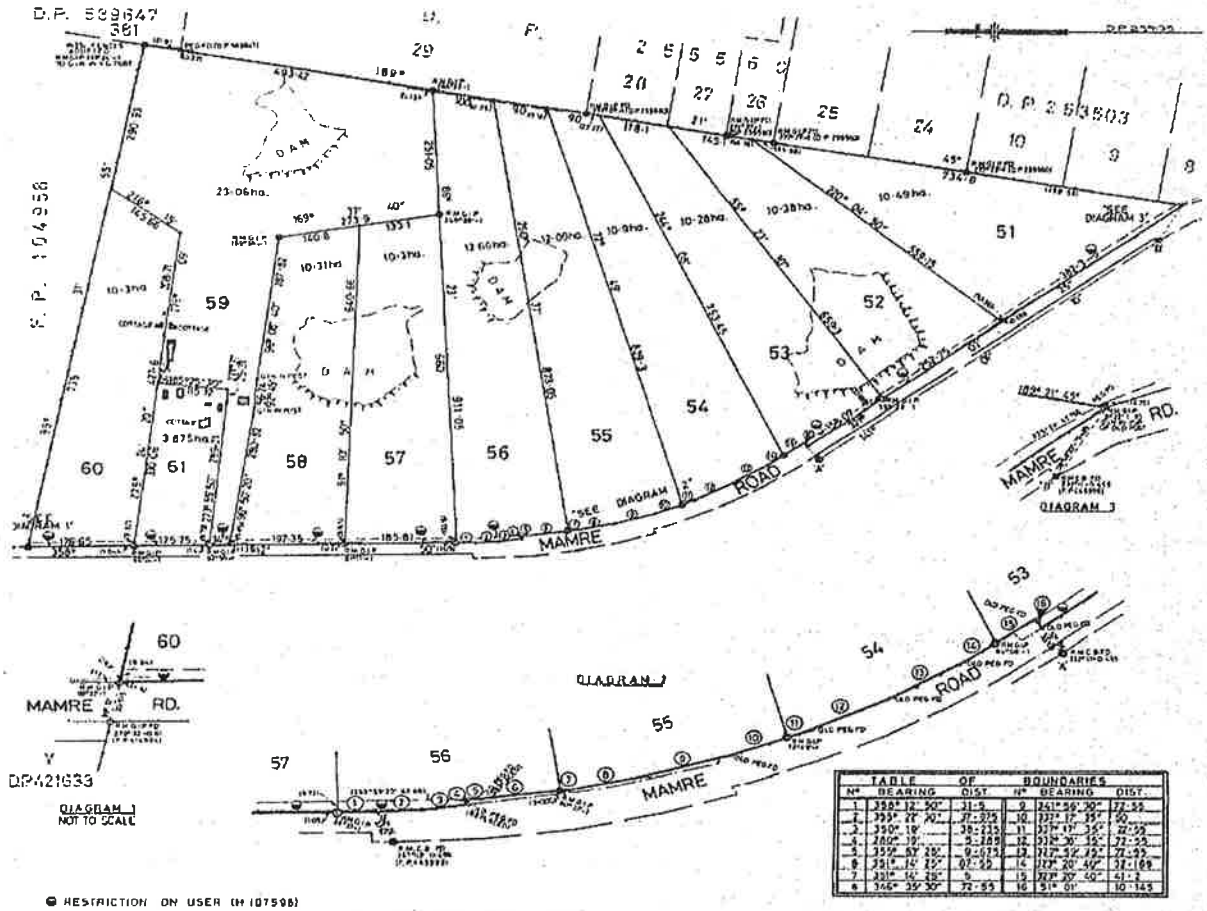
CANCELLED

Registrar General.

SEE AUTO FOLIO

PLAN SHOWING LOCATION OF LAND

LENGTHS ARE IN METRES



RESTRICTION ON USER (H 107598)

S

ESTATE AND LAND REFERRED TO

Estate in Fee Simple in Lot 54 in Deposited Plan 259135 at South St.Marys in the City of Penrith Parish of Melville and County of Cumberland being part of Portion 54 granted to Nicholas Bayly on 1-1-1810.

FIRST SCHEDULE

~~NUMBER ONE FLEURS PTY LIMITED.~~

SECOND SCHEDULE

GRY

1. Reservations and conditions, if any, contained in the Crown Grant above referred to.
2. ~~Q629199 Mortgage to Australia and New Zealand Banking Group Limited.~~ Discharged R658461
3. ~~Q910133 Mortgage to Finance Corporation of Australia Limited.~~ Discharged R658460

RG 2/62

NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR GENERAL ARE CANCELLED

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Vol. 13940 Fol. 184

FIRST SCHEDULE (continued)

REGISTERED PROPRIETOR	INSTRUMENT NATURE	INSTRUMENT NUMBER	REGISTERED	~~Signature of~~ Registrar General
~~Myner Pty. Limited~~ Michael Vincent Borg and Mary Victoria Borg as joint tenants by Transfer V738605. Registered 17-6-1985.	~~Transfer~~	~~R658462~~	~~14-2-1980~~	

A658460 - 1 - 2 - 3
V436061 as
V738605T

SECOND SCHEDULE (continued)

INSTRUMENT NATURE	INSTRUMENT NUMBER	PARTICULARS	REGISTERED	~~Signature of~~ Registrar General	CANCELLATION	
~~Mortgage~~	~~B658463~~	~~to Bank of New South Wales~~	14-2-1980		Discharged	V436061

(Page 2 of 2 pages)

NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR GENERAL ARE CANCELLED

Req:R719510 /Doc:CT 13940-184 CT /Rev:28-Feb-2011 /Sts:OK.SC /Pgs:ALL /Prt:12-Dec-2018 14:14
Ref:kemps creek /Src:M

Historical Title

NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE
26/11/2018 11:17AM

FOLIO: 54/259135

First Title(s): SEE PRIOR TITLE(S)
Prior Title(s): VOL 13940 FOL 184

Recorded	Number	Type of Instrument	C.T. Issue
5/6/1987		TITLE AUTOMATION PROJECT	LOT RECORDED FOLIO NOT CREATED
28/9/1987		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED
10/11/1989	Y693340	MORTGAGE	EDITION 1
18/11/1993		AMENDMENT: LOCAL GOVT AREA	
30/3/2001	7511149	DISCHARGE OF MORTGAGE	EDITION 2
13/11/2007	AD560941	CAVEAT	
14/2/2012	AG810786	WITHDRAWAL OF CAVEAT	
26/9/2018	AN737523	CAVEAT	

*** END OF SEARCH ***

kemps

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LAND REGISTRY SERVICES Title Search

InfoTrack

NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

FOLIO: 54/259135

SEARCH DATE	TIME	EDITION NO	DATE
12/12/2018	2:29 PM	2	30/3/2001

LAND

LOT 54 IN DEPOSITED PLAN 259135
AT SOUTH ST.MARYS
LOCAL GOVERNMENT AREA PENRITH
PARISH OF MELVILLE COUNTY OF CUMBERLAND
TITLE DIAGRAM DP259135

FIRST SCHEDULE

MICHAEL VINCENT BORG
MARY VICTORIA BORG
AS JOINT TENANTS (T V738605)

SECOND SCHEDULE (2 NOTIFICATIONS)

1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
* 2 AN737523 CAVEAT BY CONTACT ASSET MANAGEMENT PTY LIMITED

NOTATIONS

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

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

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

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Received: 12/12/2018 14:29:15

Req:R719511 /Doc:CT 13940-185 CT /Rev:28-Feb-2011 /Sts:OK.SC /Pgs:ALL /Prt:12-Dec-2018 14:14
Ref:kemps creek /Src:M

CERTIFICATE OF TITLE

NEW SOUTH WALES

PROPERTY ACT, 1900

13940/185

Vol. 13940 Fol. 185

Appln. No.7336

Prior Title Vol.10884 Fol.223

EDITION ISSUED

17 9 1979

(Page 1) Vol. 13940 Fol. 185

I certify that the person described in the First Schedule is the registered proprietor of the undermentioned estate in the land within described subject nevertheless to such exceptions encumbrances and interests as are shown in the Second Schedule.

CANCELLED

Registrar General.

PLAN SHOWING LOCATION OF LAND

SEE AUTO FOLIO

LENGTHS ARE IN METRES

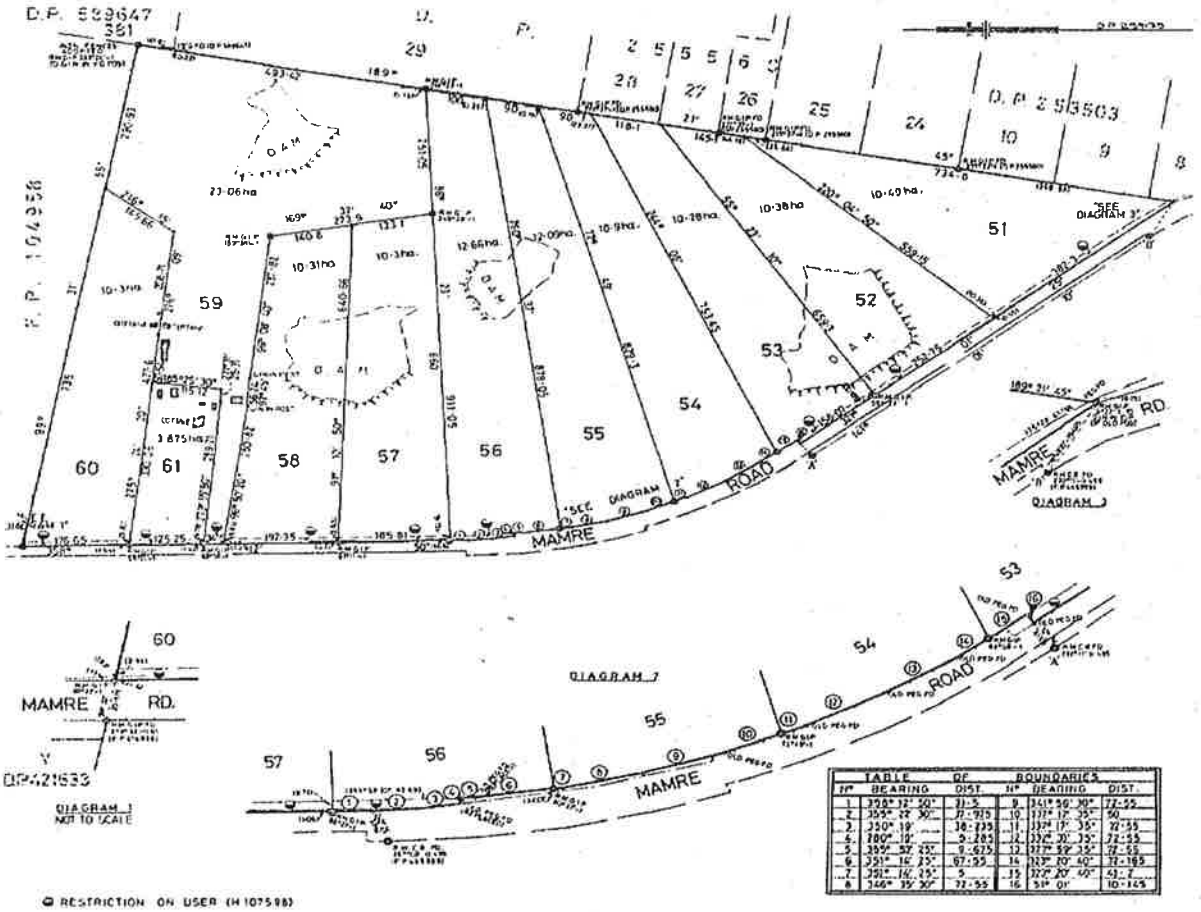


TABLE OF BOUNDARIES					
No	BEARING	DIST.	No	BEARING	DIST.
1	306° 12' 30"	31·5	9	341° 50' 30"	77·55
2	359° 22' 30"	77·975	10	337° 17' 35"	50
3	350° 19' ——	36·235	11	339° 17' 35"	72·55
4	180° 19' ——	9·185	12	334° 20' 35"	72·55
5	359° 57' 45"	9·675	13	327° 52' 35"	72·55
6	351° 16' 25"	97·55	14	322° 20' 40"	72·165
7	351° 16' 25"	5	15	322° 20' 40"	51·7
8	346° 35' 30"	72·55	16	51° 01'	10·145

@ RESTRICTION ON USER (H 107598)

S

ESTATE AND LAND REFERRED TO

Estate in Fee Simple in Lot 55 in Deposited Plan 259135 at South St.Marys in the City of Penrith Parish of Melville and County of Cumberland being part of Portion 53 granted to Richard Fitzgerald on 18-12-1805 and part of Portion 54 granted to Nicholas Bayly on 1-1-1810.

FIRST SCHEDULE

~~NUMBER ONE (NOMINEES) PTY. LIMITED.~~

SECOND SCHEDULE

GRY 1. Reservations and conditions, if any, contained in the Crown Grants above referred to.
2. ~~Q629199 Mortgage to Australia and New Zealand Banking Group Limited.~~ Discharged R638457
3. ~~Q918133 Mortgage to Finance Corporation of Australia Limited.~~ Discharged R638458
RY 4. DP259135 Restriction as to user.

RG 2/62

NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR GENERAL ARE CANCELLED

PERSONS ARE CAUTIONED AGAINST ALTERING OR ADDING TO THIS CERTIFICATE OR ANY NOTIFICATION HEREON

WARNING: THIS DOCUMENT MUST NOT BE REMOVED FROM THE REGISTRAR GENERAL'S OFFICE.

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Ref:kemps creek /Src:M

Vol. 13940 Fol. 185

R638457-9/1
-56-2/1
-59-7/1

S551322
R

FIRST SCHEDULE (continued)

REGISTERED PROPRIETOR	INSTRUMENT NATURE	INSTRUMENT NUMBER	REGISTERED	Signature of Registrar General
Pasquale Maltese of West Hoxton, Farmer and Concetta Maltese his wife as joint tenants	~~Transfer~~ TRANSFER	R638459	21-2-1980	

SECOND SCHEDULE (continued)

INSTRUMENT NATURE	INSTRUMENT NUMBER	PARTICULARS	REGISTERED	Signature of Registrar General	CANCELLATION	
Mortgage	S551322	to Australia and New Zealand Banking Group Limited	22-9-1980			

(Page 2 of 2 pages)

NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR GENERAL ARE CANCELLED

LAND REGISTRY SERVICES

Historical Title

InfoTrack

NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE
26/11/2018 11:17AM

FOLIO: 55/259135

First Title(s): SEE PRIOR TITLE(S)
Prior Title(s): VOL 13940 FOL 185

Recorded	Number	Type of Instrument	C.T. Issue
5/6/1987		TITLE AUTOMATION PROJECT	LOT RECORDED FOLIO NOT CREATED
28/9/1987		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED
18/11/1993		AMENDMENT: LOCAL GOVT AREA	
13/11/2007	AD560847	CAVEAT	
14/2/2012	AG810684	WITHDRAWAL OF CAVEAT	
1/9/2018	AN678863	DEPARTMENTAL DEALING	EDITION 1 CORD ISSUED
11/9/2018	AN698501	CAVEAT	

*** END OF SEARCH ***

kemps

PRINTED ON 26/11/2018

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LAND REGISTRY SERVICES Title Search

InfoTrack

NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

FOLIO: 55/259135

SEARCH DATE	TIME	EDITION NO	DATE
12/12/2018	2:29 PM	1	1/9/2018

NO CERTIFICATE OF TITLE HAS ISSUED FOR THE CURRENT EDITION OF THIS FOLIO. CONTROL OF THE RIGHT TO DEAL IS HELD BY AUSTRALIA AND NEW ZEALAND BANKING GROUP LIMITED.

LAND

LOT 55 IN DEPOSITED PLAN 259135
AT SOUTH ST.MARYS
LOCAL GOVERNMENT AREA PENRITH
PARISH OF MELVILLE COUNTY OF CUMBERLAND
TITLE DIAGRAM DP259135

FIRST SCHEDULE

PASQUALE MALTESE
CONCETTA MALTESE
AS JOINT TENANTS (T R638459)

SECOND SCHEDULE (4 NOTIFICATIONS)

1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
2 DP259135 RESTRICTION(S) ON THE USE OF LAND
3 S55132 MORTGAGE TO AUSTRALIA AND NEW ZEALAND BANKING GROUP LIMITED
* 4 AN698501 CAVEAT BY CONTACT ASSET MANAGEMENT PTY LIMITED

NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

kemps creek PRINTED ON 12/12/2018

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

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Req:R719513 /Doc:CT 13940-186 CT /Rev:28-Feb-2011 /Sts:OK.SC /Pgs:ALL /Prt:12-Dec-2018 14:15
Ref:kemps creek /Src:M

CERTIFICATE OF TITLE

NEW SOUTH WALES

PROPERTY ACT, 1900

13940186

Vol. 13940 Fol. 186

Appln. No.7336

Prior Title Vol.10884 Fol.223

EDITION ISSUED

17 9 1979

I certify that the person described in the First Schedule is the registered proprietor of the undermentioned estate in the land within described subject nevertheless to such exceptions encumbrances and interests as are shown in the Second Schedule.

CANCELLED

Registrar General.

SEE AUTO FOLIO

(Page 1) Vol. 13940 Fol. 186

PLAN SHOWING LOCATION OF LAND

LENGTHS ARE IN METRES

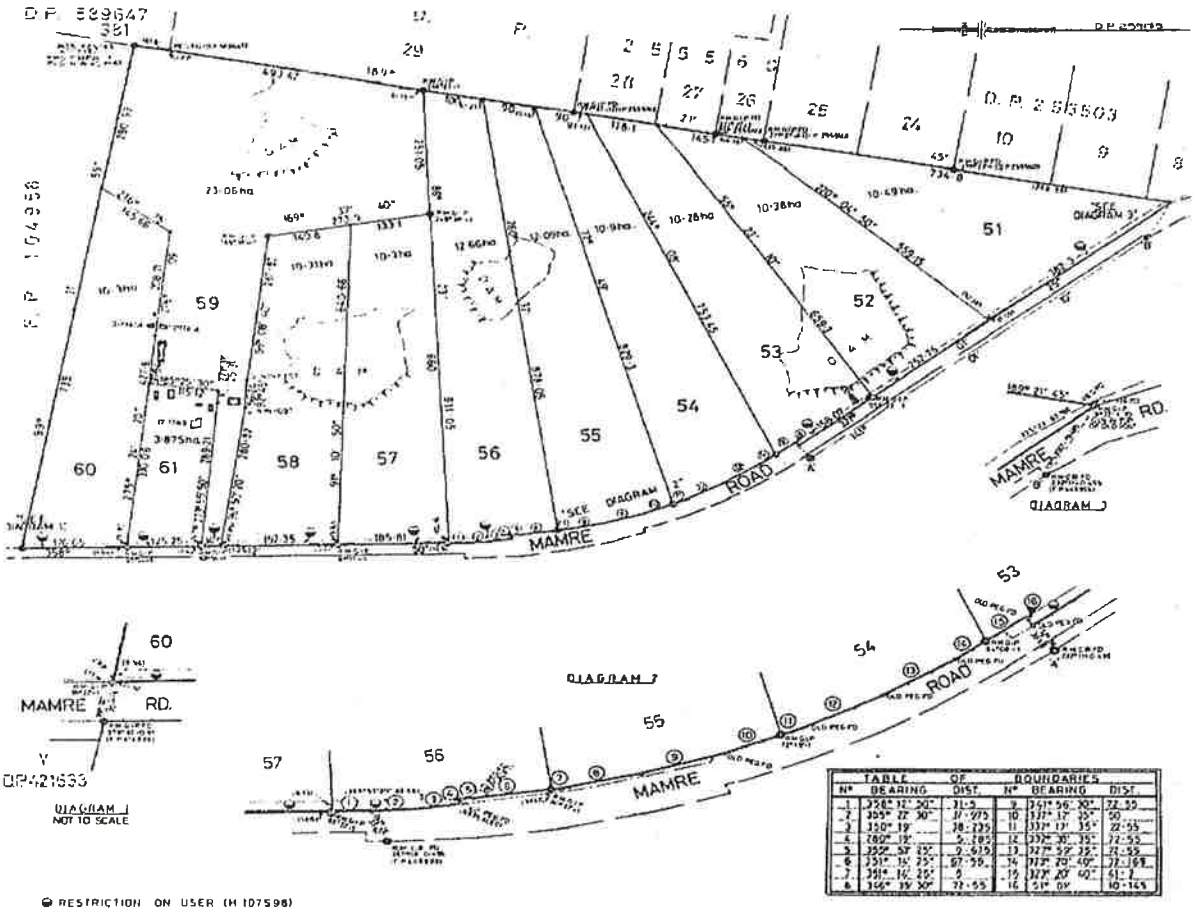


TABLE OF BOUNDARIES

N°	BEARING	DIST.	N°	BEARING	DIST.
1	358° 12' 30"	31.5	9	341° 56' 30"	72.39
2	359° 27' 30"	37.975	10	337° 12' 35"	50
3	330° 19'	38.235	11	332° 12' 35"	22.55
4	280° 19'	5.185	12	332° 12' 35"	72.55
5	352° 58' 25"	2.615	13	327° 57' 25"	72.55
6	351° 14' 25"	87.59	14	312° 29' 40"	71.69
7	351° 14' 25"	0	15	327° 20' 40"	61.2
8	356° 39' 30"	72.55	16	51° 0'	10.145

S

ESTATE AND LAND REFERRED TO

Estate in Fee Simple in Lot 56 in Deposited Plan 259135 at South St.Marys in the City of Penrith Parish of Melville and County of Cumberland being part of Portion 53 granted to Richard Fitzgerald on 18-12-1805 and part of Portion 54 granted to Nicholas Bayly on 1-1-1810.

FIRST SCHEDULE

~~NUMBER ONE PTY. LIMITED.~~

SECOND SCHEDULE

CRY

1. Reservations and conditions, if any, contained in the Crown Grants above referred to.
2. ~~H107598 Restriction on user (see section 27E(6) Main Roads Act, 1924) affecting the part of the land above described shown so burdened in Deposited Plan 259135.~~ (AK) Cancelled 10/6/96
3. ~~Q629199 Mortgage to Australia and New Zealand Banking Group Limited.~~ Discharged R649038
4. ~~Q918133 Mortgage to Finance Corporation of Australia Limited.~~ Discharged R649039

RU.

5. DP259135 Restriction as to user.

RG 2/62

NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR GENERAL ARE CANCELLED

PERSONS ARE CAUTIONED AGAINST ALTERING OR ADDING TO THIS CERTIFICATE OR ANY NOTIFICATION HEREON

WARNING: THIS DOCUMENT MUST NOT BE REMOVED FROM THE REGISTRAR GENERAL'S OFFICE.

Vol. 13940 Fol. 186

FIRST SCHEDULE (continued)

REGISTERED PROPRIETOR	INSTRUMENT NATURE	INSTRUMENT NUMBER	REGISTERED	Signature of Registrar General
Angelo Perri, Hairdresser in ½ share, Antonio Perri, Student in ½ share and Emilia Ierufi, Widow in ½ share, all of Cabramatta, tenancy in common	Transfer	R649040	13-2-1980	

R649035 W/H
- 039 B/H
- 040 T/E

V416804H
W521830

SECOND SCHEDULE (continued)

INSTRUMENT NATURE	INSTRUMENT NUMBER	PARTICULARS	REGISTERED	Signature of Registrar General	CANCELLATION	
		The interest of the Council of the City of Penrith in addition to existing road shown on D. P. 606341	22.11.1979			
~~V416804~~		~~Mortgage to Commonwealth Sav~~ Savings Bank of Australia. Registered ~~7-11-1984~~			Discharged	W52483

AA

(Page 2 of 2 pages)

NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR GENERAL ARE CANCELLED

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Ref:kemps creek /Src:M

LAND REGISTRY SERVICES — Historical Title

NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE
26/11/2018 11:17AM

FOLIO: 56/259135

First Title(s): SEE PRIOR TITLE(S)
Prior Title(s): VOL 13940 FOL 186

Recorded	Number	Type of Instrument	C.T. Issue
5/6/1987		TITLE AUTOMATION PROJECT	LOT RECORDED FOLIO NOT CREATED
28/9/1987		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED
18/11/1993		AMENDMENT: LOCAL GOVT AREA	
11/2/1999	5589110	DEPARTMENTAL DEALING	
11/3/2013	AH601743	DEPARTMENTAL DEALING	

*** END OF SEARCH ***

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LAND REGISTRY SERVICES **Title Search** InfoTrack

NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

FOLIO: 56/259135

SEARCH DATE	TIME	EDITION NO	DATE
12/12/2018	2:29 PM	-	-

VOL 13940 FOL 186 IS THE CURRENT CERTIFICATE OF TITLE

LAND

LOT 56 IN DEPOSITED PLAN 259135
AT SOUTH ST.MARYS
LOCAL GOVERNMENT AREA PENRITH
PARISH OF MELVILLE COUNTY OF CUMBERLAND
TITLE DIAGRAM DP259135

FIRST SCHEDULE

ANGELO PERRI
IN 1/3 SHARE
ANTONIO PERRI
IN 1/3 SHARE
EMILIA IERUFI
IN 1/3 SHARE
AS TENANTS IN COMMON (T R649040)

SECOND SCHEDULE (3 NOTIFICATIONS)

1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
2 DP259135 RESTRICTION(S) ON THE USE OF LAND
* 3 THE INTEREST(S) OF THE COUNCIL OF THE CITY OF PENRITH IN ADDITION TO EXISTING ROAD SHOWN ON DP606341

NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

kemps creek PRINTED ON 12/12/2018

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Received: 12/12/2018 14:29:15

Req:R719514 /Doc:CT 13940-187 CT /Rev:28-Feb-2011 /Sts:OK.SC /Pgs:ALL /Prt:12-Dec-2018 14:15
Ref:kemps creek /Src:M

CERTIFICATE OF TITLE

NEW SOUTH WALES

PROPERTY ACT, 1900

13940187

Vol. 13940 Fol. 187

Appln. No.7336

Prior Title Vol.10884 Fol.223

EDITION ISSUED

17 9 1979

(Page 1) Vol. 13940 Fol. 187

I certify that the person described in the First Schedule is the registered proprietor of the undermentioned estate in the land within described subject nevertheless to such exceptions encumbrances and interests as are shown in the Second Schedule.

CANCELLED

Registrar General.

PLAN SHOWING LOCATION OF LAND SEE AUTO FOLIO

LENGTHS ARE IN METRES

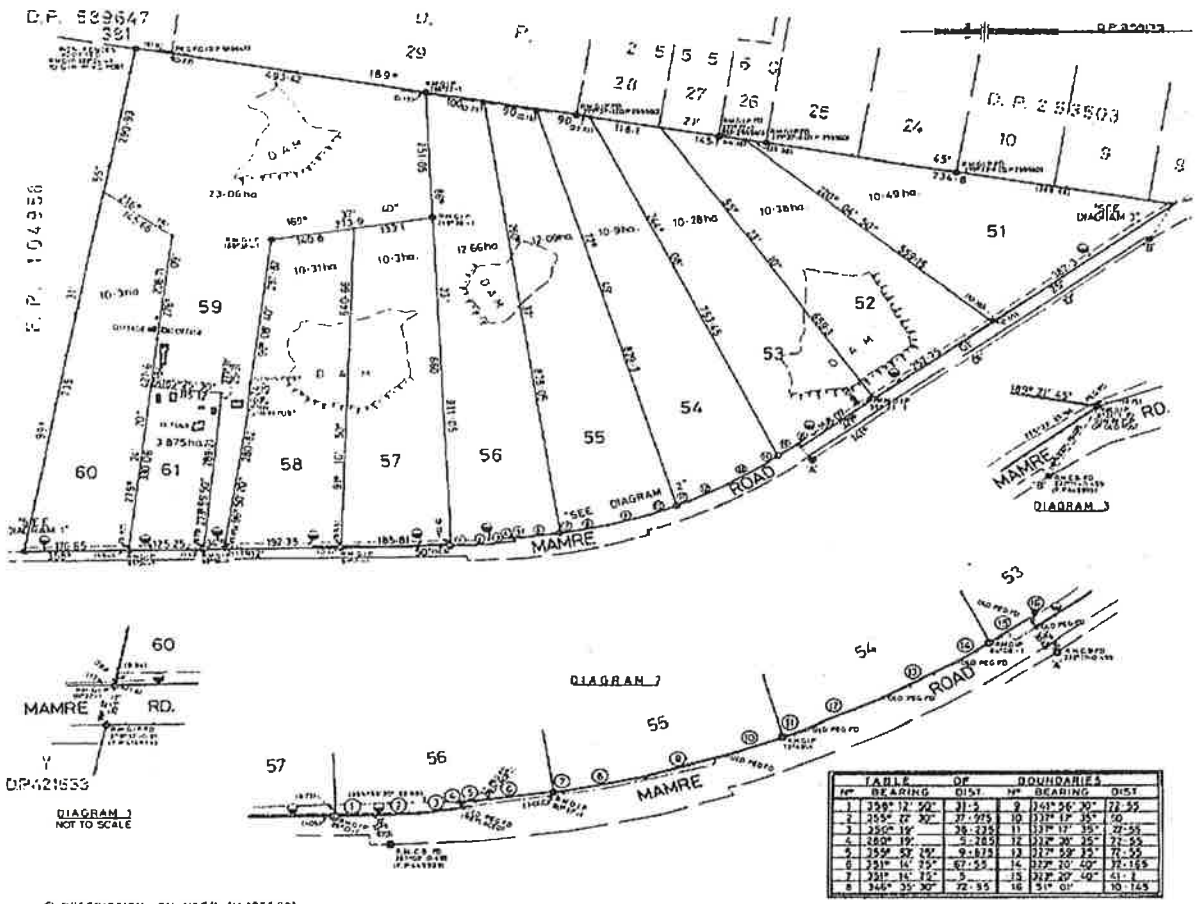


TABLE OF BOUNDARIES					
No	BEARING	DIST	No	BEARING	DIST
1	358° 12' 50"	31·5	9	261° 56' 20"	72·55
2	355° 17' 30"	27·975	10	253° 17' 35"	50
3	350° 19'	28·235	11	253° 17' 35"	22·55
4	260° 19'	5·285	12	261° 20' 35"	72·93
5	359° 57' 10"	9·875	13	317° 58' 35"	71·52
6	359° 14' 25"	67·53	14	317° 20' 40"	72·165
7	321° 14' 15"	5	15	317° 20' 40"	41·1
8	346° 35' 30"	72·95	16	51° 01'	10·145

ESTATE AND LAND REFERRED TO

Estate in Fee Simple in Lot 57 in Deposited Plan 259135 at South St.Marys in the City of Penrith Parish of Melville and County of Cumberland being part of Portion 53 granted to Richard Fitzgerald on 18-12-1805 and part of Portion 54 granted to Nicholas Bayly on 1-1-1810.

FIRST SCHEDULE

~~NUMBER ONE FLEURS PTY. LIMITED.~~

SECOND SCHEDULE

GRY

1. Reservations and conditions, if any, contained in the Crown Grants above referred to.
2. ~~H107598 Restriction on user (see section 27E(6) Main Roads Act, 1924) affecting the part of the land above described shown so burdened in Deposited Plan 259135.~~ cancelled DP666241.
3. ~~Q529199 Mortgage to Australia and New Zealand Banking Group Limited.~~ discharged 8/12/1981
4. ~~Q918133 Mortgage to Finance Corporation of Australia Limited.~~ Discharged R645934.

RU.

5. DP259135 Restriction as to user.

RG 2/62

NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR GENERAL ARE CANCELLED

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Vol. 13940 Fol. 187

FIRST SCHEDULE (continued)

REGISTERED PROPRIETOR	INSTRUMENT NATURE	INSTRUMENT NUMBER	REGISTERED	Signature of Registrar General
~~Exotic Investment Pty Limited~~	~~Transfer~~	~~R921152~~	~~28-9-1988~~	
Benito Vitalone and Francesca Vitalone as joint tenants by Transfer V65431. Registered 13-4-1984				

R645934 Bm
R921152 Tm
-152 Tek
V65431 T. Cov. 1
W328078 M1

SECOND SCHEDULE (continued)

INSTRUMENT NATURE	INSTRUMENT NUMBER	PARTICULARS	REGISTERED	Signature of Registrar General	CANCELLATION	
AA		The interest of the Council of the City of Penrith in addition to existing road shown on D.P. 606391.	22-11-1979			
CV	V65431	Covenant. Registered 13-4-1984				
M	W328078	Mortgage to National Australia Bank Limited. Registered 16-5-1986.				

(Page 2 of 2 pages)

NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR GENERAL ARE CANCELLED

Req:R719514 /Doc:CT 13940-187 CT /Rev:28-Feb-2011 /Sts:OK.SC /Pgs:ALL /Prt:12-Dec-2018 14:15
Ref:kemps creek /Src:M

LAND REGISTRY SERVICES — Historical Title

NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE
26/11/2018 11:17AM

FOLIO: 57/259135

First Title(s): SEE PRIOR TITLE(S)
Prior Title(s): VOL 13940 FOL 187

Recorded	Number	Type of Instrument	C.T. Issue
5/6/1987		TITLE AUTOMATION PROJECT	LOT RECORDED FOLIO NOT CREATED
28/9/1987		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED
18/11/1993		AMENDMENT: LOCAL GOVT AREA	
9/6/1999	5891296	DISCHARGE OF MORTGAGE	
9/6/1999	5891297	MORTGAGE	EDITION 1
15/10/1999	6270933	DISCHARGE OF MORTGAGE	EDITION 2
30/6/2000	6913246	MORTGAGE	EDITION 3
18/1/2001	7354862	DISCHARGE OF MORTGAGE	EDITION 4
17/11/2006	AC643679	MORTGAGE	EDITION 5
13/11/2007	AD560781	CAVEAT	
14/2/2012	AG810670	WITHDRAWAL OF CAVEAT	
31/5/2012	AH21187	DISCHARGE OF MORTGAGE	EDITION 6
11/3/2013	AH601743	DEPARTMENTAL DEALING	
9/1/2017	AM41552	DEPARTMENTAL DEALING	
27/2/2017	AM47376	CAVEAT	
9/8/2017	AM627859	APPLICATION FOR REPLACEMENT CERTIFICATE OF TITLE	EDITION 7
26/9/2018	AN737522	CAVEAT	

*** END OF SEARCH ***

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LAND REGISTRY SERVICES Title Search

InfoTrack

NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

FOLIO: 57/259135

SEARCH DATE	TIME	EDITION NO	DATE
12/12/2018	2:29 PM	7	9/8/2017

LAND

LOT 57 IN DEPOSITED PLAN 259135
AT SOUTH ST.MARYS
LOCAL GOVERNMENT AREA PENRITH
PARISH OF MELVILLE COUNTY OF CUMBERLAND
TITLE DIAGRAM DP259135

FIRST SCHEDULE

BENITO VITALONE
FRANCESCA VITALONE
AS JOINT TENANTS (T V65431)

SECOND SCHEDULE (6 NOTIFICATIONS)

---

1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
2 DP259135 RESTRICTION(S) ON THE USE OF LAND
3 THE INTEREST(S) OF THE COUNCIL OF THE CITY OF PENRITH IN ADDITION TO EXISTING ROAD SHOWN ON DP606341
4 V65431 COVENANT
5 AM627859 THIS EDITION ISSUED PURSUANT TO S.111 REAL PROPERTY ACT, 1900
* 6 AN737522 CAVEAT BY CONTACT ASSET MANAGEMENT PTY LIMITED

NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

kemps creek PRINTED ON 12/12/2018

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Req:R719515 /Doc:CT 13940-188 CT /Rev:28-Feb-2011 /Sts:OK.OK /Pgs:ALL /Prt:12-Dec-2018 14:15
Ref:kemps creek /Src:M

[redacted]FICATE OF TITLE

NEW SOUTH WALES

[redacted]L PROPERTY ACT, 1900

13940 188

Appln. No.7336

Prior Title Vol.10884 Fol.223

Vol. 13940 Fol. 188

EDITION ISSUED

17 9 1979

(Page 1) Vol. 13940 Fol. 188

I certify that the person described in the First Schedule is the registered proprietor of the undermentioned estate in the land within described subject nevertheless to such exceptions encumbrances and interests as are shown in the Second Schedule.

CANCELLED

Registrar General.

SEE AUTO FOLIO

PLAN SHOWING LOCATION OF LAND

LENGTHS ARE IN METRES

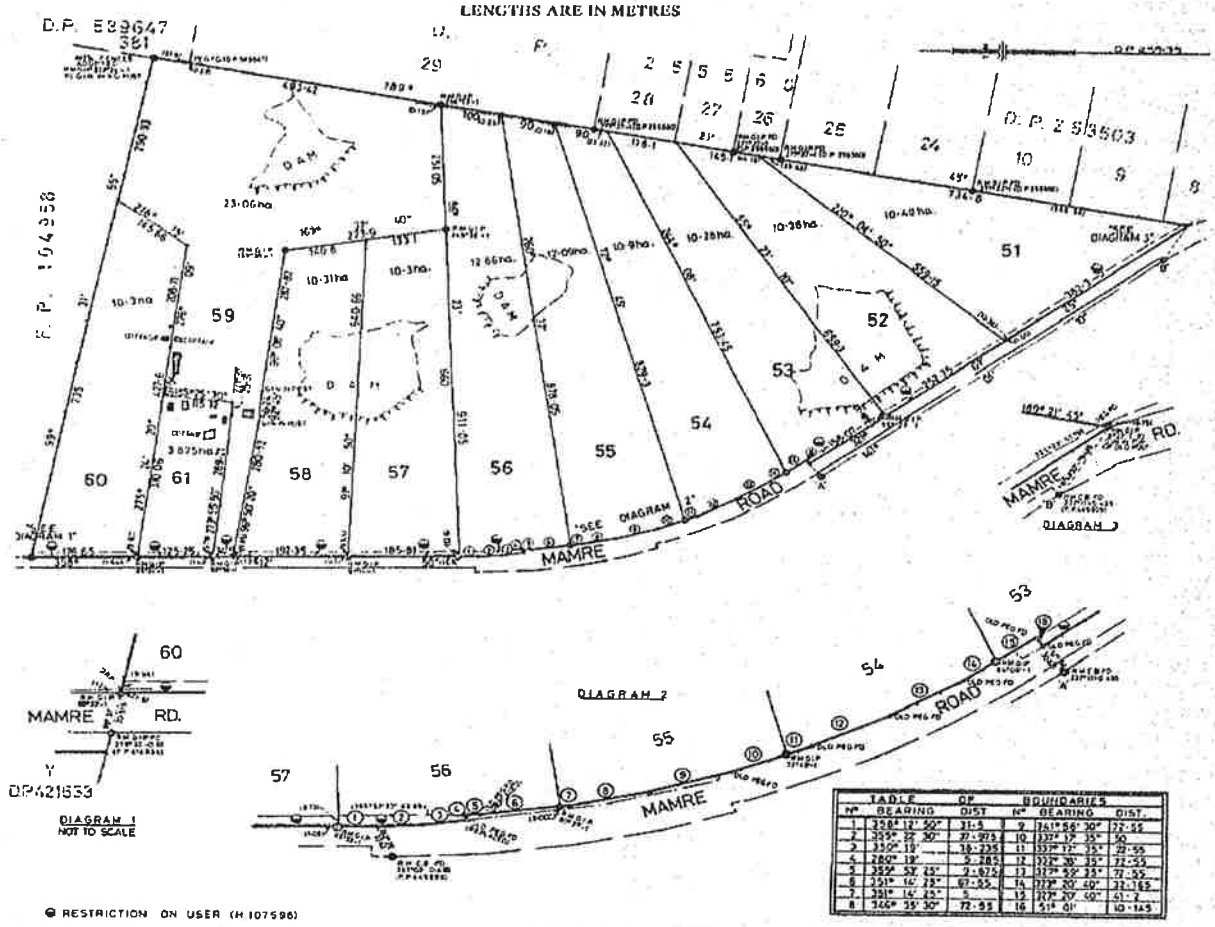


TABLE OF BOUNDARIES					
N°	BEARING	DIST	N°	BEARING	DIST.
1	358° 12' 50"	31.5	9	261° 56' 30"	72.55
2	359° 22' 30"	77.975	10	332° 17' 35"	90
3	359° 19'	16.235	11	332° 17' 35"	72.55
4	280° 19'	2.265	12	332° 30' 35"	72.55
5	359° 53' 25"	2.675	13	332° 53' 35"	72.55
6	351° 16' 25"	67.55	14	332° 20' 40"	72.165
7	351° 14' 45"	5	15	327° 20' 40"	61.2
8	266° 35' 30"	72.55	16	51° 01'	10.145

S

ESTATE AND LAND REFERRED TO

Estate in Fee Simple in Lot 58 in Deposited Plan 259135 at South St.Marys in the City of Penrith Parish of Melville and County of Cumberland being part of Portion 53 granted to Richard Fitzgerald on 18-12-1805.

FIRST SCHEDULE

~~NUMBER ONE FLEURS PTY. LIMITED.~~

SECOND SCHEDULE

GRY

1. Reservations and conditions, if any, contained in the Crown Grant above referred to.
2. ~~H107598 Restriction on user (see section 27E(6) Main Roads Act, 1924) affecting the part of the land above described shown so burdened in Deposited Plan 259135.~~ cancelled DP606141.
3. ~~Q629199 Mortgage to Australia and New Zealand Banking Group Limited.~~ discharged Q921151
4. ~~Q918133 Mortgage to Finance Corporation of Australia Limited.~~ Discharged R645934.

RU.

5. DP259135 Restriction as to user.

RG 2/62

NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR GENERAL ARE CANCELLED

PERSONS ARE CAUTIONED AGAINST ALTERING OR ADDING TO THIS CERTIFICATE OR ANY NOTIFICATION HEREON

WARNING: THIS DOCUMENT MUST NOT BE REMOVED FROM THE REGISTRAR GENERAL'S OFFICE.

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Ref:Kemps creek /Src:M

Vol. 13940 Fol. 188

FIRST SCHEDULE (continued)

REGISTERED PROPRIETOR	INSTRUMENT NATURE	INSTRUMENT NUMBER	REGISTERED	Signature of Registrar General
~~Exotic Livestock (Aust) Pty Limited~~	~~Transfer~~	~~R921152~~	~~26-7-1982~~	
Giuseppe Demasi and Alfonza Demasi as joint tenants by Transfer T280709. Registered 22-10-1982				

R645934 Dm R
R921151 Dm — 152 to R
T280709 T c

SECOND SCHEDULE (continued)

INSTRUMENT NATURE	INSTRUMENT NUMBER	PARTICULARS	REGISTERED	Signature of Registrar General	CANCELLATION	
		The interest of the Council of the City of Penrith in addition to existing road shown on D.P 606341	22-11-1979			

QA

(Page 2 of 2 pages)

NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR GENERAL ARE CANCELLED

LAND REGISTRY SERVICES

Historical Title

InfoTrack

NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE
26/11/2018 11:17AM

FOLIO: 58/259135

First Title(s): SEE PRIOR TITLE(S)
Prior Title(s): VOL 13940 FOL 188

Recorded	Number	Type of Instrument	C.T. Issue
5/6/1987		TITLE AUTOMATION PROJECT	LOT RECORDED FOLIO NOT CREATED
28/9/1987		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED
25/8/1993	I590218	LEASE	EDITION 1
18/11/1993		AMENDMENT: LOCAL GOVT AREA	
18/11/1997	3588164	TRANSFER	
18/11/1997	3588165	MORTGAGE	EDITION 2
24/7/2000	6966618	DISCHARGE OF MORTGAGE	EDITION 3
29/1/2003	9328976	MORTGAGE	EDITION 4
13/11/2007	AD560882	CAVEAT	
14/12/2011	AG686707	DISCHARGE OF MORTGAGE	EDITION 5
14/2/2012	AG810585	WITHDRAWAL OF CAVEAT	
23/4/2012	AG941653	MORTGAGE	EDITION 6
6/8/2012	AH155855	DISCHARGE OF MORTGAGE	EDITION 7
11/3/2013	AH601743	DEPARTMENTAL DEALING	
18/9/2013	AI30384	MORTGAGE	EDITION 8
15/3/2017	AM233564	DISCHARGE OF MORTGAGE	EDITION 9
11/9/2018	AN698500	CAVEAT	
20/11/2018	AN868908	WITHDRAWAL OF CAVEAT	

*** END OF SEARCH ***

kemps

PRINTED ON 26/11/2018

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Received: 26/11/2018 11:17:46

LAND REGISTRY SERVICES **Title Search**

InfoTrack

NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

FOLIO: 58/259135

SEARCH DATE	TIME	EDITION NO	DATE
12/12/2018	2:29 PM	9	15/3/2017

LAND

LOT 58 IN DEPOSITED PLAN 259135
AT SOUTH ST.MARYS
LOCAL GOVERNMENT AREA PENRITH
PARISH OF MELVILLE COUNTY OF CUMBERLAND
TITLE DIAGRAM DP259135

FIRST SCHEDULE

DIAB FINIANOS
SAYDE FINIANOS
AS JOINT TENANTS (T 3588164)

SECOND SCHEDULE (3 NOTIFICATIONS)

---

1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
2 DP259135 RESTRICTION(S) ON THE USE OF LAND
3 THE INTEREST(S) OF THE COUNCIL OF THE CITY OF PENRITH IN ADDITION TO EXISTING ROAD SHOWN ON DP606341

NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

kemps creek PRINTED ON 12/12/2018

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

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Received: 12/12/2018 14:29:15

ABN: 36 092 724 251
Ph: 02 9099 7400
(Ph: 0412 199 304)

Level 14, 135 King Street, Sydney
Sydney 2000
GPO Box 4103 Sydney NSW 2001
DX 967 Sydney

Summary of Owners Report

LRS NSW **Sydney**

Address: - Mamre Road, Kemps Creek

Description: - Lots 52 to 58 D.P. 259135

As regards the whole of the subject land

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
21.09.1916 (1916 to 1934)	Henry Horton (Grazier) (& His deceased estate)	Vol 2656 Fol 98
28.06.1934 (1934 to 1945)	Greenfields Limited	Vol 2656 Fol 98
17.01.1945 (1945 to 1954)	Joseph Henry Bawn (Butcher) Richard Setten Stone (Butcher)	Vol 2656 Fol 98
16.02.1954 (1954 to 1968)	J.H. Bawn Pty Limited	Vol 2656 Fol 98 Now Vol 6884 Fol 54

Continued as regards Lot 52 D.P. 259135 – excluding part for road in D.P. 606341

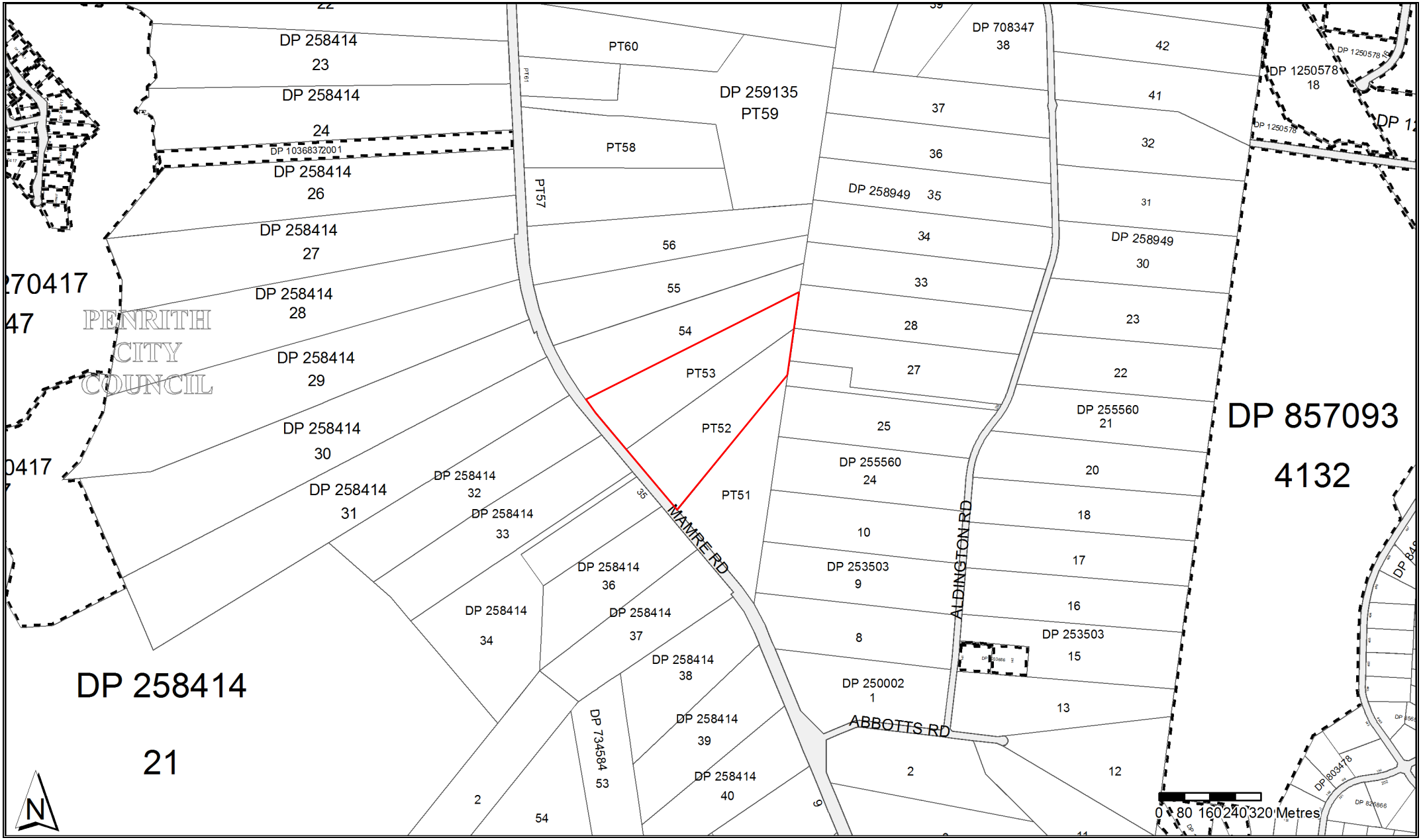
Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
25.01.1968 (1968 to 1980)	Number One Fleurs Pty Limited	Vol 6884 Fol 54 Now Vol 13940 Fol 182
21.08.1980 (1980 to 2004)	Marko Matanovic (Butcher) Milka Matanovic (Married Woman)	Vol 13940 Fol 182 Now 52/259135
16.03.2004 (2004 to date)	# Marko Matanovic (Butcher) # Milka Matanovic (Married Woman) # Ivan Matanovic	52/259135

Denotes current registered proprietors

Leases & Easements: - NIL

Cadastral Records Enquiry Report : Lot 52 DP 259135

Locality : KEMPS CREEK
Parish : MELVILLE
LGA : PENRITH
County : CUMBERLAND



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

InfoTrack
© Office of the Registrar-General /Src:INFOTRACK /Ref:Kemps Creek 884-928 INFOTRACKamre Road /Doc:DP 0259135 P /Rev:19-Jun-1992 /NSW LRS /Pgs:ALL /Prt:16-Sep-2020 09:55 /Seq:1 of 1 Req:R658602

PLAN FORM 2 — Plan Drawing only to appear in this space — * OFFICE USE ONLY

Signatures and seals only.

D.P. 259135

Registered: 31·7·1979

C.A.: N° 55/78 of 20-7-1978

Title System: TORRENS

Purpose: SUBDIVISION

Ref. Map: PARISH

Last Plan: D.P. 529420

PLAN OF SUBDIVISION OF LOT 1 D.P. 529420 (C.T.V. 10884 F. 223)

Reduction Ratio 1: 5000
Lengths are in metres.

Municipality / City: PENRITH

Locality: SOUTH ST MARYS

Parish: MELVILLE

County: CUMBERLAND

This is sheet 1 of my plan in sheets.
(Delete if inapplicable)

I, BARRY WILLIAM GARDNER of 406 PACIFIC HIGHWAY LINDFIELD a surveyor registered under the Surveyors Act, 1929, as amended, hereby certify that the survey represented in this plan is accurate and has been made *(1) by me (2) under my immediate supervision in accordance with the Survey Practice Regulations, 1933, and was completed on † 4.7.78

Signature

Surveyor registered under Surveyors Act, 1929, as amended.
Datum Line of Azimuth: 'A – B'
*Strike out either (1) or (2). †Insert date of survey.

Panel for use only for statements of intention to dedicate public roads or to create public reserves, drainage reserves, easements or restrictions as to user.

PURSUANT TO SECTION 88B OF THE CONVEYANCING ACT 1919 IT IS INTENDED TO CREATE

RESTRICTIONS AS TO USER

AS SET OUT IN THE ACCOMPANYING INSTRUMENT ENDORSED BY THE COUNCIL CLERK.

Council Clerk's Certificate 55/78

I hereby certify that -

(a) the requirements of the Local Government Act, 1919 further than the requirements for the registration of plans), and

*(b) the requirements of section 348 of the †Metropolitan Water, Sewerage and Drainage Act, 1924, as amended. †Hunter District Water, Sewerage, and Drainage Act, 1938, as amended

have been complied with by the applicant in relation to the proposed Subdivision
(Insert "new road", "subdivision" or "consolidated lot") set out herein

Subdivision No. 5.4205, 5.4206 & 5.4207

Date 20.7.78

(Signature) Council Clerk

*This part of certificate to be deleted where the application is only for a consolidated lot or the opening of a new road or where the land to be subdivided is wholly outside the areas of operations of the Metropolitan Water Sewerage and Drainage Board and the Hunter District Water Board.
†Delete if inapplicable.

D.P. 529420 — D.P. 259135 — D.P. 253503 — D.P. 1043956 — D.P. 421633

DIAGRAM 1
NOT TO SCALE

DIAGRAM 2
1:2500

DIAGRAM 3
1:250

TABLE OF BOUNDARIES

N°	BEARING	DIST.	N°	BEARING	DIST.
1	358° 12′ 50″	31·5	9	341° 56′ 30″	72·55
2	355° 22′ 30″	37·975	10	337° 17′ 35″	50
3	350° 19′	38·235	11	337° 17′ 35″	22·55
4	280° 19′	5·285	12	332° 38′ 35″	72·55
5	355° 53′ 25″	9·675	13	327° 59′ 35″	72·55
6	351° 14′ 25″	67·55	14	323° 20′ 40″	32·165
7	351° 14′ 25″	5	15	323° 20′ 40″	41·2
8	346° 35′ 30″	72·55	16	51° 01′	10·145

● RESTRICTION ON USER (H.107598)

Table of mm

M.P.D.

WARNING: CREASING OR FOLDING WILL LEAD TO REJECTION

SURVEYOR'S REFERENCE: FLEURS P.M.D.

I, Bruce Richard Davies, Registrar General for New South Wales, certify that this negative is a photograph made as a permanent record of a document in my custody this 1st day of August, 1979

Table of mm

InfoTrack
Req:R658601 /Doc:DP 0606341 P /Rev:31-Dec-1992 /NSW LRS /Pgs:ALL /Prt:16-Sep-2020 09:55 /Seq:1 of 1
© Office of the Registrar-General /Src:INFOTRACK /Ref:Kemps Creek 884-928 INFOTRACKamre Road

PLAN FORM 2

Plan Drawing only to appear in this space

OFFICE USE ONLY

D. P. 606341

Registered: 22.11.1979

C.A.: No 54490 OF 28.9.1979

Title System: TORRENS

Purpose: ROAD

Ref. Map: PARISH

Last Plan: D. P. 259135*

PLAN OF ROAD WIDENING WITHIN LOTS 51–53 INCL. & LOTS 56–61 INCL. D. P. 259135

Reduction Ratio 1: 4 000
Lengths are in metres.

~~Mun./Shire~~ City: PENRITH

Locality: SOUTH ST MARYS

Parish: MELVILLE

County: CUMBERLAND

This is sheet 1 of my plan in sheets.
(Delete if inapplicable)

I, BARRY WILLIAM GARDNER

of PROUST & GARDNER 406 PACIFIC HWY LINDFIELD

a surveyor registered under the Surveyors Act, 1929, as amended, hereby certify that the survey represented in this plan ..... COMPILED FROM D. P. 259135 .....

is accurate ~~and has been made *(1) by me (2) under my immediate supervision in accordance with the Survey Practice Regulations, 1933, and was completed on †~~

21ST AUGUST 1979

Signature .....

Surveyor registered under Surveyors Act, 1929, as amended.
*Datum Line of Azimuth
*Strike out either (1) or (2) †Insert date of survey.

Panel for use only for statements of intention to dedicate public roads or to create public reserves, drainage reserves, easements or restrictions as to user.

IT IS INTENDED TO DEDICATE THE AREAS – 3695m², 2554m², 1608m², 920·3m², 1803m², 1867m², 338·4m², 1219m² & 1718m² TO THE PUBLIC AS ROAD.

SURVEYOR'S REFERENCE: FLEURS P.M.D.W.

Signatures and seals only.

Council Clerk's Certificate 98/79

I hereby certify that –

(a) the requirements of the Local Government Act, 1919 (other than the requirements for the registration of plans), and

*(b) the requirements of section 348 of the †Metropolitan Water, Sewerage and Drainage Act, 1924, as amended. †Hunter District Water, Sewerage, and Drainage Act, 1938, as amended

have been complied with by the applicant in relation to the proposed Road Widening (Insert "new road", "subdivision" or "consolidated lot") set out herein

Subdivision No. S. 44490

Date 28-9-79

(Signature) ..... Colonial Clerk

*This part of certificate to be deleted where the application is only for a consolidated lot or the opening of a new road or where the land to be subdivided is wholly outside the areas of operations of the Metropolitan Water Sewerage and Drainage Board and the Hunter District Water Board.
†Delete if inapplicable.

MPD

WARNING: CREASING OR FOLDING WILL LEAD TO REJECTION

I, Bruce Richard Davies, Registrar General for New South Wales, certify that this negative is a photograph made as a permanent record of a document in my custody this 30th day of November, 1979

D. P. 606341

Req:R658590 /Doc:CT 10884-223 CT /Rev:14-Jan-2011 /NSW LRS /Pgs:ALL /Prt:16-Sep-2020 09:55 /Seq:1 of 2
© Office of the Registrar-General /Src:INFOTRACK /Ref:Kemps Creek 884-928 INFOTRACKamre Road

10884223

NEW SOUTH WALES

[redacted]ICATE OF TITLE

PERTY ACT, 1900, as amended.

Vol. 10884 Fol. 223

Edition issued 11-9-1968

AS K943629 **CANCELLED**

Appln. No.7336

Prior Title Vol.6886 Fol. 54

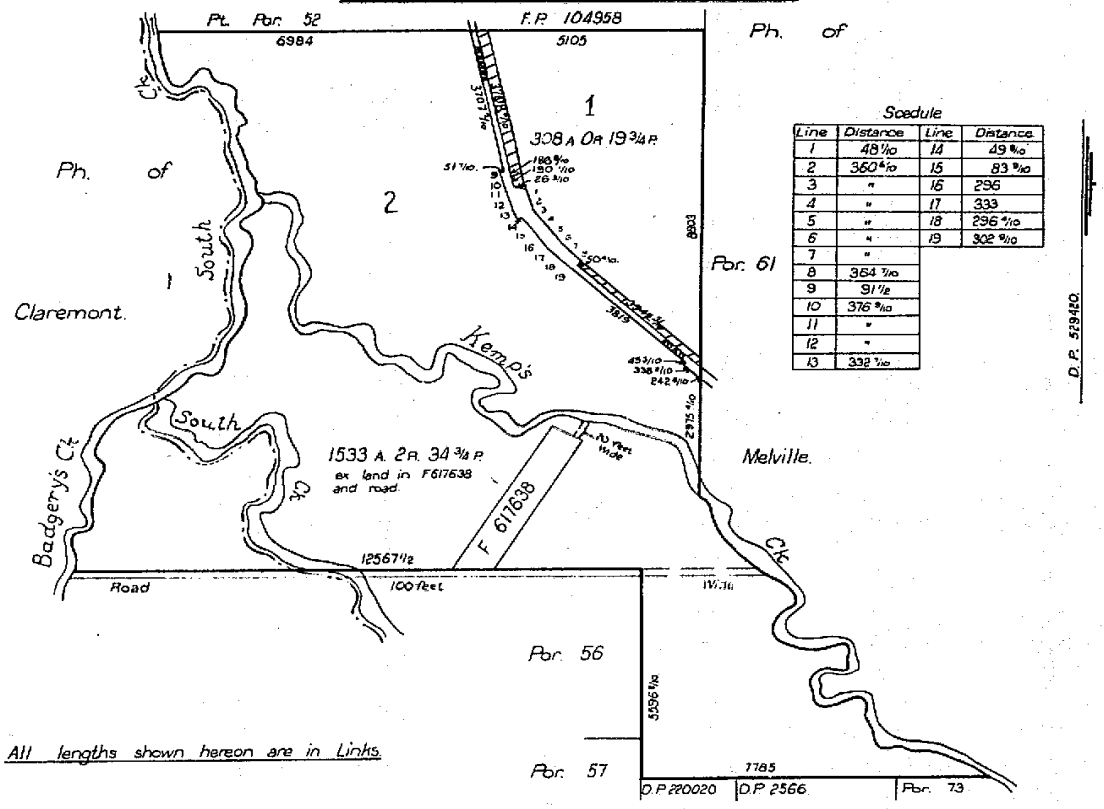
(Page 1) Vol. 10884 Fol. 223

I certify that the person described in the First Schedule is the registered proprietor of the undermentioned estate in the land within described subject nevertheless to such exceptions encumbrances and interests as are shown in the Second Schedule.

Witness L. Bellinger

Registrar General.

PLAN SHOWING LOCATION OF LAND



Scedule

Line	Distance	Line	Distance
1	48 1/10	14	49 1/10
2	360 4/10	15	83 1/10
3	"	16	296
4	"	17	333
5	"	18	296 1/10
6	"	19	302 1/10
7	"		
8	364 1/10		
9	91 1/2		
10	376 1/10		
11	"		
12	"		
13	332 1/10		

ESTATE AND LAND REFERRED TO

Estate in Fee Simple in Lot 1 in Deposited Plan 529420 in the City of Penrith Parish of Melville and County of Cumberland being part of Portions 53 and 55 granted to Richard Fitzgerald and Nicholas Bayly respectively on 18-12-1805 and part of Portion 54 granted to Nicholas Bayly on 1-1-1810.

FIRST SCHEDULE (continued overleaf)

NUMBER ONE FLEURS PTY. LIMITED.

SECOND SCHEDULE (continued overleaf)

1. Reservations and conditions, if any, contained in the Crown Grants above referred to.
2. ~~Mortgage No.G104014 to The Commercial Bank of Australia Limited. Entered 6-12-1954.~~
3. Restriction on User No.H107598 of land shown by hatching in plan hereon. See Section 27E (6) Main Roads Act, 1924. Entered 2-4-1959.

Registrar General

PERSONS ARE CAUTIONED AGAINST ALTERING OR ADDING TO THIS CERTIFICATE OR ANY NOTIFICATION HEREON

WARNING: THIS DOCUMENT MUST NOT BE REMOVED FROM THE LAND TITLES OFFICE.

NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR GENERAL ARE CANCELLED.

Req:R658590 /Doc:CT 10884-223 CT /Rev:14-Jan-2011 /NSW LRS /Pgs:ALL /Prt:16-Sep-2020 09:55 /Seq:2 of 2
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V. C. N. BLIGHT, GOVERNMENT PRINTER

Vol. 10884 Fol 223

FIRST SCHEDULE (continued)

REGISTERED PROPRIETOR	INSTRUMENT NATURE	INSTRUMENT NUMBER	INSTRUMENT DATE	ENTERED	Signature of Registrar-General
This deed is cancelled as to the whole New certificates of Title have issued on 17-9-1979 for lots in Deposited Plan No 259135 as follows: Lots 51 to 61 of 13940 Fol 181 to 191 respectively. REGISTRAR GENERAL NEW CERTIFICATE(S) OF TITLE ISSUING ON DP259135 NO DEALING TO BE REGISTERED WITHOUT REFERENCE TO SURVEY DRAFTING BRANCH.					

K943630 E/9/[illegible]
IX. 7 72 97
M826978 M
N8[illegible]8 v/m f
P284317 M
P412531
CT 18.1.77
065730 Dm
Q629196 Dm
199 M
198 Pod/m
Q918131 D/
-2D/
0 -3M
DP 259135

SECOND SCHEDULE (continued)

INSTRUMENT NATURE	INSTRUMENT NUMBER	INSTRUMENT DATE	PARTICULARS	ENTERED	Signature of Registrar-General	CANCELLATION		
~~Mortgage~~	~~K943630~~	~~25-1-1968~~	~~To J. H. Bown Pty. Limited~~	~~1-10-1968~~		~~Discharged~~	~~Q629196~~	
~~Mortgage~~	~~L521588~~	~~22-7-1969~~	~~To Australia and New Zealand Bank Limited~~	~~24-9-1969~~		~~Discharged~~	~~Q65730~~	
~~Mortgage~~	~~M826978~~	~~6-6-1972~~	~~to: Midland Credit Limited~~	~~4-8-1972~~		~~Discharged~~	~~Q918131~~	
~~Caveat~~	~~P284317~~			~~12-6-1975~~		Withdrawn	P412531	
~~Mortgage~~	~~Q629199~~		~~to Australia and New Zealand Banking Group Limited~~	~~11-F-1978~~				
~~Mortgage~~	~~M826978~~		~~Priority now being Q629199, M826978 see postponement~~					
~~Mortgage~~	~~Q629199~~		~~Q629198.~~	~~11-4-1978~~		~~Cancelled~~	~~Q918131~~	
Mortgage	Q918133	—	to Finance Corporation of Australia Limited	9-5-1979				
			Interests created pursuant to Section 88B Conveyancing Act, 1919, by the registration of Deposited Plan 259135	31-7-1979				

(Page 2 of 2 pages)

NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR-GENERAL ARE CANCELLED

Req:R658579 /Doc:CT 13940-182 CT /Rev:28-Feb-2011 /NSW LRS /Pgs:ALL /Prt:16-Sep-2020 09:54 /Seq:1 of 2
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WARNING: THIS DOCUMENT MUST NOT BE REMOVED FROM THE REGISTRAR GENERAL'S OFFICE.

(Page 1) Vol. 13940 Fol. 182

[redacted]ICATE OF TITLE

NEW SOUTH WALES — PROPERTY ACT, 1900

13940/182

Vol. 13940 Fol. 182

EDITION ISSUED 17 9 1979

Appln. No.7336

Prior Title Vol.10884 Fol.223

I certify that the person described in the First Schedule is the registered proprietor of the undermentioned estate in the land within described subject nevertheless to such exceptions encumbrances and interests as are shown in the Second Schedule.

CANCELLED

Registrar General.

SEE AUTO FOLIO

PLAN SHOWING LOCATION OF LAND

LENGTHS ARE IN METRES

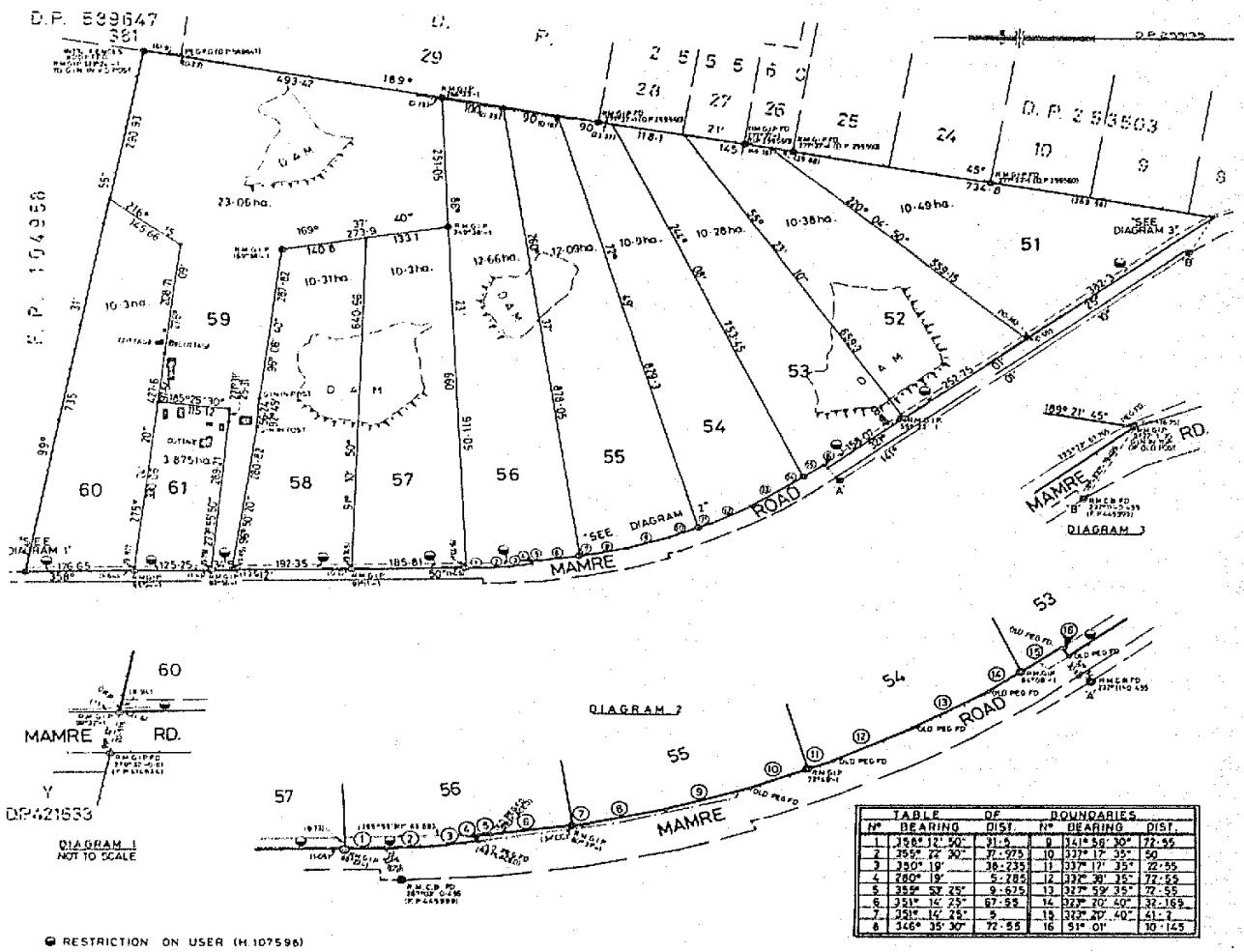


TABLE OF BOUNDARIES					
N°	BEARING	DIST.	N°	BEARING	DIST.
1	356° 12' 50"	91.5	9	341° 56' 30"	72·55
2	355° 22' 30"	72·975	10	337° 17' 35"	50
3	350° 19'	36·235	11	337° 17' 35"	22·55
4	280° 19'	5·785	12	337° 38' 35"	72·55
5	352° 52' 25"	9·625	13	327° 59' 35"	72·55
6	351° 14' 25"	67·55	14	327° 20' 40"	32·169
7	351° 14' 25"	5	15	327° 20' 40"	41·2
8	346° 35' 30"	72·55	16	51° 01'	10·145

ESTATE AND LAND REFERRED TO

Estate in Fee Simple in Lot 52 in Deposited Plan 259135 at South St.Marys in the City of Penrith Parish of Melville and County of Cumberland being part of Portion 54 granted to Nicholas Bayly on 1-1-1810.

FIRST SCHEDULE

~~NUMBER ONE FLEURS PTY. LIMITED.~~

SECOND SCHEDULE

1. Reservations and conditions, if any, contained in the Crown Grant above referred to.
2. ~~H107598 Restriction as to user (see section 27E(6) Main Roads Act, 1924) affecting the part of the land above described shown so burdened in Deposited Plan 259135.~~ cancelled DP606341.
3. ~~Q629199 Mortgage to Australia and New Zealand Banking Group Limited.~~ discharged R921151
4. ~~Q918133 Mortgage to Finance Corporation of Australia Limited.~~ Discharged R645934.
5. DP259135 Restriction as to user.

GRY RU

RG 2/62

NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR GENERAL ARE CANCELLED

Vol. 13940 Fol. 182

FIRST SCHEDULE (continued)

REGISTERED PROPRIETOR	INSTRUMENT NATURE	INSTRUMENT NUMBER	REGISTERED	Signature of Registrar General
Marko Matanovic of St. Marys, Butcher and Milka Matanovic his wife as joint tenants	Transfer	R994528	21-8-1980	

R645934 Dm
R921151 DM
R994528 DM
S422463M

SECOND SCHEDULE (continued)

INSTRUMENT NATURE	INSTRUMENT NUMBER	PARTICULARS	REGISTERED	Signature of Registrar General	CANCELLATION	
AA		The interest of the Council of the City of Penrith in the addition to existing road shown on D.P. 606341	22.11.1979			
M	S422463	Mortgage to Commonwealth Savings Bank of Australia. Registered 28-4-1981.				

(Page 2 of 2 pages)

NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR GENERAL ARE CANCELLED

Req:R658579 /Doc:CT 13940-182 CT /Rev:28-Feb-2011 /NSW LRS /Pgs:ALL /Prt:16-Sep-2020 09:54 /Seq:2 of 2
© Office of the Registrar-General /Src:INFOTRACK /Ref:Kemps Creek 884-928 INFOTRACKamre Road

Historical Title

NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE
16/9/2020 9:53AM

FOLIO: 52/259135

First Title(s): SEE PRIOR TITLE(S)
Prior Title(s): VOL 13940 FOL 182

Recorded	Number	Type of Instrument	C.T. Issue
5/6/1987		TITLE AUTOMATION PROJECT	LOT RECORDED FOLIO NOT CREATED
28/9/1987		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED
29/6/1988	X651228	DISCHARGE OF MORTGAGE	EDITION 1
18/11/1993		AMENDMENT: LOCAL GOVT AREA	
23/6/1994	U378379	CHANGE OF NAME	EDITION 2
16/3/2004	AA498129	TRANSFER	EDITION 3
11/3/2013	AH601743	DEPARTMENTAL DEALING	
15/9/2020	AQ297436	TRANSFER SEVERING JOINT TENANCY	

*** END OF SEARCH ***

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Req:R658573 /Doc:DL AA498129 /Rev:17-Mar-2004 /NSW LRS /Pgs:ALL /Prt:16-Sep-2020 09:53 /Seq:1 of 1
© Office of the Registrar-General /Src:INFOTRACK /Ref:Kemps Creek 884-928 INFOTRACKamre Road

Form: 01T
Release: 2
www.lpi.nsw.gov.au

TRANSFER

New South Wales
Real Property Act 1900

AA498129L

PRIVACY NOTE: this information is legally required and will

STAMP DUTY

Office of State Revenue use only

NEW SOUTH WALES DUTY
09-03-2004 0001869750-001
TRANSFER- TRANSFER
DUTIABLE AMOUNT $ *********44,000.00
DUTY $ ***********660.00

(A) **TORRENS TITLE** Folio Identifier 52/259135

(B) **LODGED BY**

Delivery Box	Name, Address or DX and Telephone	CODES
1029S	Astley Thompson Cox DX 8046 Penrith Reference: HP:sb:20026766	T TW (Sheriff)

(C) **TRANSFEROR** MARKO MATANOVIC & MILKA MATANOVIC

(D) **CONSIDERATION** The transferor acknowledges receipt of the consideration of $ 1.00 and as regards

(E) **ESTATE** the land specified above transfers to the transferee an estate in fee simple

(F) **SHARE TRANSFERRED**

(G) Encumbrances (if applicable):

(H) **TRANSFEREE** MARKO MATANOVIC & MILKA MATANOVIC as joint tenants as to 96/100 share
and
IVAN MATANOVIC as to 4/100 share as tenants in common

(I) **TENANCY:**

(J) **DATE** 8th March 2004

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 witness:

Name of witness: GRAEME JOHN HOCKLEY
Address of witness: 61-79 HENRY STREET PENRITH
SOLICITOR

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

Signature of transferor: Marko Matanovic

Milka Matanovic

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 witness:

Name of witness: HELEN MARY PEARSE
Address of witness: 36 Woodriff St, PENRITH

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

Signature of transferee: Ivan M. Matanovic

All handwriting must be in block capitals.

Title Search

NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

FOLIO: 52/259135

SEARCH DATE	TIME	EDITION NO	DATE
16/9/2020	9:52 AM	3	16/3/2004

LAND

LOT 52 IN DEPOSITED PLAN 259135
AT SOUTH ST.MARYS
LOCAL GOVERNMENT AREA PENRITH
PARISH OF MELVILLE COUNTY OF CUMBERLAND
TITLE DIAGRAM DP259135

FIRST SCHEDULE

MARKO MATANOVIC
IN 48/100 SHARE
MILKA MATANOVIC
IN 48/100 SHARE
IVAN MATANOVIC
IN 4/100 SHARE
AS TENANTS IN COMMON (TJ AQ297436)

SECOND SCHEDULE (3 NOTIFICATIONS)

1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
2 DP259135 RESTRICTION(S) ON THE USE OF LAND
* 3 THE INTEREST(S) OF THE COUNCIL OF THE CITY OF PENRITH IN ADDITION TO EXISTING ROAD SHOWN ON DP606341

NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

Kemps Creek 884-928 Mamre Road PRINTED ON 16/9/2020

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Received: 16/09/2020 09:52:58

Req:R658589 /Doc:CT 13940-183 CT /Rev:28-Feb-2011 /NSW LRS /Pgs:ALL /Prt:16-Sep-2020 09:55 /Seq:1 of 2
© Office of the Registrar-General /Src:INFOTRACK /Ref:Kemps Creek 884-928 INFOTRACKamre Road

[redacted]ICATE OF TITLE

NEW SOUTH WALES

PROPERTY ACT, 1900

Vol. 13940 Fol. 183

EDITION ISSUED

17 9 1979

Appln. No.7336

Prior Title Vol.10884 Fol.223

(Page 1) Vol. 13940 Fol. 183

I certify that the person described in the First Schedule is the registered proprietor of the undermentioned estate in the land within described subject nevertheless to such exceptions encumbrances and interests as are shown in the Second Schedule.

CANCELLED

Registrar General.

SEE AUTO FOLIO

PLAN SHOWING LOCATION OF LAND

LENGTHS ARE IN METRES

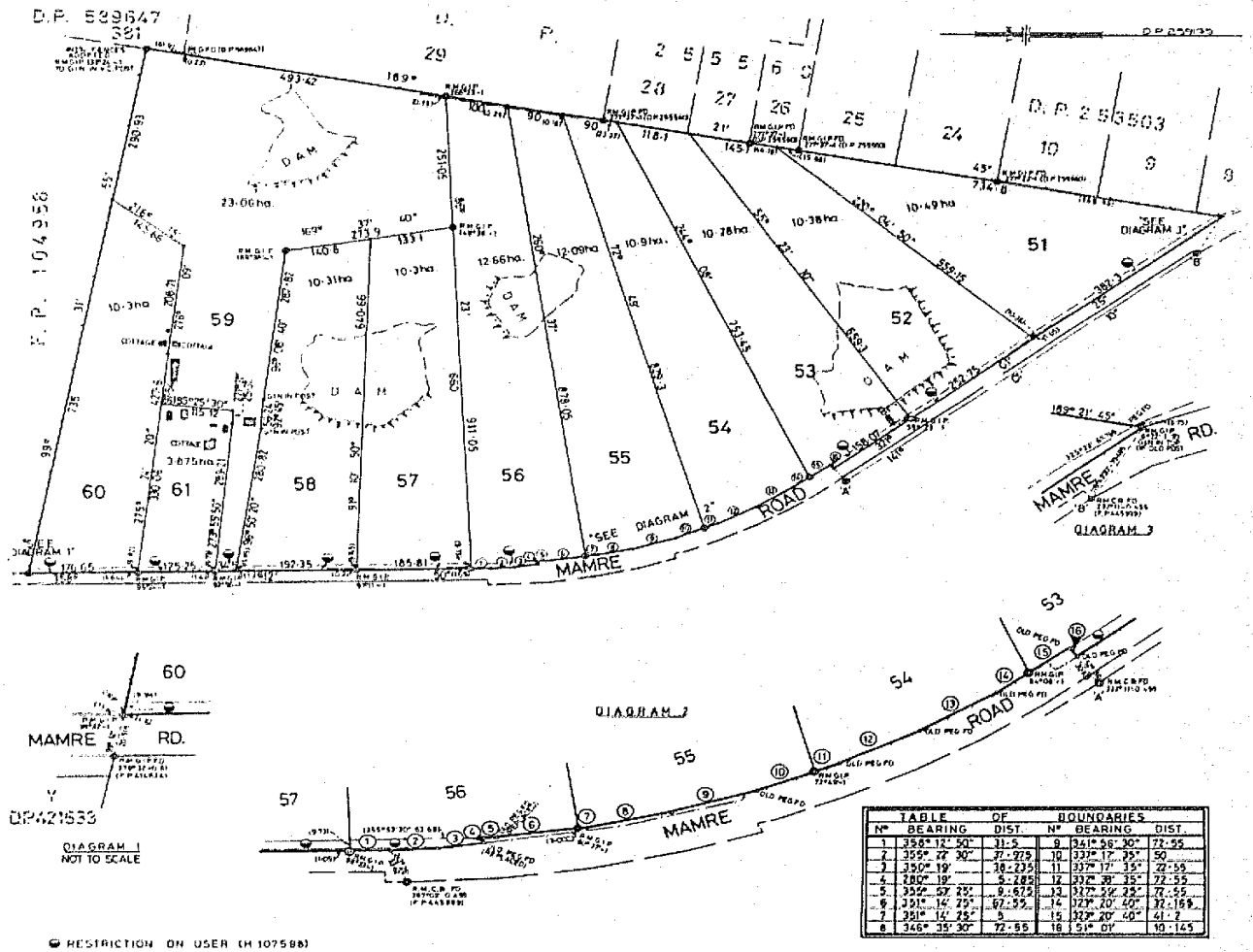


TABLE OF BOUNDARIES					
N°	BEARING	DIST.	N°	BEARING	DIST.
1	356° 12' 50"	31·5	9	341° 46' 30"	72·55
2	359° 22' 30"	37·975	10	337° 17' 35"	50
3	350° 19'	36·235	11	337° 17' 35"	22·55
4	280° 19'	5·285	12	332° 38' 35"	72·55
5	359° 57' 25"	9·675	13	327° 59' 25"	72·55
6	351° 14' 25"	67·55	14	323° 20' 40"	72·169
7	351° 14' 25"	5	15	323° 20' 40"	41·7
8	346° 35' 30"	72·55	16	51° 01'	10·145

S

ESTATE AND LAND REFERRED TO

Estate in Fee Simple in Lot 53 in Deposited Plan 259135 at South St.Marys in the City of Penrith Parish of Melville and County of Cumberland being part of Portion 54 granted to Nicholas Bayly on 1-1-1810.

FIRST SCHEDULE

~~NUMBER ONE FIBRES PTY. LIMITED.~~

SECOND SCHEDULE

GRY

1. Reservations and conditions, if any, contained in the Crown Grant above referred to.
2. ~~H107598 Restriction as to user (see section 27E(6) Main Roads Act, 1924) affecting the part of the land above described shown so burdened in Deposited Plan 259135.~~ (DP Cancelled DP Cancelled)
3. ~~Q629199 Mortgage to Australia and New Zealand Banking Group Limited.~~ Discharged R924151
4. ~~Q918133 Mortgage to Finance Corporation of Australia Limited.~~ Discharged R645934.

RM

5. DP259135 Restriction as to user.

RG 2/62

NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR GENERAL ARE CANCELLED

PERSONS ARE CAUTIONED AGAINST ALTERING OR ADDING TO THIS CERTIFICATE OR ANY NOTIFICATION HEREON

WARNING: THIS DOCUMENT MUST NOT BE REMOVED FROM THE REGISTRAR GENERAL'S OFFICE.

Req:R658589 /Doc:CT 13940-183 CT /Rev:28-Feb-2011 /NSW LRS /Pgs:ALL /Prt:16-Sep-2020 09:55 /Seq:2 of 2
© Office of the Registrar-General /Src:INFOTRACK /Ref:Kemps Creek 884-928 INFOTRACKamre Road

FIRST SCHEDULE (continued)

REGISTERED PROPRIETOR	INSTRUMENT NATURE	INSTRUMENT NUMBER	REGISTERED	Signature of Registrar General
Percival Bartolo of Austral, Market Gardener and Mary Bartolo his wife, as joint tenants	Transfer	S935505	17-10-1980	

R645934 Dm R
R921151 DM R
R935505 Te R
(~~Ent 53 DP 606341~~)

SECOND SCHEDULE (continued)

INSTRUMENT NATURE	INSTRUMENT NUMBER	PARTICULARS	REGISTERED	Signature of Registrar General	CANCELLATION	
		The interest of the Council of the City of Penrith in the addition to existing road shown on D.P. 606341	28.11.1979			

NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR GENERAL ARE CANCELLED

Historical Title

NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE
16/9/2020 9:53AM

FOLIO: 53/259135

First Title(s): SEE PRIOR TITLE(S)
Prior Title(s): VOL 13940 FOL 183

Recorded	Number	Type of Instrument	C.T. Issue
5/6/1987		TITLE AUTOMATION PROJECT	LOT RECORDED FOLIO NOT CREATED
28/9/1987		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED
18/11/1993		AMENDMENT: LOCAL GOVT AREA	
13/11/2007	AD560942	CAVEAT	
14/2/2012	AG810891	WITHDRAWAL OF CAVEAT	
11/3/2013	AH601743	DEPARTMENTAL DEALING	
16/9/2019	AP537650	CHANGE OF NAME	EDITION 1

*** END OF SEARCH ***

Kemps Creek 884-928 Mamre Road PRINTED ON 16/9/2020

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Title Search

NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

FOLIO: 53/259135

SEARCH DATE	TIME	EDITION NO	DATE
16/9/2020	9:51 AM	1	16/9/2019

LAND

LOT 53 IN DEPOSITED PLAN 259135
AT SOUTH ST.MARYS
LOCAL GOVERNMENT AREA PENRITH
PARISH OF MELVILLE COUNTY OF CUMBERLAND
TITLE DIAGRAM DP259135

FIRST SCHEDULE

PERCY BARTOLO
MARY BARTOLO
AS JOINT TENANTS (CN AP537650)

SECOND SCHEDULE (3 NOTIFICATIONS)

1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
2 DP259135 RESTRICTION(S) ON THE USE OF LAND
3 THE INTEREST(S) OF THE COUNCIL OF THE CITY OF PENRITH IN ADDITION TO EXISTING ROAD SHOWN ON DP606341

NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

Kemps Creek 884-928 Mamre Road PRINTED ON 16/9/2020

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Appendix H Section 10.7(2&5) Council Planning Certificates

PENRITH CITY COUNCIL

Civic Centre
601 High Street, Penrith

PO Box 60 Penrith NSW 2751

Telephone: 02 4732 7777
Facsimile: 02 4732 7958

Email: pencit@penrithcity.nsw.gov.au

PLANNING CERTIFICATE UNDER SECTION 10.7

Environmental Planning and Assessment Act, 1979

Property No: 403361
Your Reference: 59637
Contact No:

Issue Date: 17 September 2020
Certificate No: 20/04210

Issued to: Mr M Swinfield
Level 1 50 Margaret Street
SYDNEY NSW 2000

PRECINCT 222

DESCRIPTION OF LAND

County: CUMBERLAND **Parish: MELVILLE**

Location: 904-928 Mamre Road KEMPS CREEK NSW 2178
Land Description: Lot 52 DP 259135

- PART 1 PRESCRIBED MATTERS –

In accordance with the provisions of Section 10.7(2) of the Act the following information is furnished in respect of the abovementioned land:

1 NAMES OF RELEVANT PLANNING INSTRUMENTS AND DCPs

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

Penrith Local Environmental Plan No. 255 - Exempt and Complying Development, gazetted 24 March 2000, as amended, applies to land within the City of Penrith. (Note: This plan does not apply to the land to which Sydney Regional Environmental Plan No.30 - St Marys applies, except as provided by clause 43 of SREP No. 30 - St Marys.)

Penrith Local Environmental Plan No. 258 - Consent for Dwelling Houses and Other Development, gazetted 29 June 2001, applies to the land.

Sydney Regional Environmental Plan No.9 - Extractive Industry (No.2), gazetted 15 September 1995, as amended, applies to the local government area of Penrith.

Sydney Regional Environmental Plan No. 20 - Hawkesbury-Nepean River (No. 2 - 1997), gazetted 7 November 1997, as amended, applies to the local government area of Penrith (except land to which State Environmental Planning Policy (Penrith Lakes Scheme) 1989 applies).

The following State environmental planning policies apply to the land (subject to the exclusions noted below):

State Environmental Planning Policy No.19 - Bushland in Urban Areas. (Note: This policy does not apply to certain land referred to in the National Parks and Wildlife Act 1974 and the Forestry Act 1916.)

State Environmental Planning Policy No.21 - Caravan Parks.
State Environmental Planning Policy No.33 - Hazardous and Offensive Development.
State Environmental Planning Policy No.50 - Canal Estate Development. (Note: This policy does not apply to the land to which State Environmental Planning Policy (Penrith Lakes Scheme) 1989 applies.
State Environmental Planning Policy No.55 - Remediation of Land.
State Environmental Planning Policy No.64 - Advertising and Signage.
State Environmental Planning Policy No.65 - Design Quality of Residential Apartment Development.
State Environmental Planning Policy No.70 - Affordable Housing (Revised Schemes).
State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 (Note: This policy applies to land within New South Wales that is land zoned primarily for urban purposes or land that adjoins land zoned primarily for urban purposes, but only as detailed in clause 4, 4A and 4B of the policy.)
State Environmental Planning Policy (Building Sustainability Index: BASIX) 2004.
State Environmental Planning Policy (State Significant Precincts) 2005.
State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 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.
State Environmental Planning Policy (State and Regional Development) 2011.
State Environmental Planning Policy (Vegetation in Non-Rural Areas) 2017.
State Environmental Planning Policy (Education Establishments and Child Care Centre Facilities) 2017.
State Environmental Planning Policy (Primary Production and Rural Development) 2019.

State Environmental Planning Policy (Western Sydney Employment Area) 2009 applies to the land. Under the terms of this Policy the land is partly zoned Zone IN1 General Industrial and partly zoned Zone SP2 Infrastructure.

Zone IN1 General Industrial

1 Objectives of zone
• To facilitate a wide range of employment-generating development including industrial, manufacturing, warehousing, storage and research uses and ancillary office space.
• To encourage employment opportunities along motorway corridors, including the M7 and M4.
• To minimise any adverse effect of industry on other land uses.
• To facilitate road network links to the M7 and M4 Motorways.
• To encourage a high standard of development that does not prejudice the sustainability of other enterprises or the environment.
• To provide for small-scale local services such as commercial, retail and community facilities (including child care facilities) that service or support the needs of employment-generating uses in the zone.

2 Permitted without consent
Nil.

3 Permitted with consent
Building identification signs; Business identification signs; Depots; Environmental facilities; Environmental protection works; Food and drink premises; Freight transport facilities; Garden centres; Hardware and building supplies; Industrial retail outlets; Industrial training facilities; Industries (other

than offensive or hazardous industries); Neighbourhood shops; Places of public worship; Recreation areas; Recreation facilities (indoor); Roads; Service stations; Storage premises; Transport depots; Truck depots; Vehicle body repair workshops; Vehicle repair stations; Warehouse or distribution centres.

4 Prohibited
Any development not specified in item 2 or 3.

Zone SP2 Infrastructure
1 Objectives of zone
• To provide for infrastructure and related uses.
• To prevent development that is not compatible with or that may detract from the provision of infrastructure.
2 Permitted without consent
Nil
3 Permitted with consent
Roads; The purpose shown on the Land Zoning Map, including any development that is ordinarily incidental or ancillary to development for that purpose
4 Prohibited
Any development not specified in item 2 or 3

Note 1: Land to which State Environmental Planning Policy (Western Sydney Employment Area) 2009 applies may be subdivided but only with consent. Consent is not required for subdivision detailed in Clause 14(2) of this Policy.

Note 2: Under the terms of Clause 15 of State Environmental Planning Policy (Western Sydney Employment Area) 2009 despite any other provision of this Policy, a person may, with consent, carry out development for the purposes of a child care centre on land to which this Policy applies.

1(2) The name of each proposed environmental planning instrument that will apply to the carrying out of development on the land and that is or has been the subject of community consultation or on public exhibition under the Act:

(Information is provided in this section only if a proposed environmental planning instrument that is or has been the subject of community consultation or on public exhibition under the Act will apply to the carrying out of development on the land.)

Draft State Environmental Planning Policy (Environment) applies to the land.

Draft State Environmental Planning Policy (Remediation of Land) applies to the land.

Draft State Environmental Planning Policy (Housing Diversity) 2020 applies to the land.

Draft State Environmental Planning Policy (Cumberland Plain Conservation) applies to the land.

1(3) The name of each development control plan that applies to the carrying out of development on the land:

Penrith Development Control Plan 2014 applies to the land.

2 ZONING AND LAND USE UNDER RELEVANT LEPs

For each environmental planning instrument or proposed instrument referred to in clause 1 (other than a SEPP or proposed SEPP) that includes the land in any zone (however described):

2(a)-(d) the identity of the zone; the purposes that may be carried out without development consent; the purposes that may not be carried out except with development consent; and the purposes that are prohibited within the zone. Any zone(s) applying to the land is/are listed below and/or in annexures.

(Note: If no zoning appears in this section see section 1(1) for zoning and land use details (under the Sydney Regional Environmental Plan or State Environmental Planning Policy that zones this property).)

Penrith Local Environmental Plan No. 258 - Consent for Dwelling Houses and Other Development
In addition to any controls detailed above Penrith Local Environmental Plan No. 258 - Consent for Dwelling Houses and Other Development sets out further circumstances where development consent will be required for particular development. A copy of this LEP is attached.

2(e) whether any development standards applying to the land fix minimum land dimensions for the erection of a dwelling-house on the land and, if so, the minimum land dimensions so fixed:

(Information is provided in this section only if any development standards applying to the land fix minimum land dimensions for the erection of a dwelling-house on the land and, if so, the minimum land dimensions so fixed.)

2(f) whether the land includes or comprises critical habitat:

(Information is provided in this section only if the land includes or comprises critical habitat.)

2(g) whether the land is in a conservation area (however described):

(Information is provided in this section only if the land is in a conservation area (however described).)

2(h) whether an item of environmental heritage (however described) is situated on the land:

(Information is provided in this section only if an item of environmental heritage (however described) is situated on the land.)

2A ZONING AND LAND USE UNDER STATE ENVIRONMENTAL PLANNING POLICY (SYDNEY REGION GROWTH CENTRES) 2006

(Information is provided in this section only if the land is within any zone under State Environmental Planning Policy (Sydney Region Growth Centres) 2006.)

PENRITH CITY COUNCIL

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3 COMPLYING DEVELOPMENT

HOUSING CODE

(The Housing Code only applies if the land is within Zones R1, R2, R3, R4 or RU5 under Penrith Local Environmental Plan 2010 or an equivalent zone in a non standard template planning instrument.)

- The land is affected by a reservation for a public purpose. If the land is within the relevant zones complying development under the Housing Code **may not** be carried out on any part of the land that is reserved for a public purpose by an environmental planning instrument. Complying development **may** be carried out on any part of the land that is not reserved for a public purpose by an environmental planning instrument. For the purposes of this section "public purpose" means any land that is zoned either Zone E1, RE1, SP1 or SP2 under Penrith Local Environmental Plan 2010, State Environmental Planning Policy - Major Infrastructure Corridors 2020 or an equivalent zone in a non standard template planning instrument, or land that is subject to acquisition.

- The land is affected by a 25 ANEF contour or a higher ANEF contour. If the land is within the relevant zones complying development under the Housing Code **may not** be carried out on any part of the land that is in the 25 ANEF contour or a higher ANEF contour, unless the development is only for the erection of ancillary development, attached development or detached development or the alteration of or an addition to ancillary development, attached development or detached development. Complying development **may** be carried out on any part of the land that is not in the 25 ANEF contour or a higher ANEF contour. Contact Council for the location of the 25 ANEF contour or higher ANEF contour.

RURAL HOUSING CODE

(The Rural Housing Code only applies if the land is within Zones RU1, RU2, RU3, RU4, RU6 or R5 under Penrith Local Environmental Plan 2010 or an equivalent zone in a non standard template planning instrument.)

- The land is affected by a reservation for a public purpose. If the land is within the relevant zones complying development under the Rural Housing Code **may not** be carried out on any part of the land that is reserved for a public purpose by an environmental planning instrument. Complying development **may** be carried out on any part of the land that is not reserved for a public purpose by an environmental planning instrument. For the purposes of this section "public purpose" means any land that is zoned either Zone E1, RE1, SP1 or SP2 under Penrith Local Environmental Plan 2010, State Environmental Planning Policy - Major Infrastructure Corridors 2020 or an equivalent zone in a non standard template planning instrument, or land that is subject to acquisition.

- The land is affected by a 25 ANEF contour or a higher ANEF contour. If the land is within the relevant zones complying development under the General Housing Code **may not** be carried out on any part of the land that is in the 25 ANEF contour or a higher ANEF contour, unless the development is only for the erection of ancillary development, attached development or detached development or the alteration of or an addition to ancillary development, attached development or detached development. Complying development **may** be carried out on any

part of the land that is not in the 25 ANEF contour or a higher ANEF contour. Contact Council for the location of the 25 ANEF contour or higher ANEF contour.

LOW RISE HOUSING DIVERSITY CODE

(The Low Rise Housing Diversity Code only applies if the land is within Zones R1, R2, R3 or RU5 under Penrith Local Environmental Plan 2010 or an equivalent zone in a non standard template planning instrument.)

- The land is affected by a reservation for a public purpose. If the land is within the relevant zones complying development under the Low Rise Housing Diversity Code **may not** be carried out on any part of the land that is reserved for a public purpose by an environmental planning instrument. Complying development **may** be carried out on any part of the land that is not reserved for a public purpose by an environmental planning instrument. For the purposes of this section "public purpose" means any land that is zoned either Zone E1, RE1, SP1 or SP2 under Penrith Local Environmental Plan 2010, State Environmental Planning Policy - Major Infrastructure Corridors 2020 or an equivalent zone in a non standard template planning instrument, or land that is subject to acquisition.

- The land is affected by a 25 ANEF contour or a higher ANEF contour. If the land is within the relevant zones complying development under the Low Rise Housing Diversity Code **may not** be carried out on any part of the land that is in the 25 ANEF contour or a higher ANEF contour, unless the development is only for the erection of ancillary development, attached development or detached development or the alteration of or an addition to ancillary development, attached development or detached development. Complying development **may** be carried out on any part of the land that is not in the 25 ANEF contour or a higher ANEF contour. Contact Council for the location of the 25 ANEF contour or higher ANEF contour.

GREENFIELD HOUSING CODE

(The Greenfield Housing Code only applies if the land is within Zones R1, R2, R3, R4 or RU5 under Penrith Local Environmental Plan 2010 or an equivalent zone in a non standard template planning instrument, and if the land is identified as a Greenfield Housing Code Area by the Greenfield Housing Code Area Map.)

- The land is affected by a reservation for a public purpose. If the land is within the relevant zones, and if the land is identified as a Greenfield Housing Code Area by the Greenfield Housing Code Area Map complying development under the Greenfield Housing Code **may not** be carried out on any part of the land that is reserved for a public purpose by an environmental planning instrument. Complying development **may** be carried out on any part of the land that is not reserved for a public purpose by an environmental planning instrument. For the purposes of this section "public purpose" means any land that is zoned either Zone E1, RE1, SP1 or SP2 under Penrith Local Environmental Plan 2010, State Environmental Planning Policy - Major Infrastructure Corridors 2020 or an equivalent zone in a non standard template planning instrument, or land that is subject to acquisition.

- The land is affected by a 25 ANEF contour or a higher ANEF contour. If the land is within the relevant zones, and if the land is identified as a Greenfield Housing Code Area by the Greenfield Housing Code Area Map complying development under the Greenfield Housing Code **may not** be carried out on any part of the land that is in the 25 ANEF contour or a higher ANEF contour, unless the development is only for the erection of ancillary development, attached development or detached development or the alteration of or an addition to ancillary development, attached development or detached development. Complying development **may** be carried out on any part of the land that is not in the 25 ANEF contour or a higher ANEF contour. Contact Council for the location of the 25 ANEF contour or higher ANEF contour.

HOUSING ALTERATIONS CODE

Complying development under the Housing Alterations Code **may** be carried out on the land.

GENERAL DEVELOPMENT CODE

Complying development under the General Development Code **may** be carried out on the land.

COMMERCIAL AND INDUSTRIAL ALTERATIONS CODE

Complying development under the Commercial and Industrial Alterations Code **may** be carried out on the land.

SUBDIVISIONS CODE

Complying development under the Subdivisions Code **may** be carried out on the land.

DEMOLITION CODE

Complying development under the Demolition Code **may** be carried out on the land.

COMMERCIAL AND INDUSTRIAL (NEW BUILDINGS AND ADDITIONS) CODE

(The Commercial and Industrial (New Buildings and Additions) Code only applies if the land is within Zones B1, B2, B3, B4, B5, B6, B7, B8, IN1, IN2, IN3, IN4 or SP3 under Penrith Local Environmental Plan 2010 or an equivalent zone in a non standard template planning instrument.)

- The land is affected by a reservation for a public purpose. If the land is within the relevant zones complying development under the Commercial and Industrial (New Buildings and Additions) Code **may not** be carried out on any part of the land that is reserved for a public purpose by an environmental planning instrument. Complying development **may** be carried out on any part of the land that is not reserved for a public purpose by an environmental planning instrument. For the purposes of this section "public purpose" means any land that is zoned either Zone E1, RE1, SP1 or SP2 under Penrith Local Environmental Plan 2010, State Environmental Planning Policy - Major Infrastructure Corridors 2020 or an equivalent zone in a non standard template planning instrument, or land that is subject to acquisition.

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PLANNING CERTIFICATE UNDER SECTION 10.7

Environmental Planning and Assessment Act, 1979

FIRE SAFETY CODE

Complying development under the Fire Safety Code **may** be carried out on the land.

(NOTE: (1) Council has relied on Planning and Infrastructure Circulars and Fact Sheets in the preparation of this information. Applicants should seek their own legal advice in relation to this matter with particular reference to State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.

(2) Penrith Local Environmental Plan 2010 (if it applies to the land) contains additional complying development not specified in State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.)

4 COASTAL PROTECTION

The land is not affected by the operation of sections 38 or 39 of the Coastal Protection Act 1979, to the extent that council has been so notified by the Department of Public Works.

5 MINE SUBSIDENCE

The land is not proclaimed to be a mine subsidence district within the meaning of section 15 of the Mine Subsidence Compensation Act 1961.

6 ROAD WIDENING AND ROAD REALIGNMENT

The land is affected by road widening or road realignment under
(a) Division 2 of Part 3 of the Roads Act 1993, or
(b) an environmental planning instrument, or
(c) a resolution of Council.
Note: Additional advice may be available in section 10.7(5) information.
The land may be affected by a proposed road shown on the State Environmental Planning Policy (Western Sydney Employment Area) 2009 Transport and Arterial Road Infrastructure Plan Map (sheet TA1 001). Contact the Department of Planning, Industry, and Environment for details.

7 COUNCIL AND OTHER PUBLIC AUTHORITY POLICIES ON HAZARD RISK RESTRICTIONS

(a) Council Policies
The land is affected by the Asbestos Policy adopted by Council.
The land is not affected by any other policy adopted by the council that restricts the development of the land because of the likelihood of land slip, bushfire, tidal inundation, subsidence, acid sulphate soils or any other risk (other than flooding).

(b) Other Public Authority Policies
The Bush Fire Co-ordinating Committee has adopted a Bush Fire Risk Management Plan that covers the local government area of Penrith City Council, and includes public, private and Commonwealth lands.
The land is not affected by a policy adopted by any other public authority and notified to the council for the express purpose of its adoption by that authority being referred to in planning certificates issued by the council, that restricts the development of the land because of the likelihood of land slip, tidal inundation, subsidence, acid sulphate soils or any other risk (other than flooding).

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PLANNING CERTIFICATE UNDER SECTION 10.7

Environmental Planning and Assessment Act, 1979

7A FLOOD RELATED DEVELOPMENT CONTROLS INFORMATION

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

(2) Development on the land or part of the land for industrial or commercial purposes (if such uses are permissible on the land) is subject to flood related development controls.
Development on the land or part of the land for purposes other than industrial or commercial, or for purposes other than those referred to in (1) above, will be considered on a merits based approach and flood related development controls may apply.

Note: The land is subject to Penrith Development Control Plan 2014 Section C3.5 Flood Planning. On application and payment of the prescribed fee Council may be able to provide in writing a range of advice in regard to the extent of flooding affecting the property.

8 LAND RESERVED FOR ACQUISITION

The land is affected by provisions under an environmental planning instrument, a deemed environmental planning instrument or a draft environmental planning instrument applying to the land that provides for acquisition by a public authority, as referred to in section 3.15 of the Act.

9 CONTRIBUTIONS PLANS

The Cultural Facilities Development Contributions Plan applies anywhere residential development is permitted within the City of Penrith.

The Penrith City Local Open Space Development Contributions Plan applies anywhere residential development is permitted within the City of Penrith, excluding industrial areas and the release areas identified in Appendix B of the Plan (Penrith Lakes, Cranebrook, Sydney Regional Environmental Plan No. 30 - St Marys, Waterside, Thornton, the WELL Precinct, Glenmore Park and Erskine Park).

The Penrith City District Open Space Facilities Development Contributions Plan applies anywhere residential development is permitted within the City of Penrith, with the exclusion of industrial lands and the Penrith Lakes development site.

Penrith Citywide Section 7.12 Development Contributions Plan for non-residential development applies to all land in the City of Penrith LGA, with the exception of land within the Lambridge Estate, WELL Precinct and Penrith City Centre that are currently subject to other development contributions plans for non-residential development.

9A BIODIVERSITY CERTIFIED LAND

(Information is provided in this section only if the land is biodiversity certified land under Part 8 of the *Biodiversity Conservation Act 2016*.)

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10 BIODIVERSITY STEWARDSHIP SITES

(Information is provided in this section only if Council has been notified by the Chief Executive of the Office of Environment and Heritage that the land is land to which a biobanking stewardship agreement under Part 5 of the *Biodiversity Conservation Act 2016* relates.)

10A NATIVE VEGETATION CLEARING SET ASIDES

(Information is provided in this section only if Council has been notified of the existence of a set aside area by Local Land Services or it is registered in the public register under which section 60ZC of the *Local Land Services Act 2013* relates).

11 BUSH FIRE PRONE LAND

All of the land is identified as bush fire prone land according to Council records. Guidance as to restrictions that may be placed on the land as a result of the land being bush fire prone can be obtained by contacting Council. Such advice would be subject to further requirements of the NSW Rural Fire Services.

12 PROPERTY VEGETATION PLANS

(Information is provided in this section only if Council has been notified that the land is land to which a property vegetation plan approved under the *Native Vegetation Act 2003* applies and continues in force.)

13 ORDERS UNDER TREES (DISPUTES BETWEEN NEIGHBOURS) ACT 2006

(Information is provided in this section only if Council has been notified that an order has been made under the Trees (Disputes Between Neighbours) Act 2006 to carry out work in relation to a tree on the land.)

14 DIRECTIONS UNDER PART 3A

(Information is provided in this section only if there is a direction by the Minister in force under section 75P(2)(c1) of the Act (repealed on 1st October 2011) that a provision of an environmental planning instrument prohibiting or restricting the carrying out of a project or a stage of a project on the land under Part 4 of the Act does not have effect.)

15 SITE COMPATIBILITY CERTIFICATES AND CONDITIONS AFFECTING SENIORS HOUSING

(Information is provided in this section only if:

(a) there is a current site compatibility certificate (seniors housing), of which the council is aware, issued under State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 in respect of proposed development on the land; and/or

(b) any terms of a kind referred to in clause 18(2) of State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 have been imposed as a condition of consent to a development application granted after 11 October 2007 in respect of the land.)

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PLANNING CERTIFICATE UNDER SECTION 10.7

Environmental Planning and Assessment Act, 1979

16 SITE COMPATIBILITY CERTIFICATES FOR INFRASTRUCTURE

(Information is provided in this section only if there is a valid site compatibility certificate (infrastructure), of which council is aware, in respect of proposed development on the land.)

17 SITE COMPATIBILITY CERTIFICATES AND CONDITIONS FOR AFFORDABLE RENTAL HOUSING

(Information is provided in this section only if:

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

(b) any terms of a kind referred to in clause 17(1) or 37(1) of State Environmental Planning Policy (Affordable Rental Housing) 2009 have been imposed as a condition of consent to a development application in respect of the land.)

18 PAPER SUBDIVISION INFORMATION

(Information is provided in this section only if a development plan adopted by a relevant authority applies to the land or is proposed to be subject to a consent ballot, or a subdivision order applies to the land.)

19 SITE VERIFICATION CERTIFICATES

(Information is provided in this section only if there is a current site verification certificate, of which council is aware, in respect of the land.)

NOTE: The following matters are prescribed by section 59(2) of the Contaminated Land Management Act 1997 as additional matters to be specified in a planning certificate

(a) (Information is provided in this section only if, as at the date of this certificate, the land (or part of the land) is significantly contaminated land within the meaning of the Contaminated Land Management Act 1997.)

(b) (Information is provided in this section only if, as at the date of this certificate, the land is subject to a management order within the meaning of the Contaminated Land Management Act 1997.)

(c) (Information is provided in this section only if, as at the date of this certificate, the land is the subject of an approved voluntary management proposal within the meaning of the Contaminated Land Management Act 1997.)

(d) (Information is provided in this section only if, at the date of this certificate, the land subject to an ongoing maintenance order within the meaning of the Contaminated Land Management Act 1997.)

(e) (Information is provided in this section only if the land is the subject of a site audit statement within the meaning of the Contaminated Land Management Act 1997 - a copy of which has been provided to Council.)

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Note: Section 10.7(5) information for this property may contain additional information regarding contamination issues.

20 LOOSE FILL ASBESTOS INSULATION

(Information is provided in this section only if there is a residential premises listed on the register of residential premises that contain or have contained loose-fill asbestos insulation (as required by Division 1A of Part 8 of the Home Building Act 1989))

21 AFFECTED BUILDING NOTICES AND BUILDING PRODUCT RECTIFICATION ORDERS

(Information is provided in this section only if Council is aware of any "affected building notice" and/or a "building product rectification order" in force for the land).

Note: The Environmental Planning and Assessment Amendment Act 2017 commenced operation on the 1 March 2018. As a consequence of this Act the information contained in this certificate needs to be read in conjunction with the provisions of the Environmental Planning and Assessment (Savings, Transitional and Other Provisions) Regulation 2017, and Environmental Planning and Assessment Regulation 2000.

Information is provided only to the extent that Council has been notified by relevant government departments.

10.7(5) Certificate
This Certificate is directed to the following relevant matters affecting the land

When information pursuant to section 10.7(5) is requested the Council is under no obligation to furnish any of the information supplied herein pursuant to that section. Council draws your attention to section 10.7(6) which states that a council shall not incur any liability in respect of any advice provided in good faith pursuant to sub-section (5). The absence of any reference to any matter affecting the land shall not imply that the land is not affected by any matter not referred to in this certificate.

Note:

- Council's 10.7(5) information does not include development consent or easement information. Details of development consents may be obtained by making enquiries with Council's Development Services Department pursuant to section 12 of the Local Government Act 1993 or (for development applications lodged after January 2007) by viewing the Online Services area at www.penrithcity.nsw.gov.au . Details of any easements may be obtained from a Title Search at Land and Property Information New South Wales.
- This certificate does not contain information relating to Complying Development Certificates.
- This certificate may not provide full details of development rights over the land.

* Biodiversity Conservation Act 2016

When considering any development application Council must have regard to the Biodiversity Conservation Act 2016. Please note that this legislation may have application to any land throughout the city. Interested persons should make their own enquiries in regard to the impact that this legislation could have on this land.

PLANNING CERTIFICATE UNDER SECTION 10.7

Environmental Planning and Assessment Act, 1979

* Preservation of Trees or Vegetation

Clause 32 of State Environmental Planning Policy (Western Sydney Employment Area) 2009 details requirements relating to the preservation of trees or vegetation.

* Agricultural Activities Within Rural Areas

This property is located in a rural area and there may be certain agricultural activities occurring that some people may find offensive (for example noise, dust and odours). This should be considered if you purchase the subject property or build a dwelling thereon.
If you do purchase the subject property or build a dwelling, the potential impact that your activities (for example pets, inadequate fencing, drainage, litter and poor weed control) might have on the agricultural activities in the area should also be considered.

* Preservation of Trees and Vegetation

See Chapter C2 of Penrith Development Control Plan 2014 for specific controls relating to the preservation of trees and vegetation.

* Development Control Plan General Information

Penrith Development Control Plan 2014 which applies to the land, sets out requirements for a range of issues that apply across the Penrith Local Government Area, including:

- Site Planning and Design Principles
- Vegetation Management
- Water Management
- Land Management
- Waste Management
- Landscape Design
- Culture and Heritage
- Public Domain
- Advertising and Signage
- Transport, Access and Parking
- Subdivision
- Noise and Vibration, and
- Infrastructure and Services.

The Development Control Plan also specifies requirements relating to various types of land uses including:

- Rural Land Uses
- Residential Development
- Commercial and Retail Development, and
- Industrial Development

as well as for a number of specific activities, including child care centres; health consulting rooms; educational establishments; parent friendly amenities; places of public worship; vehicle repair stations; cemeteries, crematoria and funeral homes; extractive industries; and telecommunication facilities.

The Development Control Plan also details requirements relating to key precincts within the Penrith Local Government Area, including:

- Caddens
- Claremont Meadows Stage 2

- Cranebrook
- Emu Heights
- Emu Plains
- Erskine Business Park
- Glenmore Park
- Kingswood
- Mulgoa Valley
- Orchard Hills
- Penrith
- Penrith Health and Education Precinct
- Riverlink Precinct
- St Clair,
- St Marys / St Marys North, and
- Sydney Science Park.

Penrith Development Control Plan 2014 may be accessed at https://www.penrithcity.nsw.gov.au/Building-and-Development/Planning-and-Zoning/Planning-Controls/Development-Control-Plans/

*** Western Sydney Airport**

The land the subject of this certificate is in the vicinity of the proposed Badgery's Creek airport site and is located within the Australian Noise Exposure Forecast (ANEF) shown on the map in Appendix U of the 1985 draft environmental impact statement for the second Sydney Airport.
The land is affected by the **20 - 25 ANEF and the 25 - 30 ANEF**.
In regard to land affected by the ANEF Clause 7.9 of Penrith Local Environmental Plan No.2010 states:
"**7.9 Development of land in the flight paths of the site reserved for the proposed Second Sydney Airport**

(1) The objective of this clause is to ensure that development in the vicinity of the proposed Badgery's Creek airport site:
  (a) has regard to the use or potential future use of the site as an airport, and
  (b) does not hinder or have any other adverse impact on the development or operation of an airport on that site.

(2) This clause applies to development that:
  (a) is on land that:
    (i) is near the proposed Badgery's Creek airport site, and
    (ii) is in an ANEF contour of 20 or greater, and
  (b) the consent authority considers is likely to be adversely affected by aircraft noise.

(3) Before determining a development application for development to which this clause applies, the consent authority:
  (a) must consider whether the development will result in an increase in the number of dwellings or people affected by aircraft noise, and
  (b) must consider the location of the development in relation to the criteria set out in Table 2.1 (Building Site Acceptability Based on ANEF Zones) in AS 2021-2000, and
  (c) must be satisfied that the development will meet AS 2021-2000 with respect to interior noise levels for the purposes of:

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(i) if the development will be in an ANEF contour or 20 or greater - child care centres, educational establishments, entertainment facilities, hospitals, places of public worship, public administration buildings or residential accommodation, and

(ii) if the development will be in an ANEF contour of 25 or greater - commercial premises, hostels or hotel or motel accommodation.

(4) In this clause:

ANEF contour means a noise exposure contour shown as an ANEF contour on the map in Appendix U of the draft environmental impact statement for the Second Sydney Airport, copies of which are deposited in the Office of the Council and of the Commonwealth Department of Infrastructure, Transport, Regional Development and Local Government.

AS 2021-2000 means AS 2021-2000, *Acoustics-Aircraft noise intrusion-Building siting and construction."*

(Note: The Australian Government announced on 15 April 2014 that Badgerys Creek will be the site for a new airport for Western Sydney. On 12 December 2016, the Government announced the approval of the Airport Plan, authorising Stage 1 of the Western Sydney Airport. Stage 1 comprises a single runway and facilities to cater for up to 10 million passengers a year. This approval follows an assessment of the Airport Plan and its Environmental Impact Statement by the Environment Minister. Enquiries regarding the Western Sydney Airport should be made with the Department of Infrastructure and Regional Development. (Website: <http://westernsydneyairport.gov.au>))

Warwick Winn
General Manager

PER



Please note:

Certain amendments to the Environmental Planning and Assessment Act 1979 No 203 (Act) commenced on 1 March 2018.

The Environmental Planning and Assessment (Amendment) Act 2017 No 60 makes structural changes to the Act and, as a consequence, the Act has been renumbered in a decimal format. For example, Section 149 Planning Certificates have become Section 10.7 Certificates. Some of the information in this certificate may refer to the previous version of the Act.

Council is committed to updating all relevant documents in a timely manner. This will include planning instruments, applications, approvals, orders, certificates, forms and other associated documents in both printed and electronic versions. Council is required to implement these changes and regrets any inconvenience caused to the local business, industry and the community.

Attachment

Penrith Local Environmental Plan No 258 - Consent for Dwelling Houses and Other Development

1 Name of plan

This plan is *Penrith Local Environmental Plan No 258 - Consent for Dwelling Houses and Other Development.*

2 Aims of plan

This plan aims to:

(a) require development consent for dwelling houses on residentially zoned land within the City of Penrith, and

(b) require development consent for dwelling houses on land within the Non-urban zone under the *Penrith Planning Scheme Ordinance* and on land within the Special Business zone under *Penrith Local Environmental Plan 1997 (Penrith City Centre)*, and

(c) require development consent for dwelling houses attached to and used in conjunction with shops on land within the Neighbourhood Business zone under the *Penrith Planning Scheme Ordinance*, and

(d) require development consent for the following:

(i) the erection of a building or structure ordinarily associated with a dwelling house,
(ii) a change of building use,

Note. At the commencement of this plan, **a change of building use** meant a change of use of a building from a use that the *Building Code of Australia* recognises as appropriate to one class of building to a use that the *Building Code of Australia* recognises as appropriate to a different class of building.

(iii) demolition of a building or structure,
(iv) carrying out structural alterations to a building, internal alterations to a building, or external building work in association with business premises, a bed and breakfast establishment, office premises, commercial premises or take away food shops,
(v) the subdivision of land,

to the extent to which such development does not already require development consent because of another environmental planning instrument in order to be carried out.

3 Land to which plan applies

This plan applies to all land within the City of Penrith.

4 Relationship to other environmental planning instruments

(1) In the event of an inconsistency between this plan and any other local environmental planning instrument or deemed environmental planning instrument, this plan shall prevail to the extent of the inconsistency, subject to section 36 (4) of the Act.

(2) This plan amends:

(a) *Penrith Planning Scheme Ordinance* in the manner set out in Schedule 1,

(b) *Penrith Local Environmental Plan 1997 (Penrith City Centre)* in the manner set out in Schedule 2, and

(c) *Penrith Local Environmental Plan 1998 (Urban Land)* in the manner set out in Schedule 3.

(3) This plan does not affect the application of:

(a) *State Environmental Planning Policy No 3 - Castlereagh Liquid Waste Disposal Depot,*

(b) State Environmental Planning Policy No 27 - Prison Sites,

(c) Sydney Regional Environmental Plan No 9 - Extractive Industry,

(d) Sydney Regional Environmental Plan No. 11 - Penrith Lakes Scheme,

(e) Sydney Regional Environmental Plan No 20 - Hawkesbury-Nepean River (No 2-1997),

(f) Sydney Regional Environmental Plan No 30 - St Marys, or

(g) Penrith Local Environmental Plan No 255 - Exempt and Complying Development,

to land to which this plan applies.

5 Definitions

(1) In this plan:

a building or structure ordinarily associated with a dwelling house means a garage, carport, pergola, swimming pool, and the like, and includes alterations and additions to an existing dwelling house.

change of building use has the same meaning as in the Act.

Note. At the commencement of this plan, a ***change of building use*** meant a change of use of a building from a use that the *Building Code of Australia* recognises as appropriate to one class of building to a use that the *Building Code of Australia* recognises as appropriate to a different class of building.

dwelling means a room or number of rooms occupied or used, or so constructed or adapted as to be capable of being occupied or used, as a separate domicile.

dwelling house means a dwelling which is the only dwelling erected on an allotment of land.

subdivision of land has the same meaning as in the Act.

the Act means the *Environmental Planning and Assessment Act 1979.*

(2) The list of contents and notes in this plan are not part of this plan.

6 Dwelling houses require development consent

(1) The erection of a dwelling house must not be carried out without development consent.

(2) This clause applies to residentially zoned land within the City of Penrith.

(3) This clause applies if the development:

(a) does not require development consent because of another environmental planning instrument, and

(b) is not prohibited by another environmental planning instrument.

7. Miscellaneous development that requires development consent

(1) The following development must not be carried out without development consent:

(a) erection of a building or structure ordinarily associated with a dwelling house, or

(b) development that results in a change of building use, or

(c) demolition of a building or structure, or

(d) structural, internal or external building work in association with business premises, a bed and breakfast establishment, office premises, commercial premises or take away food shops.

(2) This clause applies if the development:

(a) does not require development consent because of another environmental planning instrument, and

(b) is not prohibited by another environmental planning instrument, and

(c) is not identified in *Penrith Local Environmental Plan No 255 - Exempt and Complying Development* as exempt development, and

(d) does not involve Crown building work as defined in section 116G of the Act.

8 Subdivisions require development consent

(1) A subdivision of land must not be carried out without development consent.

(2) This clause applies if the subdivision of land:

(a) does not require development consent because of another environmental planning instrument, and

(b) is not prohibited by another environmental planning instrument, and

(c) is not identified in *Penrith Local Environmental Plan No 255 - Exempt and Complying Development* as exempt development, and

(d) does not involve Crown building work as defined in section 116G of the Act.

Schedule 1 Amendment of Penrith Planning Scheme Ordinance

(Clause 4 (2) (a))

[1] Clause 4 Interpretation
Omit the definition of ***Country dwelling.***

[2] Clause 26 Erection or use of buildings or works
Omit "country dwellings;" from Column III for Zone No 1 of the Table to the clause.

[3] Clause 26, Table
Omit "dwelling-houses other than country dwellings and rural dwellings;" from Column V for Zone No. 1.

[4] Clause 26, Table
Omit "Dwelling-houses other than semi-detached and terrace buildings." from Column III for Zone No 2(a).

[5] Clause 26, Table
Omit "Residential buildings." from Column III for Zone No 2 (b).

[6] Clause 26, Table
Omit "Dwelling-houses other than semi-detached or terrace buildings." from Column III for Zone No 2 (c).

[7] Clause 26, Table
Omit ";dwelling-houses attached to and used in conjunction with shops" from Column III for Zone No 3 (c).

[8] Clause 26, Table
Omit "Purposes" from Column IV for Zone No 3(c).

Insert instead "Buildings or other structures ordinarily associated with dwelling houses; changes of building use (as defined in the *Environmental Planning and Assessment Act 1979)*; dwelling-houses attached to and used in conjunction with shops; demolition of buildings or other structures; land uses and premises".

[9] Clause 26, Table
Insert "; structural or internal alterations to, or external building work in association with, commercial premises or refreshment rooms" after "roads" in Column IV for Zone No 3(c).

[10] Clause 38 Development in residential zones
Omit the clause.

[11] Clause 46 Variation of area required for country dwelling
Omit the clause.

Schedule 2 Amendment of Penrith Local Environmental

Plan 1997 (Penrith City Centre)

(Clause 4 (2) (b))

[1] Clause 9 Zone objectives and development control table

Omit from item (b) (i) **Without development consent** for Zone No 2 (f) in the Development Control Table:

- dwelling-houses

[2] Clause 9, table

Insert in alphabetical order in item (b) (ii) **Only with development consent** for Zone No 2 (f):

- buildings or other structures ordinarily associated with dwelling-houses
- demolition of buildings or other structures
- dwelling-houses

[3] Clause 20 Development of land within Zone No 3 (a)

Insert "where the new use does not involve structural or internal alterations or external buildings works" after the words "or take away food shops".

Schedule 3 Amendment of Penrith Local Environmental Plan 1998 (Urban Land)

(Clause 4 (2) (c))

[1] Clause 9 Zone objectives and development control table

Omit wherever occurring from item (b) (i) **Without development consent** for Zones Nos 2 (a1), 2 (a), 2 (b), 2 (c), 2 (d) and 2 (e) in the Development Control Table:

- dwelling houses

[2] Clause 9, table

Insert in alphabetical order in item (b) (ii) **Only with development consent** for Zones Nos 2 (a1), 2 (a), 2 (b), 2 (c), 2 (d) and 2 (e):

- buildings or other structures ordinarily associated with dwelling houses
- changes of building use (as defined in the Act)
- demolition of buildings or other structures
- dwelling houses
- internal structural work in bed and breakfast establishments

[3] Clause 9, table

Insert in alphabetical order in item b (ii) **Only with development consent** for Zones Nos 2 (r) and 2 (r1);

- buildings or other structures ordinarily associated with dwelling houses
- changes of building use (as defined in the Act)
- demolition of buildings or other structures
- structural or internal alterations to bed and breakfast establishments

[4] Clause 9, table

Insert in alphabetical order in item (b) (ii) **Only with development consent** for Zone No 3 (f):

- changes of building use (as defined in the Act)
- demolition of buildings or other structures
- external building work associated with an existing land use carried out with consent
- structural or internal alterations to a building or other structure erected with consent or building approval

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PLANNING CERTIFICATE UNDER SECTION 10.7

Environmental Planning and Assessment Act, 1979

Property No: 403370 Issue Date: 17 September 2020
Your Reference: 59637 Certificate No: 20/04211
Contact No:

Issued to: Mr M Swinfield
Level 1 50 Margaret Street
SYDNEY NSW 2000

PRECINCT 222

DESCRIPTION OF LAND

County: CUMBERLAND **Parish: MELVILLE**

Location: 884-902 Mamre Road KEMPS CREEK NSW 2178
Land Description: Lot 53 DP 259135

- PART 1 PRESCRIBED MATTERS –

In accordance with the provisions of Section 10.7(2) of the Act the following information is furnished in respect of the abovementioned land:

1 NAMES OF RELEVANT PLANNING INSTRUMENTS AND DCPs

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

Penrith Local Environmental Plan No. 255 - Exempt and Complying Development, gazetted 24 March 2000, as amended, applies to land within the City of Penrith. (Note: This plan does not apply to the land to which Sydney Regional Environmental Plan No.30 - St Marys applies, except as provided by clause 43 of SREP No. 30 - St Marys.)

Penrith Local Environmental Plan No. 258 - Consent for Dwelling Houses and Other Development, gazetted 29 June 2001, applies to the land.

Sydney Regional Environmental Plan No.9 - Extractive Industry (No.2), gazetted 15 September 1995, as amended, applies to the local government area of Penrith.

Sydney Regional Environmental Plan No. 20 - Hawkesbury-Nepean River (No. 2 - 1997), gazetted 7 November 1997, as amended, applies to the local government area of Penrith (except land to which State Environmental Planning Policy (Penrith Lakes Scheme) 1989 applies).

The following State environmental planning policies apply to the land (subject to the exclusions noted below):

State Environmental Planning Policy No.19 - Bushland in Urban Areas. (Note: This policy does not apply to certain land referred to in the National Parks and Wildlife Act 1974 and the Forestry Act 1916.)

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State Environmental Planning Policy No.21 - Caravan Parks.
State Environmental Planning Policy No.33 - Hazardous and Offensive Development.
State Environmental Planning Policy No.50 - Canal Estate Development. (Note: This policy does not apply to the land to which State Environmental Planning Policy (Penrith Lakes Scheme) 1989 applies.
State Environmental Planning Policy No.55 - Remediation of Land.
State Environmental Planning Policy No.64 - Advertising and Signage.
State Environmental Planning Policy No.65 - Design Quality of Residential Apartment Development.
State Environmental Planning Policy No.70 - Affordable Housing (Revised Schemes).
State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 (Note: This policy applies to land within New South Wales that is land zoned primarily for urban purposes or land that adjoins land zoned primarily for urban purposes, but only as detailed in clause 4, 4A and 4B of the policy.)
State Environmental Planning Policy (Building Sustainability Index: BASIX) 2004.
State Environmental Planning Policy (State Significant Precincts) 2005.
State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 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.
State Environmental Planning Policy (State and Regional Development) 2011.
State Environmental Planning Policy (Vegetation in Non-Rural Areas) 2017.
State Environmental Planning Policy (Education Establishments and Child Care Centre Facilities) 2017.
State Environmental Planning Policy (Primary Production and Rural Development) 2019.

State Environmental Planning Policy (Western Sydney Employment Area) 2009 applies to the land. Under the terms of this Policy the land is partly zoned Zone IN1 General Industrial and partly zoned Zone SP2 Infrastructure.

Zone IN1 General Industrial

1 Objectives of zone
• To facilitate a wide range of employment-generating development including industrial, manufacturing, warehousing, storage and research uses and ancillary office space.
• To encourage employment opportunities along motorway corridors, including the M7 and M4.
• To minimise any adverse effect of industry on other land uses.
• To facilitate road network links to the M7 and M4 Motorways.
• To encourage a high standard of development that does not prejudice the sustainability of other enterprises or the environment.
• To provide for small-scale local services such as commercial, retail and community facilities (including child care facilities) that service or support the needs of employment-generating uses in the zone.

2 Permitted without consent
Nil.

3 Permitted with consent
Building identification signs; Business identification signs; Depots; Environmental facilities; Environmental protection works; Food and drink premises; Freight transport facilities; Garden centres; Hardware and building supplies; Industrial retail outlets; Industrial training facilities; Industries (other

than offensive or hazardous industries); Neighbourhood shops; Places of public worship; Recreation areas; Recreation facilities (indoor); Roads; Service stations; Storage premises; Transport depots; Truck depots; Vehicle body repair workshops; Vehicle repair stations; Warehouse or distribution centres.

4 Prohibited
Any development not specified in item 2 or 3.

Zone SP2 Infrastructure
1 Objectives of zone
• To provide for infrastructure and related uses.
• To prevent development that is not compatible with or that may detract from the provision of infrastructure.

2 Permitted without consent
Nil

3 Permitted with consent
Roads; The purpose shown on the Land Zoning Map, including any development that is ordinarily incidental or ancillary to development for that purpose

4 Prohibited
Any development not specified in item 2 or 3

Note 1: Land to which State Environmental Planning Policy (Western Sydney Employment Area) 2009 applies may be subdivided but only with consent. Consent is not required for subdivision detailed in Clause 14(2) of this Policy.

Note 2: Under the terms of Clause 15 of State Environmental Planning Policy (Western Sydney Employment Area) 2009 despite any other provision of this Policy, a person may, with consent, carry out development for the purposes of a child care centre on land to which this Policy applies.

1(2) The name of each proposed environmental planning instrument that will apply to the carrying out of development on the land and that is or has been the subject of community consultation or on public exhibition under the Act:

(Information is provided in this section only if a proposed environmental planning instrument that is or has been the subject of community consultation or on public exhibition under the Act will apply to the carrying out of development on the land.)

Draft State Environmental Planning Policy (Environment) applies to the land.

Draft State Environmental Planning Policy (Remediation of Land) applies to the land.

Draft State Environmental Planning Policy (Housing Diversity) 2020 applies to the land.

Draft State Environmental Planning Policy (Cumberland Plain Conservation) applies to the land.

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PLANNING CERTIFICATE UNDER SECTION 10.7

Environmental Planning and Assessment Act, 1979

1(3) The name of each development control plan that applies to the carrying out of development on the land:

Penrith Development Control Plan 2014 applies to the land.

2 ZONING AND LAND USE UNDER RELEVANT LEPs

For each environmental planning instrument or proposed instrument referred to in clause 1 (other than a SEPP or proposed SEPP) that includes the land in any zone (however described):

2(a)-(d) the identity of the zone; the purposes that may be carried out without development consent; the purposes that may not be carried out except with development consent; and the purposes that are prohibited within the zone. Any zone(s) applying to the land is/are listed below and/or in annexures.

(Note: If no zoning appears in this section see section 1(1) for zoning and land use details (under the Sydney Regional Environmental Plan or State Environmental Planning Policy that zones this property).)

Penrith Local Environmental Plan No. 258 - Consent for Dwelling Houses and Other Development

In addition to any controls detailed above Penrith Local Environmental Plan No. 258 - Consent for Dwelling Houses and Other Development sets out further circumstances where development consent will be required for particular development. A copy of this LEP is attached.

2(e) whether any development standards applying to the land fix minimum land dimensions for the erection of a dwelling-house on the land and, if so, the minimum land dimensions so fixed:

(Information is provided in this section only if any development standards applying to the land fix minimum land dimensions for the erection of a dwelling-house on the land and, if so, the minimum land dimensions so fixed.)

2(f) whether the land includes or comprises critical habitat:

(Information is provided in this section only if the land includes or comprises critical habitat.)

2(g) whether the land is in a conservation area (however described):

(Information is provided in this section only if the land is in a conservation area (however described).)

2(h) whether an item of environmental heritage (however described) is situated on the land:

(Information is provided in this section only if an item of environmental heritage (however described) is situated on the land.)

2A ZONING AND LAND USE UNDER STATE ENVIRONMENTAL PLANNING POLICY (SYDNEY REGION GROWTH CENTRES) 2006

(Information is provided in this section only if the land is within any zone under State Environmental Planning Policy (Sydney Region Growth Centres) 2006.)

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3 COMPLYING DEVELOPMENT

HOUSING CODE

(The Housing Code only applies if the land is within Zones R1, R2, R3, R4 or RU5 under Penrith Local Environmental Plan 2010 or an equivalent zone in a non standard template planning instrument.)

- The land is affected by a reservation for a public purpose. If the land is within the relevant zones complying development under the Housing Code **may not** be carried out on any part of the land that is reserved for a public purpose by an environmental planning instrument. Complying development **may** be carried out on any part of the land that is not reserved for a public purpose by an environmental planning instrument. For the purposes of this section "public purpose" means any land that is zoned either Zone E1, RE1, SP1 or SP2 under Penrith Local Environmental Plan 2010, State Environmental Planning Policy - Major Infrastructure Corridors 2020 or an equivalent zone in a non standard template planning instrument, or land that is subject to acquisition.

- The land is affected by a 25 ANEF contour or a higher ANEF contour. If the land is within the relevant zones complying development under the Housing Code **may not** be carried out on any part of the land that is in the 25 ANEF contour or a higher ANEF contour, unless the development is only for the erection of ancillary development, attached development or detached development or the alteration of or an addition to ancillary development, attached development or detached development. Complying development **may** be carried out on any part of the land that is not in the 25 ANEF contour or a higher ANEF contour. Contact Council for the location of the 25 ANEF contour or higher ANEF contour.

RURAL HOUSING CODE

(The Rural Housing Code only applies if the land is within Zones RU1, RU2, RU3, RU4, RU6 or R5 under Penrith Local Environmental Plan 2010 or an equivalent zone in a non standard template planning instrument.)

- The land is affected by a reservation for a public purpose. If the land is within the relevant zones complying development under the Rural Housing Code **may not** be carried out on any part of the land that is reserved for a public purpose by an environmental planning instrument. Complying development **may** be carried out on any part of the land that is not reserved for a public purpose by an environmental planning instrument. For the purposes of this section "public purpose" means any land that is zoned either Zone E1, RE1, SP1 or SP2 under Penrith Local Environmental Plan 2010, State Environmental Planning Policy - Major Infrastructure Corridors 2020 or an equivalent zone in a non standard template planning instrument, or land that is subject to acquisition.

- The land is affected by a 25 ANEF contour or a higher ANEF contour. If the land is within the relevant zones complying development under the General Housing Code **may not** be carried out on any part of the land that is in the 25 ANEF contour or a higher ANEF contour, unless the development is only for the erection of ancillary development, attached development or detached development or the alteration of or an addition to ancillary development, attached

development or detached development. Complying development **may** be carried out on any part of the land that is not in the 25 ANEF contour or a higher ANEF contour. Contact Council for the location of the 25 ANEF contour or higher ANEF contour.

LOW RISE HOUSING DIVERSITY CODE

(The Low Rise Housing Diversity Code only applies if the land is within Zones R1, R2, R3 or RU5 under Penrith Local Environmental Plan 2010 or an equivalent zone in a non standard template planning instrument.)

- The land is affected by a reservation for a public purpose. If the land is within the relevant zones complying development under the Low Rise Housing Diversity Code **may not** be carried out on any part of the land that is reserved for a public purpose by an environmental planning instrument. Complying development **may** be carried out on any part of the land that is not reserved for a public purpose by an environmental planning instrument. For the purposes of this section "public purpose" means any land that is zoned either Zone E1, RE1, SP1 or SP2 under Penrith Local Environmental Plan 2010, State Environmental Planning Policy - Major Infrastructure Corridors 2020 or an equivalent zone in a non standard template planning instrument, or land that is subject to acquisition.

- The land is affected by a 25 ANEF contour or a higher ANEF contour. If the land is within the relevant zones complying development under the Low Rise Housing Diversity Code **may not** be carried out on any part of the land that is in the 25 ANEF contour or a higher ANEF contour, unless the development is only for the erection of ancillary development, attached development or detached development or the alteration of or an addition to ancillary development, attached development or detached development. Complying development **may** be carried out on any part of the land that is not in the 25 ANEF contour or a higher ANEF contour. Contact Council for the location of the 25 ANEF contour or higher ANEF contour.

GREENFIELD HOUSING CODE

(The Greenfield Housing Code only applies if the land is within Zones R1, R2, R3, R4 or RU5 under Penrith Local Environmental Plan 2010 or an equivalent zone in a non standard template planning instrument, and if the land is identified as a Greenfield Housing Code Area by the Greenfield Housing Code Area Map.)

- The land is affected by a reservation for a public purpose. If the land is within the relevant zones, and if the land is identified as a Greenfield Housing Code Area by the Greenfield Housing Code Area Map complying development under the Greenfield Housing Code **may not** be carried out on any part of the land that is reserved for a public purpose by an environmental planning instrument. Complying development **may** be carried out on any part of the land that is not reserved for a public purpose by an environmental planning instrument. For the purposes of this section "public purpose" means any land that is zoned either Zone E1, RE1, SP1 or SP2 under Penrith Local Environmental Plan 2010, State Environmental Planning Policy - Major Infrastructure Corridors 2020 or an equivalent zone in a non standard template planning instrument, or land that is subject to acquisition.

- The land is affected by a 25 ANEF contour or a higher ANEF contour. If the land is within the relevant zones, and if the land is identified as a Greenfield Housing Code Area by the Greenfield Housing Code Area Map complying development under the Greenfield Housing Code **may not** be carried out on any part of the land that is in the 25 ANEF contour or a higher ANEF contour, unless the development is only for the erection of ancillary development, attached development or detached development or the alteration of or an addition to ancillary development, attached development or detached development. Complying development **may** be carried out on any part of the land that is not in the 25 ANEF contour or a higher ANEF contour. Contact Council for the location of the 25 ANEF contour or higher ANEF contour.

HOUSING ALTERATIONS CODE

Complying development under the Housing Alterations Code **may** be carried out on the land.

GENERAL DEVELOPMENT CODE

Complying development under the General Development Code **may** be carried out on the land.

COMMERCIAL AND INDUSTRIAL ALTERATIONS CODE

Complying development under the Commercial and Industrial Alterations Code **may** be carried out on the land.

SUBDIVISIONS CODE

Complying development under the Subdivisions Code **may** be carried out on the land.

DEMOLITION CODE

Complying development under the Demolition Code **may** be carried out on the land.

COMMERCIAL AND INDUSTRIAL (NEW BUILDINGS AND ADDITIONS) CODE

(The Commercial and Industrial (New Buildings and Additions) Code only applies if the land is within Zones B1, B2, B3, B4, B5, B6, B7, B8, IN1, IN2, IN3, IN4 or SP3 under Penrith Local Environmental Plan 2010 or an equivalent zone in a non standard template planning instrument.)

- The land is affected by a reservation for a public purpose. If the land is within the relevant zones complying development under the Commercial and Industrial (New Buildings and Additions) Code **may not** be carried out on any part of the land that is reserved for a public purpose by an environmental planning instrument. Complying development **may** be carried out on any part of the land that is not reserved for a public purpose by an environmental planning instrument. For the purposes of this section "public purpose" means any land that is zoned either Zone E1, RE1, SP1 or SP2 under Penrith Local Environmental Plan 2010, State Environmental Planning Policy - Major Infrastructure Corridors 2020 or an equivalent zone in a non standard template planning instrument, or land that is subject to acquisition.

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PLANNING CERTIFICATE UNDER SECTION 10.7

Environmental Planning and Assessment Act, 1979

FIRE SAFETY CODE

Complying development under the Fire Safety Code **may** be carried out on the land.

(NOTE: (1) Council has relied on Planning and Infrastructure Circulars and Fact Sheets in the preparation of this information. Applicants should seek their own legal advice in relation to this matter with particular reference to State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.

(2) Penrith Local Environmental Plan 2010 (if it applies to the land) contains additional complying development not specified in State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.)

4 COASTAL PROTECTION

The land is not affected by the operation of sections 38 or 39 of the Coastal Protection Act 1979, to the extent that council has been so notified by the Department of Public Works.

5 MINE SUBSIDENCE

The land is not proclaimed to be a mine subsidence district within the meaning of section 15 of the Mine Subsidence Compensation Act 1961.

6 ROAD WIDENING AND ROAD REALIGNMENT

The land is affected by road widening or road realignment under
(a) Division 2 of Part 3 of the Roads Act 1993, or
(b) an environmental planning instrument, or
(c) a resolution of Council.
Note: Additional advice may be available in section 10.7(5) information.
The land may be affected by a proposed road shown on the State Environmental Planning Policy (Western Sydney Employment Area) 2009 Transport and Arterial Road Infrastructure Plan Map (sheet TA1 001). Contact the Department of Planning, Industry, and Environment for details.

7 COUNCIL AND OTHER PUBLIC AUTHORITY POLICIES ON HAZARD RISK RESTRICTIONS

(a) Council Policies
The land is affected by the Asbestos Policy adopted by Council.
The land is not affected by any other policy adopted by the council that restricts the development of the land because of the likelihood of land slip, bushfire, tidal inundation, subsidence, acid sulphate soils or any other risk (other than flooding).

(b) Other Public Authority Policies
The Bush Fire Co-ordinating Committee has adopted a Bush Fire Risk Management Plan that covers the local government area of Penrith City Council, and includes public, private and Commonwealth lands.
The land is not affected by a policy adopted by any other public authority and notified to the council for the express purpose of its adoption by that authority being referred to in planning certificates issued by the council, that restricts the development of the land because of the likelihood of land slip, tidal inundation, subsidence, acid sulphate soils or any other risk (other than flooding).

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7A FLOOD RELATED DEVELOPMENT CONTROLS INFORMATION

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

(2) Development on the land or part of the land for industrial or commercial purposes (if such uses are permissible on the land) is subject to flood related development controls.
Development on the land or part of the land for purposes other than industrial or commercial, or for purposes other than those referred to in (1) above, will be considered on a merits based approach and flood related development controls may apply.

Note: The land is subject to Penrith Development Control Plan 2014 Section C3.5 Flood Planning. On application and payment of the prescribed fee Council may be able to provide in writing a range of advice in regard to the extent of flooding affecting the property.

8 LAND RESERVED FOR ACQUISITION

The land is affected by provisions under an environmental planning instrument, a deemed environmental planning instrument or a draft environmental planning instrument applying to the land that provides for acquisition by a public authority, as referred to in section 3.15 of the Act.

9 CONTRIBUTIONS PLANS

The Cultural Facilities Development Contributions Plan applies anywhere residential development is permitted within the City of Penrith.

The Penrith City Local Open Space Development Contributions Plan applies anywhere residential development is permitted within the City of Penrith, excluding industrial areas and the release areas identified in Appendix B of the Plan (Penrith Lakes, Cranebrook, Sydney Regional Environmental Plan No. 30 - St Marys, Waterside, Thornton, the WELL Precinct, Glenmore Park and Erskine Park).

The Penrith City District Open Space Facilities Development Contributions Plan applies anywhere residential development is permitted within the City of Penrith, with the exclusion of industrial lands and the Penrith Lakes development site.

Penrith Citywide Section 7.12 Development Contributions Plan for non-residential development applies to all land in the City of Penrith LGA, with the exception of land within the Lambridge Estate, WELL Precinct and Penrith City Centre that are currently subject to other development contributions plans for non-residential development.

9A BIODIVERSITY CERTIFIED LAND

(Information is provided in this section only if the land is biodiversity certified land under Part 8 of the *Biodiversity Conservation Act 2016*.)

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10 BIODIVERSITY STEWARDSHIP SITES

(Information is provided in this section only if Council has been notified by the Chief Executive of the Office of Environment and Heritage that the land is land to which a biobanking stewardship agreement under Part 5 of the *Biodiversity Conservation Act 2016* relates.)

10A NATIVE VEGETATION CLEARING SET ASIDES

(Information is provided in this section only if Council has been notified of the existence of a set aside area by Local Land Services or it is registered in the public register under which section 60ZC of the *Local Land Services Act 2013* relates).

11 BUSH FIRE PRONE LAND

All of the land is identified as bush fire prone land according to Council records. Guidance as to restrictions that may be placed on the land as a result of the land being bush fire prone can be obtained by contacting Council. Such advice would be subject to further requirements of the NSW Rural Fire Services.

12 PROPERTY VEGETATION PLANS

(Information is provided in this section only if Council has been notified that the land is land to which a property vegetation plan approved under the *Native Vegetation Act 2003* applies and continues in force.)

13 ORDERS UNDER TREES (DISPUTES BETWEEN NEIGHBOURS) ACT 2006

(Information is provided in this section only if Council has been notified that an order has been made under the Trees (Disputes Between Neighbours) Act 2006 to carry out work in relation to a tree on the land.)

14 DIRECTIONS UNDER PART 3A

(Information is provided in this section only if there is a direction by the Minister in force under section 75P(2)(c1) of the Act (repealed on 1st October 2011) that a provision of an environmental planning instrument prohibiting or restricting the carrying out of a project or a stage of a project on the land under Part 4 of the Act does not have effect.)

15 SITE COMPATIBILITY CERTIFICATES AND CONDITIONS AFFECTING SENIORS HOUSING

(Information is provided in this section only if:

(a) there is a current site compatibility certificate (seniors housing), of which the council is aware, issued under State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 in respect of proposed development on the land; and/or

(b) any terms of a kind referred to in clause 18(2) of State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 have been imposed as a condition of consent to a development application granted after 11 October 2007 in respect of the land.)

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PLANNING CERTIFICATE UNDER SECTION 10.7

Environmental Planning and Assessment Act, 1979

16 SITE COMPATIBILITY CERTIFICATES FOR INFRASTRUCTURE

(Information is provided in this section only if there is a valid site compatibility certificate (infrastructure), of which council is aware, in respect of proposed development on the land.)

17 SITE COMPATIBILITY CERTIFICATES AND CONDITIONS FOR AFFORDABLE RENTAL HOUSING

(Information is provided in this section only if:

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

(b) any terms of a kind referred to in clause 17(1) or 37(1) of State Environmental Planning Policy (Affordable Rental Housing) 2009 have been imposed as a condition of consent to a development application in respect of the land.)

18 PAPER SUBDIVISION INFORMATION

(Information is provided in this section only if a development plan adopted by a relevant authority applies to the land or is proposed to be subject to a consent ballot, or a subdivision order applies to the land.)

19 SITE VERIFICATION CERTIFICATES

(Information is provided in this section only if there is a current site verification certificate, of which council is aware, in respect of the land.)

NOTE: The following matters are prescribed by section 59(2) of the Contaminated Land Management Act 1997 as additional matters to be specified in a planning certificate

(a) (Information is provided in this section only if, as at the date of this certificate, the land (or part of the land) is significantly contaminated land within the meaning of the Contaminated Land Management Act 1997.)

(b) (Information is provided in this section only if, as at the date of this certificate, the land is subject to a management order within the meaning of the Contaminated Land Management Act 1997.)

(c) (Information is provided in this section only if, as at the date of this certificate, the land is the subject of an approved voluntary management proposal within the meaning of the Contaminated Land Management Act 1997.)

(d) (Information is provided in this section only if, at the date of this certificate, the land subject to an ongoing maintenance order within the meaning of the Contaminated Land Management Act 1997.)

(e) (Information is provided in this section only if the land is the subject of a site audit statement within the meaning of the Contaminated Land Management Act 1997 - a copy of which has been provided to Council.)

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PLANNING CERTIFICATE UNDER SECTION 10.7

Environmental Planning and Assessment Act, 1979

Note: Section 10.7(5) information for this property may contain additional information regarding contamination issues.

20 LOOSE FILL ASBESTOS INSULATION

(Information is provided in this section only if there is a residential premises listed on the register of residential premises that contain or have contained loose-fill asbestos insulation (as required by Division 1A of Part 8 of the Home Building Act 1989))

21 AFFECTED BUILDING NOTICES AND BUILDING PRODUCT RECTIFICATION ORDERS

(Information is provided in this section only if Council is aware of any "affected building notice" and/or a "building product rectification order" in force for the land).

Note: The Environmental Planning and Assessment Amendment Act 2017 commenced operation on the 1 March 2018. As a consequence of this Act the information contained in this certificate needs to be read in conjunction with the provisions of the Environmental Planning and Assessment (Savings, Transitional and Other Provisions) Regulation 2017, and Environmental Planning and Assessment Regulation 2000.

Information is provided only to the extent that Council has been notified by relevant government departments.

10.7(5) Certificate
This Certificate is directed to the following relevant matters affecting the land

When information pursuant to section 10.7(5) is requested the Council is under no obligation to furnish any of the information supplied herein pursuant to that section. Council draws your attention to section 10.7(6) which states that a council shall not incur any liability in respect of any advice provided in good faith pursuant to sub-section (5). The absence of any reference to any matter affecting the land shall not imply that the land is not affected by any matter not referred to in this certificate.

Note:

- Council's 10.7(5) information does not include development consent or easement information. Details of development consents may be obtained by making enquiries with Council's Development Services Department pursuant to section 12 of the Local Government Act 1993 or (for development applications lodged after January 2007) by viewing the Online Services area at www.penrithcity.nsw.gov.au . Details of any easements may be obtained from a Title Search at Land and Property Information New South Wales.
- This certificate does not contain information relating to Complying Development Certificates.
- This certificate may not provide full details of development rights over the land.

* Biodiversity Conservation Act 2016

When considering any development application Council must have regard to the Biodiversity Conservation Act 2016. Please note that this legislation may have application to any land throughout the city. Interested persons should make their own enquiries in regard to the impact that this legislation could have on this land.

PLANNING CERTIFICATE UNDER SECTION 10.7

Environmental Planning and Assessment Act, 1979

* Preservation of Trees or Vegetation

Clause 32 of State Environmental Planning Policy (Western Sydney Employment Area) 2009 details requirements relating to the preservation of trees or vegetation.

* Agricultural Activities Within Rural Areas

This property is located in a rural area and there may be certain agricultural activities occurring that some people may find offensive (for example noise, dust and odours). This should be considered if you purchase the subject property or build a dwelling thereon.
If you do purchase the subject property or build a dwelling, the potential impact that your activities (for example pets, inadequate fencing, drainage, litter and poor weed control) might have on the agricultural activities in the area should also be considered.

* Preservation of Trees and Vegetation

See Chapter C2 of Penrith Development Control Plan 2014 for specific controls relating to the preservation of trees and vegetation.

* Development Control Plan General Information

Penrith Development Control Plan 2014 which applies to the land, sets out requirements for a range of issues that apply across the Penrith Local Government Area, including:

- Site Planning and Design Principles
- Vegetation Management
- Water Management
- Land Management
- Waste Management
- Landscape Design
- Culture and Heritage
- Public Domain
- Advertising and Signage
- Transport, Access and Parking
- Subdivision
- Noise and Vibration, and
- Infrastructure and Services.

The Development Control Plan also specifies requirements relating to various types of land uses including:

- Rural Land Uses
- Residential Development
- Commercial and Retail Development, and
- Industrial Development

as well as for a number of specific activities, including child care centres; health consulting rooms; educational establishments; parent friendly amenities; places of public worship; vehicle repair stations; cemeteries, crematoria and funeral homes; extractive industries; and telecommunication facilities.

The Development Control Plan also details requirements relating to key precincts within the Penrith Local Government Area, including:

- Caddens
- Claremont Meadows Stage 2

- Cranebrook
- Emu Heights
- Emu Plains
- Erskine Business Park
- Glenmore Park
- Kingswood
- Mulgoa Valley
- Orchard Hills
- Penrith
- Penrith Health and Education Precinct
- Riverlink Precinct
- St Clair,
- St Marys / St Marys North, and
- Sydney Science Park.

Penrith Development Control Plan 2014 may be accessed at https://www.penrithcity.nsw.gov.au/Building-and-Development/Planning-and-Zoning/Planning-Controls/Development-Control-Plans/

*** Western Sydney Airport**

The land the subject of this certificate is in the vicinity of the proposed Badgery's Creek airport site and is located within the Australian Noise Exposure Forecast (ANEF) shown on the map in Appendix U of the 1985 draft environmental impact statement for the second Sydney Airport.
The land is affected by the **20 - 25 ANEF and the 25 - 30 ANEF**.
In regard to land affected by the ANEF Clause 7.9 of Penrith Local Environmental Plan No.2010 states:
"**7.9 Development of land in the flight paths of the site reserved for the proposed Second Sydney Airport**

(1) The objective of this clause is to ensure that development in the vicinity of the proposed Badgery's Creek airport site:
  (a) has regard to the use or potential future use of the site as an airport, and
  (b) does not hinder or have any other adverse impact on the development or operation of an airport on that site.

(2) This clause applies to development that:
  (a) is on land that:
    (i) is near the proposed Badgery's Creek airport site, and
    (ii) is in an ANEF contour of 20 or greater, and
  (b) the consent authority considers is likely to be adversely affected by aircraft noise.

(3) Before determining a development application for development to which this clause applies, the consent authority:
  (a) must consider whether the development will result in an increase in the number of dwellings or people affected by aircraft noise, and
  (b) must consider the location of the development in relation to the criteria set out in Table 2.1 (Building Site Acceptability Based on ANEF Zones) in AS 2021-2000, and
  (c) must be satisfied that the development will meet AS 2021-2000 with respect to interior noise levels for the purposes of:

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(i) if the development will be in an ANEF contour or 20 or greater - child care centres, educational establishments, entertainment facilities, hospitals, places of public worship, public administration buildings or residential accommodation, and

(ii) if the development will be in an ANEF contour of 25 or greater - commercial premises, hostels or hotel or motel accommodation.

(4) In this clause:

ANEF contour means a noise exposure contour shown as an ANEF contour on the map in Appendix U of the draft environmental impact statement for the Second Sydney Airport, copies of which are deposited in the Office of the Council and of the Commonwealth Department of Infrastructure, Transport, Regional Development and Local Government.

AS 2021-2000 means AS 2021-2000, *Acoustics-Aircraft noise intrusion-Building siting and construction."*

(Note: The Australian Government announced on 15 April 2014 that Badgerys Creek will be the site for a new airport for Western Sydney. On 12 December 2016, the Government announced the approval of the Airport Plan, authorising Stage 1 of the Western Sydney Airport. Stage 1 comprises a single runway and facilities to cater for up to 10 million passengers a year. This approval follows an assessment of the Airport Plan and its Environmental Impact Statement by the Environment Minister. Enquiries regarding the Western Sydney Airport should be made with the Department of Infrastructure and Regional Development. (Website: <http://westernsydneyairport.gov.au>))

Warwick Winn
General Manager

PER



Please note:

Certain amendments to the Environmental Planning and Assessment Act 1979 No 203 (Act) commenced on 1 March 2018.

The Environmental Planning and Assessment (Amendment) Act 2017 No 60 makes structural changes to the Act and, as a consequence, the Act has been renumbered in a decimal format. For example, Section 149 Planning Certificates have become Section 10.7 Certificates. Some of the information in this certificate may refer to the previous version of the Act.

Council is committed to updating all relevant documents in a timely manner. This will include planning instruments, applications, approvals, orders, certificates, forms and other associated documents in both printed and electronic versions. Council is required to implement these changes and regrets any inconvenience caused to the local business, industry and the community.

Attachment

Penrith Local Environmental Plan No 258 - Consent for Dwelling Houses and Other Development

1 Name of plan

This plan is *Penrith Local Environmental Plan No 258 - Consent for Dwelling Houses and Other Development.*

2 Aims of plan

This plan aims to:

(a) require development consent for dwelling houses on residentially zoned land within the City of Penrith, and

(b) require development consent for dwelling houses on land within the Non-urban zone under the *Penrith Planning Scheme Ordinance* and on land within the Special Business zone under *Penrith Local Environmental Plan 1997 (Penrith City Centre)*, and

(c) require development consent for dwelling houses attached to and used in conjunction with shops on land within the Neighbourhood Business zone under the *Penrith Planning Scheme Ordinance*, and

(d) require development consent for the following:

(i) the erection of a building or structure ordinarily associated with a dwelling house,
(ii) a change of building use,

Note. At the commencement of this plan, **a change of building use** meant a change of use of a building from a use that the *Building Code of Australia* recognises as appropriate to one class of building to a use that the *Building Code of Australia* recognises as appropriate to a different class of building.

(iii) demolition of a building or structure,
(iv) carrying out structural alterations to a building, internal alterations to a building, or external building work in association with business premises, a bed and breakfast establishment, office premises, commercial premises or take away food shops,
(v) the subdivision of land,

to the extent to which such development does not already require development consent because of another environmental planning instrument in order to be carried out.

3 Land to which plan applies

This plan applies to all land within the City of Penrith.

4 Relationship to other environmental planning instruments

(1) In the event of an inconsistency between this plan and any other local environmental planning instrument or deemed environmental planning instrument, this plan shall prevail to the extent of the inconsistency, subject to section 36 (4) of the Act.

(2) This plan amends:

(a) *Penrith Planning Scheme Ordinance* in the manner set out in Schedule 1,

(b) *Penrith Local Environmental Plan 1997 (Penrith City Centre)* in the manner set out in Schedule 2, and

(c) *Penrith Local Environmental Plan 1998 (Urban Land)* in the manner set out in Schedule 3.

(3) This plan does not affect the application of:

(a) *State Environmental Planning Policy No 3 - Castlereagh Liquid Waste Disposal Depot,*

(b) State Environmental Planning Policy No 27 - Prison Sites,

(c) Sydney Regional Environmental Plan No 9 - Extractive Industry,

(d) Sydney Regional Environmental Plan No. 11 - Penrith Lakes Scheme,

(e) Sydney Regional Environmental Plan No 20 - Hawkesbury-Nepean River (No 2-1997),

(f) Sydney Regional Environmental Plan No 30 - St Marys, or

(g) Penrith Local Environmental Plan No 255 - Exempt and Complying Development,

to land to which this plan applies.

5 Definitions

(1) In this plan:

a building or structure ordinarily associated with a dwelling house means a garage, carport, pergola, swimming pool, and the like, and includes alterations and additions to an existing dwelling house.

change of building use has the same meaning as in the Act.

Note. At the commencement of this plan, a ***change of building use*** meant a change of use of a building from a use that the *Building Code of Australia* recognises as appropriate to one class of building to a use that the *Building Code of Australia* recognises as appropriate to a different class of building.

dwelling means a room or number of rooms occupied or used, or so constructed or adapted as to be capable of being occupied or used, as a separate domicile.

dwelling house means a dwelling which is the only dwelling erected on an allotment of land.

subdivision of land has the same meaning as in the Act.

the Act means the *Environmental Planning and Assessment Act 1979.*

(2) The list of contents and notes in this plan are not part of this plan.

6 Dwelling houses require development consent

(1) The erection of a dwelling house must not be carried out without development consent.

(2) This clause applies to residentially zoned land within the City of Penrith.

(3) This clause applies if the development:

(a) does not require development consent because of another environmental planning instrument, and

(b) is not prohibited by another environmental planning instrument.

7. Miscellaneous development that requires development consent

(1) The following development must not be carried out without development consent:

(a) erection of a building or structure ordinarily associated with a dwelling house, or

(b) development that results in a change of building use, or

(c) demolition of a building or structure, or

(d) structural, internal or external building work in association with business premises, a bed and breakfast establishment, office premises, commercial premises or take away food shops.

(2) This clause applies if the development:

(a) does not require development consent because of another environmental planning instrument, and

(b) is not prohibited by another environmental planning instrument, and

(c) is not identified in *Penrith Local Environmental Plan No 255 - Exempt and Complying Development* as exempt development, and

(d) does not involve Crown building work as defined in section 116G of the Act.

8 Subdivisions require development consent

(1) A subdivision of land must not be carried out without development consent.

(2) This clause applies if the subdivision of land:

(a) does not require development consent because of another environmental planning instrument, and

(b) is not prohibited by another environmental planning instrument, and

(c) is not identified in *Penrith Local Environmental Plan No 255 - Exempt and Complying Development* as exempt development, and

(d) does not involve Crown building work as defined in section 116G of the Act.

Schedule 1 Amendment of Penrith Planning Scheme Ordinance

(Clause 4 (2) (a))

[1] Clause 4 Interpretation
Omit the definition of ***Country dwelling.***

[2] Clause 26 Erection or use of buildings or works
Omit "country dwellings;" from Column III for Zone No 1 of the Table to the clause.

[3] Clause 26, Table
Omit "dwelling-houses other than country dwellings and rural dwellings;" from Column V for Zone No. 1.

[4] Clause 26, Table
Omit "Dwelling-houses other than semi-detached and terrace buildings." from Column III for Zone No 2(a).

[5] Clause 26, Table
Omit "Residential buildings." from Column III for Zone No 2 (b).

[6] Clause 26, Table
Omit "Dwelling-houses other than semi-detached or terrace buildings." from Column III for Zone No 2 (c).

[7] Clause 26, Table
Omit ";dwelling-houses attached to and used in conjunction with shops" from Column III for Zone No 3 (c).

[8] Clause 26, Table
Omit "Purposes" from Column IV for Zone No 3(c).

Insert instead "Buildings or other structures ordinarily associated with dwelling houses; changes of building use (as defined in the *Environmental Planning and Assessment Act 1979)*; dwelling-houses attached to and used in conjunction with shops; demolition of buildings or other structures; land uses and premises".

[9] Clause 26, Table
Insert "; structural or internal alterations to, or external building work in association with, commercial premises or refreshment rooms" after "roads" in Column IV for Zone No 3(c).

[10] Clause 38 Development in residential zones
Omit the clause.

[11] Clause 46 Variation of area required for country dwelling
Omit the clause.

Schedule 2 Amendment of Penrith Local Environmental

Plan 1997 (Penrith City Centre)

(Clause 4 (2) (b))

[1] Clause 9 Zone objectives and development control table

Omit from item (b) (i) **Without development consent** for Zone No 2 (f) in the Development Control Table:

- dwelling-houses

[2] Clause 9, table

Insert in alphabetical order in item (b) (ii) **Only with development consent** for Zone No 2 (f):

- buildings or other structures ordinarily associated with dwelling-houses
- demolition of buildings or other structures
- dwelling-houses

[3] Clause 20 Development of land within Zone No 3 (a)

Insert "where the new use does not involve structural or internal alterations or external buildings works" after the words "or take away food shops".

Schedule 3 Amendment of Penrith Local Environmental Plan 1998 (Urban Land)

(Clause 4 (2) (c))

[1] Clause 9 Zone objectives and development control table

Omit wherever occurring from item (b) (i) **Without development consent** for Zones Nos 2 (a1), 2 (a), 2 (b), 2 (c), 2 (d) and 2 (e) in the Development Control Table:

- dwelling houses

[2] Clause 9, table

Insert in alphabetical order in item (b) (ii) **Only with development consent** for Zones Nos 2 (a1), 2 (a), 2 (b), 2 (c), 2 (d) and 2 (e):

- buildings or other structures ordinarily associated with dwelling houses
- changes of building use (as defined in the Act)
- demolition of buildings or other structures
- dwelling houses
- internal structural work in bed and breakfast establishments

[3] Clause 9, table

Insert in alphabetical order in item b (ii) **Only with development consent** for Zones Nos 2 (r) and 2 (r1);

- buildings or other structures ordinarily associated with dwelling houses
- changes of building use (as defined in the Act)
- demolition of buildings or other structures
- structural or internal alterations to bed and breakfast establishments

[4] Clause 9, table

Insert in alphabetical order in item (b) (ii) **Only with development consent** for Zone No 3 (f):

- changes of building use (as defined in the Act)
- demolition of buildings or other structures
- external building work associated with an existing land use carried out with consent
- structural or internal alterations to a building or other structure erected with consent or building approval

Appendix I State Regulator (NSW EPA) Records Search

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
KELSO	Caltex Service Station Kelso	19 Sydney ROAD	Service Station	Regulation under CLM Act not required	-33.41904247	149.6023985
KELSO	BP Service Station (Reliance Petroleum)	63 Sydney ROAD	Service Station	Regulation under CLM Act not required	-33.41925328	149.6076677
KELSO	23 Zagreb Street, Kelso NSW	23 Zagreb STREET	Other Industry	Under assessment	-33.427361	149.609917
KEMBLA GRANGE	ShawCor Australia	66 West Dapto ROAD	Other Petroleum	Regulation under CLM Act not required	-34.46875328	150.8106326
KEMBLAWARRA	Griffins Bay, Lake Illawarra	Shellharbour ROAD	Landfill	Regulation under CLM Act not required	-34.49653984	150.8943776
KEMPS CREEK	Caltex-branded Service Station	1163 Mamre ROAD	Service Station	Regulation under CLM Act not required	-33.86972102	150.7966074
KEMPSEY	Kempsey Showground	19 Sea STREET	Unclassified	Contamination being managed via the pla	-31.07334836	152.8308795
KEMPSEY	Former Shell Depot	43-51 Gladstone STREET	Other Petroleum	Regulation under CLM Act not required	-31.07500944	152.8346699
KEMPSEY	Former Mobil Depot	14 Hopetoun STREET	Other Petroleum	Regulation under CLM Act not required	-31.07603107	152.8350132
KEMPSEY	Shell Coles Express Service Station Kemps	165 Smith STREET	Service Station	Regulation under CLM Act not required	-31.07036743	152.8461571
KEMPSEY	Mobil Depot	154 Belgrave STREET	Service Station	Regulation under CLM Act not required	-31.07965043	152.8326303
KEMPSEY	Liberty (Former Mobil) Service Station	108-112 Smith STREET	Service Station	Regulation under CLM Act not required	-31.07492508	152.8431945
KENSINGTON	7-Eleven Kensington	135 Anzac PARADE	Service Station	Regulation under CLM Act not required	-33.91035885	151.2228537
KENSINGTON	Former Ampol Service Station	76-82 Anzac PARADE	Service Station	Regulation under CLM Act not required	-33.9059246	151.2242891
KENSINGTON	Footpath adjacent to 10-20 Anzac Parade	10-20 Anzac PARADE	Service Station	Regulation under CLM Act not required	-33.9032124	151.2237836
KENSINGTON	Caltex Service Station	211-213 Anzac PARADE	Service Station	Regulation under CLM Act not required	-33.91460752	151.2251266

Section 58

Search results

Your search for: Suburb: KEMPS CREEK

Search Again Refine Search

did not find any records in our database.

Search TIP

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

... more search tips

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 or notice under the Protection of the Environment Operations Act 1997 (POEO Act).
- Contamination at the site may be being managed under the planning 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 What's in the record and What's not in the record.

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.POEO public register

9 June 2021

Number	Name	Location	Type	Status	Issued date
1585407		1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	3-Oct-19
1590479		1503-1519 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	10-Mar-20
1591296		1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	12-Mar-20
1595377		1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	4-Jun-20
1602705		16-23 Clifton Avenue, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	26-Nov-20
1603852		1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	17-Dec-20
1605744		1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	18-Feb-21
1594184		1503-1519 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	9-Apr-21
1608687		1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Pending	3-May-21
3085769592	A.C.N. 161 002 820 PTY LTD	16-23 Clifton Avenue, KEMPS CREEK, NSW 2178	Penalty Notice	Issued	15-Mar-13
3085772425	A.C.N. 161 002 820 PTY LTD	16-23 Clifton Avenue, KEMPS CREEK, NSW 2178	Penalty Notice	Issued	23-Oct-13
1517820	A.C.N. 161 002 820 PTY LTD	16-23 Clifton Avenue, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	3-Apr-14
1606101	Blue Skip Bins Pty Ltd	5 TAVISTOCK ROAD, KEMPS CREEK, NSW 2178	s.91 Clean Up Notice	Issued	12-Mar-21
5186	BRANDOWN PTY. LIMITED	LOT 90 ELIZABETH DRIVE , KEMPS CREEK, NSW 2178	POEO licence	Issued	21-Dec-00
1024201	BRANDOWN PTY. LIMITED	LOT 90 ELIZABETH DRIVE , KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	8-Oct-03
1032508	BRANDOWN PTY. LIMITED	LOT 90 ELIZABETH DRIVE , KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	18-Nov-03
1043715	BRANDOWN PTY. LIMITED	LOT 90 ELIZABETH DRIVE , KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	2-Jun-05
1049104	BRANDOWN PTY. LIMITED	LOT 90 ELIZABETH DRIVE , KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	12-Jul-05
1050663	BRANDOWN PTY. LIMITED	LOT 90 ELIZABETH DRIVE , KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	12-Aug-05
1051516	BRANDOWN PTY. LIMITED	LOT 90 ELIZABETH DRIVE , KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	2-Sep-05
1053429	BRANDOWN PTY. LIMITED	LOT 90 ELIZABETH DRIVE , KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	1-Dec-05
1063385	BRANDOWN PTY. LIMITED	LOT 90 ELIZABETH DRIVE , KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	28-Feb-07
1071515	BRANDOWN PTY. LIMITED	LOT 90 ELIZABETH DRIVE , KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	12-Sep-07
1080254	BRANDOWN PTY. LIMITED	LOT 90 ELIZABETH DRIVE , KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	16-Nov-07
1080704	BRANDOWN PTY. LIMITED	LOT 90 ELIZABETH DRIVE , KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	12-Sep-08
1093240	BRANDOWN PTY. LIMITED	LOT 90 ELIZABETH DRIVE , KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	31-Oct-08
1115874	BRANDOWN PTY. LIMITED	LOT 90 ELIZABETH DRIVE , KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	28-Jun-10
1118444	BRANDOWN PTY. LIMITED	LOT 90 ELIZABETH DRIVE , KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	3-Dec-10
3085764523	BRANDOWN PTY. LIMITED	LOT 90 ELIZABETH DRIVE , KEMPS CREEK, NSW 2178	Penalty Notice	Issued	9-Jul-12
1518646	BRANDOWN PTY. LIMITED	LOT 90 ELIZABETH DRIVE , KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	16-Apr-14
1548534	BRANDOWN PTY. LIMITED	LOT 90 ELIZABETH DRIVE , KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	5-Feb-18
1563440	BRANDOWN PTY. LIMITED	LOT 90 ELIZABETH DRIVE , KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	9-Apr-18
1564013	BRANDOWN PTY. LIMITED	LOT 90 ELIZABETH DRIVE , KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	6-Jul-18
1573711	BRANDOWN PTY. LIMITED	LOT 90 ELIZABETH DRIVE , KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	6-Feb-19
1583448	BRANDOWN PTY. LIMITED	LOT 90 ELIZABETH DRIVE , KEMPS CREEK, NSW 2178	Compliance Audit	Complete	2-Aug-19
1583033	BRANDOWN PTY. LIMITED	LOT 90 ELIZABETH DRIVE , KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	13-Aug-19
1591495	BRANDOWN PTY. LIMITED	LOT 90 ELIZABETH DRIVE , KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	4-Mar-20
1552021	DOMINIC TASSONE	819-833B Mamre Road, KEMPS CREEK, NSW 2178	s.91 Clean Up Notice	Issued	12-May-17
11736	DREAM PROPERTIES PTY LTD	50 VICTOR AVENUE, KEMPS CREEK, NSW 2171	POEO licence	Revoked	28-Jan-03
1042914	DREAM PROPERTIES PTY LTD	50 VICTOR AVENUE, KEMPS CREEK, NSW 2171	s.79 Revocation of a Licence	Issued	8-Dec-04
1595824	DUNG LUU	205 LEE AND CLARK ROAD, KEMPS CREEK, NSW 2178	s.91 Clean Up Notice	Issued	6-Oct-20
20593	HI-QUALITY QUARRY (NSW) PTY LTD	1503-1519 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	POEO licence	Issued	20-Dec-16
1589560	HI-QUALITY QUARRY (NSW) PTY LTD	1503-1519 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	20-Dec-19
1593612	HI-QUALITY QUARRY (NSW) PTY LTD	1503-1519 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	22-Apr-20

1600247	HI-QUALITY QUARRY (NSW) PTY LTD	1503-1519 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	Compliance Audit	Complete	11-Sep-20
4581	KARI & GHOSSAYN PTY LTD (C/- STEVEN NICOLS - LIQUIDATOR)	CLIFTON AVE, KEMPS CREEK, NSW 2171	POEO licence	Revoked	27-Jun-00
1015001	KARI & GHOSSAYN PTY LTD (C/- STEVEN NICOLS - LIQUIDATOR)	CLIFTON AVE, KEMPS CREEK, NSW 2171	s.58 Licence Variation	Issued	14-Feb-02
1028286	KARI & GHOSSAYN PTY LTD (C/- STEVEN NICOLS - LIQUIDATOR)	CLIFTON AVE, KEMPS CREEK, NSW 2171	s.58 Licence Variation	Issued	25-Jun-03
1040662	KARI & GHOSSAYN PTY LTD (C/- STEVEN NICOLS - LIQUIDATOR)	CLIFTON AVE, KEMPS CREEK, NSW 2171	s.58 Licence Variation	Issued	15-Oct-04
1051514	KARI & GHOSSAYN PTY LTD (C/- STEVEN NICOLS - LIQUIDATOR)	CLIFTON AVE, KEMPS CREEK, NSW 2171	s.91 Clean Up Notice	Issued	19-Sep-05
1055457	KARI & GHOSSAYN PTY LTD (C/- STEVEN NICOLS - LIQUIDATOR)	CLIFTON AVE, KEMPS CREEK, NSW 2171	s.58 Licence Variation	Issued	17-May-06
1063855	KARI & GHOSSAYN PTY LTD (C/- STEVEN NICOLS - LIQUIDATOR)	CLIFTON AVE, KEMPS CREEK, NSW 2171	s.58 Licence Variation	Issued	15-Sep-06
1065320	KARI & GHOSSAYN PTY LTD (C/- STEVEN NICOLS - LIQUIDATOR)	CLIFTON AVE, KEMPS CREEK, NSW 2171	s.58 Licence Variation	Issued	6-Nov-06
1067405	KARI & GHOSSAYN PTY LTD (C/- STEVEN NICOLS - LIQUIDATOR)	CLIFTON AVE, KEMPS CREEK, NSW 2171	s.58 Licence Variation	Issued	6-Dec-06
1069425	KARI & GHOSSAYN PTY LTD (C/- STEVEN NICOLS - LIQUIDATOR)	CLIFTON AVE, KEMPS CREEK, NSW 2171	s.79 Suspension of a Licence	Issued	15-Feb-07
1089317	KARI & GHOSSAYN PTY LTD (C/- STEVEN NICOLS - LIQUIDATOR)	CLIFTON AVE, KEMPS CREEK, NSW 2171	s.79 Revocation of a Licence	Issued	10-Jul-08
1509139	Kemps Creek Investments Pty Ltd	113 Western Rd, KEMPS CREEK, NSW 2171	s.91 Clean Up Notice	Issued	12-Nov-12
1511151	Kemps Creek Investments Pty Ltd	113 Western Rd, KEMPS CREEK, NSW 2171	s.91 Clean Up Notice	Issued	8-Jan-13
1511634	Kemps Creek Investments Pty Ltd	113 Western Rd, KEMPS CREEK, NSW 2171	s.91 Clean Up Notice	Issued	14-May-13
1516213	Kemps Creek Investments Pty Ltd	113 Western Rd, KEMPS CREEK, NSW 2171	s.91 Clean Up Notice	Issued	19-Sep-13
1523933	LIVERPOOL CITY COUNCIL	245 Devonshire Road, KEMPS CREEK, NSW 2178	s.91 Clean Up Notice	Issued	15-Sep-14
3085776091	LIVERPOOL CITY COUNCIL	245 Devonshire Road, KEMPS CREEK, NSW 2178	Penalty Notice	Issued	17-Mar-15
1539676	MAHMOUD TELLAOUI	1055 Fifteenth Avenue , KEMPS CREEK, NSW 2178	s.91 Clean Up Notice	Issued	9-Apr-16
3085781106	MAHMOUD TELLAOUI	1055 Fifteenth Avenue , KEMPS CREEK, NSW 2178	Penalty Notice	Issued	23-Dec-16
1549534	MAHMOUD TELLAOUI	1055 Fifteenth Avenue , KEMPS CREEK, NSW 2178	s.91 Clean Up Notice	Issued	21-Mar-18
1562364	MAHMOUD TELLAOUI	1055 Fifteenth Avenue , KEMPS CREEK, NSW 2178	s.110 Revocation of Clean Up Notice	Issued	21-Mar-18
7219	NOVARTIS ANIMAL HEALTH AUSTRALASIA PTY. LIMITED	245 WESTERN ROAD, KEMPS CREEK, NSW 2171	POEO licence	No longer in force	26-Jun-00
1048306	NOVARTIS ANIMAL HEALTH AUSTRALASIA PTY. LIMITED	245 WESTERN ROAD, KEMPS CREEK, NSW 2171	s.58 Licence Variation	Issued	30-May-05
1530101	OLATHREE PTY LTD	901 - 915 Mamre Road, KEMPS CREEK, NSW 2178	s.91 Clean Up Notice	Issued	24-Jul-15
3085777815	OLATHREE PTY LTD	901 - 915 Mamre Road, KEMPS CREEK, NSW 2178	Penalty Notice	Issued	15-Oct-15
3085780464	OLATHREE PTY LTD	901 - 915 Mamre Road, KEMPS CREEK, NSW 2178	Penalty Notice	Issued	7-Oct-16
3173524137	PACIFIC ENVIRONMENTAL AUSTRALIA PTY LTD	16-23 Clifton Avenue, KEMPS CREEK, NSW 2178	Penalty Notice	Court Elected	
12901	RECYCLING PARKS PTY LTD	16-23 Clifton Avenue, KEMPS CREEK, NSW 2178	POEO licence	Issued	29-Jul-08
1588961	RECYCLING PARKS PTY LTD	16-23 Clifton Avenue, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	3-Dec-19
3173525796	SUEZ RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	Penalty Notice	Withdrawn	
4068	SUEZ RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	POEO licence	Issued	13-Sep-01
1012274	SUEZ RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	22-Nov-01
1025236	SUEZ RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.91 Clean Up Notice	Issued	24-Feb-03
1027794	SUEZ RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	2-Jun-03
1043730	SUEZ RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.110 Variation of Clean Up Notice	Issued	14-Jan-05
1052725	SUEZ RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	24-Jan-06
1061021	SUEZ RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	12-Sep-06
1065278	SUEZ RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	25-Oct-06
1073171	SUEZ RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	21-Sep-07
12889	SUEZ RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	POEO licence	Issued	29-Jul-08
1083456	SUEZ RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	13-Jan-09
1098074	SUEZ RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	27-Feb-09
1099620	SUEZ RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	8-May-09

1099619	SUEZ RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	8-May-09
1104883	SUEZ RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	15-Sep-09
1114444	SUEZ RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	28-May-10
1114442	SUEZ RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	9-Jun-10
1118752	SUEZ RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	25-Aug-10
1120688	SUEZ RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	21-Oct-10
1122735	SUEZ RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	21-Dec-10
1123246	SUEZ RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	24-Dec-10
3085764890	SUEZ RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	Penalty Notice	Issued	27-Jul-12
1506913	SUEZ RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	27-Aug-12
1511557	SUEZ RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	4-Feb-13
1511861	SUEZ RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	Compliance Audit	Complete	8-Feb-13
3085769950	SUEZ RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	Penalty Notice	Issued	9-Apr-13
3085771765	SUEZ RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	Penalty Notice	Issued	15-Jul-13
1512996	SUEZ RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	20-Nov-13
3085773580	SUEZ RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	Penalty Notice	Issued	11-Apr-14
1501920	SUEZ RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	17-Apr-14
1523868	SUEZ RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	3-Sep-14
1524373	SUEZ RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	3-Sep-14
1524790	SUEZ RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	11-Sep-14
1525953	SUEZ RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	28-Nov-14
1525173	SUEZ RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	11-Dec-14
1530567	SUEZ RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	27-Jul-15
1529767	SUEZ RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	14-Aug-15
1533348	SUEZ RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	7-Sep-15
1534554	SUEZ RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	17-Nov-15
1534998	SUEZ RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	20-Nov-15
1540226	SUEZ RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	23-May-16
1546828	SUEZ RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	21-Nov-16
3085781519	SUEZ RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	Penalty Notice	Issued	8-Mar-17
3085782462	SUEZ RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	Penalty Notice	Issued	29-May-17
3085782352	SUEZ RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	Penalty Notice	Issued	13-Jun-17
1551698	SUEZ RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	7-Jul-17
1554158	SUEZ RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	14-Aug-17
1556706	SUEZ RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	4-Dec-17
1562775	SUEZ RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	20-Mar-18
1564175	SUEZ RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	19-Jun-18
3173525805	SUEZ RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	Penalty Notice	Issued	29-Jun-18
1568493	SUEZ RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	18-Sep-18
1571059	SUEZ RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	14-Dec-18
1574677	SUEZ RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	6-Feb-19
1572016	SUEZ RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	28-May-19
1575926	SUEZ RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	6-Jun-19
1600343	SUEZ RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	Compliance Audit	Complete	14-Sep-20

1090935	SYDNEY RECYCLING PARK PTY LTD	16-23 Clifton Avenue, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	6-Aug-08
1096728	SYDNEY RECYCLING PARK PTY LTD	16-23 Clifton Avenue, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	19-Jan-09
1097147	SYDNEY RECYCLING PARK PTY LTD	16-23 Clifton Avenue, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	30-Jan-09
1098859	SYDNEY RECYCLING PARK PTY LTD	16-23 Clifton Avenue, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	19-Mar-09
1100214	SYDNEY RECYCLING PARK PTY LTD	16-23 Clifton Avenue, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	25-May-09
1102083	SYDNEY RECYCLING PARK PTY LTD	16-23 Clifton Avenue, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	26-Jun-09
1103753	SYDNEY RECYCLING PARK PTY LTD	16-23 Clifton Avenue, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	29-Jul-09
1104542	SYDNEY RECYCLING PARK PTY LTD	16-23 Clifton Avenue, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	31-Jul-09
1110533	SYDNEY RECYCLING PARK PTY LTD	16-23 Clifton Avenue, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	8-Jan-10
1119663	SYDNEY RECYCLING PARK PTY LTD	16-23 Clifton Avenue, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	19-Oct-10
1122581	SYDNEY RECYCLING PARK PTY LTD	16-23 Clifton Avenue, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	16-Dec-10
1122702	SYDNEY RECYCLING PARK PTY LTD	16-23 Clifton Avenue, KEMPS CREEK, NSW 2178	s.91 Clean Up Notice	Issued	17-Dec-10
1123904	SYDNEY RECYCLING PARK PTY LTD	16-23 Clifton Avenue, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	10-Feb-11
1125057	SYDNEY RECYCLING PARK PTY LTD	16-23 Clifton Avenue, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	15-Mar-11
1127795	SYDNEY RECYCLING PARK PTY LTD	16-23 Clifton Avenue, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	6-May-11
1500848	SYDNEY RECYCLING PARK PTY LTD	16-23 Clifton Avenue, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	2-Sep-11
1503186	SYDNEY RECYCLING PARK PTY LTD	16-23 Clifton Avenue, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	23-Dec-11
3085765403	SYDNEY RECYCLING PARK PTY LTD	16-23 Clifton Avenue, KEMPS CREEK, NSW 2178	Penalty Notice	Issued	30-Aug-12
1506536	SYDNEY RECYCLING PARK PTY LTD	16-23 Clifton Avenue, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	31-Aug-12
1509665	SYDNEY RECYCLING PARK PTY LTD	16-23 Clifton Avenue, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	7-Nov-12
1510983	SYDNEY RECYCLING PARK PTY LTD	16-23 Clifton Avenue, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	21-Dec-12
1521541	SYDNEY RECYCLING PARK PTY LTD	16-23 Clifton Avenue, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	7-May-14
1527700	SYDNEY RECYCLING PARK PTY LTD	16-23 Clifton Avenue, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	30-Apr-15
1534566	SYDNEY RECYCLING PARK PTY LTD	16-23 Clifton Avenue, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	18-Dec-15
3085778365	SYDNEY RECYCLING PARK PTY LTD	16-23 Clifton Avenue, KEMPS CREEK, NSW 2178	Penalty Notice	Issued	15-Feb-16
1549817	SYDNEY RECYCLING PARK PTY LTD	16-23 Clifton Avenue, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	16-Nov-17
1574866	SYDNEY RECYCLING PARK PTY LTD	16-23 Clifton Avenue, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	8-Feb-19
1579415	SYDNEY RECYCLING PARK PTY LTD	16-23 Clifton Avenue, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	23-May-19
1580789	SYDNEY RECYCLING PARK PTY LTD	16-23 Clifton Avenue, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	29-Jul-19
1524066	VICTOR VAN DER KLOOSTER	20 Victor Avenue, KEMPS CREEK, NSW 2178	s.91 Clean Up Notice	Issued	25-Aug-14
1524702	XPRESS TRANSPORT SOLUTIONS PTY LTD	50 VICTOR AVENUE, KEMPS CREEK, NSW 2178	s.91 Clean Up Notice	Issued	1-Sep-14
3085778109	XPRESS TRANSPORT SOLUTIONS PTY LTD	50 VICTOR AVENUE, KEMPS CREEK, NSW 2178	Penalty Notice	Issued	22-Dec-15

Appendix J Australian and State Heritage Register Records Search



The Fleurs Radio Telescope Site

Item details

Name of item:	The Fleurs Radio Telescope Site
Other name/s:	Fleurs Farm
Primary address:	885(a) Mamre Road, Kemps Creek, NSW 2178
Local govt. area:	Penrith

All addresses

Street Address	Suburb/town	LGA	Parish	County	Type
885(a) Mamre Road	Kemps Creek	Penrith			Primary Address



Bayley Park - House

Item details

Name of item:	Bayley Park - House
Type of item:	Built
Group/Collection:	Residential buildings (private)
Category:	Homestead building
Primary address:	919-929 Mamre Road, Kemps Creek, NSW 2171
County:	Cumberland
Local govt. area:	Penrith

All addresses

Street Address	Suburb/town	LGA	Parish	County	Type
919-929 Mamre Road	Kemps Creek	Penrith		Cumberland	Primary Address



The Fleurs Radio Telescope Site

Item details

Name of item: The Fleurs Radio Telescope Site

Other name/s: Fleurs Farm

Primary address: 885(a) Mamre Road, Kemps Creek, NSW 2178

Local govt. area: Penrith

All addresses

Street Address	Suburb/town	LGA	Parish	County	Type
885(a) Mamre Road	Kemps Creek	Penrith			Primary Address

Appendix K Data Quality Indicators

Data quality indicators have been adopted for this project in accordance with the appropriate guidance from the ASC NEPM. To assess the usability of the data prior to making decisions, the data was assessed against predetermined acceptable limits for precision, accuracy, representativeness, comparability, completeness and sensitivity (PARCCS) parameters.

The pre-determined DQIs established for the project are discussed below in relation to the PARCCS parameters and are shown in . Where DQIs were outside of the predetermined acceptable limits, an assessment was made of the implications on the failure on the usability of the data.

- **Precision** – measures the reproducibility of the measurement 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 (LCS), matrix spikes and surrogate spikes and analyses against reference standards. Deviations from the acceptance criteria may over-estimate (i.e. the recovery is greater than the acceptance criteria) or under-estimate (i.e. the recovery is lower than the acceptance criteria) the parameter of interest.
- **Representativeness** – expresses the degree which sample data accurately and precisely represent the environmental parameter within the sample unit of interest Representativeness is achieved by controlling for potential biases introduced during field sampling, storage, handling and analysis of samples
- **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 to achieve the objectives of the study and subject to the limits of the decision error.
- **Sensitivity** – expresses the appropriateness of the chosen field and laboratory methods, including the limits of reporting, in producing data which is sensitive enough to facilitate comparison of results with assessment thresholds (see **Section 7**).

Quantitative and qualitative acceptance criteria for the PARCCS parameters are presented in **Table K.1** following.

Table K.1 Data Quality Indicator Acceptance Criteria

Data Quality Indicator	Frequency	Optimal Acceptance Criteria
Precision		
Blind and split duplicates[1]	1 / 20 samples – total COPC concentrations only	0-10x the LOR – no limit 10-30x the LOR – 50 % >30x the LOR – 30 %
Laboratory duplicates[2]		
Accuracy		
Surrogate spikes	All organic analytes	70 % to 130 %
Matrix spikes	1 per laboratory report	70 % to 130 %
Laboratory control samples	1 per laboratory report	70 % to 130 %
Representativeness		
Sampling appropriateness	All samples	Standard operating procedures implemented by field staff trained and experienced in undertaken relevant assessment activities
Holding times	All samples	Within NATA accreditation (refer to detailed laboratory results)
Laboratory blanks	1 / 20 samples	<LOR
Trip spikes	1 per laboratory batch	70 % to 130 %
Trip blanks	1 per laboratory batch	<LOR
Rinsate samples	1 per laboratory batch (soil and groundwater)	<LOR
Field blank	1 per primary sample (soil-vapour)	<LOR
Comparability		
Operating procedures and field conditions	All samples	Standard operating procedures implemented by field staff trained and experienced in undertaken relevant assessment activities
Analytical methods	All samples	Consistent or comparable laboratory analytical methods must be used. Where more than one laboratory analytical methodology is used to provide data for parameters of interest, relevant affects on comparability require to be discussed.
Precision achieved	As per **Precision**	Achievement of acceptable **comparability** DQI is subject to achievement of acceptable **precision** and **sensitivity** DQIs.
Sensitivity achieved	As per **Sensitivity**	
Completeness		
Documentation	All data	Sample descriptions and documentation complete and available
Satisfactory data QA/QC	All data	Satisfactory results for frequency and results of all other data QA/QC parameters
Sufficient data collection	All data	sufficient valid data generated during the study to achieve the objectives of the study and subject to the limits of the decision error stated in **Table 6-1**
Sensitivity		
Limits of Reporting	All analytes, all media	The limits of reporting produced by the laboratory analytical methods undertaken were lower than the adopted assessment criteria.

Appendix L Data Quality Assessment

Appendix M Test Pit Logs

TEST PIT S001

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 28-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY RL

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	(RN) Silty CLAY, brown, heterogeneous, damp, low plasticity, firm, inclusion of rootlets	SM	S001-0-0.1		No asbestos, odour, staining
		0.4		CL	CLAY, reddish brown: damp, medium plasticity, stiff	SM	S001-0.3-0.4		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.70 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S002

PROJECT NUMBER 60330.	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME Mamre Road DSI	**DRILLING DATE** 28-May-21	**NORTHING** N/A
CLIENT Altis Property Group	**DRILL RIG** Backhoe	**COORD SYS** N/A
ADDRESS 884 Mamre Road, Kemps Creek	**DRILLING METHOD** Bucket Excavation	**COORD SOURCE**
	DIMENSIONS x m	**LOGGED BY** RL

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	(RN) Silty CLAY, brown, heterogeneous, damp, low plasticity, firm, inclusion of rootlets	SM	S002-0-0.1		
		0.4		CL	CLAY, reddish brown: damp, medium plasticity, stiff	SM	S002-0.3-0.4		
		0.6							
		0.8			Termination Depth at: 0.70 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S003

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 27-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY RL

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	Silty GRAVEL, grey, heterogeneous, dry, loose to medium dense	D	S003-0-0.1		No asbestos, odour, staining
		0.4		CL	CLAY, reddish brown: homogenous, damp, medium plasticity, stiff	SM	S003-0.4-0.5		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.80 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S004

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 27-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY RL

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	(RN) Silty CLAY, brown, heterogeneous, damp, low plasticity, soft	SM	S004-0-0.1		No asbestos, odour, staining
		0.4		CL	CLAY, brown, mottled grey, damp, medium plasticity, stiff	SM	S004-0.4-0.5		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.80 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S005

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 27-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY RL

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2 0.4		Fill	Silty CLAY, heterogeneous, damp, low plasticity, firm, inclusion of trace polystyrene, plastic packing tape, igneous gravel	SM	S005-0-0.1 S005-0.3-0.4		No asbestos, odour, staining
		0.6 0.8 1 1.2 1.4 1.6 1.8 2 2.2 2.4 2.6 2.8 3 3.2 3.4 3.6 3.8			Termination Depth at: 0.50 m.				

TEST PIT S006

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 27-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY RL

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		MH	SILT, brown, heterogeneous, damp, non-plastic, soft, inclusion of rootlets	SM	S006-0-0.1		No asbestos, odour, staining
		0.4		CL	Sandy CLAY, red, moist, medium plasticity, firm to stiff, inclusion of trace angular, claystone gravels	M	S006-0.3-0.4		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.70 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S007

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 27-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY RL

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2 0.4 0.6		Fill	Silty CLAY, brown, heterogeneous, damp, low plasticity, inclusion of trace plastic and brick	SM	S007-0-0.1 S007-0.3-0.4		No asbestos, odour, staining
		0.8 1		CL	CLAY, red mottled brown, damp, medium plasticity, stiff	SM	S007-0.8-0.9		No asbestos, odour, staining
		1.2 1.4 1.6 1.8 2 2.2 2.4 2.6 2.8 3 3.2 3.4 3.6 3.8			Termination Depth at: 1.10 m.				

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TEST PIT S008

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 27-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY RL

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	(RN) Silty CLAY, brown, heterogeneous, damp, low plasticity, soft	SM	S008-0-0.1		No asbestos, odour, staining
		0.4		Fill	(RN) CLAY, red, heterogeneous, damp, medium plasticity, firm to stiff, inclusion of polystyrene, trace coal	SM	S008-0.4-0.5		No asbestos, odour, staining
		0.6							
		0.8		CL	CLAY, red mottled grey, homogenous, damp, stiff	SM	S008-0.9-1		
		1							
		1.2							
		1.4			Termination Depth at: 1.30 m.				
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S009

PROJECT NUMBER 60330.	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME Mamre Road DSI	**DRILLING DATE** 28-May-21	**NORTHING** N/A
CLIENT Altis Property Group	**DRILL RIG** Backhoe	**COORD SYS** N/A
ADDRESS 884 Mamre Road, Kemps Creek	**DRILLING METHOD** Bucket Excavation	**COORD SOURCE**
	DIMENSIONS x m	**LOGGED BY** RL

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2 0.4 0.6 0.8 1		Fill	Silty CLAY, brown, heterogeneous, damp, medium plasticity, firm	SM	S009-0-0.1 S009-0.4-0.5		No asbestos, odour, staining
		1.2 1.4		CL	CLAY, orange / brown, homogenous, damp, high plasticity, firm	SM	S009-1.4-1.6		
		1.6 1.8 2 2.2 2.4 2.6 2.8 3 3.2 3.4 3.6 3.8			Termination Depth at: 1.60 m.				

TEST PIT S010

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 28-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY RL

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2 0.4 0.6		Fill	Silty CLAY, brown, heterogeneous, damp, medium plasticity, firm	SM	S010-0-0.1 S010-0.3-0.4		No asbestos, odour, staining
		0.8 1 1.2		CL	CLAY, orange / grey / yellow, homogenous, damp, high plasticity, firm, inclusion of roots	SM	S010-0.9-1		No asbestos, odour, staining
		1.4 1.6 1.8 2 2.2 2.4 2.6 2.8 3 3.2 3.4 3.6 3.8			Termination Depth at: 1.30 m.				

TEST PIT S011

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 28-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY RL

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2 0.4 0.6 0.8 1 1.2		Fill	Silty CLAY, brown, homogenous, damp, medium plasticity, firm	SM	S011-0-0.1 S011-0.3-0.4		No asbestos, odour, staining
		1.4 1.6 1.8		CL	CLAY, yellow / orange / grey, homogenous, wet, high plasticity, firm	W	S011-1.4-1.6		No asbestos, odour, staining
		2 2.2 2.4 2.6 2.8 3 3.2 3.4 3.6 3.8			Termination Depth at: 1.80 m.				

TEST PIT S012

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 27-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY RL

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2 0.4 0.6 0.8 1 1.2		Fill	Silty CLAY, heterogeneous, damp, low plasticity, firm, inclusion of trace brick	SM	S012-0-0.1 S012-0.4-0.5 S012-0.9-1		No asbestos, odour, staining
		1.4 1.6 1.8		CL	CLAY, red, homogenous, damp, medium plasticity	SM	S012-1.6-1.7		No asbestos, odour, staining
		2 2.2 2.4 2.6 2.8 3 3.2 3.4 3.6 3.8			Termination Depth at: 2.00 m.				

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TEST PIT S013

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 27-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY RL

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		ML	SILT, brown, heterogeneous, damp, non-plastic, soft, inclusion of rootlets	SM	S013-0-0.1		No asbestos, odour, staining
				CL	Sandy CLAY, red, moist, medium plasticity, firm to stiff, inclusion of trace angular, claystone gravels	M	S013-0.3-0.4		No asbestos, odour, staining
		0.4			Termination Depth at: 0.40 m.				
		0.6							
		0.8							
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S014

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 28-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY RL

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	Silty CLAY, brown, heterogeneous, low plasticity, firm, inclusion of rootlets		S014-0-0.1		No asbestos, odour, staining
		0.4		CL	CLAY, red mottled / grey, homogenous, damp, medium plasticity, stiff	SM	S014-0.3-0.4		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.80 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S015

PROJECT NUMBER 60330.	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME Mamre Road DSI	**DRILLING DATE** 28-May-21	**NORTHING** N/A
CLIENT Altis Property Group	**DRILL RIG** Backhoe	**COORD SYS** N/A
ADDRESS 884 Mamre Road, Kemps Creek	**DRILLING METHOD** Bucket Excavation	**COORD SOURCE**
	DIMENSIONS x m	**LOGGED BY** RL

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	Silty CLAY, brown, heterogeneous, low plasticity, firm, inclusion of rootlets		S015-0-0.1		No asbestos, odour, staining
		0.4		CL	CLAY, red, homogenous, damp, medium plasticity, stiff	SM	S015-0.3-0.4		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.80 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S016

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 28-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY RL

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	Silty CLAY, brown, damp, low plasticity	SM	S016-0-0.1		No asbestos, odour, staining
		0.4		CL	CLAY, reddish brown: damp, moderate plasticity		S016-0.3-0.4		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.80 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S017

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 27-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY RL

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	Silty CLAY, brown, heterogeneous, damp, non-plastic, soft to firm	SM	S017-0-0.1		No asbestos, odour, staining
		0.4					S017-0.3-0.4		
		0.6		CL	CLAY, red mottlted light brown, homogenous, damp, trace gravel	SM	S017-0.6-0.7		No asbestos, odour, staining
		0.8							
		1			Termination Depth at: 0.90 m.				
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S018

PROJECT NUMBER 60330.	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME Mamre Road DSI	**DRILLING DATE** 27-May-21	**NORTHING** N/A
CLIENT Altis Property Group	**DRILL RIG** Backhoe	**COORD SYS** N/A
ADDRESS 884 Mamre Road, Kemps Creek	**DRILLING METHOD** Bucket Excavation	**COORD SOURCE**
	DIMENSIONS x m	**LOGGED BY** RL

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	Silty CLAY, brown, heterogeneous, damp, non-plastic, soft to firm	SM	S018-0-0.1		No asbestos, odour, staining
		0.4					S018-0.3-0.4		
		0.6		CL	CLAY, red mottlted light brown, homogenous, damp, trace gravel	SM	S018-0.6-0.7		No asbestos, odour, staining
		0.8							
		1			Termination Depth at: 1.00 m.				
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S019

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 27-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY RL

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	Silty CLAY, brown, heterogeneous, damp, non-plastic, soft to firm	SM	S019-0-0.1		No asbestos, odour, staining
		0.4		CL	CLAY, red mottlted light brown, homogenous, damp, trace gravel	SM	S019-0.3-0.4		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.75 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S020

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 27-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY RL

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	Silty CLAY, brown, heterogeneous, damp, non-plastic, soft to firm	SM	S020-0-0.1		No asbestos, odour, staining
		0.4		CL	CLAY, red mottlted light brown, homogenous, damp, trace gravel	SM	S020-0.3-0.4		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.75 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S021

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 27-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY RL

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	Silty CLAY, brown, heterogeneous, damp, non-plastic, soft to firm	SM	S021-0-0.1		No asbestos, odour, staining
		0.4		CL	CLAY, red mottlted light brown, homogenous, damp, trace gravel	SM	S021-0.4-0.5		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.80 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S022

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 27-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY RL

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	Silty CLAY, brown, heterogeneous, damp, non-plastic, soft to firm	SM	S022-0-0.1		No asbestos, odour, staining
		0.4		CL	CLAY, red mottlted light brown, homogenous, damp, trace gravel	SM	S022-0.3-0.4		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.70 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S023

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 27-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY RL

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	Silty CLAY, brown, heterogeneous, damp, non-plastic, soft to firm	SM	S023-0-0.1		No asbestos, odour, staining
		0.4		CL	CLAY, red mottlted light brown, homogenous, damp, trace gravel	SM	S023-0.4-0.5		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.80 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S024

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 27-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY RL

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	(RN) Silty CLAY, brown, heterogeneous, damp, low plasticity, soft, inclusion of rootlets	SM	S024-0-0.1		No asbestos, odour, staining
		0.4		Fill	Silty CLAY, brown, heterogeneous, damp, non-plastic, firm, inclusion of steel reinforcing, plastic packing tape, gravels, brick, cement board, tile	SM	S024-0.4-0.5		No asbestos, odour, staining
		0.6							
		0.8					S024-0.8-0.9		
		1		CL	CLAY, red, homogenous, damp, medium plasticity, stiff	SM			No asbestos, odour, staining
		1.2							
		1.4					S024-1.3-1.4		
		1.6			Termination Depth at: 1.50 m.				
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S025

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 27-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY RL

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	Silty CLAY, brown, heterogeneous, damp, low plasticity, soft to firm, inclusion of rootlets	SM	S025-0-0.1		No asbestos, odour, staining
		0.4		CL	CLAY, red mottled brown, homogenous, damp, medium plasticity, stiff	SM	S025-0.4-0.5		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.80 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S026

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 27-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY RL

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	(RN) Silty CLAY, brown, heterogeneous, damp, low plasticity, firm	SM	S026-0-0.1		No asbestos, odour, staining
		0.4		Fill	(RN) Silty CLAY, brown, heterogeneous, damp, low plasticity, firm	SM	S026-0.3-0.4		No asbestos, odour, staining
		0.6		Fill	(RN) Silty CLAY, brown, heterogeneous, damp, low plasticity, firm	SM	S026-0.6-0.7		No asbestos, odour, staining
		0.8		CL	CLAY, red, homogenous, damp, medium plasticity	SM	S026-0.9-1		No asbestos, odour, staining
		1							
		1.2			Termination Depth at: 1.20 m.				
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S027

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 27-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY RL

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	(RN) Silty CLAY, brown, heterogeneous, damp, non- to low plasticity, soft	SM	S027-0-0.1		No asbestos, odour, staining
		0.4		CL	CLAY, red: homogenous, damp, medium plasticity, stiff	SM	S027-0.3-0.4		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.70 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S028

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 27-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY RL

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	Silty CLAY, brown, heterogeneous, damp, non-plastic, soft to firm	SM	S028-0-0.1		No asbestos, odour, staining
		0.4		CL	CLAY, red mottlted light brown, homogenous, damp, trace gravel	SM	S028-0.3-0.4		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.70 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S029

PROJECT NUMBER 60330.	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME Mamre Road DSI	**DRILLING DATE** 27-May-21	**NORTHING** N/A
CLIENT Altis Property Group	**DRILL RIG** Backhoe	**COORD SYS** N/A
ADDRESS 884 Mamre Road, Kemps Creek	**DRILLING METHOD** Bucket Excavation	**COORD SOURCE**
	DIMENSIONS x m	**LOGGED BY** RL

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	Silty CLAY, brown, heterogeneous, damp, non-plastic, soft to firm	SM	S029-0-0.1		No asbestos, odour, staining
		0.4		CL	CLAY, red mottlted light brown, homogenous, damp, trace gravel	SM	S029-0.4-0.5		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.80 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S030

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 27-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY RL

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	Silty CLAY, brown, heterogeneous, damp, non-plastic, soft to firm	SM	S030-0-0.1		No asbestos, odour, staining
		0.4		CL	CLAY, red mottlted light brown, homogenous, damp, trace gravel	SM	S030-0.4-0.5		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.80 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S031

PROJECT NUMBER 60330.	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME Mamre Road DSI	**DRILLING DATE** 26-May-21	**NORTHING** N/A
CLIENT Altis Property Group	**DRILL RIG** Backhoe	**COORD SYS** N/A
ADDRESS 884 Mamre Road, Kemps Creek	**DRILLING METHOD** Bucket Excavation	**COORD SOURCE**
	DIMENSIONS x m	**LOGGED BY** ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	(RN) Silty CLAY, brown, homogenous, damp, medium plasticity, firm, inclusion of root	SM	S031-0-0.1		No asbestos, odour, staining. QAQC02 taken at 0.0-0.1
		0.4		CH	CLAY, light brown/ orange, homogenous, damp, high plasticity, stiff	SM	S031-0.4-0.5		No asbestos, odour, staining
		0.6							
		0.8							
		1			Termination Depth at: 0.90 m.				
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S032

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 27-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY RL

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	GRAVEL, grey, heterogeneous, dry, loose, mdedium grain (roadbase)	D	S032-0-0.1		No asbestos, odour, staining
		0.4		CH	CLAY, red mottlted light brown, heterogeneous, damp, stiff, inclusion of trace ironstone, gravels	SM	S032-0.4-0.5		No asbestos, odour, staining
		0.6			Termination Depth at: 0.60 m.				
		0.8							
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S033

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 27-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY RL

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	GRAVEL, grey and white, heterogeneous, dry, medium to fine, medium dense	D	S033-0-0.1		No asbestos, odour, staining
		0.4		CH	CLAY, red, homogenous, damp, medium plasticity,stiff	SM	S033-0.3-0.4		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.70 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S034

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 27-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY RL

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	GRAVEL, grey and white, heterogeneous, dry, medium to fine, medium dense	D	S034-0-0.1		No asbestos, odour, staining
		0.4		CH	CLAY, red, homogenous, damp, medium plasticity,stiff	SM	S034-0.3-0.4		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.70 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S035

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 27-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY RL

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	(RN) Silty CLAY, brown, heterogeneous, damp, non- to low plasticity, soft	SM	S035-0-0.1		No asbestos, odour, staining
		0.4		CL	CLAY, red: homogenous, damp, medium plasticity, stiff	SM	S035-0.3-0.4		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.70 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S036

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 27-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY RL

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	(RN) Silty CLAY, brown, heterogeneous, damp, low plasticity, firm	SM	S036-0-0.1		No asbestos, odour, staining
		0.4					S036-0.4-0.5		
		0.6		CL	CLAY, red, homogenous, damp, medium plasticity	SM			No asbestos, odour, staining
		0.8					S036-0.8-0.9		
		1							
		1.2			Termination Depth at: 1.20 m.				
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S037

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 27-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY RL

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	(RN) Silty CLAY, brown, heterogeneous, damp, low plasticity, firm	SM	S037-0-0.1		No asbestos, odour, staining
		0.4		CL	CLAY, red, homogenous, damp, medium plasticity	SM	S037-0.3-0.4		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.80 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S038

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 27-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY RL

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	(RN) Silty CLAY, brown, heterogeneous, damp, non- to low plasticity, soft	SM	S038-0-0.1		No asbestos, odour, staining
		0.4		CL	CLAY, red: homogenous, damp, medium plasticity, stiff	SM	S038-0.3-0.4		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.70 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S039

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 27-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY RL

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	(RN) Silty CLAY, brown, heterogeneous, damp, non- to low plasticity, soft	SM	S039-0-0.1		No asbestos, odour, staining
		0.4		CL	CLAY, red: homogenous, damp, medium plasticity, stiff	SM	S039-0.3-0.4		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.80 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S040

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 27-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY RL

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2			(RN) Silty CLAY, brown, heterogeneous, damp, low plasticity, soft, inclusion of rootlets	SM	S040-0-0.1		No asbestos, odour, staining
		0.4		Fill	CLAY, red: homogenous, damp, medium plasticity, stiff	SM	S040-0.3-0.4		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.70 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S041

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 27-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY RL

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		CL	(RN) Silty CLAY, brown, heterogeneous, damp, non- to low plasticity, soft	SM	S041-0-0.1		No asbestos, odour, staining
		0.4		CL	CLAY, red: homogenous, damp, medium plasticity, stiff	SM	S041-0.3-0.4		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.70 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S042

PROJECT NUMBER 60330.	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME Mamre Road DSI	**DRILLING DATE** 27-May-21	**NORTHING** N/A
CLIENT Altis Property Group	**DRILL RIG** Backhoe	**COORD SYS** N/A
ADDRESS 884 Mamre Road, Kemps Creek	**DRILLING METHOD** Bucket Excavation	**COORD SOURCE**
	DIMENSIONS x m	**LOGGED BY** ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	(RN) Silty CLAY, brown, heterogeneous, damp, medium plasticity, soft, inclusion of rootlets	SM	S042-0-0.1		No asbestos, odour, staining
		0.4		Fill	(RN) Sandy CLAY, brown/grey/orange, heterogeneous, damp, medium-high plascticity, soft, inclusion of rock	SM	S042-0.3-0.4		No asbestos, odour, staining
		0.6							
		0.8							
		1					S042-0.9-1		
		1.2							
		1.4							
		1.6							
		1.8		Fill	Silty CLAY, black/brown, heterogeneous, wet, medium plasticity	W			organic smell
		2					S042-1.9-2		
		2.2							
		2.4							
		2.6		CH	CLAY, orange, homogenous, damp, high plasticity Termination Depth at: 2.50 m.	SM	S042-2.5-2.6		No asbestos, odour, staining
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S043

PROJECT NUMBER 60330.	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME Mamre Road DSI	**DRILLING DATE** 27-May-21	**NORTHING** N/A
CLIENT Altis Property Group	**DRILL RIG** Backhoe	**COORD SYS** N/A
ADDRESS 884 Mamre Road, Kemps Creek	**DRILLING METHOD** Bucket Excavation	**COORD SOURCE**
	DIMENSIONS x m	**LOGGED BY** ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	(RN) Silty CLAY, brown, heterogeneous, damp, medium plasticity, soft, inclusion of rootlets	SM	S043-0-0.1		No asbestos, odour, staining
		0.4		Fill	(RN) Sandy CLAY, brown/grey/orange, heterogeneous, damp, medium-high plascticity, soft, inclusion of rock	SM	S043-0.3-0.4		No asbestos, odour, staining
		0.6							
		0.8							
		1					S043-0.9-1		
		1.2							
		1.4							
		1.6							
		1.8							
		2					S043-1.9-2		
		2.2		Fill	Silty CLAY, black/brown, heterogeneous, wet, medium plasticity	W			No asbestos, odour, staining
		2.4							
		2.6					S043-2.5-2.6		
		2.8							
		3							
		3.2							
		3.4							
		3.6			Termination Depth at: 3.50 m.				
		3.8							

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TEST PIT S044

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 26-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE				CH	Saturated sandy CLAY, brown	W	S044-0-0.1		No asbestos, odour, staining
		0.2			Termination Depth at: 0.15 m.				
		0.4							
		0.6							
		0.8							
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S045

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 26-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY RL

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	Silty CLAY, brown, heterogeneous, damp, low plasticity, firm: inclusion of rootlets	SM	S045-0-0.1		No asbestos, odour, staining
		0.4		CH	CLAY, red mottled grey, homogenous, damp, high plasticity	SM	S045-0.3-0.4		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.75 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S046

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 26-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	(RN) Silty CLAY, brown, homogenous, damp, medium plasticity, firm, inclusion of root	SM	S046-0-0.1		No asbestos, odour, staining
		0.4		CH	CLAY, light brown/ orange, homogenous, damp, high plasticity, stiff	SM	S046-0.3-0.4		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.80 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S047

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 26-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	Silty CLAY, brown, heterogeneous, damp, low plasticity, firm: inclusion of rootlets	SM	S047-0-0.1		No asbestos, odour, staining
		0.4		CH	CLAY, red mottled grey, homogenous, damp, high plasticity	SM	S047-0.3-0.4		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.80 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S048

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 26-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	(RN) Silty CLAY, brown, homogenous, damp, medium plasticity, firm, inclusion of root	SM	S048-0-0.1		No asbestos, odour, staining
		0.4		CH	Gravelly CLAY, grey/ brown, homogenous, damp, medium plasticity	SM	S048-0.3-0.4		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.80 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S049

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 26-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	(RN) Silty CLAY, brown, homogenous, damp, medium plasticity, firm, inclusion of root	SM	S049-0-0.1		No asbestos, odour, staining
		0.4		CH	Gravelly CLAY, grey/ brown, homogenous, damp, medium plasticity	SM	S049-0.3-0.4		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.80 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S050

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 27-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	(RN) Sandy CLAY, brown/grey/orange, heterogeneous, damp, medium-high plascticity, soft, inclusion of rock	SM	S050-0-0.1		No asbestos, odour, staining
		0.4		Fill	Silty CLAY, black/brown, heterogeneous, wet, medium plasticity, inclusion of gravel	W	S050-0.3-0.4		
		0.6							
		0.8							
		1					S050-0.9-1		
		1.2							
		1.4							
		1.6							
		1.8		CH	CLAY, grey/orange, homogenous, damp, hige plasticity, inclusion of	SM			
		2					S050-1.9-2		
		2.2							
		2.4			Termination Depth at: 2.30 m.				
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S051

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 27-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	(RN) Silty CLAY, brown, heterogeneous, damp, medium plasticity, soft-firm, inclusion of root	SM	S051-0-0.1		No asbestos, odour, staining
		0.4		CL	CLAY, grey/orange mottlted: homogenous, damp, stiff	SM	S051-0.3-0.4		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.80 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S052

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 28-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY RL

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	(RN) Silty CLAY, brown, heterogeneous, damp, low plasticity, firm, inclusion of rootlets	SM	S052-0-0.1		No asbestos, odour, staining
		0.4		CL	CLAY, red mottled / grey, homogenous, damp, medium plasticity, firm	SM	S052-0.3-0.4		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.80 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S053

PROJECT NUMBER 60330.	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME Mamre Road DSI	**DRILLING DATE** 28-May-21	**NORTHING** N/A
CLIENT Altis Property Group	**DRILL RIG** Backhoe	**COORD SYS** N/A
ADDRESS 884 Mamre Road, Kemps Creek	**DRILLING METHOD** Bucket Excavation	**COORD SOURCE**
	DIMENSIONS x m	**LOGGED BY** RL

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	(RN) Silty CLAY, brown, heterogeneous, damp, low plasticity, firm, inclusion of rootlets	SM	S053-0-0.1		No asbestos, odour, staining
		0.4		CL	CLAY, red mottled / grey, homogenous, damp, medium plasticity, firm	SM	S053-0.4-0.5		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.80 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S054

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 27-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	(RN) Silty CLAY, brown, homogenous, damp, medium plasticity, soft, inclusion of root	SM	S054-0-0.1		No asbestos, odour, staining
		0.4		CH	CLAY, orange/brown mottled, homogenous, damp, high plasticity, firm	SM	S054-0.3-0.4		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.80 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S055

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 28-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY RL

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	Silty CLAY, brown, heterogeneous, damp, low plasticity, firm: inclusion of rootlets	SM	S055-0-0.1		No asbestos, odour, staining. QAQC03 taken at 0.0-0.1
		0.4		CH	CLAY, red mottled grey, homogenous, damp, high plasticity	SM	S055-0.4-0.5		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.80 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S056

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 28-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY RL

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	Silty CLAY, brown, heterogeneous, damp, low plasticity, firm: inclusion of rootlets	SM	S056-0-0.1		No asbestos, odour, staining
		0.4		CH	CLAY, red mottled grey, homogenous, damp, high plasticity	SM	S056-0.4-0.5		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.80 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S057

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 27-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	(RN) Silty CLAY, brown, homogenous, damp, medium plasticity, soft, inclusion of root	SM	S057-0-0.1		No asbestos, odour, staining
		0.4		CH	CLAY, orange/brown mottled, homogenous, damp, high plasticity, firm	SM	S057-0.3-0.4		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.80 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S058

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 27-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	(RN) Silty CLAY, brown, homogenous, damp, medium plasticity, soft, inclusion of root	SM	S058-0-0.1		No asbestos, odour, staining
		0.4		CH	CLAY, orange/brown mottled, homogenous, damp, high plasticity, firm	SM	S058-0.4-0.5		No asbestos, odour, staining
		0.6							
		0.8							
		1			Termination Depth at: 0.90 m.				
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S059

PROJECT NUMBER 60330.	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME Mamre Road DSI	**DRILLING DATE** 28-May-21	**NORTHING** N/A
CLIENT Altis Property Group	**DRILL RIG** Backhoe	**COORD SYS** N/A
ADDRESS 884 Mamre Road, Kemps Creek	**DRILLING METHOD** Bucket Excavation	**COORD SOURCE**
	DIMENSIONS x m	**LOGGED BY** RL

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	Silty CLAY, brown, heterogeneous, damp, low plasticity, firm: inclusion of rootlets	SM	S059-0-0.1		No asbestos, odour, staining
		0.4		CL	CLAY, red mottled grey, homogenous, damp, medium plasticity	SM	S059-0.3-0.4		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.80 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S060

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 28-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY RL

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	(RN) Silty CLAY, brown, heterogeneous, damp, low plasticity, firm, inclusion of rootlets	SM	S060-0-0.1		No asbestos, odour, staining
		0.4		CL	CLAY, red mottled / grey, homogenous, damp, medium plasticity, firm	SM	S060-0.3-0.4		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.80 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S061

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 27-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	(RN) Silty CLAY, brown, heterogeneous, damp, medium plasticity, soft-firm, inclusion of root	SM	S061-0-0.1		No asbestos, odour, staining
		0.4		CL	CLAY, grey/orange mottlted: homogenous, damp, stiff	SM	S061-0.3-0.4		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.80 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S062

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 27-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	(RN) Silty CLAY, brown, heterogeneous, damp, medium plasticity, soft-firm, inclusion of root	SM	S062-0-0.1		No asbestos, odour, staining
		0.4		CL	CLAY, grey/orange mottlted: homogenous, damp, stiff	SM	S062-0.3-0.4		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.80 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S063

PROJECT NUMBER 60330.	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME Mamre Road DSI	**DRILLING DATE** 28-May-21	**NORTHING** N/A
CLIENT Altis Property Group	**DRILL RIG** Backhoe	**COORD SYS** N/A
ADDRESS 884 Mamre Road, Kemps Creek	**DRILLING METHOD** Bucket Excavation	**COORD SOURCE**
	DIMENSIONS x m	**LOGGED BY** RL

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	(RN) Silty CLAY, brown, heterogeneous, damp, low plasticity, firm, inclusion of rootlets	SM	S063-0-0.1		No asbestos, odour, staining
		0.4		CL	CLAY, red mottled / grey, homogenous, damp, medium plasticity, firm	SM	S063-0.3-0.4		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.70 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S064

PROJECT NUMBER 60330.	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME Mamre Road DSI	**DRILLING DATE** 28-May-21	**NORTHING** N/A
CLIENT Altis Property Group	**DRILL RIG** Backhoe	**COORD SYS** N/A
ADDRESS 884 Mamre Road, Kemps Creek	**DRILLING METHOD** Bucket Excavation	**COORD SOURCE**
	DIMENSIONS x m	**LOGGED BY** RL

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	(RN) Silty CLAY, brown, heterogeneous, damp, low plasticity, firm, inclusion of rootlets	SM	S064-0-0.1		No asbestos, odour, staining
		0.4		CL	CLAY, red mottled / grey, homogenous, damp, medium plasticity, firm	SM	S064-0.3-0.4		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.80 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S065

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 27-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	(RN) Silty CLAY, brown, homogenous, damp, medium plasticity, soft, inclusion of root	SM	S065-0-0.1		No asbestos, odour, staining
		0.4		CH	CLAY, white orange light brown, damp, high plasticity, stiff	SM	S065-0.3-0.4		No asbestos, odour, staining
		0.6			Termination Depth at: 0.60 m.				
		0.8							
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S066

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 26-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	(RN) Silty CLAY, brown, homogenous, damp, medium plasticity, firm, inclusion of root	SM	S066-0-0.1		No asbestos, odour, staining
		0.4		CH	CLAY, light brown/ orange, homogenous, damp, high plasticity, stiff, inclusion of rock	SM	S066-0.3-0.4		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.80 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S067

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 27-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	(RN) Silty CLAY, brown, homogenous, damp, medium plasticity, firm, inclusion of root	SM	S067-0-0.1		No asbestos, odour, staining
		0.4		CH	CLAY, light brown/ orange, homogenous, damp, high plasticity, stiff	SM	S067-0.3-0.4		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.70 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S068

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 26-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	(RN) Silty CLAY, brown, homogenous, damp, medium plasticity, firm, inclusion of root	SM	S068-0-0.1		No asbestos, odour, staining
		0.4		CH	CLAY, light brown/ orange, homogenous, damp, high plasticity, stiff	SM	S068-0.4-0.5		No asbestos, odour, staining
		0.6							
		0.8							
		1			Termination Depth at: 0.90 m.				
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S069

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 27-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	(RN) Silty CLAY, brown, homogenous, damp, medium plasticity, firm, inclusion of root	SM	S069-0-0.1		No asbestos, odour, staining
		0.4		CH	CLAY, light brown/ orange, homogenous, damp, high plasticity, stiff	SM	S069-0.3-0.4		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.80 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S070

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 26-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	(RN) Silty CLAY, brown, homogenous, damp, medium plasticity, firm, inclusion of root	SM	S070-0-0.1		No asbestos, odour, staining
		0.4		CH	CLAY, light brown/ orange, homogenous, damp, high plasticity, stiff, inclusion of rock Termination Depth at: 0.40 m.	SM	S070-0.4-0.5		No asbestos, odour, staining
		0.6							
		0.8							
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S071

PROJECT NUMBER 60330.	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME Mamre Road DSI	**DRILLING DATE** 27-May-21	**NORTHING** N/A
CLIENT Altis Property Group	**DRILL RIG** Backhoe	**COORD SYS** N/A
ADDRESS 884 Mamre Road, Kemps Creek	**DRILLING METHOD** Bucket Excavation	**COORD SOURCE**
	DIMENSIONS x m	**LOGGED BY** ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	(RN) Silty CLAY, brown, heterogeneous, damp, low plasticity, firm, inclusion of rootlets	SM	S071-0-0.1		No asbestos, odour, staining
		0.4		CL	CLAY, red mottled / grey, homogenous, damp, medium plasticity, firm	SM	S071-0.3-0.4		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.80 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S072

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 26-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	(RN) Silty CLAY, brown, heterogeneous, damp, low plasticity, firm, inclusion of rootlets	SM	S072-0-0.1		No asbestos, odour, staining
		0.4		CL	CLAY, red mottled / grey, homogenous, damp, medium plasticity, firm	SM	S072-0.3-0.4		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.70 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S073

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 27-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	(RN) Silty CLAY, brown, heterogeneous, damp, medium plasticity, soft-firm, inclusion of root	SM	S073-0-0.1		No asbestos, odour, staining
		0.4		CL	CLAY, grey/orange mottlted: homogenous, damp, stiff	SM	S073-0.3-0.4		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.80 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S074

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 27-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	(RN) Silty CLAY, brown, heterogeneous, damp, medium plasticity, soft-firm, inclusion of root	SM	S074-0-0.1		No asbestos, odour, staining
		0.4		CL	CLAY, grey/orange mottlted: homogenous, damp, stiff	SM	S074-0.3-0.4		No asbestos, odour, staining
					Termination Depth at: 0.40 m.				

TEST PIT S075

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 28-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY RL

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	(RN) Silty CLAY, brown, heterogeneous, damp, low plasticity, firm, inclusion of rootlets	SM	S075-0-0.1		No asbestos, odour, staining
		0.4		CL	CLAY, red mottled / grey, homogenous, damp, medium plasticity, firm	SM	S075-0.3-0.4		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.75 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S076

PROJECT NUMBER 60330.	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME Mamre Road DSI	**DRILLING DATE** 28-May-21	**NORTHING** N/A
CLIENT Altis Property Group	**DRILL RIG** Backhoe	**COORD SYS** N/A
ADDRESS 884 Mamre Road, Kemps Creek	**DRILLING METHOD** Bucket Excavation	**COORD SOURCE**
	DIMENSIONS x m	**LOGGED BY** RL

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	(RN) Silty CLAY, brown, heterogeneous, damp, low plasticity, firm, inclusion of rootlets	SM	S076-0-0.1		No asbestos, odour, staining
		0.4		CL	CLAY, red mottled / grey, homogenous, damp, medium plasticity, firm	SM	S076-0.3-0.4		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.80 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S077

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 27-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	(RN) Silty CLAY, brown, homogenous, damp, medium plasticity, firm, inclusion of root	SM	S077-0-0.1		No asbestos, odour, staining
		0.4		CH	CLAY, light brown/ orange, homogenous, damp, high plasticity, stiff, inclusion of rock	SM	S077-0.4-0.5		No asbestos, odour, staining
		0.6							
		0.8							
		1			Termination Depth at: 0.90 m.				
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S078

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 27-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	(RN) Silty CLAY, brown, homogenous, damp, medium plasticity, firm, inclusion of root	SM	S078-0-0.1		No asbestos, odour, staining
		0.4		CH	CLAY, light brown/ orange, homogenous, damp, high plasticity, stiff	SM	S078-0.3-0.4		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.80 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S079

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 27-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	(RN) Silty CLAY, brown, homogenous, damp, medium plasticity, firm, inclusion of root	SM	S079-0-0.1		No asbestos, odour, staining
		0.4		CH	CLAY, light brown/ orange, homogenous, damp, high plasticity, stiff	SM	S079-0.3-0.4		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.80 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S080

PROJECT NUMBER 60330.	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME Mamre Road DSI	**DRILLING DATE** 27-May-21	**NORTHING** N/A
CLIENT Altis Property Group	**DRILL RIG** Backhoe	**COORD SYS** N/A
ADDRESS 884 Mamre Road, Kemps Creek	**DRILLING METHOD** Bucket Excavation	**COORD SOURCE**
	DIMENSIONS x m	**LOGGED BY** ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	(RN) Silty CLAY, brown, homogenous, damp, medium plasticity, firm, inclusion of root	SM	S080-0-0.1		No asbestos, odour, staining
		0.4		CH	CLAY, light brown/ orange, homogenous, damp, high plasticity, stiff	SM	S080-0.3-0.4		No asbestos, odour, staining
		0.6			Termination Depth at: 0.60 m.				
		0.8							
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S081

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 28-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY RL

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	(RN) Silty CLAY, brown, heterogeneous, damp, low plasticity, firm, inclusion of rootlets	SM	S081-0-0.1		No asbestos, odour, staining
		0.4		CL	CLAY, red mottled / grey, homogenous, damp, medium plasticity, firm	SM	S081-0.3-0.4		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.80 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S082

PROJECT NUMBER 60330.	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME Mamre Road DSI	**DRILLING DATE** 28-May-21	**NORTHING** N/A
CLIENT Altis Property Group	**DRILL RIG** Backhoe	**COORD SYS** N/A
ADDRESS 884 Mamre Road, Kemps Creek	**DRILLING METHOD** Bucket Excavation	**COORD SOURCE**
	DIMENSIONS x m	**LOGGED BY** RL

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	(RN) Silty CLAY, brown, heterogeneous, damp, low plasticity, firm, inclusion of rootlets	SM	S082-0-0.1		No asbestos, odour, staining
		0.4		CL	CLAY, red mottled / grey, homogenous, damp, medium plasticity, firm	SM	S082-0.3-0.4		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.80 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S083

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 27-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	(RN) Silty CLAY, brown, heterogeneous, damp, medium plasticity, soft-firm, inclusion of root	SM	S083-0-0.1		No asbestos, odour, staining
		0.4		CL	CLAY, grey/orange mottlted: homogenous, damp, stiff	SM	S083-0.3-0.4		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.80 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S084

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 28-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY RL

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	(RN) Silty CLAY, brown, heterogeneous, damp, medium plasticity, firm	SM	S084-0-0.1		No asbestos, odour, staining
		0.4		CL	CLAY, brown / orange, homogenous, damp, high plasticity, stiff	SM	S084-0.3-0.4		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.80 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S085

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 28-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY RL

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	(RN) Silty CLAY, brown, heterogeneous, damp, low plasticity, firm, inclusion of rootlets	SM	S085-0-0.1		No asbestos, odour, staining
		0.4		CL	CLAY, red mottled / grey, homogenous, damp, medium plasticity, firm	SM	S085-0.3-0.4		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.80 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S086

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 28-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY RL

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	(RN) Silty CLAY, brown, heterogeneous, damp, low plasticity, firm, inclusion of rootlets	SM	S086-0-0.1		No asbestos, odour, staining
		0.4		CL	CLAY, red mottled / grey, homogenous, damp, medium plasticity, firm	SM	S086-0.3-0.4		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.80 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S087

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 28-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY RL

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	Silty CLAY, brown, heterogeneous, damp, low plasticity, firm: inclusion of rootlets	SM	S087-0-0.1		No asbestos, odour, staining
		0.4					S087-0.3-0.4		
		0.6		CL	CLAY, red mottled grey, homogenous, damp, medium plasticity	SM			No asbestos, odour, staining
		0.8							
		1			Termination Depth at: 0.90 m.				
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S088

PROJECT NUMBER 60330.	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME Mamre Road DSI	**DRILLING DATE** 27-May-21	**NORTHING** N/A
CLIENT Altis Property Group	**DRILL RIG** Backhoe	**COORD SYS** N/A
ADDRESS 884 Mamre Road, Kemps Creek	**DRILLING METHOD** Bucket Excavation	**COORD SOURCE**
	DIMENSIONS x m	**LOGGED BY** ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	(RN) Silty CLAY, brown, heterogeneous, damp, medium plasticity, soft-firm, inclusion of root	SM	S088-0-0.1		No asbestos, odour, staining
		0.4					S088-0.3-0.4		
				CH	CLAY, grey/orange, homogenous, moist, high plasticity, firm, inclusion of gravels	M			No asbestos, odour, staining
		0.6							
		0.8							
		1					S088-0.9-1		
		1.2							
		1.4							
		1.6							
		1.8		GM	Silty GRAVEL, brown: saturated, angular, loose	W			No asbestos, odour, staining
		2					S088-1.9-2		
		2.2							
		2.4			Termination Depth at: 2.30 m.				
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S089

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 27-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	(RN) Silty CLAY, brown, heterogeneous, damp, medium plasticity, soft-firm, inclusion of root	SM	S089-0-0.1		No asbestos, odour, staining
		0.4					S089-0.3-0.4		
		0.6		CH	CLAY, grey/orange, homogenous, wet, high plasticity, firm, inclusion of gravels	W			No asbestos, odour, staining
		0.8		GM	Silty GRAVEL, brown: saturated, angular, loose	W			No asbestos, odour, staining
		1					S089-0.9-1		
		1.2							
		1.4							
		1.6							
		1.8							
		2		CH	CLAY, orange, damp, high plasticity, stiff	SM	S089-1.9-2		No asbestos, odour, staining
		2.2							
		2.4			Termination Depth at: 2.40 m.				
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S090

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 26-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	(RN) Silty CLAY, brown, heterogeneous, damp, medium plasticity, inclusion of trace root	SM	S090-0-0.1		No asbestos, odour, staining
		0.4		CH	CLAY, orange/ mottled grey, homogenous, damp, high plasticity, stiff	SM	S090-0.3-0.4		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.80 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S091

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 26-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	(RN) Silty CLAY, brown, heterogeneous, damp, medium plasticity, inclusion of trace root	SM	S091-0-0.1		No asbestos, odour, staining
		0.4		CH	CLAY, red, homogenous, damp, high plasticity, stiff, inclusion of trace subangular ironstone and gravels	SM	S091-0.3-0.4		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.80 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S092

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 26-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	(RN) Silty CLAY, brown, heterogeneous, damp, medium plasticity, inclusion of trace root	SM	S092-0-0.1		No asbestos, odour, staining
		0.4		CH	CLAY, orange, homogenous, damp, high plasticity, stiff	SM	S092-0.3-0.4		No asbestos, odour, staining
		0.6			Termination Depth at: 0.60 m.				
		0.8							
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S093

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 26-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	(RN) Silty CLAY, brown, homogenous, damp, medium plasticity, firm, inclusion of root and trace rock	SM	S093-0-0.1		No asbestos, odour, staining
		0.4					S093-0.4-0.5		
		0.6		CH	CLAY, orange, homogenous, damp, high plasticity, stiff	SM			No asbestos, odour, staining
		0.8							
		1					S093-0.9-1		
		1.2							
		1.4							
		1.6							
		1.8							
		2					S093-1.9-2		
		2.2			Termination Depth at: 2.00 m.				
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S094

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 26-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		CH	Saturated sandy CLAY, brown	W	S094-0-0.1		No asbestos, odour, staining
		0.4			Termination Depth at: 0.20 m.				
		0.6							
		0.8							
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S095

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 28-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY RL

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	(RN) Silty CLAY, brown, damp, low plasticity, firm	SM	S095-0-0.1		No asbestos, odour, staining
		0.4		CH	CLAY, reddish brown: damp, medium plasticity, stiff, gravel at depth, grading to grey to depth	SM	S095-0.3-0.4		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.70 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S096

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 28-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY RL

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	Silty CLAY, brown, heterogeneous, damp, low plasticity, firm: inclusion of rootlets	SM	S096-0-0.1		No asbestos, odour, staining
		0.4					S096-0.3-0.4		
		0.6		CL	CLAY, red mottled grey, homogenous, damp, medium plasticity	SM			No asbestos, odour, staining
		0.8							
		1			Termination Depth at: 0.90 m.				
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S097

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 28-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY RL

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	Silty CLAY, brown, heterogeneous, damp, low plasticity, firm: inclusion of rootlets	SM	S097-0-0.1		No asbestos, odour, staining
		0.4		CL	CLAY, red mottled grey, homogenous, damp, medium plasticity	SM	S097-0.3-0.4		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.80 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S098

PROJECT NUMBER 60330.	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME Mamre Road DSI	**DRILLING DATE** 28-May-21	**NORTHING** N/A
CLIENT Altis Property Group	**DRILL RIG** Backhoe	**COORD SYS** N/A
ADDRESS 884 Mamre Road, Kemps Creek	**DRILLING METHOD** Bucket Excavation	**COORD SOURCE**
	DIMENSIONS x m	**LOGGED BY** RL

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	Silty CLAY, brown, heterogeneous, damp, low plasticity, firm: inclusion of rootlets	SM	S098-0-0.1		No asbestos, odour, staining
		0.4		CL	CLAY, red mottled grey, homogenous, damp, medium plasticity, grading to weathered shale at 0.9m	SM	S098-0.3-0.4		No asbestos, odour, staining
		0.6							
		0.8							
		1			Termination Depth at: 1.00 m.				
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S099

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 28-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	(RN) Silty CLAY, brown, heterogeneous, damp, medium plasticity, soft-firm, inclusion of root	SM	S099-0-0.1		No asbestos, odour, staining
		0.4		CL	CLAY, grey/orange mottlted: homogenous, damp, stiff, inclusion of rock	SM	S099-0.3-0.4		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.80 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S100

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 28-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY RL

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	Silty CLAY, brown, heterogeneous, damp, low plasticity, firm: inclusion of rootlets	SM	S100-0-0.1		No asbestos, odour, staining
		0.4		CL	CLAY, red mottled grey, homogenous, damp, medium plasticity	SM	S100-0.3-0.4		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.80 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S101

PROJECT NUMBER 60330.	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME Mamre Road DSI	**DRILLING DATE** 28-May-21	**NORTHING** N/A
CLIENT Altis Property Group	**DRILL RIG** Backhoe	**COORD SYS** N/A
ADDRESS 884 Mamre Road, Kemps Creek	**DRILLING METHOD** Bucket Excavation	**COORD SOURCE**
	DIMENSIONS x m	**LOGGED BY** RL

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	Silty CLAY, brown, heterogeneous, damp, low plasticity, firm: inclusion of rootlets	SM	S101-0-0.1		No asbestos, odour, staining
		0.4		CL	CLAY, red mottled grey, homogenous, damp, medium plasticity, inclusion of gravels (claystone)	SM	S101-0.4-0.5		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.80 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S102

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 28-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY RL

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	Silty CLAY, brown, heterogeneous, damp, low plasticity, firm: inclusion of rootlets	SM	S102-0-0.1		No asbestos, odour, staining
		0.4		CL	CLAY, red mottled grey, homogenous, damp, medium plasticity	SM	S102-0.3-0.4		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.80 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S103

PROJECT NUMBER 60330.	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME Mamre Road DSI	**DRILLING DATE** 26-May-21	**NORTHING** N/A
CLIENT Altis Property Group	**DRILL RIG** Backhoe	**COORD SYS** N/A
ADDRESS 884 Mamre Road, Kemps Creek	**DRILLING METHOD** Bucket Excavation	**COORD SOURCE**
	DIMENSIONS x m	**LOGGED BY** ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	(RN) Silty CLAY, brown, heterogeneous, damp, medium plasticity, soft, inclusion of root	SM	S103-0-0.1		No asbestos, odour, staining
		0.4		Fill	(RN) CLAY, red/ grey/ brown mottled, homogenous, damp, medium to high plasticity, firm	SM	S103-0.4-0.5		No asbestos, odour, staining
		0.6							
		0.8							
		1					S103-0.9-1		
		1.2							
		1.4							
		1.6							
		1.8							
		2					S103-1.9-2		
		2.2			Termination Depth at: 2.00 m.				
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S104

PROJECT NUMBER 60330.	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME Mamre Road DSI	**DRILLING DATE** 26-May-21	**NORTHING** N/A
CLIENT Altis Property Group	**DRILL RIG** Backhoe	**COORD SYS** N/A
ADDRESS 884 Mamre Road, Kemps Creek	**DRILLING METHOD** Bucket Excavation	**COORD SOURCE**
	DIMENSIONS x m	**LOGGED BY** ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	(RN) Silty CLAY, brown, heterogeneous, damp, medium plasticity, inclusion of trace root	SM	S104-0-0.1		No asbestos, odour, staining
		0.4		CH	CLAY, orange, homogenous, damp, high plasticity, stiff	SM	S104-0.3-0.4		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.80 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S105

PROJECT NUMBER 60330.	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME Mamre Road DSI	**DRILLING DATE** 26-May-21	**NORTHING** N/A
CLIENT Altis Property Group	**DRILL RIG** Backhoe	**COORD SYS** N/A
ADDRESS 884 Mamre Road, Kemps Creek	**DRILLING METHOD** Bucket Excavation	**COORD SOURCE**
	DIMENSIONS x m	**LOGGED BY** ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	(RN) Silty CLAY, brown, heterogeneous, damp, medium plasticity, inclusion of trace root	SM	S105-0-0.1		No asbestos, odour, staining
		0.4		CH	CLAY, mottled light brown/ yellow, homogenous, damp, high plasticity, stiff	SM	S105-0.3-0.4		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.80 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S106

PROJECT NUMBER 60330.	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME Mamre Road DSI	**DRILLING DATE** 26-May-21	**NORTHING** N/A
CLIENT Altis Property Group	**DRILL RIG** Backhoe	**COORD SYS** N/A
ADDRESS 884 Mamre Road, Kemps Creek	**DRILLING METHOD** Bucket Excavation	**COORD SOURCE**
	DIMENSIONS x m	**LOGGED BY** ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	(RN) Silty CLAY, brown, heterogeneous, damp, medium plasticity, inclusion of trace root	SM	S106-0-0.1		No asbestos, odour, staining
		0.4		CH	CLAY, mottled orange/ grey/ brown, homogenous, damp, high plasticity, firm to stiff, inclusion of trace gravels	SM	S106-0.3-0.4		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.80 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S107

PROJECT NUMBER 60330.	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME Mamre Road DSI	**DRILLING DATE** 26-May-21	**NORTHING** N/A
CLIENT Altis Property Group	**DRILL RIG** Backhoe	**COORD SYS** N/A
ADDRESS 884 Mamre Road, Kemps Creek	**DRILLING METHOD** Bucket Excavation	**COORD SOURCE**
	DIMENSIONS x m	**LOGGED BY** ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	(RN) Silty CLAY, brown, heterogeneous, damp, medium plasticity, inclusion of trace root	SM	S107-0-0.1		No asbestos, odour, staining
		0.4		CH	CLAY, orange, homogenous, damp, high plasticity, stiff	SM	S107-0.3-0.4		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.80 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S108

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 26-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	(RN) Silty CLAY, brown, heterogeneous, damp, medium plasticity, soft, inclusion of rock	SM	S108-0-0.1		No asbestos, odour, staining
		0.4		Fill	(RN) CLAY, grey/ brown/ orange mottled, homogenous, damp, high plasticity, stiff, inclusion of rock	SM	S108-0.4-0.5		No asbestos, odour, staining
		0.6							
		0.8							
		1					S108-0.9-1		
		1.2							
		1.4							
		1.6							
		1.8							
		2					S108-1.9-2		
		2.2			Termination Depth at: 2.00 m.				
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S109

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 26-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE				CH	Saturated sandy CLAY, brown	W	S109-0-0.1		No asbestos, odour, staining
		0.2			Termination Depth at: 0.10 m.				
		0.4							
		0.6							
		0.8							
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S110

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 28-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2 0.4 0.6		Fill	Silty CLAY, brown, heterogeneous, damp, medium plasticity, firm: inclusion of rock, rootlets	SM	S110-0-0.1 S110-0.3-0.4		No asbestos, odour, staining
		0.8 1 1.2		CH	CLAY, orange/ brown, homogenous, damp, high plasticity, firm	SM	S110-0.9-1		No asbestos, odour, staining
		1.4 1.6 1.8 2 2.2 2.4 2.6 2.8 3 3.2 3.4 3.6 3.8			Termination Depth at: 1.30 m.				

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TEST PIT S111

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 26-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	(RN) Silty CLAY, brown, heterogeneous, damp, medium plasticity, soft, inclusion of root	SM	S111-0-0.1		No asbestos, odour, staining
		0.4		Fill	(RN) CLAY, orange/ brown/ grey mottled, homogenous, damp, medium plasticity	SM	S111-0.4-0.5		No asbestos, odour, staining
		0.6							
		0.8							
		1					S111-0.9-1		
		1.2							
		1.4							
		1.6							
		1.8							
		2					S111-1.9-2		
		2.2			Termination Depth at: 2.00 m.				
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S112

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 26-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	(RN) Silty CLAY, brown, heterogeneous, damp, medium plasticity, inclusion of trace root	SM	S112-0-0.1		No asbestos, odour, staining
		0.4		CH	CLAY, mottled light brown/ yellow, homogenous, damp, high plasticity, stiff	SM	S112-0.3-0.4		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.80 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S113

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 26-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	(RN) Silty CLAY, brown, heterogeneous, damp, medium plasticity, inclusion of trace root	SM	S113-0-0.1		No asbestos, odour, staining
		0.4		CH	CLAY, mottled light brown/ orange, homogenous, damp, high plasticity, stiff	SM	S113-0.3-0.4		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.80 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S114

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 26-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	(RN) Silty CLAY, brown, heterogeneous, damp, medium plasticity, inclusion of trace root	SM	S114-0-0.1		No asbestos, odour, staining. QAQC01 taken at 0.0-0.1
		0.4		CH	CLAY, brown/ yellow, homogenous, damp, high plasticity, inclusion of trace root	SM	S114-0.3-0.4		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.80 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S115

PROJECT NUMBER 60330.	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME Mamre Road DSI	**DRILLING DATE** 26-May-21	**NORTHING** N/A
CLIENT Altis Property Group	**DRILL RIG** Backhoe	**COORD SYS** N/A
ADDRESS 884 Mamre Road, Kemps Creek	**DRILLING METHOD** Bucket Excavation	**COORD SOURCE**
	DIMENSIONS x m	**LOGGED BY** ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	(RN) Silty CLAY, brown, heterogeneous, damp, medium plasticity, inclusion of trace root and tile	SM	S115-0-0.1		No asbestos, odour, staining
		0.4					S115-0.3-0.4		
		0.6		CH	CLAY, mottled light brown/ grey, homogenous, damp, high plasticity, stiff	SM			No asbestos, odour, staining
		0.8							
		1			Termination Depth at: 0.90 m.				
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S116

PROJECT NUMBER 60330.	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME Mamre Road DSI	**DRILLING DATE** 26-May-21	**NORTHING** N/A
CLIENT Altis Property Group	**DRILL RIG** Backhoe	**COORD SYS** N/A
ADDRESS 884 Mamre Road, Kemps Creek	**DRILLING METHOD** Bucket Excavation	**COORD SOURCE**
	DIMENSIONS x m	**LOGGED BY** ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2 0.4 0.6 0.8 1 1.2 1.4 1.6 1.8 2		Fill	(RN) Silty CLAY, brown/ orange/ grey mottled, homogenous, medium plasticity, firm		S116-0-0.1 S116-0.4-0.5 S116-0.9-1 S116-1.9-2		No asbestos, odour, staining
		2.2 2.4 2.6 2.8 3 3.2 3.4 3.6 3.8			Termination Depth at: 2.00 m.				

TEST PIT S117

PROJECT NUMBER 60330.	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME Mamre Road DSI	**DRILLING DATE** 26-May-21	**NORTHING** N/A
CLIENT Altis Property Group	**DRILL RIG** Backhoe	**COORD SYS** N/A
ADDRESS 884 Mamre Road, Kemps Creek	**DRILLING METHOD** Bucket Excavation	**COORD SOURCE**
	DIMENSIONS x m	**LOGGED BY** ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	(RN) Silty CLAY, brown, heterogeneous, damp, medium plasticity, soft, inclusion of root	SM	S117-0-0.1		No asbestos, odour, staining
		0.4		Fill	(RN) CLAY, grey/ brown/ orange mottled, homogenous, damp, high plasticity, stiff	SM	S117-0.4-0.5		No asbestos, odour, staining
		0.6							
		0.8							
		1					S117-0.9-1		
		1.2							
		1.4							
		1.6							
		1.8							
		2					S117-1.9-2		
		2.2			Termination Depth at: 2.00 m.				
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S118

PROJECT NUMBER 60330.	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME Mamre Road DSI	**DRILLING DATE** 26-May-21	**NORTHING** N/A
CLIENT Altis Property Group	**DRILL RIG** Backhoe	**COORD SYS** N/A
ADDRESS 884 Mamre Road, Kemps Creek	**DRILLING METHOD** Bucket Excavation	**COORD SOURCE**
	DIMENSIONS x m	**LOGGED BY** ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	(RN) Silty CLAY, brown, heterogeneous, damp, medium plasticity, soft, inclusion of root	SM	S118-0-0.1		No asbestos, odour, staining
		0.4		Fill	(RN) CLAY, grey/ brown/ orange mottled, homogenous, damp, high plasticity, stiff	SM	S118-0.4-0.5		No asbestos, odour, staining
		0.6							
		0.8							
		1					S118-0.9-1		
		1.2							
		1.4							
		1.6							
		1.8							
		2					S118-1.9-2		
		2.2							
		2.4							
		2.6							
		2.8							
		3			Termination Depth at: 3.00 m.				
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S119

PROJECT NUMBER 60330.	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME Mamre Road DSI	**DRILLING DATE** 28-May-21	**NORTHING** N/A
CLIENT Altis Property Group	**DRILL RIG** Backhoe	**COORD SYS** N/A
ADDRESS 884 Mamre Road, Kemps Creek	**DRILLING METHOD** Bucket Excavation	**COORD SOURCE**
	DIMENSIONS x m	**LOGGED BY** ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	Silty CLAY, brown, heterogeneous, damp, medium plasticity, soft: inclusion of root	SM	S119-0-0.1		No asbestos, odour, staining
		0.4		Fill	CLAY, orange/ grey/ brown mottled: damp, high plasticity, firm, inclusion of gravels	SM	S119-0.3-0.4		No asbestos, odour, staining
		0.6							
		0.8							
		1					S119-0.9-1		
		1.2							
		1.4							
		1.6							
		1.8		Fill	CLAY, grey/ white, heterogeneous, damp, very stiff	SM			No asbestos, odour, staining
		2					S119-1.9-2		
		2.2							
		2.4							
		2.6							
		2.8							
		3			Termination Depth at: 3.00 m.				
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S120

PROJECT NUMBER 60330.	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME Mamre Road DSI	**DRILLING DATE** 28-May-21	**NORTHING** N/A
CLIENT Altis Property Group	**DRILL RIG** Backhoe	**COORD SYS** N/A
ADDRESS 884 Mamre Road, Kemps Creek	**DRILLING METHOD** Bucket Excavation	**COORD SOURCE**
	DIMENSIONS x m	**LOGGED BY** ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	Silty CLAY, brown, heterogeneous, damp, medium plasticity, soft: inclusion of root	SM	S120-0-0.1		No asbestos, odour, staining
		0.4		Fill	CLAY, orange/ grey/ brown mottled: damp, high plasticity, firm, inclusion of gravels	SM	S120-0.3-0.4		No asbestos, odour, staining
		0.6							
		0.8							
		1					S120-0.9-1		
		1.2							
		1.4							
		1.6							
		1.8							
		2					S120-1.9-2		
		2.2							
		2.4							
		2.6							
		2.8							
		3					S120-2.9-3		
		3.2			Termination Depth at: 3.00 m.				
		3.4							
		3.6							
		3.8							

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TEST PIT S119

PROJECT NUMBER 60330.	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME Mamre Road DSI	**DRILLING DATE** 28-May-21	**NORTHING** N/A
CLIENT Altis Property Group	**DRILL RIG** Backhoe	**COORD SYS** N/A
ADDRESS 884 Mamre Road, Kemps Creek	**DRILLING METHOD** Bucket Excavation	**COORD SOURCE**
	DIMENSIONS x m	**LOGGED BY** ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	Silty CLAY, brown, heterogeneous, damp, medium plasticity, soft: inclusion of root	SM	S119-0-0.1		No asbestos, odour, staining
		0.4		Fill	CLAY, orange/ grey/ brown mottled: damp, high plasticity, firm, inclusion of gravels	SM	S119-0.3-0.4		No asbestos, odour, staining
		0.6							
		0.8							
		1					S119-0.9-1		
		1.2							
		1.4							
		1.6							
		1.8		Fill	CLAY, grey/ white, heterogeneous, damp, very stiff	SM			No asbestos, odour, staining
		2					S119-1.9-2		
		2.2							
		2.4							
		2.6							
		2.8							
		3			Termination Depth at: 3.00 m.				
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S122

PROJECT NUMBER 60330.	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME Mamre Road DSI	**DRILLING DATE** 28-May-21	**NORTHING** N/A
CLIENT Altis Property Group	**DRILL RIG** Backhoe	**COORD SYS** N/A
ADDRESS 884 Mamre Road, Kemps Creek	**DRILLING METHOD** Bucket Excavation	**COORD SOURCE**
	DIMENSIONS x m	**LOGGED BY** ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	Silty CLAY, brown, heterogeneous, dry, medium plasticity, soft-firm, inclusion of rootlets	D	S122-0-0.1		No asbestos, odour, staining
		0.4		CH	CLAY, orange/brown/grey mottled, damp, high plasticity, firm	SM	S122-0.3-0.4		No asbestos, odour, staining
		0.6							
		0.8							
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2			Termination Depth at: 2.00 m.				
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S123

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 28-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	Silty CLAY, brown, heterogeneous, dry, medium plasticity, soft-firm, inclusion of rootlets	D	S123-0-0.1		No asbestos, odour, staining
		0.4		CH	CLAY, orange/brown/grey mottled, damp, high plasticity, firm, inclusion of rock	SM	S123-0.3-0.4		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.80 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S124

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 28-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	Silty CLAY, brown, heterogeneous, dry, medium plasticity, soft-firm, inclusion of rootlets	D	S124-0-0.1		No asbestos, odour, staining
		0.4		CH	CLAY, orange/brown/grey mottled, damp, high plasticity, firm	SM	S124-0.3-0.4		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.80 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S125

PROJECT NUMBER 60330.	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME Mamre Road DSI	**DRILLING DATE** 28-May-21	**NORTHING** N/A
CLIENT Altis Property Group	**DRILL RIG** Backhoe	**COORD SYS** N/A
ADDRESS 884 Mamre Road, Kemps Creek	**DRILLING METHOD** Bucket Excavation	**COORD SOURCE**
	DIMENSIONS x m	**LOGGED BY** ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	Silty CLAY, brown, heterogeneous, damp, medium plasticity, soft-firm, inclusion of rootlets	SM	S125-0-0.1		No asbestos, odour, staining
		0.4		CH	CLAY, orange/brown/grey mottled, damp, high plasticity, firm	SM	S125-0.3-0.4		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.80 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S126

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 28-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	Silty CLAY, brown, heterogeneous, dry, medium plasticity, soft-firm, inclusion of rootlets	D	S126-0-0.1		No asbestos, odour, staining
		0.4		CH	CLAY, orange/brown/grey mottled, damp, high plasticity, firm	SM	S126-0.3-0.4		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.80 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S127

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 27-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		ML	SILT, brown, heterogeneous, damp, non-plastic, soft, inclusion of rootlets	SM	S127-0-0.1		No asbestos, odour, staining
		0.4		CL	CLAY, red, homogenous, wet, medium plasticity, stiff	W	S127-0.3-0.4		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.70 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S128

PROJECT NUMBER 60330.	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME Mamre Road DSI	**DRILLING DATE** 27-May-21	**NORTHING** N/A
CLIENT Altis Property Group	**DRILL RIG** Backhoe	**COORD SYS** N/A
ADDRESS 884 Mamre Road, Kemps Creek	**DRILLING METHOD** Bucket Excavation	**COORD SOURCE**
	DIMENSIONS x m	**LOGGED BY** ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		ML	SILT, brown, heterogeneous, damp, non-plastic, soft, inclusion of rootlets	SM	S128-0-0.1		No asbestos, odour, staining
		0.4		CL	CLAY, red mottled brown, damp, medium plasticity, stiff	SM	S128-0.3-0.4		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.80 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S129

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 27-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		ML	SILT, brown, heterogeneous, damp, non-plastic, soft, inclusion of rootlets	SM	S129-0-0.1		No asbestos, odour, staining
		0.4		CL	Sandy CLAY, red, moist, medium plasticity, firm to stiff	M	S129-0.3-0.4		No asbestos, odour, staining
		0.6			Termination Depth at: 0.60 m.				
		0.8							
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S130

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 27-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	SILT, brown, heterogeneous, moist, low plasticity, soft	M	S130-0-0.1		No asbestos, odour, staining
		0.4		CL	Sandy CLAY, red, moist, medium plasticity, firm to stiff	M	S130-0.4-0.5		No asbestos, odour, staining
		0.6							
		0.8							
		1			Termination Depth at: 0.90 m.				
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S131

PROJECT NUMBER 60330.	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME Mamre Road DSI	**DRILLING DATE** 28-May-21	**NORTHING** N/A
CLIENT Altis Property Group	**DRILL RIG** Backhoe	**COORD SYS** N/A
ADDRESS 884 Mamre Road, Kemps Creek	**DRILLING METHOD** Bucket Excavation	**COORD SOURCE**
	DIMENSIONS x m	**LOGGED BY** RL

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	Silty GRAVEL, grey, heterogeneous, dry, fine-medium gravels, loose, angular	D	S131-0-0.1		No asbestos, odour, staining
		0.4		Fill	(RN) Silty CLAY, brown, heterogeneous, dry, low plasticity, firm	D	S131-0.2-0.3		No asbestos, odour, staining
		0.6		CL	CLAY, reddish brown: homogenous, damp, medium plasticity, sitff	SM	S131-0.5-0.6		No asbestos, odour, staining
		0.8							
		1			Termination Depth at: 0.90 m.				
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S132

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 28-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY RL

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2 0.4 0.6 0.8		Fill	Gravelly silty CLAY, brown, heterogeneous, damp, low plasticity, firm, angular gravels, inclusion of concrete, brick	SM	S132-0-0.1 S132-0.4-0.5 S132-0.7-0.8		No asbestos, odour, staining
		1 1.2		CL	CLAY, reddish brown: heterogeneous, damp, medium plasticity, stiff	SM	S132-1-1.1		No asbestos, odour, staining
		1.4 1.6 1.8 2 2.2 2.4 2.6 2.8 3 3.2 3.4 3.6 3.8			Termination Depth at: 1.30 m.				

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TEST PIT S133

PROJECT NUMBER 60330.	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME Mamre Road DSI	**DRILLING DATE** 28-May-21	**NORTHING** N/A
CLIENT Altis Property Group	**DRILL RIG** Backhoe	**COORD SYS** N/A
ADDRESS 884 Mamre Road, Kemps Creek	**DRILLING METHOD** Bucket Excavation	**COORD SOURCE**
	DIMENSIONS x m	**LOGGED BY** ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	Silty CLAY, brown, heterogeneous, dry, medium plasticity, soft-firm, inclusion of rootlets		S133-0-0.1		No asbestos, odour, staining
		0.4		CH	CLAY, orange/brown/grey mottled, damp, high plasticity, firm		S133-0.3-0.4		No asbestos, odour, staining
		0.6							
		0.8			Termination Depth at: 0.80 m.				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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TEST PIT S134

PROJECT NUMBER 60330.	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME Mamre Road DSI	**DRILLING DATE** 28-May-21	**NORTHING** N/A
CLIENT Altis Property Group	**DRILL RIG** Backhoe	**COORD SYS** N/A
ADDRESS 884 Mamre Road, Kemps Creek	**DRILLING METHOD** Bucket Excavation	**COORD SOURCE**
	DIMENSIONS x m	**LOGGED BY** RL

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2 0.4 0.6 0.8 1 1.2		Fill	Gravelly SILT, brown, heterogeneous, damp, non-plastic, stiff, inclusion of trace concrete cobbles	SM	S134-0-0.1 S134-0.4-0.5 S134-0.9-1 S134-1.3-1.4		No asbestos, odour, staining
		1.4 1.6 1.8 2		CL	CLAY, red, homogenous, damp, medium plasticity	SM	S134-1.6-1.7		No asbestos, odour, staining
		2.2 2.4 2.6 2.8 3 3.2 3.4 3.6 3.8			Termination Depth at: 2.00 m.				

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TEST PIT S135

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 27-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY RL

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	Silty ASH, heterogeneous, dry, inclusion of small piece of wood	D	S135-0-0.05		No asbestos, odour, staining
				CL	(RN) Silty CLAY, brown, dry, low plasticity, firm	D	S135-0.1-0.2		No asbestos, odour, staining
					Termination Depth at: 0.20 m.				

0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
2.2
2.4
2.6
2.8
3
3.2
3.4
3.6
3.8

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TEST PIT S136

PROJECT NUMBER 60330.
PROJECT NAME Mamre Road DSI
CLIENT Altis Property Group
ADDRESS 884 Mamre Road, Kemps Creek

DRILLING COMPANY
DRILLING DATE 28-May-21
DRILL RIG Backhoe
DRILLING METHOD Bucket Excavation
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS N/A
COORD SOURCE
LOGGED BY RL

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.2		Fill	Silty ASH, heterogeneous, dry, inclusion of small piece of wood	D	S136-0-0.05		No asbestos, odour, staining
		0.4		CL	(RN) Silty CLAY, reddish brown: damp, medium plasticity	SM	S136-0.3-0.4		No asbestos, odour, staining
		0.6			Termination Depth at: 0.50 m.				
		0.8							
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

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Appendix N Field Data Sheets

Field Equipment Calibration and Decontamination

JBS&G

PROJECT NAME:	Kemps Creek, Mamre Road	**PROJECT NO:**	60330
FIELD DATES:	26/27/28-5-21	**FIELD STAFF:**	RL + MC

CALIBRATION SUMMARY	
EQUIPMENT:	PID
CALIBRATION STANDARD:	100ppm isobut.

DATE	TIME	READING (ppm$_v$)	COMMENTS
26/5/21	0703	0	Ambient
↓	0705	100.0	150
↓	0706	100.4	Bump
27/5/21	0714	0	Ambient
↓	0716	100.0	150
↓	0720	102	Bump
28/5/21	0731	0	Ambient
↓	0734	100.0	150
↓	0735	101.3	Bump

DECONTAMINATION SUMMARY

EQUIPMENT: shovel

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 Y	N N	(NA)
4. Was phosphate-free detergent used to wash the equipment?	(Y)	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.

Fresh nitrile free gloves at each sample, sample from middle of excavator bucket when appropriate.

Appendix O Laboratory Analytical Reports

CHAIN OF CUSTODY RECORD

Sydney Laboratory | Perth Laboratory

Company	JBS & G Australia (NSW) P/L	Project No	60330
Address	Level 1, 59 Margaret Street Sydney NSW 2000	Project Name	Kemps Creek
Contact Name	Rohan Hammond	Sampler	Rohan Hammond
Phone No	02 8245 0300	Facility Code	
Special Directions		Completed	Ryan Lill / Max Cutrone
Purchase Order		Received by	Ryan Lill / Max Cutrone
Quote ID No		Email for Invoice	adminNSW@jbsg.com.au
		Email for Results	rhammond@jbsg.com.au

Containers (Please type & select)

Required Turnaround Time (RTT) (Default will be 5 days if not booked)

- Surcharge will apply (Overnight requires by 9am)
- Same day
- 1 day
- 2 days
- 3 days
- 5 days (Standard)
- Other

No	Client Sample ID	Sampled Date/Time (DD/MM/YY HH:MM)	Matrix Soil (S) Water (W)	ASZA	JB2	B7	8 heavy metals (as, cd, cr, ng, ni, pb, zn)	TRHs/BTEXN	PAHs	VOCs	OCPs	Herbicides	PCBs	TCLP heavy metals	TCLP PAHs	Asbestos 500 mL	CEC	Clay %	PAHs (low levels)	Ammonia	Nitrite	Nitrate	pH	TSS	Asbestos	Hold	500mL Plastic	250mL Plastic	125mL Plastic	200mL Amber Glass	40mL VOA Vial	500mL PFAS Bottle	Jar (Glass or HDPE)	Other (Asbestos AS4964, WA Guidelines)	Sample Comments / Dangerous Goods Hazard Warning
1	S031 0-0.1	26/05/21	Soil			X					X	X																				1	1	
2	QC02	26/05/21	Soil			X					X	X																				1	1	
3	S031 0.4-0.5	26/05/21	Soil																						X							1		
4	S044 0-0.1	26/05/21	Soil			X					X	X																				1		
5	S045 0-0.1	26/05/21	Soil																						X							1	1	
6	S045 0.3-0.4	26/05/21	Soil																						X							1		
7	S046 0-0.1	26/05/21	Soil																						X							1	1	
8	S046 0.3-0.4	26/05/21	Soil																						X							1		
9	S047 0.0-0.1	26/05/21	Soil																						X							1	1	
10	S047 0.3-0.4	26/05/21	Soil			X					X	X																				1		
11	S048 0-0.1	26/05/21	Soil																						X							1	1	
12	S048 0.3-0.4	26/05/21	Soil																						X							1		
13	S055 0-0.1	26/05/21	Soil			X																										1	1	
14	QC03	26/05/21	Soil			X																										1	1	
15	S055 0.4-0.5	26/05/21	Soil																						X							1		
16	S068 0-0.1	26/05/21	Soil			X					X	X																				1	1	
17	S068 0.3-0.4	26/05/21	Soil																						X							1		
18	S068 0-0.1	26/05/21	Soil																						X							1	1	
19	S068 0.3-0.4	26/05/21	Soil																						X							1		
20	S069 0-0.1	26/05/21	Soil				X																									1	1	
21	S069 0.4-0.5	26/05/21	Soil																						X							1		
22	S078 0-0.1	26/05/21	Soil																						X							1	1	
23	S078 0.3-0.4	26/05/21	Soil																						X							1		
24	S079 0-0.1	26/05/21	Soil			X					X	X																				1		
25	S090 0-0.1	26/05/21	Soil								X	X																				1	1	
26	S090 0.3-0.4	26/05/21	Soil																						X							1		
27	S091 0-0.1	26/05/21	Soil				X				X	X																				1	1	
28	S091 0.3-0.4	26/05/21	Soil																						X							1		
29	S092 0-0.1	26/05/21	Soil								X	X																				1	1	
30	S092 0.3-0.4	26/05/21	Soil														X	X					X									1		
31	S093 0-0.1	26/05/21	Soil				X				X	X												X								1	1	
32	S093 0.4-0.5	26/05/21	Soil																						X							1	1	
33	S093 0.9-1.0	26/05/21	Soil																						X							1	1	
34	S093 1.9-2.0	26/05/21	Soil																						X							1	1	
35	S094 0-0.1	26/05/21	Soil				X				X	X																				1		
36	S103 0-0.1	26/05/21	Soil																						X							1	1	
37	S103 0.4-0.5	26/05/21	Soil																						X							1	1	
38	S103 0.9-1.0	26/05/21	Soil																						X							1	1	
39	S103 1.9-2.0	26/05/21	Soil																						X							1	1	
40	S104 0-0.1	26/05/21	Soil				X				X	X																				1	1	
41	S104 0.3-0.4	26/05/21	Soil																						X							1		
42	S105 0-0.1	26/05/21	Soil								X	X																				1	1	
43	S105 0.3-0.4	26/05/21	Soil																						X							1		
44	S106 0-0.1	26/05/21	Soil								X	X																				1	1	
45	S106 0.3-0.4	26/05/21	Soil																						X							1		
46	S107 0-0.1	26/05/21	Soil								X	X																				1	1	
47	S107 0.3-0.4	26/05/21	Soil																						X							1		
48	S108 0-0.1	26/05/21	Soil				X				X	X													X							1	1	
49	S108 0.4-0.5	26/05/21	Soil																						X							1	1	
50	S108 0.9-1.0	26/05/21	Soil				X				X	X																				1	1	
51	S108 1.9-2.0	26/05/21	Soil																						X							1	1	
52	S109 0-0.1	26/05/21	Soil				X				X	X													X							1		
53	S111 0-0.1	26/05/21	Soil																						X							1	1	
54	S111 0.4-0.5	26/05/21	Soil				X				X	X													X							1	1	
55	S111 0.9-1.0	26/05/21	Soil																						X							1	1	
56	S111 1.9-2.0	26/05/21	Soil																						X							1	1	
57	S112 0-0.1	26/05/21	Soil								X	X																				1	1	
58	S112 0.3-0.4	26/05/21	Soil																						X							1		
59	S113 0-0.1	26/05/21	Soil								X	X																				1	1	
60	S113 0.3-0.4	26/05/21	Soil																						X							1		
61	S134 0-0.1	26/05/21	Soil	X					X																							1	1	

Received by: Eurofins 27-05-21 11:45 AM 3.4°C

798505

| | | |

eurofins | Environment Testing

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43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Rohan Hammond
Project name:	Kemps Creek
Project ID:	60330
Turnaround time:	5 Day
Date/Time received	May 27, 2021 11:45 AM
Eurofins reference	798505

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 : 3.5 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.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
X	Split sample sent to requested external lab.
X	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Samples not received: Rinsate, Trip Spike, Trip Blank, analysis cancelled. Did not receive Jars for samples S066 0-0.1, S066 0.3-0.4, S069 0-0.1, S069 0.4-0.5, S078 0-0.1, S078 0.3-0.4, S093 0.4-0.5, chemical analysis cancelled. Did not receive bags for S078 0-0.1, S093 0.9-1.0, S093 1.9-2.0, S109 0-0.1, asbestos analysis cancelled. Received S020 0-0.1, S020 0.3-0.4, S030 0-0.1, S030 0.4-0.5, S056 0-0.1, S056 0.3-0.4 and 2 blank jars and bags, all logged on hold.

Contact

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

Ursula Long on phone : or by email: UrsulaLong@eurofins.com

Results will be delivered electronically via email to Rohan Hammond - rhammond@jbsg.com.au.

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Project Name: Kemps Creek
Project ID: 60330

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Phone: 02 8245 0300
Fax:

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Contact Name: Rohan Hammond

Eurofins Analytical Services Manager : Ursula Long

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Melbourne Laboratory - NATA Site # 1254 & 14271												X			X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X												
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory - NATA Site # 25079																		
External Laboratory																		
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**													
1	S031 0-0.1	May 26, 2021		Soil	S21-My54127						X	X			X		X	
2	QC02	May 26, 2021		Soil	S21-My54128						X	X			X		X	
3	S044 0-0.1	May 26, 2021		Soil	S21-My54129						X	X			X		X	
4	S047 0.3-0.4	May 26, 2021		Soil	S21-My54130						X	X			X		X	
5	S055 0-0.1	May 26, 2021		Soil	S21-My54131										X		X	
6	QC03	May 26, 2021		Soil	S21-My54132										X		X	
7	S066 0-0.1	May 26, 2021		Soil	S21-My54133				X									
8	S069 0-0.1	May 26, 2021		Soil	S21-My54134				X									
9	S079 0-0.1	May 26, 2021		Soil	S21-My54135						X	X			X		X	

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Melbourne Laboratory - NATA Site # 1254 & 14271												X			X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X												
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory - NATA Site # 25079																		
External Laboratory																		
10	S090 0-0.1	May 26, 2021		Soil	S21-My54136						X	X			X			
11	S091 0-0.1	May 26, 2021		Soil	S21-My54137						X	X	X		X			
12	S092 0-0.1	May 26, 2021		Soil	S21-My54138						X	X			X			
13	S092 0.3-0.4	May 26, 2021		Soil	S21-My54139	X				X					X	X		
14	S093 0-0.1	May 26, 2021		Soil	S21-My54140		X				X	X	X		X			
15	S094 0-0.1	May 26, 2021		Soil	S21-My54141						X	X	X		X			
16	S104 0-0.1	May 26, 2021		Soil	S21-My54142						X	X	X		X			
17	S105 0-0.1	May 26, 2021		Soil	S21-My54143						X	X			X			
18	S106 0-0.1	May 26, 2021		Soil	S21-My54144						X	X			X			
19	S107 0-0.1	May 26, 2021		Soil	S21-My54145						X	X			X			
20	S108 0-0.1	May 26, 2021		Soil	S21-My54146		X				X	X	X		X			

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Melbourne Laboratory - NATA Site # 1254 & 14271												X			X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X												
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory - NATA Site # 25079																		
External Laboratory																		
21	S108 0.9-1.0	May 26, 2021		Soil	S21-My54147						X	X	X		X			
22	S109 0-0.1	May 26, 2021		Soil	S21-My54148						X	X	X		X			
23	S111 0.4-0.5	May 26, 2021		Soil	S21-My54149		X				X	X	X		X			
24	S112 0-0.1	May 26, 2021		Soil	S21-My54150						X	X			X			
25	S113 0-0.1	May 26, 2021		Soil	S21-My54151						X	X			X			
26	S114 0-0.1	May 26, 2021		Soil	S21-My54152		X							X	X			X
27	QC01	May 26, 2021		Soil	S21-My54153		X							X	X			X
28	S115 0-0.1	May 26, 2021		Soil	S21-My54154						X	X			X			
29	S116 1.9-2.0	May 26, 2021		Soil	S21-My54155						X	X			X		X	
30	S117 1.9-2.0	May 26, 2021		Soil	S21-My54156						X	X			X		X	
31	S118 0-0.1	May 26, 2021		Soil	S21-My54157						X	X			X		X	

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Melbourne Laboratory - NATA Site # 1254 & 14271												X			X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X												
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory - NATA Site # 25079																		
External Laboratory																		
32	Trip Spike / Trip Blank	May 26, 2021		Water	S21-My54158			X										
33	Rinsate	May 26, 2021		Water	S21-My54159			X										
34	S031 0.4-0.5	May 26, 2021		Soil	S21-My54160				X									
35	S045 0-0.1	May 26, 2021		Soil	S21-My54161				X									
36	S045 0.3-0.4	May 26, 2021		Soil	S21-My54162				X									
37	S046 0-0.1	May 26, 2021		Soil	S21-My54163				X									
38	S046 0.3-0.4	May 26, 2021		Soil	S21-My54164				X									
39	S047 0.0-0.1	May 26, 2021		Soil	S21-My54165				X									
40	S048 0-0.1	May 26, 2021		Soil	S21-My54166				X									
41	S048 0.3-0.4	May 26, 2021		Soil	S21-My54167				X									

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Melbourne Laboratory - NATA Site # 1254 & 14271												X			X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X												
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory - NATA Site # 25079																		
External Laboratory																		
42	S055 0.4-0.5	May 26, 2021		Soil	S21-My54168				X									
43	S066 0.3-0.4	May 26, 2021		Soil	S21-My54169				X									
44	S068 0-0.1	May 26, 2021		Soil	S21-My54170				X									
45	S068 0.3-0.4	May 26, 2021		Soil	S21-My54171				X									
46	S069 0.4-0.5	May 26, 2021		Soil	S21-My54172				X									
47	S078 0-0.1	May 26, 2021		Soil	S21-My54173				X									
48	S078 0.3-0.4	May 26, 2021		Soil	S21-My54174				X									
49	S090 0.3-0.4	May 26, 2021		Soil	S21-My54175				X									
50	S091 0.3-0.4	May 26, 2021		Soil	S21-My54176				X									
51	S093 0.4-0.5	May 26, 2021		Soil	S21-My54177				X									
52	S093 0.9-1.0	May 26, 2021		Soil	S21-My54178				X									

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Melbourne Laboratory - NATA Site # 1254 & 14271												X			X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X												
Perth Laboratory - NATA Site # 23736																		
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External Laboratory																		
53	S093 1.9-2.0	May 26, 2021		Soil	S21-My54179				X									
54	S103 0-0.1	May 26, 2021		Soil	S21-My54180				X									
55	S103 0.4-0.6	May 26, 2021		Soil	S21-My54181				X									
56	S103 0.9-1.0	May 26, 2021		Soil	S21-My54182				X									
57	S103 1.9-2.0	May 26, 2021		Soil	S21-My54183				X									
58	S104 0.3-0.4	May 26, 2021		Soil	S21-My54184				X									
59	S105 0.3-0.4	May 26, 2021		Soil	S21-My54185				X									
60	S106 0.3-0.4	May 26, 2021		Soil	S21-My54186				X									
61	S107 0.3-0.4	May 26, 2021		Soil	S21-My54187				X									
62	S108 0.4-0.5	May 26, 2021		Soil	S21-My54188				X									
63	S108 1.9-2.0	May 26, 2021		Soil	S21-My54189				X									

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Melbourne Laboratory - NATA Site # 1254 & 14271												X			X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X												
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory - NATA Site # 25079																		
External Laboratory																		
64	S111 0-0.1	May 26, 2021		Soil	S21-My54190				X									
65	S111 0.9-1.0	May 26, 2021		Soil	S21-My54191				X									
66	S111 1.9-2.0	May 26, 2021		Soil	S21-My54192				X									
67	S112 0.3-0.4	May 26, 2021		Soil	S21-My54193				X									
68	S113 0.3-0.4	May 26, 2021		Soil	S21-My54194				X									
69	S114 0.3-0.4	May 26, 2021		Soil	S21-My54195				X									
70	S115 0.4-0.5	May 26, 2021		Soil	S21-My54196				X									
71	S116 0-0.1	May 26, 2021		Soil	S21-My54197				X									
72	S116 0.4-0.5	May 26, 2021		Soil	S21-My54198				X									
73	S116 0.9-1.0	May 26, 2021		Soil	S21-My54199				X									
74	S117 0-0.1	May 26, 2021		Soil	S21-My54200				X									

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Company Name: JBS & G Australia (NSW) P/L
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Project Name: Kemps Creek
Project ID: 60330

Order No.:
Report #: 798505
Phone: 02 8245 0300
Fax:

Received: May 27, 2021 11:45 AM
Due: Jun 3, 2021
Priority: 5 Day
Contact Name: Rohan Hammond

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Organochlorine Pesticides	Acid Herbicides	Metals M8	Volatile Organics	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	JBS&G Suite 2
Melbourne Laboratory - NATA Site # 1254 & 14271												X			X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X												
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory - NATA Site # 25079																		
External Laboratory																		
75	S117 0.4-0.5	May 26, 2021		Soil	S21-My54201				X									
76	S117 0.9-1.0	May 26, 2021		Soil	S21-My54202				X									
77	S118 0.4-0.5	May 26, 2021		Soil	S21-My54203				X									
78	S118 0.9-1.0	May 26, 2021		Soil	S21-My54204				X									
79	S118 1.9-2.0	May 26, 2021		Soil	S21-My54205				X									
80	S020 0-0.1	May 26, 2021		Soil	S21-My56261				X									
81	S020 0.3-0.4	May 26, 2021		Soil	S21-My56262				X									
82	S030 0-0.1	May 26, 2021		Soil	S21-My56263				X									
83	S030 0.4-0.5	May 26, 2021		Soil	S21-My56264				X									
84	S056 0-0.1	May 26, 2021		Soil	S21-My56265				X									
85	S056 0.3-0.4	May 26, 2021		Soil	S21-My56266				X									

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Melbourne Laboratory - NATA Site # 1254 & 14271												X			X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X												
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory - NATA Site # 25079																		
External Laboratory																		
86	Blank Sample	May 26, 2021		Soil	S21-My56267				X									
Test Counts						1	5	2	55	1	24	24	8	2	29	1	10	2

Certificate of Analysis

NATA Accredited
Accreditation Number 1261
Site Number 18217

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

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

Attention:	Rohan Hammond
Report	798505-AID
Project Name	Kemps Creek
Project ID	60330
Received Date	May 27, 2021
Date Reported	Jun 08, 2021

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.*

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Project Name Kemps Creek
Project ID 60330
Date Sampled May 26, 2021
Report 798505-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
S093 0-0.1	21-My54140	May 26, 2021	Approximate Sample 534g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
S108 0-0.1	21-My54146	May 26, 2021	Approximate Sample 660g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
S111 0.4-0.5	21-My54149	May 26, 2021	Approximate Sample 646g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
S114 0-0.1	21-My54152	May 26, 2021	Approximate Sample 500g Sample consisted of: Brown fine-grained clayey soil, organic debris and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
QC01	21-My54153	May 26, 2021	Approximate Sample 507g Sample consisted of: Brown fine-grained clayey soil and rocks	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 is reported.

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

Description	Testing Site	Extracted	Holding Time
Asbestos - LTM-ASB-8020	Sydney	May 28, 2021	Indefinite

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Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Organochlorine Pesticides	Acid Herbicides	Metals M8	Volatile Organics	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	JBS&G Suite 2
Melbourne Laboratory - NATA Site # 1254 & 14271												X			X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X												
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory - NATA Site # 25079																		
External Laboratory																		
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**													
1	S031 0-0.1	May 26, 2021		Soil	S21-My54127						X	X			X		X	
2	QC02	May 26, 2021		Soil	S21-My54128						X	X			X		X	
3	S044 0-0.1	May 26, 2021		Soil	S21-My54129						X	X			X		X	
4	S047 0.3-0.4	May 26, 2021		Soil	S21-My54130						X	X			X		X	
5	S055 0-0.1	May 26, 2021		Soil	S21-My54131										X		X	
6	QC03	May 26, 2021		Soil	S21-My54132										X		X	
7	S066 0-0.1	May 26, 2021		Soil	S21-My54133				X									
8	S069 0-0.1	May 26, 2021		Soil	S21-My54134				X									
9	S079 0-0.1	May 26, 2021		Soil	S21-My54135						X	X			X		X	

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Melbourne Laboratory - NATA Site # 1254 & 14271												X			X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X												
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory - NATA Site # 25079																		
External Laboratory																		
10	S090 0-0.1	May 26, 2021		Soil	S21-My54136						X	X			X			
11	S091 0-0.1	May 26, 2021		Soil	S21-My54137						X	X	X		X			
12	S092 0-0.1	May 26, 2021		Soil	S21-My54138						X	X			X			
13	S092 0.3-0.4	May 26, 2021		Soil	S21-My54139	X				X					X	X		
14	S093 0-0.1	May 26, 2021		Soil	S21-My54140		X				X	X	X		X			
15	S094 0-0.1	May 26, 2021		Soil	S21-My54141						X	X	X		X			
16	S104 0-0.1	May 26, 2021		Soil	S21-My54142						X	X	X		X			
17	S105 0-0.1	May 26, 2021		Soil	S21-My54143						X	X			X			
18	S106 0-0.1	May 26, 2021		Soil	S21-My54144						X	X			X			
19	S107 0-0.1	May 26, 2021		Soil	S21-My54145						X	X			X			
20	S108 0-0.1	May 26, 2021		Soil	S21-My54146		X				X	X	X		X			

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Melbourne Laboratory - NATA Site # 1254 & 14271												X			X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X												
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory - NATA Site # 25079																		
External Laboratory																		
21	S108 0.9-1.0	May 26, 2021		Soil	S21-My54147						X	X	X		X			
22	S109 0-0.1	May 26, 2021		Soil	S21-My54148						X	X	X		X			
23	S111 0.4-0.5	May 26, 2021		Soil	S21-My54149		X				X	X	X		X			
24	S112 0-0.1	May 26, 2021		Soil	S21-My54150						X	X			X			
25	S113 0-0.1	May 26, 2021		Soil	S21-My54151						X	X			X			
26	S114 0-0.1	May 26, 2021		Soil	S21-My54152		X							X	X			X
27	QC01	May 26, 2021		Soil	S21-My54153		X							X	X			X
28	S115 0-0.1	May 26, 2021		Soil	S21-My54154						X	X			X			
29	S116 1.9-2.0	May 26, 2021		Soil	S21-My54155						X	X			X		X	
30	S117 1.9-2.0	May 26, 2021		Soil	S21-My54156						X	X			X		X	
31	S118 0-0.1	May 26, 2021		Soil	S21-My54157						X	X			X		X	

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Melbourne Laboratory - NATA Site # 1254 & 14271												X			X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X												
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory - NATA Site # 25079																		
External Laboratory																		
32	Trip Spike / Trip Blank	May 26, 2021		Water	S21-My54158			X										
33	Rinsate	May 26, 2021		Water	S21-My54159			X										
34	S031 0.4-0.5	May 26, 2021		Soil	S21-My54160				X									
35	S045 0-0.1	May 26, 2021		Soil	S21-My54161				X									
36	S045 0.3-0.4	May 26, 2021		Soil	S21-My54162				X									
37	S046 0-0.1	May 26, 2021		Soil	S21-My54163				X									
38	S046 0.3-0.4	May 26, 2021		Soil	S21-My54164				X									
39	S047 0.0-0.1	May 26, 2021		Soil	S21-My54165				X									
40	S048 0-0.1	May 26, 2021		Soil	S21-My54166				X									
41	S048 0.3-0.4	May 26, 2021		Soil	S21-My54167				X									

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Melbourne Laboratory - NATA Site # 1254 & 14271												X			X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X												
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory - NATA Site # 25079																		
External Laboratory																		
42	S055 0.4-0.5	May 26, 2021		Soil	S21-My54168				X									
43	S066 0.3-0.4	May 26, 2021		Soil	S21-My54169				X									
44	S068 0-0.1	May 26, 2021		Soil	S21-My54170				X									
45	S068 0.3-0.4	May 26, 2021		Soil	S21-My54171				X									
46	S069 0.4-0.5	May 26, 2021		Soil	S21-My54172				X									
47	S078 0-0.1	May 26, 2021		Soil	S21-My54173				X									
48	S078 0.3-0.4	May 26, 2021		Soil	S21-My54174				X									
49	S090 0.3-0.4	May 26, 2021		Soil	S21-My54175				X									
50	S091 0.3-0.4	May 26, 2021		Soil	S21-My54176				X									
51	S093 0.4-0.5	May 26, 2021		Soil	S21-My54177				X									
52	S093 0.9-1.0	May 26, 2021		Soil	S21-My54178				X									

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

Project Name: Kemps Creek
Project ID: 60330

Order No.:
Report #: 798505
Phone: 02 8245 0300
Fax:

Received: May 27, 2021 11:45 AM
Due: Jun 3, 2021
Priority: 5 Day
Contact Name: Rohan Hammond

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Organochlorine Pesticides	Acid Herbicides	Metals M8	Volatile Organics	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	JBS&G Suite 2
Melbourne Laboratory - NATA Site # 1254 & 14271												X			X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X												
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory - NATA Site # 25079																		
External Laboratory																		
53	S093 1.9-2.0	May 26, 2021		Soil	S21-My54179				X									
54	S103 0-0.1	May 26, 2021		Soil	S21-My54180				X									
55	S103 0.4-0.6	May 26, 2021		Soil	S21-My54181				X									
56	S103 0.9-1.0	May 26, 2021		Soil	S21-My54182				X									
57	S103 1.9-2.0	May 26, 2021		Soil	S21-My54183				X									
58	S104 0.3-0.4	May 26, 2021		Soil	S21-My54184				X									
59	S105 0.3-0.4	May 26, 2021		Soil	S21-My54185				X									
60	S106 0.3-0.4	May 26, 2021		Soil	S21-My54186				X									
61	S107 0.3-0.4	May 26, 2021		Soil	S21-My54187				X									
62	S108 0.4-0.5	May 26, 2021		Soil	S21-My54188				X									
63	S108 1.9-2.0	May 26, 2021		Soil	S21-My54189				X									

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Melbourne Laboratory - NATA Site # 1254 & 14271												X			X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X												
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory - NATA Site # 25079																		
External Laboratory																		
64	S111 0-0.1	May 26, 2021		Soil	S21-My54190				X									
65	S111 0.9-1.0	May 26, 2021		Soil	S21-My54191				X									
66	S111 1.9-2.0	May 26, 2021		Soil	S21-My54192				X									
67	S112 0.3-0.4	May 26, 2021		Soil	S21-My54193				X									
68	S113 0.3-0.4	May 26, 2021		Soil	S21-My54194				X									
69	S114 0.3-0.4	May 26, 2021		Soil	S21-My54195				X									
70	S115 0.4-0.5	May 26, 2021		Soil	S21-My54196				X									
71	S116 0-0.1	May 26, 2021		Soil	S21-My54197				X									
72	S116 0.4-0.5	May 26, 2021		Soil	S21-My54198				X									
73	S116 0.9-1.0	May 26, 2021		Soil	S21-My54199				X									
74	S117 0-0.1	May 26, 2021		Soil	S21-My54200				X									

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Melbourne Laboratory - NATA Site # 1254 & 14271												X			X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X												
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory - NATA Site # 25079																		
External Laboratory																		
75	S117 0.4-0.5	May 26, 2021		Soil	S21-My54201				X									
76	S117 0.9-1.0	May 26, 2021		Soil	S21-My54202				X									
77	S118 0.4-0.5	May 26, 2021		Soil	S21-My54203				X									
78	S118 0.9-1.0	May 26, 2021		Soil	S21-My54204				X									
79	S118 1.9-2.0	May 26, 2021		Soil	S21-My54205				X									
80	S020 0-0.1	May 26, 2021		Soil	S21-My56261				X									
81	S020 0.3-0.4	May 26, 2021		Soil	S21-My56262				X									
82	S030 0-0.1	May 26, 2021		Soil	S21-My56263				X									
83	S030 0.4-0.5	May 26, 2021		Soil	S21-My56264				X									
84	S056 0-0.1	May 26, 2021		Soil	S21-My56265				X									
85	S056 0.3-0.4	May 26, 2021		Soil	S21-My56266				X									

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Melbourne Laboratory - NATA Site # 1254 & 14271												X			X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X												
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory - NATA Site # 25079																		
External Laboratory																		
86	Blank Sample	May 26, 2021		Soil	S21-My56267				X									
Test Counts						1	5	2	55	1	24	24	8	2	29	1	10	2

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 basis	grams per kilogram
Filter loading:	fibres/100 graticule areas
Reported Concentration:	fibres/mL
Flowrate:	L/min

Terms

Dry	Sample is dried by heating prior to analysis
LOR	Limit of Reporting
COC	Chain of Custody
SRA	Sample Receipt Advice
ISO	International Standards Organisation
AS	Australian Standards
WA DOH	Reference document for the NEPM. Government of Western Australia, Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia (2009), including supporting document Recommended 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-asbestos matrix, typically presented in bonded and/or sound condition. For the purposes of the NEPM, ACM is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
AF	Asbestos Fines. Asbestos containing materials, including friable, weathered and bonded materials, able to pass a 7mm x 7mm sieve. Considered under the NEPM as equivalent to “non-bonded / friable”.
FA	Fibrous Asbestos. Asbestos containing materials in a friable and/or severely weathered condition. For the purposes of the NEPM, FA is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
Friable	Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory’s remit to assess degree of friability.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres in the matrix.

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
N/A	Not applicable

Asbestos Counter/Identifier:

Chamath JHM Annakkage	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.

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JBS & G Australia (NSW) P/L
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NATA Accredited
Accreditation Number 1261
Site Number 18217

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

Attention: **Rohan Hammond**

Report **798505-S**
Project name Kemps Creek
Project ID 60330
Received Date May 27, 2021

Client Sample ID			**S031 0-0.1**	**QC02**	**S044 0-0.1**	**S047 0.3-0.4**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**S21-My54127**	**S21-My54128**	**S21-My54129**	**S21-My54130**
Date Sampled			**May 26, 2021**	**May 26, 2021**	**May 26, 2021**	**May 26, 2021**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	95	97	91	101
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
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	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			S031 0-0.1	QC02	S044 0-0.1	S047 0.3-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-My54127	S21-My54128	S21-My54129	S21-My54130
Date Sampled			May 26, 2021	May 26, 2021	May 26, 2021	May 26, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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	%	99	98	101	95
p-Terphenyl-d14 (surr.)	1	%	125	124	131	125
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-BHC (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Toxaphene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Dibutylchlorendate (surr.)	1	%	112	123	142	130
Tetrachloro-m-xylene (surr.)	1	%	105	102	108	103
Acid Herbicides						
2.4-D	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2.4-DB	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2.4.5-T	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2.4.5-TP	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Actril (loxynil)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dicamba	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dichlorprop	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dinitro-o-cresol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dinoseb	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
MCPA	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			S031 0-0.1	QC02	S044 0-0.1	S047 0.3-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-My54127	S21-My54128	S21-My54129	S21-My54130
Date Sampled			May 26, 2021	May 26, 2021	May 26, 2021	May 26, 2021
Test/Reference	LOR	Unit				
Acid Herbicides						
MCPB	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Mecoprop	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Warfarin (surr.)	1	%	61	58	60	65
Heavy Metals						
Arsenic	2	mg/kg	7.7	16	4.9	3.2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	14	22	12	5.0
Copper	5	mg/kg	8.0	8.1	17	8.3
Lead	5	mg/kg	12	14	13	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	< 5	8.4	< 5
Zinc	5	mg/kg	17	19	42	13
% Moisture	1	%	19	22	39	21

Client Sample ID			S055 0-0.1	QC03	S079 0-0.1	S090 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-My54131	S21-My54132	S21-My54135	S21-My54136
Date Sampled			May 26, 2021	May 26, 2021	May 26, 2021	May 26, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
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	< 50	-
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	-
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	-
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	100	101	81	-
Total Recoverable Hydrocarbons - 2013 NEPM 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	< 100	< 100	< 100	-
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	-

Client Sample ID			S055 0-0.1	QC03	S079 0-0.1	S090 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-My54131	S21-My54132	S21-My54135	S21-My54136
Date Sampled			May 26, 2021	May 26, 2021	May 26, 2021	May 26, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	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	< 0.5	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 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	< 0.5	< 0.5	-
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	94	94	94	-
p-Terphenyl-d14 (surr.)	1	%	126	126	120	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	-	-	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	-	-	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	-	-	< 0.05	0.06
a-BHC	0.05	mg/kg	-	-	< 0.05	< 0.05
Aldrin	0.05	mg/kg	-	-	< 0.05	< 0.05
b-BHC	0.05	mg/kg	-	-	< 0.05	< 0.05
d-BHC	0.05	mg/kg	-	-	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	-	-	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	-	-	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	-	-	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	-	< 0.05	< 0.05
Endrin	0.05	mg/kg	-	-	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	-	-	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	-	-	< 0.05	< 0.05
g-BHC (Lindane)	0.05	mg/kg	-	-	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	-	-	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	-	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	-	< 0.05	< 0.05
Methoxychlor	0.2	mg/kg	-	-	< 0.2	< 0.2
Toxaphene	0.1	mg/kg	-	-	< 0.1	< 0.1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	< 0.05	0.06
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	< 0.2	< 0.2
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	< 0.2	< 0.2
Dibutylchlorendate (surr.)	1	%	-	-	128	144
Tetrachloro-m-xylene (surr.)	1	%	-	-	99	107

Client Sample ID			S055 0-0.1	QC03	S079 0-0.1	S090 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-My54131	S21-My54132	S21-My54135	S21-My54136
Date Sampled			May 26, 2021	May 26, 2021	May 26, 2021	May 26, 2021
Test/Reference	LOR	Unit				
Acid Herbicides						
2.4-D	0.5	mg/kg	-	-	< 0.5	< 0.5
2.4-DB	0.5	mg/kg	-	-	< 0.5	< 0.5
2.4.5-T	0.5	mg/kg	-	-	< 0.5	< 0.5
2.4.5-TP	0.5	mg/kg	-	-	< 0.5	< 0.5
Actril (loxynil)	0.5	mg/kg	-	-	< 0.5	< 0.5
Dicamba	0.5	mg/kg	-	-	< 0.5	< 0.5
Dichlorprop	0.5	mg/kg	-	-	< 0.5	< 0.5
Dinitro-o-cresol	0.5	mg/kg	-	-	< 0.5	< 0.5
Dinoseb	0.5	mg/kg	-	-	< 0.5	< 0.5
MCPA	0.5	mg/kg	-	-	< 0.5	< 0.5
MCPB	0.5	mg/kg	-	-	< 0.5	< 0.5
Mecoprop	0.5	mg/kg	-	-	< 0.5	< 0.5
Warfarin (surr.)	1	%	-	-	66	65
Heavy Metals						
Arsenic	2	mg/kg	8.4	4.7	2.3	-
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	-
Chromium	5	mg/kg	19	15	7.5	-
Copper	5	mg/kg	26	31	7.7	-
Lead	5	mg/kg	17	12	6.9	-
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Nickel	5	mg/kg	9.1	7.8	< 5	-
Zinc	5	mg/kg	47	39	16	-
% Moisture	1	%	19	21	48	13

Client Sample ID			S091 0-0.1	S092 0-0.1	S092 0.3-0.4	S093 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-My54137	S21-My54138	S21-My54139	S21-My54140
Date Sampled			May 26, 2021	May 26, 2021	May 26, 2021	May 26, 2021
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
a-BHC	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
b-BHC	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
d-BHC	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05

Client Sample ID			S091 0-0.1	S092 0-0.1	S092 0.3-0.4	S093 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-My54137	S21-My54138	S21-My54139	S21-My54140
Date Sampled			May 26, 2021	May 26, 2021	May 26, 2021	May 26, 2021
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Methoxychlor	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Toxaphene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.2	< 0.2	-	< 0.2
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.2	< 0.2	-	< 0.2
Dibutylchlorendate (surr.)	1	%	110	101	-	147
Tetrachloro-m-xylene (surr.)	1	%	107	107	-	106
Acid Herbicides						
2.4-D	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
2.4-DB	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
2.4.5-T	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
2.4.5-TP	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Actril (loxynil)	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Dicamba	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Dichlorprop	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Dinitro-o-cresol	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Dinoseb	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
MCPA	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
MCPB	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Mecoprop	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Warfarin (surr.)	1	%	67	72	-	60
Heavy Metals						
Arsenic	2	mg/kg	11	-	-	11
Cadmium	0.4	mg/kg	< 0.4	-	-	< 0.4
Chromium	5	mg/kg	13	-	-	25
Copper	5	mg/kg	11	-	-	23
Lead	5	mg/kg	18	-	-	26
Mercury	0.1	mg/kg	< 0.1	-	-	< 0.1
Nickel	5	mg/kg	8.0	-	-	14
Zinc	5	mg/kg	25	-	-	50
% Moisture	1	%	18	18	17	17
% Clay	1	%	-	-	18	-
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	-	-	22	-
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	-	-	6.5	-
Cation Exchange Capacity						
Cation Exchange Capacity	0.05	meq/100g	-	-	19	-

Client Sample ID			S094 0-0.1	S104 0-0.1	S105 0-0.1	S106 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-My54141	S21-My54142	S21-My54143	S21-My54144
Date Sampled			May 26, 2021	May 26, 2021	May 26, 2021	May 26, 2021
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-BHC (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Toxaphene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Dibutylchlorendate (surr.)	1	%	63	90	104	86
Tetrachloro-m-xylene (surr.)	1	%	101	109	108	100
Acid Herbicides						
2.4-D	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2.4-DB	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2.4.5-T	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2.4.5-TP	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Actril (loxynil)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dicamba	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dichlorprop	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dinitro-o-cresol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dinoseb	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
MCPA	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
MCPB	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Mecoprop	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Warfarin (surr.)	1	%	64	70	73	64
Heavy Metals						
Arsenic	2	mg/kg	7.1	12	-	-
Cadmium	0.4	mg/kg	< 0.4	< 0.4	-	-
Chromium	5	mg/kg	14	17	-	-
Copper	5	mg/kg	16	20	-	-
Lead	5	mg/kg	17	19	-	-
Mercury	0.1	mg/kg	< 0.1	< 0.1	-	-
Nickel	5	mg/kg	9.7	9.4	-	-
Zinc	5	mg/kg	45	40	-	-

Client Sample ID			S094 0-0.1	S104 0-0.1	S105 0-0.1	S106 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-My54141	S21-My54142	S21-My54143	S21-My54144
Date Sampled			May 26, 2021	May 26, 2021	May 26, 2021	May 26, 2021
Test/Reference	LOR	Unit				
% Moisture	1	%	28	17	27	19

Client Sample ID			S107 0-0.1	S108 0-0.1	S108 0.9-1.0	S109 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-My54145	S21-My54146	S21-My54147	S21-My54148
Date Sampled			May 26, 2021	May 26, 2021	May 26, 2021	May 26, 2021
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-BHC (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Toxaphene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Dibutylchlorendate (surr.)	1	%	102	91	98	53
Tetrachloro-m-xylene (surr.)	1	%	120	100	120	82
Acid Herbicides						
2.4-D	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2.4-DB	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2.4.5-T	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2.4.5-TP	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Actril (loxynil)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dicamba	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dichlorprop	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dinitro-o-cresol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dinoseb	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
MCPA	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
MCPB	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Mecoprop	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Warfarin (surr.)	1	%	69	69	71	60

Client Sample ID			S107 0-0.1	S108 0-0.1	S108 0.9-1.0	S109 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-My54145	S21-My54146	S21-My54147	S21-My54148
Date Sampled			May 26, 2021	May 26, 2021	May 26, 2021	May 26, 2021
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	-	10	23	12
Cadmium	0.4	mg/kg	-	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	-	12	7.9	27
Copper	5	mg/kg	-	44	16	28
Lead	5	mg/kg	-	17	11	25
Mercury	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	-	29	9.9	15
Zinc	5	mg/kg	-	87	39	72
% Moisture	1	%	17	13	22	52

Client Sample ID			S111 0.4-0.5	S112 0-0.1	S113 0-0.1	S114 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-My54149	S21-My54150	S21-My54151	S21-My54152
Date Sampled			May 26, 2021	May 26, 2021	May 26, 2021	May 26, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	-	-	< 20
TRH C10-C14	20	mg/kg	-	-	-	< 20
TRH C15-C28	50	mg/kg	-	-	-	< 50
TRH C29-C36	50	mg/kg	-	-	-	< 50
TRH C10-C36 (Total)	50	mg/kg	-	-	-	< 50
BTEX						
Benzene	0.1	mg/kg	-	-	-	< 0.1
Toluene	0.1	mg/kg	-	-	-	< 0.1
Ethylbenzene	0.1	mg/kg	-	-	-	< 0.1
m&p-Xylenes	0.2	mg/kg	-	-	-	< 0.2
o-Xylene	0.1	mg/kg	-	-	-	< 0.1
Xylenes - Total*	0.3	mg/kg	-	-	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	-	-	85
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	-	-	< 0.5
TRH C6-C10	20	mg/kg	-	-	-	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	-	-	< 20
TRH >C10-C16	50	mg/kg	-	-	-	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	-	-	< 50
TRH >C16-C34	100	mg/kg	-	-	-	< 100
TRH >C34-C40	100	mg/kg	-	-	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	-	-	< 100
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	-	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	-	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	-	-	1.2
Acenaphthene	0.5	mg/kg	-	-	-	< 0.5
Acenaphthylene	0.5	mg/kg	-	-	-	< 0.5
Anthracene	0.5	mg/kg	-	-	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	-	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	-	-	< 0.5

Client Sample ID			S111 0.4-0.5	S112 0-0.1	S113 0-0.1	S114 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-My54149	S21-My54150	S21-My54151	S21-My54152
Date Sampled			May 26, 2021	May 26, 2021	May 26, 2021	May 26, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	-	-	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	-	-	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	-	-	< 0.5
Chrysene	0.5	mg/kg	-	-	-	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	-	-	-	< 0.5
Fluoranthene	0.5	mg/kg	-	-	-	< 0.5
Fluorene	0.5	mg/kg	-	-	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	-	-	< 0.5
Naphthalene	0.5	mg/kg	-	-	-	< 0.5
Phenanthrene	0.5	mg/kg	-	-	-	< 0.5
Pyrene	0.5	mg/kg	-	-	-	< 0.5
Total PAH*	0.5	mg/kg	-	-	-	< 0.5
2-Fluorobiphenyl (surr.)	1	%	-	-	-	87
p-Terphenyl-d14 (surr.)	1	%	-	-	-	97
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-BHC (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Toxaphene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Dibutylchlorendate (surr.)	1	%	81	96	85	95
Tetrachloro-m-xylene (surr.)	1	%	108	103	92	90
Acid Herbicides						
2.4-D	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
2.4-DB	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
2.4.5-T	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
2.4.5-TP	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Actril (loxynil)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Dicamba	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-

Client Sample ID			S111 0.4-0.5	S112 0-0.1	S113 0-0.1	S114 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-My54149	S21-My54150	S21-My54151	S21-My54152
Date Sampled			May 26, 2021	May 26, 2021	May 26, 2021	May 26, 2021
Test/Reference	LOR	Unit				
Acid Herbicides						
Dichlorprop	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Dinitro-o-cresol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Dinoseb	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
MCPA	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
MCPB	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Mecoprop	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Warfarin (surr.)	1	%	66	68	71	-
Heavy Metals						
Arsenic	2	mg/kg	4.1	-	-	11
Cadmium	0.4	mg/kg	< 0.4	-	-	< 0.4
Chromium	5	mg/kg	17	-	-	23
Copper	5	mg/kg	48	-	-	17
Lead	5	mg/kg	19	-	-	28
Mercury	0.1	mg/kg	< 0.1	-	-	< 0.1
Nickel	5	mg/kg	25	-	-	11
Zinc	5	mg/kg	99	-	-	31
% Moisture	1	%	14	19	20	20
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
1.3.5-Trimethylbenzene	0.5	mg/kg	-	-	-	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
2-Butanone (MEK)	0.5	mg/kg	-	-	-	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	-	-	-	< 0.5
4-Chlorotoluene	0.5	mg/kg	-	-	-	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	-	-	< 0.5
Allyl chloride	0.5	mg/kg	-	-	-	< 0.5
Benzene	0.1	mg/kg	-	-	-	< 0.1
Bromobenzene	0.5	mg/kg	-	-	-	< 0.5
Bromochloromethane	0.5	mg/kg	-	-	-	< 0.5
Bromodichloromethane	0.5	mg/kg	-	-	-	< 0.5
Bromoform	0.5	mg/kg	-	-	-	< 0.5
Bromomethane	0.5	mg/kg	-	-	-	< 0.5
Carbon disulfide	0.5	mg/kg	-	-	-	< 0.5
Carbon Tetrachloride	0.5	mg/kg	-	-	-	< 0.5
Chlorobenzene	0.5	mg/kg	-	-	-	< 0.5

Client Sample ID			S111 0.4-0.5	S112 0-0.1	S113 0-0.1	S114 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-My54149	S21-My54150	S21-My54151	S21-My54152
Date Sampled			May 26, 2021	May 26, 2021	May 26, 2021	May 26, 2021
Test/Reference	LOR	Unit				
Volatile Organics						
Chloroethane	0.5	mg/kg	-	-	-	< 0.5
Chloroform	0.5	mg/kg	-	-	-	< 0.5
Chloromethane	0.5	mg/kg	-	-	-	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	-	-	-	< 0.5
Dibromochloromethane	0.5	mg/kg	-	-	-	< 0.5
Dibromomethane	0.5	mg/kg	-	-	-	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	-	-	-	< 0.5
Ethylbenzene	0.1	mg/kg	-	-	-	< 0.1
Iodomethane	0.5	mg/kg	-	-	-	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	-	-	-	< 0.5
m&p-Xylenes	0.2	mg/kg	-	-	-	< 0.2
Methylene Chloride	0.5	mg/kg	-	-	-	< 0.5
o-Xylene	0.1	mg/kg	-	-	-	< 0.1
Styrene	0.5	mg/kg	-	-	-	< 0.5
Tetrachloroethene	0.5	mg/kg	-	-	-	< 0.5
Toluene	0.1	mg/kg	-	-	-	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	-	-	-	< 0.5
Trichloroethene	0.5	mg/kg	-	-	-	< 0.5
Trichlorofluoromethane	0.5	mg/kg	-	-	-	< 0.5
Vinyl chloride	0.5	mg/kg	-	-	-	< 0.5
Xylenes - Total*	0.3	mg/kg	-	-	-	< 0.3
Total MAH*	0.5	mg/kg	-	-	-	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	-	-	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	-	-	< 0.5
4-Bromofluorobenzene (surr.)	1	%	-	-	-	85
Toluene-d8 (surr.)	1	%	-	-	-	72
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	%	-	-	-	95
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	90

Client Sample ID			QC01	S115 0-0.1	S116 1.9-2.0	S117 1.9-2.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-My54153	S21-My54154	S21-My54155	S21-My54156
Date Sampled			May 26, 2021	May 26, 2021	May 26, 2021	May 26, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
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	< 50
TRH C29-C36	50	mg/kg	< 50	-	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	-	< 50	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	-	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	-	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	83	-	107	105
Total Recoverable Hydrocarbons - 2013 NEPM 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	< 100	-	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	-	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	< 100	< 100
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	1.2	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	-	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 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	-	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	110	-	102	106
p-Terphenyl-d14 (surr.)	1	%	115	-	120	92

Client Sample ID			QC01	S115 0-0.1	S116 1.9-2.0	S117 1.9-2.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-My54153	S21-My54154	S21-My54155	S21-My54156
Date Sampled			May 26, 2021	May 26, 2021	May 26, 2021	May 26, 2021
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-BHC (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Toxaphene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Dibutylchlorendate (surr.)	1	%	99	91	74	90
Tetrachloro-m-xylene (surr.)	1	%	110	102	123	105
Acid Herbicides						
2.4-D	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
2.4-DB	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
2.4.5-T	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
2.4.5-TP	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Actril (loxynil)	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Dicamba	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Dichlorprop	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Dinitro-o-cresol	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Dinoseb	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
MCPA	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
MCPB	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Mecoprop	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Warfarin (surr.)	1	%	-	73	71	69
Heavy Metals						
Arsenic	2	mg/kg	9.4	-	4.8	12
Cadmium	0.4	mg/kg	< 0.4	-	< 0.4	< 0.4
Chromium	5	mg/kg	18	-	18	25
Copper	5	mg/kg	15	-	32	36
Lead	5	mg/kg	32	-	15	16
Mercury	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Nickel	5	mg/kg	12	-	18	13
Zinc	5	mg/kg	33	-	76	48

Client Sample ID			QC01	S115 0-0.1	S116 1.9-2.0	S117 1.9-2.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-My54153	S21-My54154	S21-My54155	S21-My54156
Date Sampled			May 26, 2021	May 26, 2021	May 26, 2021	May 26, 2021
Test/Reference	LOR	Unit				
% Moisture	1	%	25	20	13	19
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	-	-	-
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	-
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
2-Butanone (MEK)	0.5	mg/kg	< 0.5	-	-	-
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	-	-	-
4-Chlorotoluene	0.5	mg/kg	< 0.5	-	-	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	-	-	-
Allyl chloride	0.5	mg/kg	< 0.5	-	-	-
Benzene	0.1	mg/kg	< 0.1	-	-	-
Bromobenzene	0.5	mg/kg	< 0.5	-	-	-
Bromochloromethane	0.5	mg/kg	< 0.5	-	-	-
Bromodichloromethane	0.5	mg/kg	< 0.5	-	-	-
Bromoform	0.5	mg/kg	< 0.5	-	-	-
Bromomethane	0.5	mg/kg	< 0.5	-	-	-
Carbon disulfide	0.5	mg/kg	< 0.5	-	-	-
Carbon Tetrachloride	0.5	mg/kg	< 0.5	-	-	-
Chlorobenzene	0.5	mg/kg	< 0.5	-	-	-
Chloroethane	0.5	mg/kg	< 0.5	-	-	-
Chloroform	0.5	mg/kg	< 0.5	-	-	-
Chloromethane	0.5	mg/kg	< 0.5	-	-	-
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	-
Dibromochloromethane	0.5	mg/kg	< 0.5	-	-	-
Dibromomethane	0.5	mg/kg	< 0.5	-	-	-
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	-	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	-
Iodomethane	0.5	mg/kg	< 0.5	-	-	-
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	-	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	-
Methylene Chloride	0.5	mg/kg	< 0.5	-	-	-
o-Xylene	0.1	mg/kg	< 0.1	-	-	-
Styrene	0.5	mg/kg	< 0.5	-	-	-
Tetrachloroethene	0.5	mg/kg	< 0.5	-	-	-
Toluene	0.1	mg/kg	< 0.1	-	-	-

Client Sample ID			QC01	S115 0-0.1	S116 1.9-2.0	S117 1.9-2.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-My54153	S21-My54154	S21-My54155	S21-My54156
Date Sampled			May 26, 2021	May 26, 2021	May 26, 2021	May 26, 2021
Test/Reference	LOR	Unit				
Volatile Organics						
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	-
Trichloroethene	0.5	mg/kg	< 0.5	-	-	-
Trichlorofluoromethane	0.5	mg/kg	< 0.5	-	-	-
Vinyl chloride	0.5	mg/kg	< 0.5	-	-	-
Xylenes - Total*	0.3	mg/kg	< 0.3	-	-	-
Total MAH*	0.5	mg/kg	< 0.5	-	-	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	-	-	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	-	-	-
4-Bromofluorobenzene (surr.)	1	%	83	-	-	-
Toluene-d8 (surr.)	1	%	77	-	-	-
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	%	99	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	110	-	-	-

Client Sample ID			S118 0-0.1
Sample Matrix			Soil
Eurofins Sample No.			S21-My54157
Date Sampled			May 26, 2021
Test/Reference	LOR	Unit	
Total Recoverable Hydrocarbons - 1999 NEPM Fractions			
TRH C6-C9	20	mg/kg	< 20
TRH C10-C14	20	mg/kg	< 20
TRH C15-C28	50	mg/kg	< 50
TRH C29-C36	50	mg/kg	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50
BTEX			
Benzene	0.1	mg/kg	< 0.1
Toluene	0.1	mg/kg	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2
o-Xylene	0.1	mg/kg	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3
4-Bromofluorobenzene (surr.)	1	%	98
Total Recoverable Hydrocarbons - 2013 NEPM Fractions			
Naphthalene[N02]	0.5	mg/kg	< 0.5
TRH C6-C10	20	mg/kg	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20
TRH >C10-C16	50	mg/kg	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50

Client Sample ID			S118 0-0.1
Sample Matrix			Soil
Eurofins Sample No.			S21-My54157
Date Sampled			May 26, 2021
Test/Reference	LOR	Unit	
Total Recoverable Hydrocarbons - 2013 NEPM Fractions			
TRH >C16-C34	100	mg/kg	< 100
TRH >C34-C40	100	mg/kg	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100
Polycyclic Aromatic Hydrocarbons			
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2
Acenaphthene	0.5	mg/kg	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5
Anthracene	0.5	mg/kg	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5
Chrysene	0.5	mg/kg	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5
Fluorene	0.5	mg/kg	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5
Naphthalene	0.5	mg/kg	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5
Pyrene	0.5	mg/kg	< 0.5
Total PAH*	0.5	mg/kg	< 0.5
2-Fluorobiphenyl (surr.)	1	%	92
p-Terphenyl-d14 (surr.)	1	%	121
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	0.1	mg/kg	< 0.1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05

Client Sample ID			S118 0-0.1
Sample Matrix			Soil
Eurofins Sample No.			S21-My54157
Date Sampled			May 26, 2021
Test/Reference	LOR	Unit	
Organochlorine Pesticides			
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	%	126
Tetrachloro-m-xylene (surr.)	1	%	99
Acid Herbicides			
2.4-D	0.5	mg/kg	< 0.5
2.4-DB	0.5	mg/kg	< 0.5
2.4.5-T	0.5	mg/kg	< 0.5
2.4.5-TP	0.5	mg/kg	< 0.5
Actril (loxynil)	0.5	mg/kg	< 0.5
Dicamba	0.5	mg/kg	< 0.5
Dichlorprop	0.5	mg/kg	< 0.5
Dinitro-o-cresol	0.5	mg/kg	< 0.5
Dinoseb	0.5	mg/kg	< 0.5
MCPA	0.5	mg/kg	< 0.5
MCPB	0.5	mg/kg	< 0.5
Mecoprop	0.5	mg/kg	< 0.5
Warfarin (surr.)	1	%	103
Heavy Metals			
Arsenic	2	mg/kg	11
Cadmium	0.4	mg/kg	< 0.4
Chromium	5	mg/kg	29
Copper	5	mg/kg	25
Lead	5	mg/kg	22
Mercury	0.1	mg/kg	< 0.1
Nickel	5	mg/kg	13
Zinc	5	mg/kg	41
% Moisture	1	%	17

Sample History

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

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

Description	Testing Site	Extracted	Holding Time
JBS&G Suite 2			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	May 31, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	May 31, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	May 31, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	May 31, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Polycyclic Aromatic Hydrocarbons	Sydney	May 31, 2021	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Organochlorine Pesticides	Sydney	May 31, 2021	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Metals M8	Sydney	May 31, 2021	180 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Polychlorinated Biphenyls	Sydney	May 31, 2021	28 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Acid Herbicides	Melbourne	Jun 02, 2021	14 Days
- Method: LTM-ORG-2180 Phenoxy Acid Herbicides			
% Clay	Brisbane	Jun 01, 2021	14 Days
- Method: LTM-GEN-7040			
pH (1:5 Aqueous extract at 25°C as rec.)	Sydney	May 31, 2021	7 Days
- Method: LTM-GEN-7090 pH in soil by ISE			
Volatile Organics	Sydney	May 31, 2021	7 Days
- Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices			
% Moisture	Sydney	May 27, 2021	14 Days
- Method: LTM-GEN-7080 Moisture			
Conductivity (1:5 aqueous extract at 25°C as rec.)	Melbourne	Jun 01, 2021	7 Days
- Method: LTM-INO-4030 Conductivity			
Cation Exchange Capacity	Melbourne	Jun 01, 2021	180 Days
- Method: LTM-MET-3060 Cation Exchange Capacity by bases & Exchangeable Sodium Percentage			

eurofins | Environment Testing

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Project Name: Kemps Creek
Project ID: 60330

Order No.:
Report #: 798505
Phone: 02 8245 0300
Fax:

Received: May 27, 2021 11:45 AM
Due: Jun 3, 2021
Priority: 5 Day
Contact Name: Rohan Hammond

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Organochlorine Pesticides	Acid Herbicides	Metals M8	Volatile Organics	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	JBS&G Suite 2
Melbourne Laboratory - NATA Site # 1254 & 14271												X			X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X												
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory - NATA Site # 25079																		
External Laboratory																		
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**													
1	S031 0-0.1	May 26, 2021		Soil	S21-My54127						X	X			X		X	
2	QC02	May 26, 2021		Soil	S21-My54128						X	X			X		X	
3	S044 0-0.1	May 26, 2021		Soil	S21-My54129						X	X			X		X	
4	S047 0.3-0.4	May 26, 2021		Soil	S21-My54130						X	X			X		X	
5	S055 0-0.1	May 26, 2021		Soil	S21-My54131										X		X	
6	QC03	May 26, 2021		Soil	S21-My54132										X		X	
7	S066 0-0.1	May 26, 2021		Soil	S21-My54133				X									
8	S069 0-0.1	May 26, 2021		Soil	S21-My54134				X									
9	S079 0-0.1	May 26, 2021		Soil	S21-My54135						X	X			X		X	

eurofins | Environment Testing

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Project Name: Kemps Creek
Project ID: 60330

Order No.:
Report #: 798505
Phone: 02 8245 0300
Fax:

Received: May 27, 2021 11:45 AM
Due: Jun 3, 2021
Priority: 5 Day
Contact Name: Rohan Hammond

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Organochlorine Pesticides	Acid Herbicides	Metals M8	Volatile Organics	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	JBS&G Suite 2
Melbourne Laboratory - NATA Site # 1254 & 14271												X			X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X												
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory - NATA Site # 25079																		
External Laboratory																		
10	S090 0-0.1	May 26, 2021		Soil	S21-My54136						X	X			X			
11	S091 0-0.1	May 26, 2021		Soil	S21-My54137						X	X	X		X			
12	S092 0-0.1	May 26, 2021		Soil	S21-My54138						X	X			X			
13	S092 0.3-0.4	May 26, 2021		Soil	S21-My54139	X				X					X	X		
14	S093 0-0.1	May 26, 2021		Soil	S21-My54140		X				X	X	X		X			
15	S094 0-0.1	May 26, 2021		Soil	S21-My54141						X	X	X		X			
16	S104 0-0.1	May 26, 2021		Soil	S21-My54142						X	X	X		X			
17	S105 0-0.1	May 26, 2021		Soil	S21-My54143						X	X			X			
18	S106 0-0.1	May 26, 2021		Soil	S21-My54144						X	X			X			
19	S107 0-0.1	May 26, 2021		Soil	S21-My54145						X	X			X			
20	S108 0-0.1	May 26, 2021		Soil	S21-My54146		X				X	X	X		X			

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Melbourne Laboratory - NATA Site # 1254 & 14271												X			X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X												
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory - NATA Site # 25079																		
External Laboratory																		
21	S108 0.9-1.0	May 26, 2021		Soil	S21-My54147						X	X	X		X			
22	S109 0-0.1	May 26, 2021		Soil	S21-My54148						X	X	X		X			
23	S111 0.4-0.5	May 26, 2021		Soil	S21-My54149		X				X	X	X		X			
24	S112 0-0.1	May 26, 2021		Soil	S21-My54150						X	X			X			
25	S113 0-0.1	May 26, 2021		Soil	S21-My54151						X	X			X			
26	S114 0-0.1	May 26, 2021		Soil	S21-My54152		X							X	X			X
27	QC01	May 26, 2021		Soil	S21-My54153		X							X	X			X
28	S115 0-0.1	May 26, 2021		Soil	S21-My54154						X	X			X			
29	S116 1.9-2.0	May 26, 2021		Soil	S21-My54155						X	X			X		X	
30	S117 1.9-2.0	May 26, 2021		Soil	S21-My54156						X	X			X		X	
31	S118 0-0.1	May 26, 2021		Soil	S21-My54157						X	X			X		X	

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Melbourne Laboratory - NATA Site # 1254 & 14271												X			X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X												
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory - NATA Site # 25079																		
External Laboratory																		
32	Trip Spike / Trip Blank	May 26, 2021		Water	S21-My54158			X										
33	Rinsate	May 26, 2021		Water	S21-My54159			X										
34	S031 0.4-0.5	May 26, 2021		Soil	S21-My54160				X									
35	S045 0-0.1	May 26, 2021		Soil	S21-My54161				X									
36	S045 0.3-0.4	May 26, 2021		Soil	S21-My54162				X									
37	S046 0-0.1	May 26, 2021		Soil	S21-My54163				X									
38	S046 0.3-0.4	May 26, 2021		Soil	S21-My54164				X									
39	S047 0.0-0.1	May 26, 2021		Soil	S21-My54165				X									
40	S048 0-0.1	May 26, 2021		Soil	S21-My54166				X									
41	S048 0.3-0.4	May 26, 2021		Soil	S21-My54167				X									

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Melbourne Laboratory - NATA Site # 1254 & 14271												X			X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X												
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory - NATA Site # 25079																		
External Laboratory																		
42	S055 0.4-0.5	May 26, 2021		Soil	S21-My54168				X									
43	S066 0.3-0.4	May 26, 2021		Soil	S21-My54169				X									
44	S068 0-0.1	May 26, 2021		Soil	S21-My54170				X									
45	S068 0.3-0.4	May 26, 2021		Soil	S21-My54171				X									
46	S069 0.4-0.5	May 26, 2021		Soil	S21-My54172				X									
47	S078 0-0.1	May 26, 2021		Soil	S21-My54173				X									
48	S078 0.3-0.4	May 26, 2021		Soil	S21-My54174				X									
49	S090 0.3-0.4	May 26, 2021		Soil	S21-My54175				X									
50	S091 0.3-0.4	May 26, 2021		Soil	S21-My54176				X									
51	S093 0.4-0.5	May 26, 2021		Soil	S21-My54177				X									
52	S093 0.9-1.0	May 26, 2021		Soil	S21-My54178				X									

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Melbourne Laboratory - NATA Site # 1254 & 14271												X			X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X												
Perth Laboratory - NATA Site # 23736																		
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External Laboratory																		
53	S093 1.9-2.0	May 26, 2021		Soil	S21-My54179				X									
54	S103 0-0.1	May 26, 2021		Soil	S21-My54180				X									
55	S103 0.4-0.6	May 26, 2021		Soil	S21-My54181				X									
56	S103 0.9-1.0	May 26, 2021		Soil	S21-My54182				X									
57	S103 1.9-2.0	May 26, 2021		Soil	S21-My54183				X									
58	S104 0.3-0.4	May 26, 2021		Soil	S21-My54184				X									
59	S105 0.3-0.4	May 26, 2021		Soil	S21-My54185				X									
60	S106 0.3-0.4	May 26, 2021		Soil	S21-My54186				X									
61	S107 0.3-0.4	May 26, 2021		Soil	S21-My54187				X									
62	S108 0.4-0.5	May 26, 2021		Soil	S21-My54188				X									
63	S108 1.9-2.0	May 26, 2021		Soil	S21-My54189				X									

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Melbourne Laboratory - NATA Site # 1254 & 14271												X			X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X												
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory - NATA Site # 25079																		
External Laboratory																		
64	S111 0-0.1	May 26, 2021		Soil	S21-My54190				X									
65	S111 0.9-1.0	May 26, 2021		Soil	S21-My54191				X									
66	S111 1.9-2.0	May 26, 2021		Soil	S21-My54192				X									
67	S112 0.3-0.4	May 26, 2021		Soil	S21-My54193				X									
68	S113 0.3-0.4	May 26, 2021		Soil	S21-My54194				X									
69	S114 0.3-0.4	May 26, 2021		Soil	S21-My54195				X									
70	S115 0.4-0.5	May 26, 2021		Soil	S21-My54196				X									
71	S116 0-0.1	May 26, 2021		Soil	S21-My54197				X									
72	S116 0.4-0.5	May 26, 2021		Soil	S21-My54198				X									
73	S116 0.9-1.0	May 26, 2021		Soil	S21-My54199				X									
74	S117 0-0.1	May 26, 2021		Soil	S21-My54200				X									

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Melbourne Laboratory - NATA Site # 1254 & 14271												X			X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X												
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory - NATA Site # 25079																		
External Laboratory																		
75	S117 0.4-0.5	May 26, 2021		Soil	S21-My54201				X									
76	S117 0.9-1.0	May 26, 2021		Soil	S21-My54202				X									
77	S118 0.4-0.5	May 26, 2021		Soil	S21-My54203				X									
78	S118 0.9-1.0	May 26, 2021		Soil	S21-My54204				X									
79	S118 1.9-2.0	May 26, 2021		Soil	S21-My54205				X									
80	S020 0-0.1	May 26, 2021		Soil	S21-My56261				X									
81	S020 0.3-0.4	May 26, 2021		Soil	S21-My56262				X									
82	S030 0-0.1	May 26, 2021		Soil	S21-My56263				X									
83	S030 0.4-0.5	May 26, 2021		Soil	S21-My56264				X									
84	S056 0-0.1	May 26, 2021		Soil	S21-My56265				X									
85	S056 0.3-0.4	May 26, 2021		Soil	S21-My56266				X									

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Melbourne Laboratory - NATA Site # 1254 & 14271												X			X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X												
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory - NATA Site # 25079																		
External Laboratory																		
86	Blank Sample	May 26, 2021		Soil	S21-My56267				X									
Test Counts						1	5	2	55	1	24	24	8	2	29	1	10	2

Internal Quality Control Review and Glossary

General

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

Holding Times

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

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

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

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

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

****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
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient

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.
5. 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 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 - 1999 NEPM Fractions							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
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	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
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	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.2			0.2	Pass	
Toxaphene	mg/kg	< 0.1			0.1	Pass	
Method Blank							
Acid Herbicides							
2.4-D	mg/kg	< 0.5			0.5	Pass	
2.4-DB	mg/kg	< 0.5			0.5	Pass	
2.4.5-T	mg/kg	< 0.5			0.5	Pass	
2.4.5-TP	mg/kg	< 0.5			0.5	Pass	
Actril (loxynil)	mg/kg	< 0.5			0.5	Pass	
Dicamba	mg/kg	< 0.5			0.5	Pass	
Dichlorprop	mg/kg	< 0.5			0.5	Pass	
Dinitro-o-cresol	mg/kg	< 0.5			0.5	Pass	
Dinoseb	mg/kg	< 0.5			0.5	Pass	
MCPA	mg/kg	< 0.5			0.5	Pass	
MCPB	mg/kg	< 0.5			0.5	Pass	
Mecoprop	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
Method Blank							
Conductivity (1:5 aqueous extract at 25°C as rec.)	uS/cm	< 10			10	Pass	
Method Blank							
Cation Exchange Capacity							
Cation Exchange Capacity	meq/100g	< 0.05			0.05	Pass	
Method Blank							
Volatile Organics							
1.1-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
1.1.1-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.1.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dibromoethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.3-Trichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.4-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
1.3-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.3.5-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.4-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
2-Butanone (MEK)	mg/kg	< 0.5			0.5	Pass	
2-Propanone (Acetone)	mg/kg	< 0.5			0.5	Pass	
4-Chlorotoluene	mg/kg	< 0.5			0.5	Pass	
4-Methyl-2-pentanone (MIBK)	mg/kg	< 0.5			0.5	Pass	
Allyl chloride	mg/kg	< 0.5			0.5	Pass	
Benzene	mg/kg	< 0.1			0.1	Pass	
Bromobenzene	mg/kg	< 0.5			0.5	Pass	
Bromochloromethane	mg/kg	< 0.5			0.5	Pass	
Bromodichloromethane	mg/kg	< 0.5			0.5	Pass	
Bromoform	mg/kg	< 0.5			0.5	Pass	
Bromomethane	mg/kg	< 0.5			0.5	Pass	
Carbon disulfide	mg/kg	< 0.5			0.5	Pass	
Carbon Tetrachloride	mg/kg	< 0.5			0.5	Pass	
Chlorobenzene	mg/kg	< 0.5			0.5	Pass	
Chloroethane	mg/kg	< 0.5			0.5	Pass	
Chloroform	mg/kg	< 0.5			0.5	Pass	
Chloromethane	mg/kg	< 0.5			0.5	Pass	
cis-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
cis-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Dibromochloromethane	mg/kg	< 0.5			0.5	Pass	
Dibromomethane	mg/kg	< 0.5			0.5	Pass	
Dichlorodifluoromethane	mg/kg	< 0.5			0.5	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
Iodomethane	mg/kg	< 0.5			0.5	Pass	
Isopropyl benzene (Cumene)	mg/kg	< 0.5			0.5	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
Methylene Chloride	mg/kg	< 0.5			0.5	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
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							
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	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	83			70-130	Pass	
TRH C10-C14	%	128			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
LCS - % Recovery							
BTEX							
Benzene	%	85			70-130	Pass	
Toluene	%	86			70-130	Pass	
Ethylbenzene	%	86			70-130	Pass	
m&p-Xylenes	%	94			70-130	Pass	
o-Xylene	%	95			70-130	Pass	
Xylenes - Total*	%	94			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	113			70-130	Pass	
TRH C6-C10	%	83			70-130	Pass	
TRH >C10-C16	%	125			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	100			70-130	Pass	
Acenaphthylene	%	103			70-130	Pass	
Anthracene	%	107			70-130	Pass	
Benz(a)anthracene	%	106			70-130	Pass	
Benzo(a)pyrene	%	102			70-130	Pass	
Benzo(b&j)fluoranthene	%	116			70-130	Pass	
Benzo(g.h.i)perylene	%	86			70-130	Pass	
Benzo(k)fluoranthene	%	101			70-130	Pass	
Chrysene	%	112			70-130	Pass	
Dibenz(a.h)anthracene	%	102			70-130	Pass	
Fluoranthene	%	113			70-130	Pass	
Fluorene	%	106			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	104			70-130	Pass	
Naphthalene	%	101			70-130	Pass	
Phenanthrene	%	118			70-130	Pass	
Pyrene	%	118			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	110			70-130	Pass	
4.4'-DDD	%	92			70-130	Pass	
4.4'-DDE	%	106			70-130	Pass	
4.4'-DDT	%	80			70-130	Pass	
a-BHC	%	87			70-130	Pass	
Aldrin	%	101			70-130	Pass	
b-BHC	%	88			70-130	Pass	
d-BHC	%	92			70-130	Pass	
Dieldrin	%	91			70-130	Pass	
Endosulfan I	%	94			70-130	Pass	
Endosulfan II	%	88			70-130	Pass	
Endosulfan sulphate	%	86			70-130	Pass	
Endrin	%	121			70-130	Pass	
Endrin aldehyde	%	98			70-130	Pass	
Endrin ketone	%	98			70-130	Pass	
g-BHC (Lindane)	%	88			70-130	Pass	
Heptachlor	%	91			70-130	Pass	
Heptachlor epoxide	%	100			70-130	Pass	
Hexachlorobenzene	%	102			70-130	Pass	
Methoxychlor	%	77			70-130	Pass	
LCS - % Recovery							

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Acid Herbicides							
2.4-D	%	82			70-130	Pass	
2.4.5-T	%	74			70-130	Pass	
2.4.5-TP	%	78			70-130	Pass	
Actril (loxynil)	%	90			70-130	Pass	
Dicamba	%	88			70-130	Pass	
Dichlorprop	%	70			70-130	Pass	
Dinitro-o-cresol	%	74			70-130	Pass	
Dinoseb	%	86			70-130	Pass	
Mecoprop	%	77			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	112			80-120	Pass	
Cadmium	%	107			80-120	Pass	
Chromium	%	112			80-120	Pass	
Copper	%	113			80-120	Pass	
Lead	%	108			80-120	Pass	
Mercury	%	108			80-120	Pass	
Nickel	%	113			80-120	Pass	
Zinc	%	111			80-120	Pass	
LCS - % Recovery							
Volatile Organics							
1.1-Dichloroethene	%	75			70-130	Pass	
1.1.1-Trichloroethane	%	88			70-130	Pass	
1.2-Dichlorobenzene	%	91			70-130	Pass	
1.2-Dichloroethane	%	94			70-130	Pass	
Benzene	%	88			70-130	Pass	
Ethylbenzene	%	90			70-130	Pass	
m&p-Xylenes	%	96			70-130	Pass	
o-Xylene	%	96			70-130	Pass	
Toluene	%	90			70-130	Pass	
Trichloroethene	%	92			70-130	Pass	
Xylenes - Total*	%	96			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1016	%	78			70-130	Pass	
Aroclor-1260	%	90			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 Fractions				Result 1					
TRH C6-C9	S21-Jn00764	NCP	%	124			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S21-Jn04444	NCP	%	70			70-130	Pass	
Toluene	S21-Jn00764	NCP	%	134			70-130	Fail	Q08
Ethylbenzene	S21-Jn04444	NCP	%	73			70-130	Pass	
m&p-Xylenes	S21-Jn04444	NCP	%	77			70-130	Pass	
o-Xylene	S21-Jn04444	NCP	%	81			70-130	Pass	
Xylenes - Total*	S21-Jn04444	NCP	%	79			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S21-Jn04444	NCP	%	84			70-130	Pass	
TRH C6-C10	S21-Jn00764	NCP	%	123			70-130	Pass	
Spike - % Recovery									

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S21-Jn03842	NCP	%	99			70-130	Pass	
Acenaphthylene	S21-Jn03842	NCP	%	84			70-130	Pass	
Anthracene	S21-Jn03842	NCP	%	82			70-130	Pass	
Benz(a)anthracene	S21-Jn03842	NCP	%	73			70-130	Pass	
Benzo(a)pyrene	S21-Jn03842	NCP	%	82			70-130	Pass	
Benzo(b&j)fluoranthene	S21-Jn03842	NCP	%	71			70-130	Pass	
Benzo(g.h.i)perylene	S21-Jn03842	NCP	%	80			70-130	Pass	
Benzo(k)fluoranthene	S21-Jn03842	NCP	%	89			70-130	Pass	
Chrysene	S21-Jn03842	NCP	%	82			70-130	Pass	
Dibenz(a.h)anthracene	S21-Jn03842	NCP	%	79			70-130	Pass	
Fluoranthene	S21-Jn03842	NCP	%	88			70-130	Pass	
Fluorene	S21-Jn03842	NCP	%	86			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S21-Jn03842	NCP	%	83			70-130	Pass	
Naphthalene	S21-Jn03842	NCP	%	100			70-130	Pass	
Phenanthrene	S21-Jn03842	NCP	%	88			70-130	Pass	
Pyrene	S21-Jn03842	NCP	%	90			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C10-C14	S21-My54132	CP	%	104			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH >C10-C16	S21-My54132	CP	%	101			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S21-My54146	CP	%	119			70-130	Pass	
4.4'-DDD	S21-My54146	CP	%	93			70-130	Pass	
4.4'-DDE	S21-My54146	CP	%	110			70-130	Pass	
4.4'-DDT	S21-My54146	CP	%	80			70-130	Pass	
a-BHC	S21-My54146	CP	%	88			70-130	Pass	
Aldrin	S21-My54146	CP	%	113			70-130	Pass	
b-BHC	S21-My54146	CP	%	84			70-130	Pass	
d-BHC	S21-My54146	CP	%	88			70-130	Pass	
Dieldrin	S21-My54146	CP	%	94			70-130	Pass	
Endosulfan I	S21-My54146	CP	%	83			70-130	Pass	
Endosulfan II	S21-My54146	CP	%	93			70-130	Pass	
Endosulfan sulphate	S21-My54146	CP	%	100			70-130	Pass	
Endrin aldehyde	S21-My54146	CP	%	100			70-130	Pass	
Endrin ketone	S21-My54146	CP	%	96			70-130	Pass	
g-BHC (Lindane)	S21-My54146	CP	%	90			70-130	Pass	
Heptachlor	S21-My54146	CP	%	99			70-130	Pass	
Heptachlor epoxide	S21-My54146	CP	%	108			70-130	Pass	
Hexachlorobenzene	S21-My54146	CP	%	107			70-130	Pass	
Methoxychlor	S21-My54146	CP	%	77			70-130	Pass	
Spike - % Recovery									
Acid Herbicides				Result 1					
Actril (loxynil)	S21-My54147	CP	%	97			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls				Result 1					
Aroclor-1016	S21-My47559	NCP	%	75			70-130	Pass	
Aroclor-1260	S21-My47559	NCP	%	125			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C10-C14	S21-My54155	CP	%	111			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH >C10-C16	S21-My54155	CP	%	107			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C10-C14	S21-Jn04422	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S21-Jn04422	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S21-Jn04422	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
TRH >C10-C16	S21-Jn04422	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S21-Jn04422	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S21-Jn04422	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S21-My54127	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S21-My54127	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S21-My54127	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S21-My54127	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S21-My54127	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S21-My54127	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S21-My54127	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S21-My54127	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S21-My54127	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S21-My54127	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S21-My54127	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S21-My54127	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S21-My54127	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S21-My54127	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S21-My54127	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S21-My54127	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S21-My54127	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S21-My54127	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S21-My54127	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S21-My54127	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-BHC	S21-My54127	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S21-My54127	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-BHC	S21-My54127	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-BHC	S21-My54127	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S21-My54127	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S21-My54127	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S21-My54127	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S21-My54127	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S21-My54127	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S21-My54127	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S21-My54127	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-BHC (Lindane)	S21-My54127	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S21-My54127	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S21-My54127	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S21-My54127	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S21-My54127	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	

Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S21-My54130	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S21-My54130	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S21-My54130	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S21-My54130	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S21-My54130	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S21-My54130	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S21-My54130	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S21-My54130	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S21-My54130	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S21-My54130	CP	mg/kg	3.2	10	110	30%	Fail	Q15
Cadmium	S21-My54130	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S21-My54130	CP	mg/kg	5.0	15	100	30%	Fail	Q15
Copper	S21-My54130	CP	mg/kg	8.3	24	96	30%	Fail	Q15
Lead	S21-My54130	CP	mg/kg	< 5	13	94	30%	Fail	Q15
Mercury	S21-My54130	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S21-My54130	CP	mg/kg	< 5	7.9	110	30%	Fail	Q15
Zinc	S21-My54130	CP	mg/kg	13	41	100	30%	Fail	Q15
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-My54135	CP	%	48	47	1.0	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Conductivity (1:5 aqueous extract at 25°C as rec.)	S21-My58886	NCP	uS/cm	240	300	21	30%	Pass	
pH (1:5 Aqueous extract at 25°C as rec.)	S21-Jn00826	NCP	pH Units	5.1	5.1	<1	30%	Pass	
Duplicate									
Cation Exchange Capacity				Result 1	Result 2	RPD			
Cation Exchange Capacity	M21-My55681	NCP	meq/100g	9.4	9.7	3.0	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Toxaphene	S21-My47322	NCP	mg/kg	< 10	< 10	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S21-My54145	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S21-My54145	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S21-My54145	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S21-My54145	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-BHC	S21-My54145	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S21-My54145	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-BHC	S21-My54145	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-BHC	S21-My54145	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S21-My54145	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S21-My54145	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S21-My54145	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S21-My54145	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S21-My54145	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S21-My54145	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S21-My54145	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	

Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
g-BHC (Lindane)	S21-My54145	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S21-My54145	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S21-My54145	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S21-My54145	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S21-My54145	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-My54145	CP	%	17	17	3.0	30%	Pass	
Duplicate									
Acid Herbicides				Result 1	Result 2	RPD			
2.4-D	S21-My54146	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4-DB	S21-My54146	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4.5-T	S21-My54146	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4.5-TP	S21-My54146	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Actril (loxynil)	S21-My54146	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dicamba	S21-My54146	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dichlorprop	S21-My54146	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dinitro-o-cresol	S21-My54146	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dinoseb	S21-My54146	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
MCPA	S21-My54146	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
MCPB	S21-My54146	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Mecoprop	S21-My54146	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S21-My54152	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S21-My54152	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S21-My54152	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S21-My54152	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S21-My54152	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S21-My54152	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S21-My54152	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S21-My54152	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S21-My54152	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S21-My54152	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S21-My54152	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S21-My54152	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S21-My54152	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S21-My54152	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S21-My54152	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S21-My54152	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S21-My54152	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S21-My54152	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S21-My54152	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S21-My54152	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-BHC	S21-My54152	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S21-My54152	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-BHC	S21-My54152	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-BHC	S21-My54152	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S21-My54152	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S21-My54152	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S21-My54152	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S21-My54152	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	

Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Endrin	S21-My54152	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S21-My54152	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S21-My54152	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-BHC (Lindane)	S21-My54152	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S21-My54152	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S21-My54152	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S21-My54152	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S21-My54152	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1-Dichloroethene	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1-Trichloroethane	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2-Trichloroethane	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dibromoethane	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichlorobenzene	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloroethane	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloropropane	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.3-Trichloropropane	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.4-Trimethylbenzene	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichlorobenzene	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichloropropane	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3.5-Trimethylbenzene	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.4-Dichlorobenzene	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Butanone (MEK)	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Propanone (Acetone)	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Chlorotoluene	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Allyl chloride	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromobenzene	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromochloromethane	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromodichloromethane	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromoform	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromomethane	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon disulfide	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon Tetrachloride	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chlorobenzene	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroethane	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroform	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloromethane	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.2-Dichloroethene	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.3-Dichloropropene	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromochloromethane	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromomethane	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dichlorodifluoromethane	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Iodomethane	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Isopropyl benzene (Cumene)	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Methylene Chloride	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Styrene	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Tetrachloroethene	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.2-Dichloroethene	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.3-Dichloropropene	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
Trichloroethene	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichlorofluoromethane	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Vinyl chloride	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-My54155	CP	%	13	13	7.0	30%	Pass	

Comments

Sample Integrity

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

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
Q08	The matrix spike recovery is outside of the recommended acceptance criteria. An acceptable recovery was obtained for the laboratory control sample indicating a sample matrix interference.
Q15	The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.

Authorised by:

John Nguyen	Analytical Services Manager
Andrew Sullivan	Senior Analyst-Organic (NSW)
Charl Du Preez	Senior Analyst-Inorganic (NSW)
Emily Rosenberg	Senior Analyst-Metal (VIC)
John Nguyen	Senior Analyst-Metal (NSW)
Jonathon Angell	Senior Analyst-Inorganic (QLD)
Joseph Edouard	Senior Analyst-Organic (VIC)
Roopesh Rangarajan	Senior Analyst-Volatile (NSW)
Scott Beddoes	Senior Analyst-Inorganic (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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Company	JBS & G Australia (NSW) P/L
Address	Level 1, 50 Margaret Street Sydney NSW 2000
Contact Name	Rohan Hammond
Phone no.	02 8245 0300
Special Directions	
Purchase Order	
Quote ID no.	

Project No.	60330
Project Name	Kemps Creek
Project Manager (PM / Level Code Sub-Grp)	Rohan Hammond
Facility Code	

Sampler(s)	Ryan Lill / Max Cutrone
Handed over by	Ryan Lill / Max Cutrone
Email for receipt	aujnicNSW@jbsg.com.au
Email for Results	rhammond@jbsg.com.au

Analyses (Where more than one sheet please select "more" or "Next" in SUITE code and tick suite box below)

No.	Client Sample ID	Sampled Date/Time dd/mm/yy hh:mm	Matrix Solid (S) Water (W)	JB2A	JB2	B7	8 heavy metals (as, cd, cu, cr, hg, ni, pb, zn)	TRHs/BTEXN	PAHs	VOCs	OCPs	Herbicides	PCBs	TCLP heavy metals	TCLP PAHs	Asbestos 500 mL	CEC	Clay %	PAHs (low levels)	Ammonia	Nitrite	Nitrate	pH	TSS	Asbestos	Hold
1	S003 0.0-0.1	27/05/21	Soil			X				X			X	X	X	X	X	X					X			
2	S003 0.4-0.5	27/05/21	Soil														X	X					X			
3	S004 0.0-0.1	27/05/21	Soil			X				X	X	X	X	X	X	X										
4	S004 0.4-0.5	27/05/21	Soil																							X
6	S005 0-0.1	27/05/21	Soil			X																				
6	S005 0.3-0.4	27/05/21	Soil			X										X										
7	S005 0.8-0.9	27/05/21	Soil			X																				
8	S005 1.2-1.3	27/05/21	Soil																							X
9	S006 0-0.1	27/05/21	Soil								X	X														
10	S006 0.3-0.4	27/05/21	Soil																							X
11	S007 0.0-0.1	27/05/21	Soil			X										X										
12	S007 0.3-0.4	27/05/21	Soil			X																				
13	S007 0.8-0.9	27/05/21	Soil																							X
14	S008 0.0-0.1	27/05/21	Soil																							X
15	S008 0.4-0.5	27/05/21	Soil			X										X										
16	S008 0.9-1.0	27/05/21	Soil																							X
17	S012 0-0.1	27/05/21	Soil													X										
18	S012 0.4-0.5	27/05/21	Soil			X										X										
19	S012 0.9-1.0	27/05/21	Soil													X										
20	S013 1.6-1.7	27/05/21	Soil																							X
21	S013 0-0.1	27/05/21	Soil								X	X														
22	S013 0.3-0.4	27/05/21	Soil																							X
23	S017 0-0.1	27/05/21	Soil																							X
24	S017 0.3-0.4	27/05/21	Soil																							X
25	S017 0.8-0.7	27/05/21	Soil																							X
26	S018 0-0.1	27/05/21	Soil																							X
27	S018 0.3-0.4	27/05/21	Soil																							X
28	S018 0.6-0.7	27/05/21	Soil																							X
29	S015 0-0.1	27/05/21	Soil			X										X										
30	S019 0.3-0.4	27/05/21	Soil																							X
31	S019 0.6-0.7	27/05/21	Soil																							X
32	S021 0-0.1	27/05/21	Soil																							X
33	S021 0.3-0.4	27/05/21	Soil																							X
34	S022 0-0.1	27/05/21	Soil																							X
35	S022 0.3-0.4	27/05/21	Soil																							X
36	S023 0-0.1	27/05/21	Soil																							X
37	S023 0.4-0.5	27/05/21	Soil																							X
38	S024 0-0.1	27/05/21	Soil																							X
39	S024 0.4-0.5	27/05/21	Soil			X										X										
40	S024 0.8-0.9	27/05/21	Soil													X										
41	S024 1.3-1.4	27/05/21	Soil																							X
42	S015 0-0.1	27/05/21	Soil																							X
43	S025 0.4-0.5	27/05/21	Soil																							X
44	S026 0-0.1	27/05/21	Soil																							X
45	S026 0.3-0.4	27/05/21	Soil																							X
46	S026 0.6-0.7	27/05/21	Soil																							X
47	S026 0.9-1.0	27/05/21	Soil																							X
48	S027 0-0.1	27/05/21	Soil																							X
49	S027 0.3-0.4	27/05/21	Soil																							X
50	S028 0-0.1	27/05/21	Soil			X										X										
51	S028 0.3-0.4	27/05/21	Soil																							X
52	S029 0-0.1	27/05/21	Soil			X										X										
53	S029 0.4-0.5	27/05/21	Soil																							X
54	S032 0-0.1	27/05/21	Soil			X										X										
55	S032 0.4-0.5	27/05/21	Soil																							X
56	S033 0-0.1	27/05/21	Soil			X										X										
57	S033 0.3-0.4	27/05/21	Soil																							X
58	S034 0-0.1	27/05/21	Soil			X										X										
59	S034 0.3-0.4	27/05/21	Soil																							X
60	S035 0-0.1	27/05/21	Soil																							X
61	S035 0.3-0.4	27/05/21	Soil																							X
62	S036 0-0.1	27/05/21	Soil			X																				
63	S036 0.4-0.5	27/05/21	Soil																							X

Container(s)		Ryan Lill / Max Cutrone
Handed over by		Ryan Lill / Max Cutrone
Email for receipt		aujnicNSW@jbsg.com.au
Email for Results		rhammond@jbsg.com.au

Container							Required Turnaround Time (TAT) Default will be 5-Sam if not ticked
250mL Plastic	350mL Plastic	125mL Plastic	200mL Amber Glass	40mL VOA Vial	500mL PFAS Bottle	Jar (Glass or HDPE)	Other (Asbestos ASB/BH, WA Bottles)
						1	1
						1	
						1	1
							1
						1	1
						1	1
						1	1
						1	
						1	1
							1
						1	1
						1	1
						1

| | | |

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Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Rohan Hammond
Project name:	KEMPS CREEK
Project ID:	60330
Turnaround time:	5 Day
Date/Time received	May 28, 2021 11:25 AM
Eurofins reference	799524

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 : 10.2 degrees Celsius.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
✓	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
X	Split sample sent to requested external lab.
X	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Jars not received: S019 0.6-0.7, S041 0-0.1, S043 0.3-0.4, S043 0.9-1.0, S043 2.5-2.6, S043 2.5-2.6. Bags not received: S006 0.3-0.4, S017 0.3-0.4, S018 0.3-0.4, S019 0.3-0.4, S036 0.4-0.5, S041 0-0.1, S080 0-0.1.

Contact

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

Ursula Long on phone : or by email: UrsulaLong@eurofins.com

Results will be delivered electronically via email to Rohan Hammond - rhammond@jbsg.com.au.

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IANZ # 1290

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

Project Name: KEMPS CREEK
Project ID: 60330

Order No.:
Report #: 799524
Phone: 02 8245 0300
Fax:

Received: May 28, 2021 11:25 AM
Due: Jun 4, 2021
Priority: 5 Day
Contact Name: Rohan Hammond

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Acid Herbicides	USA Leaching Procedure	Metals M8	Volatile Organics	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7
Melbourne Laboratory - NATA Site # 1254 & 14271														X				X	X	
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**															
1	S003 0.0-0.1	May 27, 2021		Soil	S21-Jn00478	X	X			X			X				X	X	X	X
2	S003 0.4-0.5	May 27, 2021		Soil	S21-Jn00479	X				X								X	X	
3	S004 0.0-0.1	May 27, 2021		Soil	S21-Jn00480		X					X	X	X			X	X		X
4	S005 0-0.1	May 27, 2021		Soil	S21-Jn00481													X		X
5	S005 0.3-0.4	May 27, 2021		Soil	S21-Jn00482		X											X		X
6	S005 0.8-0.9	May 27, 2021		Soil	S21-Jn00483													X		X
7	S006 0-0.1	May 27, 2021		Soil	S21-Jn00484							X		X				X		
8	S007 0.0-0.1	May 27, 2021		Soil	S21-Jn00485		X											X		X
9	S007 0.3-0.4	May 27, 2021		Soil	S21-Jn00486													X		X

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Company Name: JBS & G Australia (NSW) P/L
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Received: May 28, 2021 11:25 AM
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Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Acid Herbicides	USA Leaching Procedure	Metals M8	Volatile Organics	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7
Melbourne Laboratory - NATA Site # 1254 & 14271														X				X	X	
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
10	S008 0.4-0.5	May 27, 2021		Soil	S21-Jn00487		X											X		X
11	S012 0-0.1	May 27, 2021		Soil	S21-Jn00488		X													
12	S012 0.4-0.5	May 27, 2021		Soil	S21-Jn00489		X											X		X
13	S012 0.9-1.0	May 27, 2021		Soil	S21-Jn00490		X													
14	S013 0-0.1	May 27, 2021		Soil	S21-Jn00491							X		X				X		
15	S019 0-0.1	May 27, 2021		Soil	S21-Jn00492		X											X		X
16	S024 0.4-0.5	May 27, 2021		Soil	S21-Jn00493		X											X		X
17	S024 0.8-0.9	May 27, 2021		Soil	S21-Jn00494		X													
18	S028 0-0.1	May 27, 2021		Soil	S21-Jn00495		X											X		X
19	S029 0-0.1	May 27, 2021		Soil	S21-Jn00496		X											X		X
20	S032 0-0.1	May 27, 2021		Soil	S21-Jn00497		X											X		X

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Melbourne Laboratory - NATA Site # 1254 & 14271														X				X	X	
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
21	S033 0-0.1	May 27, 2021		Soil	S21-Jn00498		X											X		X
22	S034 0-0.1	May 27, 2021		Soil	S21-Jn00499		X											X		X
23	S036 0-0.1	May 27, 2021		Soil	S21-Jn00500													X		X
24	S038 0-0.1	May 27, 2021		Soil	S21-Jn00501		X											X		X
25	S041 0-0.1	May 27, 2021		Soil	S21-Jn00502													X		X
26	S042 0-0.1	May 27, 2021		Soil	S21-Jn00503													X		X
27	S043 0-0.1	May 27, 2021		Soil	S21-Jn00504													X		X
28	S051 0-0.1	May 27, 2021		Soil	S21-Jn00505							X		X				X		
29	S054 0.3-0.4	May 27, 2021		Soil	S21-Jn00506											X		X		
30	S061 0-0.1	May 27, 2021		Soil	S21-Jn00507											X		X		
31	S062 0-0.1	May 27, 2021		Soil	S21-Jn00508							X		X				X		

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Melbourne Laboratory - NATA Site # 1254 & 14271														X				X	X	
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
32	S069 0.3-0.4	May 27, 2021		Soil	S21-Jn00509											X		X		
33	S074 0-0.1	May 27, 2021		Soil	S21-Jn00510							X		X				X		
34	S079 0-0.1	May 27, 2021		Soil	S21-Jn00511											X		X		
35	S083 0-0.1	May 27, 2021		Soil	S21-Jn00512							X		X				X		
36	S088 0-0.1	May 27, 2021		Soil	S21-Jn00513		X											X		X
37	S089 0.9-1.0	May 27, 2021		Soil	S21-Jn00514		X											X		X
38	S127 0-0.1	May 27, 2021		Soil	S21-Jn00515							X		X				X		
39	S128 0.3-0.4	May 27, 2021		Soil	S21-Jn00516											X		X		
40	S129 0-0.1	May 27, 2021		Soil	S21-Jn00517							X		X				X		
41	S003 0.0-0.1	May 27, 2021		US Leachate	S21-Jn00518										X	X				
42	S004 0.0-0.1	May 27, 2021		US Leachate	S21-Jn00519										X	X				

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Project ID: 60330

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Fax:

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Priority: 5 Day
Contact Name: Rohan Hammond

Eurofins Analytical Services Manager : Ursula Long

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Melbourne Laboratory - NATA Site # 1254 & 14271														X				X	X	
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
43	S003 0.0-0.1	May 27, 2021		US Leachate	S21-Jn00520						X				X					
44	S004 0.0-0.1	May 27, 2021		US Leachate	S21-Jn00521						X				X					
45	S004 0.4-0.5	May 27, 2021		Soil	S21-Jn00522				X											
46	S005 1.2-1.3	May 27, 2021		Soil	S21-Jn00523				X											
47	S006 0.3-0.4	May 27, 2021		Soil	S21-Jn00524				X											
48	S007 0.8-0.9	May 27, 2021		Soil	S21-Jn00525				X											
49	S008 0.0-0.1	May 27, 2021		Soil	S21-Jn00526				X											
50	S008 0.9-1.0	May 27, 2021		Soil	S21-Jn00527				X											
51	S012 1.6-1.7	May 27, 2021		Soil	S21-Jn00528				X											
52	S013 0.3-0.4	May 27, 2021		Soil	S21-Jn00529				X											
53	S017 0-0.1	May 27, 2021		Soil	S21-Jn00530				X											

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Melbourne Laboratory - NATA Site # 1254 & 14271														X				X	X	
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
54	S017 0.3-0.4	May 27, 2021		Soil	S21-Jn00531				X											
55	S017 0.6-0.7	May 27, 2021		Soil	S21-Jn00532				X											
56	S018 0-0.1	May 27, 2021		Soil	S21-Jn00533				X											
57	S018 0.3-0.4	May 27, 2021		Soil	S21-Jn00534				X											
58	S018 0.6-0.7	May 27, 2021		Soil	S21-Jn00535				X											
59	S019 0.3-0.4	May 27, 2021		Soil	S21-Jn00536				X											
60	S019 0.6-0.7	May 27, 2021		Soil	S21-Jn00537			X												
61	S021 0-0.1	May 27, 2021		Soil	S21-Jn00538				X											
62	S021 0.3-0.4	May 27, 2021		Soil	S21-Jn00539				X											
63	S022 0-0.1	May 27, 2021		Soil	S21-Jn00540				X											
64	S022 0.3-0.4	May 27, 2021		Soil	S21-Jn00541				X											

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Melbourne Laboratory - NATA Site # 1254 & 14271														X				X	X	
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
65	S023 0-0.1	May 27, 2021		Soil	S21-Jn00542				X											
66	S023 0.4-0.5	May 27, 2021		Soil	S21-Jn00543				X											
67	S024 0-0.1	May 27, 2021		Soil	S21-Jn00544				X											
68	S024 1.3-1.4	May 27, 2021		Soil	S21-Jn00545				X											
69	S025 0-0.1	May 27, 2021		Soil	S21-Jn00546				X											
70	S025 0.4-0.5	May 27, 2021		Soil	S21-Jn00547				X											
71	S026 0-0.1	May 27, 2021		Soil	S21-Jn00548				X											
72	S026 0.3-0.4	May 27, 2021		Soil	S21-Jn00549				X											
73	S026 0.6-0.7	May 27, 2021		Soil	S21-Jn00550				X											
74	S026 0.9-1.0	May 27, 2021		Soil	S21-Jn00551				X											
75	S027 0-0.1	May 27, 2021		Soil	S21-Jn00552				X											

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Melbourne Laboratory - NATA Site # 1254 & 14271														X				X	X	
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
76	S027 0.3-0.4	May 27, 2021		Soil	S21-Jn00553				X											
77	S028 0.3-0.4	May 27, 2021		Soil	S21-Jn00554				X											
78	S029 0.4-0.5	May 27, 2021		Soil	S21-Jn00555				X											
79	S032 0.4-0.5	May 27, 2021		Soil	S21-Jn00556				X											
80	S033 0.3-0.4	May 27, 2021		Soil	S21-Jn00557				X											
81	S034 0.3-0.4	May 27, 2021		Soil	S21-Jn00558				X											
82	S035 0-0.1	May 27, 2021		Soil	S21-Jn00559				X											
83	S035 0.3-0.4	May 27, 2021		Soil	S21-Jn00560				X											
84	S036 0.4-0.5	May 27, 2021		Soil	S21-Jn00561				X											
85	S036 0.8-0.9	May 27, 2021		Soil	S21-Jn00562				X											
86	S037 0-0.1	May 27, 2021		Soil	S21-Jn00563				X											

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Melbourne Laboratory - NATA Site # 1254 & 14271														X				X	X	
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
87	S037 0.3-0.4	May 27, 2021		Soil	S21-Jn00564				X											
88	S038 0.3-0.4	May 27, 2021		Soil	S21-Jn00565				X											
89	S039 0-0.1	May 27, 2021		Soil	S21-Jn00566				X											
90	S039 0.3-0.4	May 27, 2021		Soil	S21-Jn00567				X											
91	S040 0-0.1	May 27, 2021		Soil	S21-Jn00568				X											
92	S040 0.3-0.4	May 27, 2021		Soil	S21-Jn00569				X											
93	S041 0.3-0.4	May 27, 2021		Soil	S21-Jn00570				X											
94	S041 0-0.1	May 27, 2021		Soil	S21-Jn00571			X												
95	S041 0.3-0.4	May 27, 2021		Soil	S21-Jn00572				X											
96	S042 0.3-0.4	May 27, 2021		Soil	S21-Jn00573				X											
97	S042 0.9-2.0	May 27, 2021		Soil	S21-Jn00574				X											

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Melbourne Laboratory - NATA Site # 1254 & 14271														X				X	X	
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
98	S042 1.9-2.0	May 27, 2021		Soil	S21-Jn00575				X											
99	S042 2.5-2.6	May 27, 2021		Soil	S21-Jn00576				X											
100	S043 0.3-0.4	May 27, 2021		Soil	S21-Jn00577			X												
101	S043 0.9-1.0	May 27, 2021		Soil	S21-Jn00578			X												
102	S043 1.9-2.0	May 27, 2021		Soil	S21-Jn00579				X											
103	S043 2.5-2.6	May 27, 2021		Soil	S21-Jn00580			X												
104	S050 0-0.1	May 27, 2021		Soil	S21-Jn00581				X											
105	S050 0.3-0.4	May 27, 2021		Soil	S21-Jn00582				X											
106	S050 0.9-1.0	May 27, 2021		Soil	S21-Jn00583				X											
107	S050 1.9-2.0	May 27, 2021		Soil	S21-Jn00584				X											
108	S051 0.3-0.4	May 27, 2021		Soil	S21-Jn00585				X											

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Melbourne Laboratory - NATA Site # 1254 & 14271														X				X	X	
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
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External Laboratory																				
109	S054 0-0.1	May 27, 2021		Soil	S21-Jn00586				X											
110	S057 0-0.1	May 27, 2021		Soil	S21-Jn00587				X											
111	S057 0.3-0.4	May 27, 2021		Soil	S21-Jn00588				X											
112	S058 0-0.1	May 27, 2021		Soil	S21-Jn00589				X											
113	S058 0.3-0.4	May 27, 2021		Soil	S21-Jn00590				X											
114	S061 0.3-0.4	May 27, 2021		Soil	S21-Jn00591				X											
115	S062 0.3-0.4	May 27, 2021		Soil	S21-Jn00592				X											
116	S065 0-0.1	May 27, 2021		Soil	S21-Jn00593				X											
117	S065 0.3-0.4	May 27, 2021		Soil	S21-Jn00594				X											
118	S066 0-0.1	May 27, 2021		Soil	S21-Jn00595				X											
119	S066 0.3-0.4	May 27, 2021		Soil	S21-Jn00596				X											

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
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Project Name: KEMPS CREEK
Project ID: 60330

Order No.:
Report #: 799524
Phone: 02 8245 0300
Fax:

Received: May 28, 2021 11:25 AM
Due: Jun 4, 2021
Priority: 5 Day
Contact Name: Rohan Hammond

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Acid Herbicides	USA Leaching Procedure	Metals M8	Volatile Organics	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7
Melbourne Laboratory - NATA Site # 1254 & 14271														X				X	X	
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
120	S069 0-0.1	May 27, 2021		Soil	S21-Jn00597				X											
121	S073 0-0.1	May 27, 2021		Soil	S21-Jn00598				X											
122	S073 0.3-0.4	May 27, 2021		Soil	S21-Jn00599			X												
123	S074 0.3-0.4	May 27, 2021		Soil	S21-Jn00600				X											
124	S077 0-0.1	May 27, 2021		Soil	S21-Jn00601				X											
125	S077 0.4-0.5	May 27, 2021		Soil	S21-Jn00602				X											
126	S078 0-0.1	May 27, 2021		Soil	S21-Jn00603				X											
127	S078 0.3-0.4	May 27, 2021		Soil	S21-Jn00604				X											
128	S079 0.3-0.4	May 27, 2021		Soil	S21-Jn00605				X											
129	S080 0-0.1	May 27, 2021		Soil	S21-Jn00606				X											
130	S080 0.3-0.4	May 27, 2021		Soil	S21-Jn00607				X											

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Melbourne Laboratory - NATA Site # 1254 & 14271														X				X	X	
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
131	S083 0.3-0.4	May 27, 2021		Soil	S21-Jn00608				X											
132	S088 0.3-0.4	May 27, 2021		Soil	S21-Jn00609				X											
133	S088 0.9-1.0	May 27, 2021		Soil	S21-Jn00610				X											
134	S088 1.9-2.0	May 27, 2021		Soil	S21-Jn00611				X											
135	S089 0-0.1	May 27, 2021		Soil	S21-Jn00612				X											
136	S089 0.3-0.4	May 27, 2021		Soil	S21-Jn00613				X											
137	S089 1.9-2.0	May 27, 2021		Soil	S21-Jn00614				X											
138	S127 0.3-0.4	May 27, 2021		Soil	S21-Jn00615				X											
139	S128 0-0.1	May 27, 2021		Soil	S21-Jn00616				X											
140	S129 0.3-0.4	May 27, 2021		Soil	S21-Jn00617				X											
141	S130 0-0.1	May 27, 2021		Soil	S21-Jn00618				X											

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Melbourne Laboratory - NATA Site # 1254 & 14271														X				X	X	
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
142	S130 0.4-0.5	May 27, 2021		Soil	S21-Jn00619				X											
143	Rin270521	May 27, 2021		Water	S21-Jn00620				X											
144	TRIP SPIKE	May 27, 2021		Water	S21-Jn00621				X											
145	TRIP BLANK	May 27, 2021		Water	S21-Jn00708				X											
Test Counts						2	19	6	95	2	2	9	2	9	4	7	2	37	2	23

Certificate of Analysis

Environment Testing

NATA Accredited
Accreditation Number 1261
Site Number 18217

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

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
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Attention:	Rohan Hammond
Report	799524-AID
Project Name	KEMPS CREEK
Project ID	60330
Received Date	May 28, 2021
Date Reported	Jun 08, 2021

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.*

Accredited for compliance with ISO/IEC 17025–Testing
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Project Name KEMPS CREEK
Project ID 60330
Date Sampled May 27, 2021
Report 799524-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
S003 0.0-0.1	21-Jn00478	May 27, 2021	Approximate Sample 827g 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.
S004 0.0-0.1	21-Jn00480	May 27, 2021	Approximate Sample 422g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
S005 0.3-0.4	21-Jn00482	May 27, 2021	Approximate Sample 650g Sample consisted of: Brown fine-grained clayey soil, bitumen and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
S007 0.0-0.1	21-Jn00485	May 27, 2021	Approximate Sample 716g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
S008 0.4-0.5	21-Jn00487	May 27, 2021	Approximate Sample 608g Sample consisted of: Brown fine-grained clayey soil, coal and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
S012 0-0.1	21-Jn00488	May 27, 2021	Approximate Sample 617g Sample consisted of: Brown fine-grained clayey soil, bitumen and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
S012 0.4-0.5	21-Jn00489	May 27, 2021	Approximate Sample 580g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
S012 0.9-1.0	21-Jn00490	May 27, 2021	Approximate Sample 423g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
S019 0-0.1	21-Jn00492	May 27, 2021	Approximate Sample 550g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
S024 0.4-0.5	21-Jn00493	May 27, 2021	Approximate Sample 543g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
S024 0.8-0.9	21-Jn00494	May 27, 2021	Approximate Sample 550g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
S028 0-0.1	21-Jn00495	May 27, 2021	Approximate Sample 586g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
S029 0-0.1	21-Jn00496	May 27, 2021	Approximate Sample 412g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
S032 0-0.1	21-Jn00497	May 27, 2021	Approximate Sample 834g Sample consisted of: Brown fine-grained clayey soil, brick, bitumen, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
S033 0-0.1	21-Jn00498	May 27, 2021	Approximate Sample 610g Sample consisted of: Brown fine-grained clayey soil, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
S034 0-0.1	21-Jn00499	May 27, 2021	Approximate Sample 834g Sample consisted of: Brown coarse-grained soil, bitumen, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
S038 0-0.1	21-Jn00501	May 27, 2021	Approximate Sample 678g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
S088 0-0.1	21-Jn00513	May 27, 2021	Approximate Sample 660g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
S089 0.9-1.0	21-Jn00514	May 27, 2021	Approximate Sample 530g Sample consisted of: Brown fine-grained clayey soil and rocks	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 is reported.

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

Description	Testing Site	Extracted	Holding Time
Asbestos - LTM-ASB-8020	Sydney	Jun 01, 2021	Indefinite

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Melbourne Laboratory - NATA Site # 1254 & 14271														X				X	X	
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**															
1	S003 0.0-0.1	May 27, 2021		Soil	S21-Jn00478	X	X			X			X				X	X	X	X
2	S003 0.4-0.5	May 27, 2021		Soil	S21-Jn00479	X				X								X	X	
3	S004 0.0-0.1	May 27, 2021		Soil	S21-Jn00480		X					X	X	X			X	X		X
4	S005 0-0.1	May 27, 2021		Soil	S21-Jn00481													X		X
5	S005 0.3-0.4	May 27, 2021		Soil	S21-Jn00482		X											X		X
6	S005 0.8-0.9	May 27, 2021		Soil	S21-Jn00483													X		X
7	S006 0-0.1	May 27, 2021		Soil	S21-Jn00484							X		X				X		
8	S007 0.0-0.1	May 27, 2021		Soil	S21-Jn00485		X											X		X
9	S007 0.3-0.4	May 27, 2021		Soil	S21-Jn00486													X		X

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Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
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10	S008 0.4-0.5	May 27, 2021		Soil	S21-Jn00487		X											X		X
11	S012 0-0.1	May 27, 2021		Soil	S21-Jn00488		X													
12	S012 0.4-0.5	May 27, 2021		Soil	S21-Jn00489		X											X		X
13	S012 0.9-1.0	May 27, 2021		Soil	S21-Jn00490		X													
14	S013 0-0.1	May 27, 2021		Soil	S21-Jn00491							X		X				X		
15	S019 0-0.1	May 27, 2021		Soil	S21-Jn00492		X											X		X
16	S024 0.4-0.5	May 27, 2021		Soil	S21-Jn00493		X											X		X
17	S024 0.8-0.9	May 27, 2021		Soil	S21-Jn00494		X													
18	S028 0-0.1	May 27, 2021		Soil	S21-Jn00495		X											X		X
19	S029 0-0.1	May 27, 2021		Soil	S21-Jn00496		X											X		X
20	S032 0-0.1	May 27, 2021		Soil	S21-Jn00497		X											X		X

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Melbourne Laboratory - NATA Site # 1254 & 14271														X				X	X	
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
21	S033 0-0.1	May 27, 2021		Soil	S21-Jn00498		X											X		X
22	S034 0-0.1	May 27, 2021		Soil	S21-Jn00499		X											X		X
23	S036 0-0.1	May 27, 2021		Soil	S21-Jn00500													X		X
24	S038 0-0.1	May 27, 2021		Soil	S21-Jn00501		X											X		X
25	S041 0-0.1	May 27, 2021		Soil	S21-Jn00502													X		X
26	S042 0-0.1	May 27, 2021		Soil	S21-Jn00503													X		X
27	S043 0-0.1	May 27, 2021		Soil	S21-Jn00504													X		X
28	S051 0-0.1	May 27, 2021		Soil	S21-Jn00505							X		X				X		
29	S054 0.3-0.4	May 27, 2021		Soil	S21-Jn00506											X		X		
30	S061 0-0.1	May 27, 2021		Soil	S21-Jn00507											X		X		
31	S062 0-0.1	May 27, 2021		Soil	S21-Jn00508							X		X				X		

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Contact Name: Rohan Hammond

Eurofins Analytical Services Manager : Ursula Long

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Melbourne Laboratory - NATA Site # 1254 & 14271														X				X	X	
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
32	S069 0.3-0.4	May 27, 2021		Soil	S21-Jn00509											X		X		
33	S074 0-0.1	May 27, 2021		Soil	S21-Jn00510							X		X				X		
34	S079 0-0.1	May 27, 2021		Soil	S21-Jn00511											X		X		
35	S083 0-0.1	May 27, 2021		Soil	S21-Jn00512							X		X				X		
36	S088 0-0.1	May 27, 2021		Soil	S21-Jn00513		X											X		X
37	S089 0.9-1.0	May 27, 2021		Soil	S21-Jn00514		X											X		X
38	S127 0-0.1	May 27, 2021		Soil	S21-Jn00515							X		X				X		
39	S128 0.3-0.4	May 27, 2021		Soil	S21-Jn00516											X		X		
40	S129 0-0.1	May 27, 2021		Soil	S21-Jn00517							X		X				X		
41	S003 0.0-0.1	May 27, 2021		US Leachate	S21-Jn00518										X	X				
42	S004 0.0-0.1	May 27, 2021		US Leachate	S21-Jn00519										X	X				

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Melbourne Laboratory - NATA Site # 1254 & 14271														X				X	X	
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
43	S003 0.0-0.1	May 27, 2021		US Leachate	S21-Jn00520						X				X					
44	S004 0.0-0.1	May 27, 2021		US Leachate	S21-Jn00521						X				X					
45	S004 0.4-0.5	May 27, 2021		Soil	S21-Jn00522				X											
46	S005 1.2-1.3	May 27, 2021		Soil	S21-Jn00523				X											
47	S006 0.3-0.4	May 27, 2021		Soil	S21-Jn00524				X											
48	S007 0.8-0.9	May 27, 2021		Soil	S21-Jn00525				X											
49	S008 0.0-0.1	May 27, 2021		Soil	S21-Jn00526				X											
50	S008 0.9-1.0	May 27, 2021		Soil	S21-Jn00527				X											
51	S012 1.6-1.7	May 27, 2021		Soil	S21-Jn00528				X											
52	S013 0.3-0.4	May 27, 2021		Soil	S21-Jn00529				X											
53	S017 0-0.1	May 27, 2021		Soil	S21-Jn00530				X											

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Melbourne Laboratory - NATA Site # 1254 & 14271														X				X	X	
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
54	S017 0.3-0.4	May 27, 2021		Soil	S21-Jn00531				X											
55	S017 0.6-0.7	May 27, 2021		Soil	S21-Jn00532				X											
56	S018 0-0.1	May 27, 2021		Soil	S21-Jn00533				X											
57	S018 0.3-0.4	May 27, 2021		Soil	S21-Jn00534				X											
58	S018 0.6-0.7	May 27, 2021		Soil	S21-Jn00535				X											
59	S019 0.3-0.4	May 27, 2021		Soil	S21-Jn00536				X											
60	S019 0.6-0.7	May 27, 2021		Soil	S21-Jn00537			X												
61	S021 0-0.1	May 27, 2021		Soil	S21-Jn00538				X											
62	S021 0.3-0.4	May 27, 2021		Soil	S21-Jn00539				X											
63	S022 0-0.1	May 27, 2021		Soil	S21-Jn00540				X											
64	S022 0.3-0.4	May 27, 2021		Soil	S21-Jn00541				X											

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Melbourne Laboratory - NATA Site # 1254 & 14271														X				X	X	
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
65	S023 0-0.1	May 27, 2021		Soil	S21-Jn00542				X											
66	S023 0.4-0.5	May 27, 2021		Soil	S21-Jn00543				X											
67	S024 0-0.1	May 27, 2021		Soil	S21-Jn00544				X											
68	S024 1.3-1.4	May 27, 2021		Soil	S21-Jn00545				X											
69	S025 0-0.1	May 27, 2021		Soil	S21-Jn00546				X											
70	S025 0.4-0.5	May 27, 2021		Soil	S21-Jn00547				X											
71	S026 0-0.1	May 27, 2021		Soil	S21-Jn00548				X											
72	S026 0.3-0.4	May 27, 2021		Soil	S21-Jn00549				X											
73	S026 0.6-0.7	May 27, 2021		Soil	S21-Jn00550				X											
74	S026 0.9-1.0	May 27, 2021		Soil	S21-Jn00551				X											
75	S027 0-0.1	May 27, 2021		Soil	S21-Jn00552				X											

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Melbourne Laboratory - NATA Site # 1254 & 14271														X				X	X	
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
76	S027 0.3-0.4	May 27, 2021		Soil	S21-Jn00553				X											
77	S028 0.3-0.4	May 27, 2021		Soil	S21-Jn00554				X											
78	S029 0.4-0.5	May 27, 2021		Soil	S21-Jn00555				X											
79	S032 0.4-0.5	May 27, 2021		Soil	S21-Jn00556				X											
80	S033 0.3-0.4	May 27, 2021		Soil	S21-Jn00557				X											
81	S034 0.3-0.4	May 27, 2021		Soil	S21-Jn00558				X											
82	S035 0-0.1	May 27, 2021		Soil	S21-Jn00559				X											
83	S035 0.3-0.4	May 27, 2021		Soil	S21-Jn00560				X											
84	S036 0.4-0.5	May 27, 2021		Soil	S21-Jn00561				X											
85	S036 0.8-0.9	May 27, 2021		Soil	S21-Jn00562				X											
86	S037 0-0.1	May 27, 2021		Soil	S21-Jn00563				X											

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Melbourne Laboratory - NATA Site # 1254 & 14271														X				X	X	
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
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External Laboratory																				
87	S037 0.3-0.4	May 27, 2021		Soil	S21-Jn00564				X											
88	S038 0.3-0.4	May 27, 2021		Soil	S21-Jn00565				X											
89	S039 0-0.1	May 27, 2021		Soil	S21-Jn00566				X											
90	S039 0.3-0.4	May 27, 2021		Soil	S21-Jn00567				X											
91	S040 0-0.1	May 27, 2021		Soil	S21-Jn00568				X											
92	S040 0.3-0.4	May 27, 2021		Soil	S21-Jn00569				X											
93	S041 0.3-0.4	May 27, 2021		Soil	S21-Jn00570				X											
94	S041 0-0.1	May 27, 2021		Soil	S21-Jn00571			X												
95	S041 0.3-0.4	May 27, 2021		Soil	S21-Jn00572				X											
96	S042 0.3-0.4	May 27, 2021		Soil	S21-Jn00573				X											
97	S042 0.9-2.0	May 27, 2021		Soil	S21-Jn00574				X											

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Melbourne Laboratory - NATA Site # 1254 & 14271														X				X	X	
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
98	S042 1.9-2.0	May 27, 2021		Soil	S21-Jn00575				X											
99	S042 2.5-2.6	May 27, 2021		Soil	S21-Jn00576				X											
100	S043 0.3-0.4	May 27, 2021		Soil	S21-Jn00577			X												
101	S043 0.9-1.0	May 27, 2021		Soil	S21-Jn00578			X												
102	S043 1.9-2.0	May 27, 2021		Soil	S21-Jn00579				X											
103	S043 2.5-2.6	May 27, 2021		Soil	S21-Jn00580			X												
104	S050 0-0.1	May 27, 2021		Soil	S21-Jn00581				X											
105	S050 0.3-0.4	May 27, 2021		Soil	S21-Jn00582				X											
106	S050 0.9-1.0	May 27, 2021		Soil	S21-Jn00583				X											
107	S050 1.9-2.0	May 27, 2021		Soil	S21-Jn00584				X											
108	S051 0.3-0.4	May 27, 2021		Soil	S21-Jn00585				X											

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

Project Name: KEMPS CREEK
Project ID: 60330

Order No.:
Report #: 799524
Phone: 02 8245 0300
Fax:

Received: May 28, 2021 11:25 AM
Due: Jun 4, 2021
Priority: 5 Day
Contact Name: Rohan Hammond

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Acid Herbicides	USA Leaching Procedure	Metals M8	Volatile Organics	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7
Melbourne Laboratory - NATA Site # 1254 & 14271														X				X	X	
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
109	S054 0-0.1	May 27, 2021		Soil	S21-Jn00586				X											
110	S057 0-0.1	May 27, 2021		Soil	S21-Jn00587				X											
111	S057 0.3-0.4	May 27, 2021		Soil	S21-Jn00588				X											
112	S058 0-0.1	May 27, 2021		Soil	S21-Jn00589				X											
113	S058 0.3-0.4	May 27, 2021		Soil	S21-Jn00590				X											
114	S061 0.3-0.4	May 27, 2021		Soil	S21-Jn00591				X											
115	S062 0.3-0.4	May 27, 2021		Soil	S21-Jn00592				X											
116	S065 0-0.1	May 27, 2021		Soil	S21-Jn00593				X											
117	S065 0.3-0.4	May 27, 2021		Soil	S21-Jn00594				X											
118	S066 0-0.1	May 27, 2021		Soil	S21-Jn00595				X											
119	S066 0.3-0.4	May 27, 2021		Soil	S21-Jn00596				X											

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Melbourne Laboratory - NATA Site # 1254 & 14271														X				X	X	
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
120	S069 0-0.1	May 27, 2021		Soil	S21-Jn00597				X											
121	S073 0-0.1	May 27, 2021		Soil	S21-Jn00598				X											
122	S073 0.3-0.4	May 27, 2021		Soil	S21-Jn00599			X												
123	S074 0.3-0.4	May 27, 2021		Soil	S21-Jn00600				X											
124	S077 0-0.1	May 27, 2021		Soil	S21-Jn00601				X											
125	S077 0.4-0.5	May 27, 2021		Soil	S21-Jn00602				X											
126	S078 0-0.1	May 27, 2021		Soil	S21-Jn00603				X											
127	S078 0.3-0.4	May 27, 2021		Soil	S21-Jn00604				X											
128	S079 0.3-0.4	May 27, 2021		Soil	S21-Jn00605				X											
129	S080 0-0.1	May 27, 2021		Soil	S21-Jn00606				X											
130	S080 0.3-0.4	May 27, 2021		Soil	S21-Jn00607				X											

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Melbourne Laboratory - NATA Site # 1254 & 14271														X				X	X	
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
131	S083 0.3-0.4	May 27, 2021		Soil	S21-Jn00608				X											
132	S088 0.3-0.4	May 27, 2021		Soil	S21-Jn00609				X											
133	S088 0.9-1.0	May 27, 2021		Soil	S21-Jn00610				X											
134	S088 1.9-2.0	May 27, 2021		Soil	S21-Jn00611				X											
135	S089 0-0.1	May 27, 2021		Soil	S21-Jn00612				X											
136	S089 0.3-0.4	May 27, 2021		Soil	S21-Jn00613				X											
137	S089 1.9-2.0	May 27, 2021		Soil	S21-Jn00614				X											
138	S127 0.3-0.4	May 27, 2021		Soil	S21-Jn00615				X											
139	S128 0-0.1	May 27, 2021		Soil	S21-Jn00616				X											
140	S129 0.3-0.4	May 27, 2021		Soil	S21-Jn00617				X											
141	S130 0-0.1	May 27, 2021		Soil	S21-Jn00618				X											

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Melbourne Laboratory - NATA Site # 1254 & 14271														X				X	X	
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
142	S130 0.4-0.5	May 27, 2021		Soil	S21-Jn00619				X											
143	Rin270521	May 27, 2021		Water	S21-Jn00620				X											
144	TRIP SPIKE	May 27, 2021		Water	S21-Jn00621				X											
145	TRIP BLANK	May 27, 2021		Water	S21-Jn00708				X											
Test Counts						2	19	6	95	2	2	9	2	9	4	7	2	37	2	23

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 basis	grams per kilogram
Filter loading:	fibres/100 graticule areas
Reported Concentration:	fibres/mL
Flowrate:	L/min

Terms

Dry	Sample is dried by heating prior to analysis
LOR	Limit of Reporting
COC	Chain of Custody
SRA	Sample Receipt Advice
ISO	International Standards Organisation
AS	Australian Standards
WA DOH	Reference document for the NEPM. Government of Western Australia, Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia (2009), including supporting document Recommended 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-asbestos matrix, typically presented in bonded and/or sound condition. For the purposes of the NEPM, ACM is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
AF	Asbestos Fines. Asbestos containing materials, including friable, weathered and bonded materials, able to pass a 7mm x 7mm sieve. Considered under the NEPM as equivalent to “non-bonded / friable”.
FA	Fibrous Asbestos. Asbestos containing materials in a friable and/or severely weathered condition. For the purposes of the NEPM, FA is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
Friable	Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory’s remit to assess degree of friability.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres in the matrix.

Comments

S21-Jn00480, Jn00490, Jn00496: Samples received were less than the nominal 500mL as recommended in Section 4.10 of the NEPM Schedule B1 - Guideline on Investigation Levels for Soil and Groundwater.

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
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.

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NATA Accredited
Accreditation Number 1261
Site Number 18217

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

Attention: **Rohan Hammond**

Report **799524-L**
Project name KEMPS CREEK
Project ID 60330
Received Date May 28, 2021

Client Sample ID			**S003 0.0-0.1**	**S004 0.0-0.1**	**S003 0.0-0.1**	**S004 0.0-0.1**
Sample Matrix			**US Leachate**	**US Leachate**	**US Leachate**	**US Leachate**
Eurofins Sample No.			**S21-Jn00518**	**S21-Jn00519**	**S21-Jn00520**	**S21-Jn00521**
Date Sampled			**May 27, 2021**	**May 27, 2021**	**May 27, 2021**	**May 27, 2021**
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	0.01	mg/L	< 0.01	< 0.01	-	-
Cadmium	0.005	mg/L	< 0.005	< 0.005	-	-
Chromium	0.05	mg/L	< 0.05	< 0.05	-	-
Copper	0.05	mg/L	< 0.05	< 0.05	-	-
Lead	0.01	mg/L	< 0.01	< 0.01	-	-
Mercury	0.001	mg/L	< 0.001	< 0.001	-	-
Nickel	0.01	mg/L	0.12	< 0.01	-	-
Zinc	0.05	mg/L	0.06	< 0.05	-	-
USA Leaching Procedure						
Leachate Fluid[C01]		comment	1.0	1.0	1.0	1.0
pH (initial)	0.1	pH Units	9.1	6.7	9.2	6.7
pH (off)	0.1	pH Units	5.3	5.1	5.2	5.0
pH (USA HCl addition)	0.1	pH Units	2.0	1.9	2.0	1.9
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.001	mg/L	-	-	< 0.001	< 0.001
Acenaphthylene	0.001	mg/L	-	-	< 0.001	< 0.001
Anthracene	0.001	mg/L	-	-	< 0.001	< 0.001
Benz(a)anthracene	0.001	mg/L	-	-	< 0.001	< 0.001
Benzo(a)pyrene	0.001	mg/L	-	-	< 0.001	< 0.001
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	-	-	< 0.001	< 0.001
Benzo(g.h.i)perylene	0.001	mg/L	-	-	< 0.001	< 0.001
Benzo(k)fluoranthene	0.001	mg/L	-	-	< 0.001	< 0.001
Chrysene	0.001	mg/L	-	-	< 0.001	< 0.001
Dibenz(a.h)anthracene	0.001	mg/L	-	-	< 0.001	< 0.001
Fluoranthene	0.001	mg/L	-	-	< 0.001	< 0.001
Fluorene	0.001	mg/L	-	-	< 0.001	< 0.001
Indeno(1.2.3-cd)pyrene	0.001	mg/L	-	-	< 0.001	< 0.001
Naphthalene	0.001	mg/L	-	-	< 0.001	< 0.001
Phenanthrene	0.001	mg/L	-	-	< 0.001	< 0.001
Pyrene	0.001	mg/L	-	-	< 0.001	< 0.001
Total PAH*	0.001	mg/L	-	-	< 0.001	< 0.001
2-Fluorobiphenyl (surr.)	1	%	-	-	81	82
p-Terphenyl-d14 (surr.)	1	%	-	-	INT	133

Sample History

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

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

Description	Testing Site	Extracted	Holding Time
Metals M8	Sydney	Jun 07, 2021	180 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Polycyclic Aromatic Hydrocarbons	Sydney	Jun 01, 2021	7 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
USA Leaching Procedure	Sydney	Jun 01, 2021	14 Days
- Method: LTM-GEN-7010 Leaching Procedure for Soils & Solid Wastes			

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Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**															
1	S003 0.0-0.1	May 27, 2021		Soil	S21-Jn00478	X	X			X			X				X	X	X	X
2	S003 0.4-0.5	May 27, 2021		Soil	S21-Jn00479	X				X								X	X	
3	S004 0.0-0.1	May 27, 2021		Soil	S21-Jn00480		X					X	X	X			X	X		X
4	S005 0-0.1	May 27, 2021		Soil	S21-Jn00481													X		X
5	S005 0.3-0.4	May 27, 2021		Soil	S21-Jn00482		X											X		X
6	S005 0.8-0.9	May 27, 2021		Soil	S21-Jn00483													X		X
7	S006 0-0.1	May 27, 2021		Soil	S21-Jn00484							X		X				X		
8	S007 0.0-0.1	May 27, 2021		Soil	S21-Jn00485		X											X		X
9	S007 0.3-0.4	May 27, 2021		Soil	S21-Jn00486													X		X

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Project Name: KEMPS CREEK
Project ID: 60330

Order No.:
Report #: 799524
Phone: 02 8245 0300
Fax:

Received: May 28, 2021 11:25 AM
Due: Jun 4, 2021
Priority: 5 Day
Contact Name: Rohan Hammond

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Acid Herbicides	USA Leaching Procedure	Metals M8	Volatile Organics	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7
Melbourne Laboratory - NATA Site # 1254 & 14271														X				X	X	
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
10	S008 0.4-0.5	May 27, 2021		Soil	S21-Jn00487		X											X		X
11	S012 0-0.1	May 27, 2021		Soil	S21-Jn00488		X													
12	S012 0.4-0.5	May 27, 2021		Soil	S21-Jn00489		X											X		X
13	S012 0.9-1.0	May 27, 2021		Soil	S21-Jn00490		X													
14	S013 0-0.1	May 27, 2021		Soil	S21-Jn00491							X		X				X		
15	S019 0-0.1	May 27, 2021		Soil	S21-Jn00492		X											X		X
16	S024 0.4-0.5	May 27, 2021		Soil	S21-Jn00493		X											X		X
17	S024 0.8-0.9	May 27, 2021		Soil	S21-Jn00494		X													
18	S028 0-0.1	May 27, 2021		Soil	S21-Jn00495		X											X		X
19	S029 0-0.1	May 27, 2021		Soil	S21-Jn00496		X											X		X
20	S032 0-0.1	May 27, 2021		Soil	S21-Jn00497		X											X		X

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Melbourne Laboratory - NATA Site # 1254 & 14271														X				X	X	
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
21	S033 0-0.1	May 27, 2021		Soil	S21-Jn00498		X											X		X
22	S034 0-0.1	May 27, 2021		Soil	S21-Jn00499		X											X		X
23	S036 0-0.1	May 27, 2021		Soil	S21-Jn00500													X		X
24	S038 0-0.1	May 27, 2021		Soil	S21-Jn00501		X											X		X
25	S041 0-0.1	May 27, 2021		Soil	S21-Jn00502													X		X
26	S042 0-0.1	May 27, 2021		Soil	S21-Jn00503													X		X
27	S043 0-0.1	May 27, 2021		Soil	S21-Jn00504													X		X
28	S051 0-0.1	May 27, 2021		Soil	S21-Jn00505							X		X				X		
29	S054 0.3-0.4	May 27, 2021		Soil	S21-Jn00506											X		X		
30	S061 0-0.1	May 27, 2021		Soil	S21-Jn00507											X		X		
31	S062 0-0.1	May 27, 2021		Soil	S21-Jn00508							X		X				X		

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Melbourne Laboratory - NATA Site # 1254 & 14271														X				X	X	
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
32	S069 0.3-0.4	May 27, 2021		Soil	S21-Jn00509											X		X		
33	S074 0-0.1	May 27, 2021		Soil	S21-Jn00510							X		X				X		
34	S079 0-0.1	May 27, 2021		Soil	S21-Jn00511											X		X		
35	S083 0-0.1	May 27, 2021		Soil	S21-Jn00512							X		X				X		
36	S088 0-0.1	May 27, 2021		Soil	S21-Jn00513		X											X		X
37	S089 0.9-1.0	May 27, 2021		Soil	S21-Jn00514		X											X		X
38	S127 0-0.1	May 27, 2021		Soil	S21-Jn00515							X		X				X		
39	S128 0.3-0.4	May 27, 2021		Soil	S21-Jn00516											X		X		
40	S129 0-0.1	May 27, 2021		Soil	S21-Jn00517							X		X				X		
41	S003 0.0-0.1	May 27, 2021		US Leachate	S21-Jn00518										X	X				
42	S004 0.0-0.1	May 27, 2021		US Leachate	S21-Jn00519										X	X				

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Melbourne Laboratory - NATA Site # 1254 & 14271														X				X	X	
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
43	S003 0.0-0.1	May 27, 2021		US Leachate	S21-Jn00520						X				X					
44	S004 0.0-0.1	May 27, 2021		US Leachate	S21-Jn00521						X				X					
45	S004 0.4-0.5	May 27, 2021		Soil	S21-Jn00522				X											
46	S005 1.2-1.3	May 27, 2021		Soil	S21-Jn00523				X											
47	S006 0.3-0.4	May 27, 2021		Soil	S21-Jn00524				X											
48	S007 0.8-0.9	May 27, 2021		Soil	S21-Jn00525				X											
49	S008 0.0-0.1	May 27, 2021		Soil	S21-Jn00526				X											
50	S008 0.9-1.0	May 27, 2021		Soil	S21-Jn00527				X											
51	S012 1.6-1.7	May 27, 2021		Soil	S21-Jn00528				X											
52	S013 0.3-0.4	May 27, 2021		Soil	S21-Jn00529				X											
53	S017 0-0.1	May 27, 2021		Soil	S21-Jn00530				X											

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Melbourne Laboratory - NATA Site # 1254 & 14271														X				X	X	
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
54	S017 0.3-0.4	May 27, 2021		Soil	S21-Jn00531				X											
55	S017 0.6-0.7	May 27, 2021		Soil	S21-Jn00532				X											
56	S018 0-0.1	May 27, 2021		Soil	S21-Jn00533				X											
57	S018 0.3-0.4	May 27, 2021		Soil	S21-Jn00534				X											
58	S018 0.6-0.7	May 27, 2021		Soil	S21-Jn00535				X											
59	S019 0.3-0.4	May 27, 2021		Soil	S21-Jn00536				X											
60	S019 0.6-0.7	May 27, 2021		Soil	S21-Jn00537			X												
61	S021 0-0.1	May 27, 2021		Soil	S21-Jn00538				X											
62	S021 0.3-0.4	May 27, 2021		Soil	S21-Jn00539				X											
63	S022 0-0.1	May 27, 2021		Soil	S21-Jn00540				X											
64	S022 0.3-0.4	May 27, 2021		Soil	S21-Jn00541				X											

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Melbourne Laboratory - NATA Site # 1254 & 14271														X				X	X	
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
65	S023 0-0.1	May 27, 2021		Soil	S21-Jn00542				X											
66	S023 0.4-0.5	May 27, 2021		Soil	S21-Jn00543				X											
67	S024 0-0.1	May 27, 2021		Soil	S21-Jn00544				X											
68	S024 1.3-1.4	May 27, 2021		Soil	S21-Jn00545				X											
69	S025 0-0.1	May 27, 2021		Soil	S21-Jn00546				X											
70	S025 0.4-0.5	May 27, 2021		Soil	S21-Jn00547				X											
71	S026 0-0.1	May 27, 2021		Soil	S21-Jn00548				X											
72	S026 0.3-0.4	May 27, 2021		Soil	S21-Jn00549				X											
73	S026 0.6-0.7	May 27, 2021		Soil	S21-Jn00550				X											
74	S026 0.9-1.0	May 27, 2021		Soil	S21-Jn00551				X											
75	S027 0-0.1	May 27, 2021		Soil	S21-Jn00552				X											

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Melbourne Laboratory - NATA Site # 1254 & 14271														X				X	X	
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
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External Laboratory																				
76	S027 0.3-0.4	May 27, 2021		Soil	S21-Jn00553				X											
77	S028 0.3-0.4	May 27, 2021		Soil	S21-Jn00554				X											
78	S029 0.4-0.5	May 27, 2021		Soil	S21-Jn00555				X											
79	S032 0.4-0.5	May 27, 2021		Soil	S21-Jn00556				X											
80	S033 0.3-0.4	May 27, 2021		Soil	S21-Jn00557				X											
81	S034 0.3-0.4	May 27, 2021		Soil	S21-Jn00558				X											
82	S035 0-0.1	May 27, 2021		Soil	S21-Jn00559				X											
83	S035 0.3-0.4	May 27, 2021		Soil	S21-Jn00560				X											
84	S036 0.4-0.5	May 27, 2021		Soil	S21-Jn00561				X											
85	S036 0.8-0.9	May 27, 2021		Soil	S21-Jn00562				X											
86	S037 0-0.1	May 27, 2021		Soil	S21-Jn00563				X											

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Melbourne Laboratory - NATA Site # 1254 & 14271														X				X	X	
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
87	S037 0.3-0.4	May 27, 2021		Soil	S21-Jn00564				X											
88	S038 0.3-0.4	May 27, 2021		Soil	S21-Jn00565				X											
89	S039 0-0.1	May 27, 2021		Soil	S21-Jn00566				X											
90	S039 0.3-0.4	May 27, 2021		Soil	S21-Jn00567				X											
91	S040 0-0.1	May 27, 2021		Soil	S21-Jn00568				X											
92	S040 0.3-0.4	May 27, 2021		Soil	S21-Jn00569				X											
93	S041 0.3-0.4	May 27, 2021		Soil	S21-Jn00570				X											
94	S041 0-0.1	May 27, 2021		Soil	S21-Jn00571			X												
95	S041 0.3-0.4	May 27, 2021		Soil	S21-Jn00572				X											
96	S042 0.3-0.4	May 27, 2021		Soil	S21-Jn00573				X											
97	S042 0.9-2.0	May 27, 2021		Soil	S21-Jn00574				X											

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Project ID: 60330

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Fax:

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Eurofins Analytical Services Manager : Ursula Long

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Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
98	S042 1.9-2.0	May 27, 2021		Soil	S21-Jn00575				X											
99	S042 2.5-2.6	May 27, 2021		Soil	S21-Jn00576				X											
100	S043 0.3-0.4	May 27, 2021		Soil	S21-Jn00577			X												
101	S043 0.9-1.0	May 27, 2021		Soil	S21-Jn00578			X												
102	S043 1.9-2.0	May 27, 2021		Soil	S21-Jn00579				X											
103	S043 2.5-2.6	May 27, 2021		Soil	S21-Jn00580			X												
104	S050 0-0.1	May 27, 2021		Soil	S21-Jn00581				X											
105	S050 0.3-0.4	May 27, 2021		Soil	S21-Jn00582				X											
106	S050 0.9-1.0	May 27, 2021		Soil	S21-Jn00583				X											
107	S050 1.9-2.0	May 27, 2021		Soil	S21-Jn00584				X											
108	S051 0.3-0.4	May 27, 2021		Soil	S21-Jn00585				X											

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Melbourne Laboratory - NATA Site # 1254 & 14271														X				X	X	
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
109	S054 0-0.1	May 27, 2021		Soil	S21-Jn00586				X											
110	S057 0-0.1	May 27, 2021		Soil	S21-Jn00587				X											
111	S057 0.3-0.4	May 27, 2021		Soil	S21-Jn00588				X											
112	S058 0-0.1	May 27, 2021		Soil	S21-Jn00589				X											
113	S058 0.3-0.4	May 27, 2021		Soil	S21-Jn00590				X											
114	S061 0.3-0.4	May 27, 2021		Soil	S21-Jn00591				X											
115	S062 0.3-0.4	May 27, 2021		Soil	S21-Jn00592				X											
116	S065 0-0.1	May 27, 2021		Soil	S21-Jn00593				X											
117	S065 0.3-0.4	May 27, 2021		Soil	S21-Jn00594				X											
118	S066 0-0.1	May 27, 2021		Soil	S21-Jn00595				X											
119	S066 0.3-0.4	May 27, 2021		Soil	S21-Jn00596				X											

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Melbourne Laboratory - NATA Site # 1254 & 14271														X				X	X	
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
120	S069 0-0.1	May 27, 2021		Soil	S21-Jn00597				X											
121	S073 0-0.1	May 27, 2021		Soil	S21-Jn00598				X											
122	S073 0.3-0.4	May 27, 2021		Soil	S21-Jn00599			X												
123	S074 0.3-0.4	May 27, 2021		Soil	S21-Jn00600				X											
124	S077 0-0.1	May 27, 2021		Soil	S21-Jn00601				X											
125	S077 0.4-0.5	May 27, 2021		Soil	S21-Jn00602				X											
126	S078 0-0.1	May 27, 2021		Soil	S21-Jn00603				X											
127	S078 0.3-0.4	May 27, 2021		Soil	S21-Jn00604				X											
128	S079 0.3-0.4	May 27, 2021		Soil	S21-Jn00605				X											
129	S080 0-0.1	May 27, 2021		Soil	S21-Jn00606				X											
130	S080 0.3-0.4	May 27, 2021		Soil	S21-Jn00607				X											

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Melbourne Laboratory - NATA Site # 1254 & 14271														X				X	X	
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
131	S083 0.3-0.4	May 27, 2021		Soil	S21-Jn00608				X											
132	S088 0.3-0.4	May 27, 2021		Soil	S21-Jn00609				X											
133	S088 0.9-1.0	May 27, 2021		Soil	S21-Jn00610				X											
134	S088 1.9-2.0	May 27, 2021		Soil	S21-Jn00611				X											
135	S089 0-0.1	May 27, 2021		Soil	S21-Jn00612				X											
136	S089 0.3-0.4	May 27, 2021		Soil	S21-Jn00613				X											
137	S089 1.9-2.0	May 27, 2021		Soil	S21-Jn00614				X											
138	S127 0.3-0.4	May 27, 2021		Soil	S21-Jn00615				X											
139	S128 0-0.1	May 27, 2021		Soil	S21-Jn00616				X											
140	S129 0.3-0.4	May 27, 2021		Soil	S21-Jn00617				X											
141	S130 0-0.1	May 27, 2021		Soil	S21-Jn00618				X											

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Melbourne Laboratory - NATA Site # 1254 & 14271														X				X	X	
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
142	S130 0.4-0.5	May 27, 2021		Soil	S21-Jn00619				X											
143	Rin270521	May 27, 2021		Water	S21-Jn00620				X											
144	TRIP SPIKE	May 27, 2021		Water	S21-Jn00621				X											
145	TRIP BLANK	May 27, 2021		Water	S21-Jn00708				X											
Test Counts						2	19	6	95	2	2	9	2	9	4	7	2	37	2	23

Internal Quality Control Review and Glossary

General

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

Holding Times

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

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

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

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

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

****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
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient

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.
5. 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 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							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/L	< 0.001			0.001	Pass	
Acenaphthylene	mg/L	< 0.001			0.001	Pass	
Anthracene	mg/L	< 0.001			0.001	Pass	
Benz(a)anthracene	mg/L	< 0.001			0.001	Pass	
Benzo(a)pyrene	mg/L	< 0.001			0.001	Pass	
Benzo(b&j)fluoranthene	mg/L	< 0.001			0.001	Pass	
Benzo(g.h.i)perylene	mg/L	< 0.001			0.001	Pass	
Benzo(k)fluoranthene	mg/L	< 0.001			0.001	Pass	
Chrysene	mg/L	< 0.001			0.001	Pass	
Dibenz(a.h)anthracene	mg/L	< 0.001			0.001	Pass	
Fluoranthene	mg/L	< 0.001			0.001	Pass	
Fluorene	mg/L	< 0.001			0.001	Pass	
Indeno(1.2.3-cd)pyrene	mg/L	< 0.001			0.001	Pass	
Naphthalene	mg/L	< 0.001			0.001	Pass	
Phenanthrene	mg/L	< 0.001			0.001	Pass	
Pyrene	mg/L	< 0.001			0.001	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	84			70-130	Pass	
Acenaphthylene	%	94			70-130	Pass	
Anthracene	%	126			70-130	Pass	
Benz(a)anthracene	%	120			70-130	Pass	
Benzo(a)pyrene	%	104			70-130	Pass	
Benzo(b&j)fluoranthene	%	124			70-130	Pass	
Benzo(g.h.i)perylene	%	122			70-130	Pass	
Benzo(k)fluoranthene	%	94			70-130	Pass	
Chrysene	%	85			70-130	Pass	
Dibenz(a.h)anthracene	%	130			70-130	Pass	
Fluoranthene	%	122			70-130	Pass	
Fluorene	%	103			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	115			70-130	Pass	
Naphthalene	%	71			70-130	Pass	
Phenanthrene	%	120			70-130	Pass	
Pyrene	%	112			70-130	Pass	

Comments

Sample Integrity

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

Qualifier Codes/Comments

Code	Description
C01	Leachate Fluid Key: 1 - pH 5.0; 2 - pH 2.9; 3 - pH 9.2; 4 - Reagent (DI) water; 5 - Client sample, 6 - other
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs

Authorised by:

John Nguyen	Analytical Services Manager
Andrew Sullivan	Senior Analyst-Organic (NSW)
John Nguyen	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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JBS & G Australia (NSW) P/L
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NSW 2000

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Attention: **Rohan Hammond**

Report **799524-S**
Project name KEMPS CREEK
Project ID 60330
Received Date May 28, 2021

Client Sample ID			**S003 0.0-0.1**	**S003 0.4-0.5**	**S004 0.0-0.1**	**S005 0-0.1**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**S21-Jn00478**	**S21-Jn00479**	**S21-Jn00480**	**S21-Jn00481**
Date Sampled			**May 27, 2021**	**May 27, 2021**	**May 27, 2021**	**May 27, 2021**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
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	< 50
TRH C29-C36	50	mg/kg	< 50	-	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	-	< 50	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	-	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	-	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	78	-	81	106
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	-

Client Sample ID			S003 0.0-0.1	S003 0.4-0.5	S004 0.0-0.1	S005 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Jn00478	S21-Jn00479	S21-Jn00480	S21-Jn00481
Date Sampled			May 27, 2021	May 27, 2021	May 27, 2021	May 27, 2021
Test/Reference	LOR	Unit				
Volatile Organics						
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	-
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	< 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	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	< 0.3	-	< 0.3	-
Total MAH*	0.5	mg/kg	< 0.5	-	< 0.5	-
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	%	78	-	81	-
Toluene-d8 (surr.)	1	%	86	-	90	-
Total Recoverable Hydrocarbons - 2013 NEPM 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	< 100	-	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	-	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	< 100	< 100

Client Sample ID			S003 0.0-0.1	S003 0.4-0.5	S004 0.0-0.1	S005 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Jn00478	S21-Jn00479	S21-Jn00480	S21-Jn00481
Date Sampled			May 27, 2021	May 27, 2021	May 27, 2021	May 27, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	1.2	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	-	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 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	-	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	85	-	98	68
p-Terphenyl-d14 (surr.)	1	%	111	-	109	82
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	< 0.5	-	< 0.5	-
Aroclor-1221	0.1	mg/kg	< 0.1	-	< 0.1	-
Aroclor-1232	0.5	mg/kg	< 0.5	-	< 0.5	-
Aroclor-1242	0.5	mg/kg	< 0.5	-	< 0.5	-
Aroclor-1248	0.5	mg/kg	< 0.5	-	< 0.5	-
Aroclor-1254	0.5	mg/kg	< 0.5	-	< 0.5	-
Aroclor-1260	0.5	mg/kg	< 0.5	-	< 0.5	-
Total PCB*	0.5	mg/kg	< 0.5	-	< 0.5	-
Dibutylchlorendate (surr.)	1	%	137	-	76	-
Tetrachloro-m-xylene (surr.)	1	%	99	-	118	-
% Clay	1	%	3.0	24	-	-
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	73	120	-	-
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	8.5	5.9	-	-
% Moisture	1	%	8.0	20	18	17
Heavy Metals						
Arsenic	2	mg/kg	< 2	-	2.2	7.5
Cadmium	0.4	mg/kg	< 0.4	-	< 0.4	< 0.4
Chromium	5	mg/kg	44	-	< 5	11
Copper	5	mg/kg	29	-	12	12
Lead	5	mg/kg	< 5	-	8.9	15
Mercury	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Nickel	5	mg/kg	75	-	< 5	7.9
Zinc	5	mg/kg	46	-	9.2	28
Cation Exchange Capacity						
Cation Exchange Capacity	0.05	meq/100g	25	16	-	-

Client Sample ID			S003 0.0-0.1	S003 0.4-0.5	S004 0.0-0.1	S005 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Jn00478	S21-Jn00479	S21-Jn00480	S21-Jn00481
Date Sampled			May 27, 2021	May 27, 2021	May 27, 2021	May 27, 2021
Test/Reference	LOR	Unit				
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	0.1	mg/kg	-	-	< 0.1	-
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	%	-	-	76	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	118	-
Acid Herbicides						
2.4-D	0.5	mg/kg	-	-	< 0.5	-
2.4-DB	0.5	mg/kg	-	-	< 0.5	-
2.4.5-T	0.5	mg/kg	-	-	< 0.5	-
2.4.5-TP	0.5	mg/kg	-	-	< 0.5	-
Actril (loxynil)	0.5	mg/kg	-	-	< 0.5	-
Dicamba	0.5	mg/kg	-	-	< 0.5	-
Dichlorprop	0.5	mg/kg	-	-	< 0.5	-
Dinitro-o-cresol	0.5	mg/kg	-	-	< 0.5	-
Dinoseb	0.5	mg/kg	-	-	< 0.5	-
MCPA	0.5	mg/kg	-	-	< 0.5	-
MCPB	0.5	mg/kg	-	-	< 0.5	-
Mecoprop	0.5	mg/kg	-	-	< 0.5	-
Warfarin (surr.)	1	%	-	-	107	-

Client Sample ID			S005 0.3-0.4	S005 0.8-0.9	S006 0-0.1	S007 0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Jn00482	S21-Jn00483	S21-Jn00484	S21-Jn00485
Date Sampled			May 27, 2021	May 27, 2021	May 27, 2021	May 27, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
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	-	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	-	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	-	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	108	107	-	116
Total Recoverable Hydrocarbons - 2013 NEPM 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	< 100	< 100	-	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	-	< 100
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	-	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	< 0.5	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 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	< 0.5	-	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
2-Fluorobiphenyl (surr.)	1	%	78	75	-	75
p-Terphenyl-d14 (surr.)	1	%	91	91	-	91
% Moisture	1	%	16	17	26	12

Client Sample ID			S005 0.3-0.4	S005 0.8-0.9	S006 0-0.1	S007 0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Jn00482	S21-Jn00483	S21-Jn00484	S21-Jn00485
Date Sampled			May 27, 2021	May 27, 2021	May 27, 2021	May 27, 2021
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	4.7	< 2	-	9.2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	-	< 0.4
Chromium	5	mg/kg	7.6	< 5	-	25
Copper	5	mg/kg	13	5.2	-	< 5
Lead	5	mg/kg	14	5.4	-	12
Mercury	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Nickel	5	mg/kg	6.3	5.1	-	< 5
Zinc	5	mg/kg	42	15	-	8.4
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	0.1	mg/kg	-	-	< 0.1	-
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	%	-	-		-
Tetrachloro-m-xylene (surr.)	1	%	-	-	91	-
Acid Herbicides						
2.4-D	0.5	mg/kg	-	-	< 0.5	-
2.4-DB	0.5	mg/kg	-	-	< 0.5	-
2.4.5-T	0.5	mg/kg	-	-	< 0.5	-
2.4.5-TP	0.5	mg/kg	-	-	< 0.5	-
Actril (loxynil)	0.5	mg/kg	-	-	< 0.5	-
Dicamba	0.5	mg/kg	-	-	< 0.5	-
Dichlorprop	0.5	mg/kg	-	-	< 0.5	-
Dinitro-o-cresol	0.5	mg/kg	-	-	< 0.5	-
Dinoseb	0.5	mg/kg	-	-	< 0.5	-
MCPA	0.5	mg/kg	-	-	< 0.5	-
MCPB	0.5	mg/kg	-	-	< 0.5	-
Mecoprop	0.5	mg/kg	-	-	< 0.5	-
Warfarin (surr.)	1	%	-	-	107	-

Client Sample ID			S007 0.3-0.4	S008 0.4-0.5	S012 0.4-0.5	S013 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Jn00486	S21-Jn00487	S21-Jn00489	S21-Jn00491
Date Sampled			May 27, 2021	May 27, 2021	May 27, 2021	May 27, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
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	< 50	-
TRH C29-C36	50	mg/kg	51	< 50	< 50	-
TRH C10-C36 (Total)	50	mg/kg	51	< 50	< 50	-
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	102	108	100	-
Total Recoverable Hydrocarbons - 2013 NEPM 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	< 100	< 100	< 100	-
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	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	< 0.5	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 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	1.3	< 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	0.9	< 0.5	-
Pyrene	0.5	mg/kg	< 0.5	1.1	< 0.5	-
Total PAH*	0.5	mg/kg	< 0.5	3.3	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	86	87	72	-
p-Terphenyl-d14 (surr.)	1	%	97	92	78	-
% Moisture	1	%	13	14	19	24

Client Sample ID			S007 0.3-0.4	S008 0.4-0.5	S012 0.4-0.5	S013 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Jn00486	S21-Jn00487	S21-Jn00489	S21-Jn00491
Date Sampled			May 27, 2021	May 27, 2021	May 27, 2021	May 27, 2021
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	13	10	13	-
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	-
Chromium	5	mg/kg	35	20	22	-
Copper	5	mg/kg	5.7	21	24	-
Lead	5	mg/kg	14	25	28	-
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Nickel	5	mg/kg	< 5	14	12	-
Zinc	5	mg/kg	19	39	45	-
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	0.1	mg/kg	-	-	-	< 0.1
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	%	-	-	-	
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	88
Acid Herbicides						
2.4-D	0.5	mg/kg	-	-	-	< 0.5
2.4-DB	0.5	mg/kg	-	-	-	< 0.5
2.4.5-T	0.5	mg/kg	-	-	-	< 0.5
2.4.5-TP	0.5	mg/kg	-	-	-	< 0.5
Actril (loxynil)	0.5	mg/kg	-	-	-	< 0.5
Dicamba	0.5	mg/kg	-	-	-	< 0.5
Dichlorprop	0.5	mg/kg	-	-	-	< 0.5
Dinitro-o-cresol	0.5	mg/kg	-	-	-	< 0.5
Dinoseb	0.5	mg/kg	-	-	-	< 0.5
MCPA	0.5	mg/kg	-	-	-	< 0.5
MCPB	0.5	mg/kg	-	-	-	< 0.5
Mecoprop	0.5	mg/kg	-	-	-	< 0.5
Warfarin (surr.)	1	%	-	-	-	107

Client Sample ID			S019 0-0.1	S024 0.4-0.5	S028 0-0.1	S029 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Jn00492	S21-Jn00493	S21-Jn00495	S21-Jn00496
Date Sampled			May 27, 2021	May 27, 2021	May 27, 2021	May 27, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	103	106	90	117
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
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	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	89	78	88	87
p-Terphenyl-d14 (surr.)	1	%	100	84	127	123
% Moisture	1	%	19	9.0	13	20

Client Sample ID			S019 0-0.1	S024 0.4-0.5	S028 0-0.1	S029 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Jn00492	S21-Jn00493	S21-Jn00495	S21-Jn00496
Date Sampled			May 27, 2021	May 27, 2021	May 27, 2021	May 27, 2021
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	10	6.0	4.5	10
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	12	8.7	8.5	18
Copper	5	mg/kg	9.9	16	14	20
Lead	5	mg/kg	13	9.8	15	16
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	5.5	7.9	7.0	12
Zinc	5	mg/kg	31	41	32	57

Client Sample ID			S032 0-0.1	S033 0-0.1	S034 0-0.1	S036 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Jn00497	S21-Jn00498	S21-Jn00499	S21-Jn00500
Date Sampled			May 27, 2021	May 27, 2021	May 27, 2021	May 27, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	56	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	57	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	113	< 50	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	106	99	116	103
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
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	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			S032 0-0.1	S033 0-0.1	S034 0-0.1	S036 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Jn00497	S21-Jn00498	S21-Jn00499	S21-Jn00500
Date Sampled			May 27, 2021	May 27, 2021	May 27, 2021	May 27, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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	0.7	< 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	0.7	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	1.4	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	78	87	99	97
p-Terphenyl-d14 (surr.)	1	%	88	108	99	80
% Moisture	1	%	7.1	9.0	8.3	14
Heavy Metals						
Arsenic	2	mg/kg	2.0	3.3	3.2	9.9
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	6.1	17	14	11
Copper	5	mg/kg	9.0	15	22	13
Lead	5	mg/kg	58	32	31	12
Mercury	0.1	mg/kg	0.2	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	10.0	15	12	6.3
Zinc	5	mg/kg	49	62	61	26

Client Sample ID			S038 0-0.1	S041 0-0.1	S042 0-0.1	S043 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Jn00501	S21-Jn00502	S21-Jn00503	S21-Jn00504
Date Sampled			May 27, 2021	May 27, 2021	May 27, 2021	May 27, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	108	100	100	109
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
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	< 50	< 50	< 50	< 50

Client Sample ID			S038 0-0.1	S041 0-0.1	S042 0-0.1	S043 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Jn00501	S21-Jn00502	S21-Jn00503	S21-Jn00504
Date Sampled			May 27, 2021	May 27, 2021	May 27, 2021	May 27, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	95	131	122	106
p-Terphenyl-d14 (surr.)	1	%	97	99	84	79
% Moisture	1	%	22	14	16	13
Heavy Metals						
Arsenic	2	mg/kg	5.1	12	9.4	10
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	13	9.0	18	14
Copper	5	mg/kg	17	10	44	31
Lead	5	mg/kg	11	13	44	22
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	7.6	7.2	15	16
Zinc	5	mg/kg	35	23	75	69

Client Sample ID			S051 0-0.1	S054 0.3-0.4	S061 0-0.1	S062 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Jn00505	S21-Jn00506	S21-Jn00507	S21-Jn00508
Date Sampled			May 27, 2021	May 27, 2021	May 27, 2021	May 27, 2021
Test/Reference	LOR	Unit				
% Moisture	1	%	18	21	14	17
Heavy Metals						
Arsenic	2	mg/kg	-	9.9	12	-
Cadmium	0.4	mg/kg	-	< 0.4	< 0.4	-
Chromium	5	mg/kg	-	12	11	-
Copper	5	mg/kg	-	21	14	-
Lead	5	mg/kg	-	13	12	-
Mercury	0.1	mg/kg	-	< 0.1	< 0.1	-
Nickel	5	mg/kg	-	7.4	5.1	-
Zinc	5	mg/kg	-	37	43	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	-	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	-	-	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	-	-	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	-	-	< 0.05
a-BHC	0.05	mg/kg	< 0.05	-	-	< 0.05
Aldrin	0.05	mg/kg	< 0.05	-	-	< 0.05
b-BHC	0.05	mg/kg	< 0.05	-	-	< 0.05
d-BHC	0.05	mg/kg	< 0.05	-	-	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	-	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	-	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	-	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	-	< 0.05
Methoxychlor	0.2	mg/kg	< 0.2	-	-	< 0.2
Toxaphene	0.1	mg/kg	< 0.1	-	-	< 0.1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.2	-	-	< 0.2
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.2	-	-	< 0.2
Dibutylchlorendate (surr.)	1	%	76	-	-	96
Tetrachloro-m-xylene (surr.)	1	%	89	-	-	95
Acid Herbicides						
2.4-D	0.5	mg/kg	< 0.5	-	-	< 0.5
2.4-DB	0.5	mg/kg	< 0.5	-	-	< 0.5
2.4.5-T	0.5	mg/kg	< 0.5	-	-	< 0.5
2.4.5-TP	0.5	mg/kg	< 0.5	-	-	< 0.5
Actril (loxynil)	0.5	mg/kg	< 0.5	-	-	< 0.5
Dicamba	0.5	mg/kg	< 0.5	-	-	< 0.5
Dichlorprop	0.5	mg/kg	< 0.5	-	-	< 0.5
Dinitro-o-cresol	0.5	mg/kg	< 0.5	-	-	< 0.5
Dinoseb	0.5	mg/kg	< 0.5	-	-	< 0.5
MCPA	0.5	mg/kg	< 0.5	-	-	< 0.5

Client Sample ID			S051 0-0.1	S054 0.3-0.4	S061 0-0.1	S062 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Jn00505	S21-Jn00506	S21-Jn00507	S21-Jn00508
Date Sampled			May 27, 2021	May 27, 2021	May 27, 2021	May 27, 2021
Test/Reference	LOR	Unit				
Acid Herbicides						
MCPB	0.5	mg/kg	< 0.5	-	-	< 0.5
Mecoprop	0.5	mg/kg	< 0.5	-	-	< 0.5
Warfarin (surr.)	1	%	112	-	-	111

Client Sample ID			S069 0.3-0.4	S074 0-0.1	S079 0-0.1	S083 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Jn00509	S21-Jn00510	S21-Jn00511	S21-Jn00512
Date Sampled			May 27, 2021	May 27, 2021	May 27, 2021	May 27, 2021
Test/Reference	LOR	Unit				
% Moisture	1	%	19	18	19	15
Heavy Metals						
Arsenic	2	mg/kg	9.0	-	16	-
Cadmium	0.4	mg/kg	< 0.4	-	< 0.4	-
Chromium	5	mg/kg	13	-	19	-
Copper	5	mg/kg	20	-	11	-
Lead	5	mg/kg	16	-	22	-
Mercury	0.1	mg/kg	< 0.1	-	< 0.1	-
Nickel	5	mg/kg	9.2	-	7.7	-
Zinc	5	mg/kg	38	-	27	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	< 0.1
4.4'-DDD	0.05	mg/kg	-	< 0.05	-	< 0.05
4.4'-DDE	0.05	mg/kg	-	< 0.05	-	0.11
4.4'-DDT	0.05	mg/kg	-	< 0.05	-	< 0.05
a-BHC	0.05	mg/kg	-	< 0.05	-	< 0.05
Aldrin	0.05	mg/kg	-	< 0.05	-	< 0.05
b-BHC	0.05	mg/kg	-	< 0.05	-	< 0.05
d-BHC	0.05	mg/kg	-	< 0.05	-	< 0.05
Dieldrin	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan I	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan II	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin ketone	0.05	mg/kg	-	< 0.05	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	-	< 0.05	-	< 0.05
Heptachlor	0.05	mg/kg	-	< 0.05	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	< 0.05
Methoxychlor	0.2	mg/kg	-	< 0.2	-	< 0.2
Toxaphene	0.1	mg/kg	-	< 0.1	-	< 0.1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	0.11
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.2	-	< 0.2
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.2	-	< 0.2
Dibutylchlorendate (surr.)	1	%	-	106	-	101
Tetrachloro-m-xylene (surr.)	1	%	-	112	-	104

Client Sample ID			S069 0.3-0.4	S074 0-0.1	S079 0-0.1	S083 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Jn00509	S21-Jn00510	S21-Jn00511	S21-Jn00512
Date Sampled			May 27, 2021	May 27, 2021	May 27, 2021	May 27, 2021
Test/Reference	LOR	Unit				
Acid Herbicides						
2.4-D	0.5	mg/kg	-	< 0.5	-	< 0.5
2.4-DB	0.5	mg/kg	-	< 0.5	-	< 0.5
2.4.5-T	0.5	mg/kg	-	< 0.5	-	< 0.5
2.4.5-TP	0.5	mg/kg	-	< 0.5	-	< 0.5
Actril (loxynil)	0.5	mg/kg	-	< 0.5	-	< 0.5
Dicamba	0.5	mg/kg	-	< 0.5	-	< 0.5
Dichlorprop	0.5	mg/kg	-	< 0.5	-	< 0.5
Dinitro-o-cresol	0.5	mg/kg	-	< 0.5	-	< 0.5
Dinoseb	0.5	mg/kg	-	< 0.5	-	< 0.5
MCPA	0.5	mg/kg	-	< 0.5	-	< 0.5
MCPB	0.5	mg/kg	-	< 0.5	-	< 0.5
Mecoprop	0.5	mg/kg	-	< 0.5	-	< 0.5
Warfarin (surr.)	1	%	-	104	-	100

Client Sample ID			S088 0-0.1	S089 0.9-1.0	S127 0-0.1	S128 0.3-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Jn00513	S21-Jn00514	S21-Jn00515	S21-Jn00516
Date Sampled			May 27, 2021	May 27, 2021	May 27, 2021	May 27, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	-	-
TRH C10-C14	20	mg/kg	< 20	< 20	-	-
TRH C15-C28	50	mg/kg	< 50	< 50	-	-
TRH C29-C36	50	mg/kg	< 50	< 50	-	-
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	-	-
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	-	-
Toluene	0.1	mg/kg	< 0.1	< 0.1	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	-	-
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	-	-
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	-	-
4-Bromofluorobenzene (surr.)	1	%	100	95	-	-
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	< 50	< 50	-	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	-	-
TRH >C16-C34	100	mg/kg	< 100	< 100	-	-
TRH >C34-C40	100	mg/kg	< 100	< 100	-	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	-	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	-	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	-	-
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	-	-
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	-	-

Client Sample ID			S088 0-0.1	S089 0.9-1.0	S127 0-0.1	S128 0.3-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Jn00513	S21-Jn00514	S21-Jn00515	S21-Jn00516
Date Sampled			May 27, 2021	May 27, 2021	May 27, 2021	May 27, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Anthracene	0.5	mg/kg	< 0.5	< 0.5	-	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	-
Chrysene	0.5	mg/kg	< 0.5	< 0.5	-	-
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	-
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	-
Fluorene	0.5	mg/kg	< 0.5	< 0.5	-	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	-
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	-	-
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	-	-
Pyrene	0.5	mg/kg	< 0.5	< 0.5	-	-
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	-	-
2-Fluorobiphenyl (surr.)	1	%	97	98	-	-
p-Terphenyl-d14 (surr.)	1	%	110	89	-	-
% Moisture	1	%	17	20	20	20
Heavy Metals						
Arsenic	2	mg/kg	8.8	5.8	-	14
Cadmium	0.4	mg/kg	< 0.4	< 0.4	-	< 0.4
Chromium	5	mg/kg	11	9.6	-	23
Copper	5	mg/kg	9.1	5.7	-	41
Lead	5	mg/kg	16	9.6	-	27
Mercury	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Nickel	5	mg/kg	5.1	< 5	-	14
Zinc	5	mg/kg	18	8.2	-	65
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	-

Client Sample ID			S088 0-0.1	S089 0.9-1.0	S127 0-0.1	S128 0.3-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Jn00513	S21-Jn00514	S21-Jn00515	S21-Jn00516
Date Sampled			May 27, 2021	May 27, 2021	May 27, 2021	May 27, 2021
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Toxaphene	0.1	mg/kg	-	-	< 0.1	-
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	%	-	-	110	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	108	-
Acid Herbicides						
2.4-D	0.5	mg/kg	-	-	< 0.5	-
2.4-DB	0.5	mg/kg	-	-	< 0.5	-
2.4.5-T	0.5	mg/kg	-	-	< 0.5	-
2.4.5-TP	0.5	mg/kg	-	-	< 0.5	-
Actril (loxynil)	0.5	mg/kg	-	-	< 0.5	-
Dicamba	0.5	mg/kg	-	-	< 0.5	-
Dichlorprop	0.5	mg/kg	-	-	< 0.5	-
Dinitro-o-cresol	0.5	mg/kg	-	-	< 0.5	-
Dinoseb	0.5	mg/kg	-	-	< 0.5	-
MCPA	0.5	mg/kg	-	-	< 0.5	-
MCPB	0.5	mg/kg	-	-	< 0.5	-
Mecoprop	0.5	mg/kg	-	-	< 0.5	-
Warfarin (surr.)	1	%	-	-	97	-

Client Sample ID			S129 0-0.1
Sample Matrix			Soil
Eurofins Sample No.			S21-Jn00517
Date Sampled			May 27, 2021
Test/Reference	LOR	Unit	
% Moisture	1	%	20
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

Client Sample ID			S129 0-0.1
Sample Matrix			**Soil**
Eurofins Sample No.			**S21-Jn00517**
Date Sampled			**May 27, 2021**
Test/Reference	LOR	Unit	
Organochlorine Pesticides			
Hexachlorobenzene	0.05	mg/kg	< 0.05
Methoxychlor	0.2	mg/kg	< 0.2
Toxaphene	0.1	mg/kg	< 0.1
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	%	100
Tetrachloro-m-xylene (surr.)	1	%	86
Acid Herbicides			
2.4-D	0.5	mg/kg	< 0.5
2.4-DB	0.5	mg/kg	< 0.5
2.4.5-T	0.5	mg/kg	< 0.5
2.4.5-TP	0.5	mg/kg	< 0.5
Actril (loxynil)	0.5	mg/kg	< 0.5
Dicamba	0.5	mg/kg	< 0.5
Dichlorprop	0.5	mg/kg	< 0.5
Dinitro-o-cresol	0.5	mg/kg	< 0.5
Dinoseb	0.5	mg/kg	< 0.5
MCPA	0.5	mg/kg	< 0.5
MCPB	0.5	mg/kg	< 0.5
Mecoprop	0.5	mg/kg	< 0.5
Warfarin (surr.)	1	%	101

Sample History

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

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

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Jun 01, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	Jun 01, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Jun 01, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Jun 01, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Polycyclic Aromatic Hydrocarbons	Sydney	Jun 01, 2021	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Metals M8	Sydney	Jun 01, 2021	180 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Volatile Organics	Sydney	Jun 01, 2021	7 Days
- Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices			
Polychlorinated Biphenyls	Sydney	Jun 01, 2021	28 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
% Clay	Brisbane	Jun 07, 2021	14 Days
- Method: LTM-GEN-7040			
pH (1:5 Aqueous extract at 25°C as rec.)	Sydney	Jun 01, 2021	7 Days
- Method: LTM-GEN-7090 pH in soil by ISE			
Organochlorine Pesticides	Sydney	Jun 01, 2021	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Acid Herbicides	Melbourne	Jun 04, 2021	14 Days
- Method: LTM-ORG-2180 Phenoxy Acid Herbicides			
Conductivity (1:5 aqueous extract at 25°C as rec.)	Melbourne	Jun 04, 2021	7 Days
- Method: LTM-INO-4030 Conductivity			
Cation Exchange Capacity	Melbourne	Jun 04, 2021	180 Days
- Method: LTM-MET-3060 Cation Exchange Capacity by bases & Exchangeable Sodium Percentage			
% Moisture	Sydney	Jun 01, 2021	14 Days
- Method: LTM-GEN-7080 Moisture			

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
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NSW 2000

Project Name: KEMPS CREEK
Project ID: 60330

Order No.:
Report #: 799524
Phone: 02 8245 0300
Fax:

Received: May 28, 2021 11:25 AM
Due: Jun 4, 2021
Priority: 5 Day
Contact Name: Rohan Hammond

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Acid Herbicides	USA Leaching Procedure	Metals M8	Volatile Organics	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7
Melbourne Laboratory - NATA Site # 1254 & 14271														X				X	X	
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**															
1	S003 0.0-0.1	May 27, 2021		Soil	S21-Jn00478	X	X			X			X				X	X	X	X
2	S003 0.4-0.5	May 27, 2021		Soil	S21-Jn00479	X				X								X	X	
3	S004 0.0-0.1	May 27, 2021		Soil	S21-Jn00480		X					X	X	X			X	X		X
4	S005 0-0.1	May 27, 2021		Soil	S21-Jn00481													X		X
5	S005 0.3-0.4	May 27, 2021		Soil	S21-Jn00482		X											X		X
6	S005 0.8-0.9	May 27, 2021		Soil	S21-Jn00483													X		X
7	S006 0-0.1	May 27, 2021		Soil	S21-Jn00484							X		X				X		
8	S007 0.0-0.1	May 27, 2021		Soil	S21-Jn00485		X											X		X
9	S007 0.3-0.4	May 27, 2021		Soil	S21-Jn00486													X		X

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Order No.:
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Phone: 02 8245 0300
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Received: May 28, 2021 11:25 AM
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Contact Name: Rohan Hammond

Eurofins Analytical Services Manager : Ursula Long

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Melbourne Laboratory - NATA Site # 1254 & 14271														X				X	X	
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
10	S008 0.4-0.5	May 27, 2021		Soil	S21-Jn00487		X											X		X
11	S012 0-0.1	May 27, 2021		Soil	S21-Jn00488		X													
12	S012 0.4-0.5	May 27, 2021		Soil	S21-Jn00489		X											X		X
13	S012 0.9-1.0	May 27, 2021		Soil	S21-Jn00490		X													
14	S013 0-0.1	May 27, 2021		Soil	S21-Jn00491							X		X				X		
15	S019 0-0.1	May 27, 2021		Soil	S21-Jn00492		X											X		X
16	S024 0.4-0.5	May 27, 2021		Soil	S21-Jn00493		X											X		X
17	S024 0.8-0.9	May 27, 2021		Soil	S21-Jn00494		X													
18	S028 0-0.1	May 27, 2021		Soil	S21-Jn00495		X											X		X
19	S029 0-0.1	May 27, 2021		Soil	S21-Jn00496		X											X		X
20	S032 0-0.1	May 27, 2021		Soil	S21-Jn00497		X											X		X

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Contact Name: Rohan Hammond

Eurofins Analytical Services Manager : Ursula Long

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Melbourne Laboratory - NATA Site # 1254 & 14271														X				X	X	
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
21	S033 0-0.1	May 27, 2021		Soil	S21-Jn00498		X											X		X
22	S034 0-0.1	May 27, 2021		Soil	S21-Jn00499		X											X		X
23	S036 0-0.1	May 27, 2021		Soil	S21-Jn00500													X		X
24	S038 0-0.1	May 27, 2021		Soil	S21-Jn00501		X											X		X
25	S041 0-0.1	May 27, 2021		Soil	S21-Jn00502													X		X
26	S042 0-0.1	May 27, 2021		Soil	S21-Jn00503													X		X
27	S043 0-0.1	May 27, 2021		Soil	S21-Jn00504													X		X
28	S051 0-0.1	May 27, 2021		Soil	S21-Jn00505							X		X				X		
29	S054 0.3-0.4	May 27, 2021		Soil	S21-Jn00506											X		X		
30	S061 0-0.1	May 27, 2021		Soil	S21-Jn00507											X		X		
31	S062 0-0.1	May 27, 2021		Soil	S21-Jn00508							X		X				X		

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Melbourne Laboratory - NATA Site # 1254 & 14271														X				X	X	
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
32	S069 0.3-0.4	May 27, 2021		Soil	S21-Jn00509											X		X		
33	S074 0-0.1	May 27, 2021		Soil	S21-Jn00510							X		X				X		
34	S079 0-0.1	May 27, 2021		Soil	S21-Jn00511											X		X		
35	S083 0-0.1	May 27, 2021		Soil	S21-Jn00512							X		X				X		
36	S088 0-0.1	May 27, 2021		Soil	S21-Jn00513		X											X		X
37	S089 0.9-1.0	May 27, 2021		Soil	S21-Jn00514		X											X		X
38	S127 0-0.1	May 27, 2021		Soil	S21-Jn00515							X		X				X		
39	S128 0.3-0.4	May 27, 2021		Soil	S21-Jn00516											X		X		
40	S129 0-0.1	May 27, 2021		Soil	S21-Jn00517							X		X				X		
41	S003 0.0-0.1	May 27, 2021		US Leachate	S21-Jn00518										X	X				
42	S004 0.0-0.1	May 27, 2021		US Leachate	S21-Jn00519										X	X				

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Order No.:
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Phone: 02 8245 0300
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Melbourne Laboratory - NATA Site # 1254 & 14271														X				X	X	
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
43	S003 0.0-0.1	May 27, 2021		US Leachate	S21-Jn00520						X				X					
44	S004 0.0-0.1	May 27, 2021		US Leachate	S21-Jn00521						X				X					
45	S004 0.4-0.5	May 27, 2021		Soil	S21-Jn00522				X											
46	S005 1.2-1.3	May 27, 2021		Soil	S21-Jn00523				X											
47	S006 0.3-0.4	May 27, 2021		Soil	S21-Jn00524				X											
48	S007 0.8-0.9	May 27, 2021		Soil	S21-Jn00525				X											
49	S008 0.0-0.1	May 27, 2021		Soil	S21-Jn00526				X											
50	S008 0.9-1.0	May 27, 2021		Soil	S21-Jn00527				X											
51	S012 1.6-1.7	May 27, 2021		Soil	S21-Jn00528				X											
52	S013 0.3-0.4	May 27, 2021		Soil	S21-Jn00529				X											
53	S017 0-0.1	May 27, 2021		Soil	S21-Jn00530				X											

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Project Name: KEMPS CREEK
Project ID: 60330

Order No.:
Report #: 799524
Phone: 02 8245 0300
Fax:

Received: May 28, 2021 11:25 AM
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Contact Name: Rohan Hammond

Eurofins Analytical Services Manager : Ursula Long

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Melbourne Laboratory - NATA Site # 1254 & 14271														X				X	X	
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
54	S017 0.3-0.4	May 27, 2021		Soil	S21-Jn00531				X											
55	S017 0.6-0.7	May 27, 2021		Soil	S21-Jn00532				X											
56	S018 0-0.1	May 27, 2021		Soil	S21-Jn00533				X											
57	S018 0.3-0.4	May 27, 2021		Soil	S21-Jn00534				X											
58	S018 0.6-0.7	May 27, 2021		Soil	S21-Jn00535				X											
59	S019 0.3-0.4	May 27, 2021		Soil	S21-Jn00536				X											
60	S019 0.6-0.7	May 27, 2021		Soil	S21-Jn00537			X												
61	S021 0-0.1	May 27, 2021		Soil	S21-Jn00538				X											
62	S021 0.3-0.4	May 27, 2021		Soil	S21-Jn00539				X											
63	S022 0-0.1	May 27, 2021		Soil	S21-Jn00540				X											
64	S022 0.3-0.4	May 27, 2021		Soil	S21-Jn00541				X											

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Project Name: KEMPS CREEK
Project ID: 60330

Order No.:
Report #: 799524
Phone: 02 8245 0300
Fax:

Received: May 28, 2021 11:25 AM
Due: Jun 4, 2021
Priority: 5 Day
Contact Name: Rohan Hammond

Eurofins Analytical Services Manager : Ursula Long

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Melbourne Laboratory - NATA Site # 1254 & 14271														X				X	X	
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
65	S023 0-0.1	May 27, 2021		Soil	S21-Jn00542				X											
66	S023 0.4-0.5	May 27, 2021		Soil	S21-Jn00543				X											
67	S024 0-0.1	May 27, 2021		Soil	S21-Jn00544				X											
68	S024 1.3-1.4	May 27, 2021		Soil	S21-Jn00545				X											
69	S025 0-0.1	May 27, 2021		Soil	S21-Jn00546				X											
70	S025 0.4-0.5	May 27, 2021		Soil	S21-Jn00547				X											
71	S026 0-0.1	May 27, 2021		Soil	S21-Jn00548				X											
72	S026 0.3-0.4	May 27, 2021		Soil	S21-Jn00549				X											
73	S026 0.6-0.7	May 27, 2021		Soil	S21-Jn00550				X											
74	S026 0.9-1.0	May 27, 2021		Soil	S21-Jn00551				X											
75	S027 0-0.1	May 27, 2021		Soil	S21-Jn00552				X											

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Melbourne Laboratory - NATA Site # 1254 & 14271														X				X	X	
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
76	S027 0.3-0.4	May 27, 2021		Soil	S21-Jn00553				X											
77	S028 0.3-0.4	May 27, 2021		Soil	S21-Jn00554				X											
78	S029 0.4-0.5	May 27, 2021		Soil	S21-Jn00555				X											
79	S032 0.4-0.5	May 27, 2021		Soil	S21-Jn00556				X											
80	S033 0.3-0.4	May 27, 2021		Soil	S21-Jn00557				X											
81	S034 0.3-0.4	May 27, 2021		Soil	S21-Jn00558				X											
82	S035 0-0.1	May 27, 2021		Soil	S21-Jn00559				X											
83	S035 0.3-0.4	May 27, 2021		Soil	S21-Jn00560				X											
84	S036 0.4-0.5	May 27, 2021		Soil	S21-Jn00561				X											
85	S036 0.8-0.9	May 27, 2021		Soil	S21-Jn00562				X											
86	S037 0-0.1	May 27, 2021		Soil	S21-Jn00563				X											

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Melbourne Laboratory - NATA Site # 1254 & 14271														X				X	X	
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
87	S037 0.3-0.4	May 27, 2021		Soil	S21-Jn00564				X											
88	S038 0.3-0.4	May 27, 2021		Soil	S21-Jn00565				X											
89	S039 0-0.1	May 27, 2021		Soil	S21-Jn00566				X											
90	S039 0.3-0.4	May 27, 2021		Soil	S21-Jn00567				X											
91	S040 0-0.1	May 27, 2021		Soil	S21-Jn00568				X											
92	S040 0.3-0.4	May 27, 2021		Soil	S21-Jn00569				X											
93	S041 0.3-0.4	May 27, 2021		Soil	S21-Jn00570				X											
94	S041 0-0.1	May 27, 2021		Soil	S21-Jn00571			X												
95	S041 0.3-0.4	May 27, 2021		Soil	S21-Jn00572				X											
96	S042 0.3-0.4	May 27, 2021		Soil	S21-Jn00573				X											
97	S042 0.9-2.0	May 27, 2021		Soil	S21-Jn00574				X											

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Melbourne Laboratory - NATA Site # 1254 & 14271														X				X	X	
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
98	S042 1.9-2.0	May 27, 2021		Soil	S21-Jn00575				X											
99	S042 2.5-2.6	May 27, 2021		Soil	S21-Jn00576				X											
100	S043 0.3-0.4	May 27, 2021		Soil	S21-Jn00577			X												
101	S043 0.9-1.0	May 27, 2021		Soil	S21-Jn00578			X												
102	S043 1.9-2.0	May 27, 2021		Soil	S21-Jn00579				X											
103	S043 2.5-2.6	May 27, 2021		Soil	S21-Jn00580			X												
104	S050 0-0.1	May 27, 2021		Soil	S21-Jn00581				X											
105	S050 0.3-0.4	May 27, 2021		Soil	S21-Jn00582				X											
106	S050 0.9-1.0	May 27, 2021		Soil	S21-Jn00583				X											
107	S050 1.9-2.0	May 27, 2021		Soil	S21-Jn00584				X											
108	S051 0.3-0.4	May 27, 2021		Soil	S21-Jn00585				X											

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Melbourne Laboratory - NATA Site # 1254 & 14271														X				X	X	
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
109	S054 0-0.1	May 27, 2021		Soil	S21-Jn00586				X											
110	S057 0-0.1	May 27, 2021		Soil	S21-Jn00587				X											
111	S057 0.3-0.4	May 27, 2021		Soil	S21-Jn00588				X											
112	S058 0-0.1	May 27, 2021		Soil	S21-Jn00589				X											
113	S058 0.3-0.4	May 27, 2021		Soil	S21-Jn00590				X											
114	S061 0.3-0.4	May 27, 2021		Soil	S21-Jn00591				X											
115	S062 0.3-0.4	May 27, 2021		Soil	S21-Jn00592				X											
116	S065 0-0.1	May 27, 2021		Soil	S21-Jn00593				X											
117	S065 0.3-0.4	May 27, 2021		Soil	S21-Jn00594				X											
118	S066 0-0.1	May 27, 2021		Soil	S21-Jn00595				X											
119	S066 0.3-0.4	May 27, 2021		Soil	S21-Jn00596				X											

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Melbourne Laboratory - NATA Site # 1254 & 14271														X				X	X	
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
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External Laboratory																				
120	S069 0-0.1	May 27, 2021		Soil	S21-Jn00597				X											
121	S073 0-0.1	May 27, 2021		Soil	S21-Jn00598				X											
122	S073 0.3-0.4	May 27, 2021		Soil	S21-Jn00599			X												
123	S074 0.3-0.4	May 27, 2021		Soil	S21-Jn00600				X											
124	S077 0-0.1	May 27, 2021		Soil	S21-Jn00601				X											
125	S077 0.4-0.5	May 27, 2021		Soil	S21-Jn00602				X											
126	S078 0-0.1	May 27, 2021		Soil	S21-Jn00603				X											
127	S078 0.3-0.4	May 27, 2021		Soil	S21-Jn00604				X											
128	S079 0.3-0.4	May 27, 2021		Soil	S21-Jn00605				X											
129	S080 0-0.1	May 27, 2021		Soil	S21-Jn00606				X											
130	S080 0.3-0.4	May 27, 2021		Soil	S21-Jn00607				X											

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Melbourne Laboratory - NATA Site # 1254 & 14271														X				X	X	
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
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External Laboratory																				
131	S083 0.3-0.4	May 27, 2021		Soil	S21-Jn00608				X											
132	S088 0.3-0.4	May 27, 2021		Soil	S21-Jn00609				X											
133	S088 0.9-1.0	May 27, 2021		Soil	S21-Jn00610				X											
134	S088 1.9-2.0	May 27, 2021		Soil	S21-Jn00611				X											
135	S089 0-0.1	May 27, 2021		Soil	S21-Jn00612				X											
136	S089 0.3-0.4	May 27, 2021		Soil	S21-Jn00613				X											
137	S089 1.9-2.0	May 27, 2021		Soil	S21-Jn00614				X											
138	S127 0.3-0.4	May 27, 2021		Soil	S21-Jn00615				X											
139	S128 0-0.1	May 27, 2021		Soil	S21-Jn00616				X											
140	S129 0.3-0.4	May 27, 2021		Soil	S21-Jn00617				X											
141	S130 0-0.1	May 27, 2021		Soil	S21-Jn00618				X											

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Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Acid Herbicides	USA Leaching Procedure	Metals M8	Volatile Organics	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7
Melbourne Laboratory - NATA Site # 1254 & 14271														X				X	X	
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
142	S130 0.4-0.5	May 27, 2021		Soil	S21-Jn00619				X											
143	Rin270521	May 27, 2021		Water	S21-Jn00620				X											
144	TRIP SPIKE	May 27, 2021		Water	S21-Jn00621				X											
145	TRIP BLANK	May 27, 2021		Water	S21-Jn00708				X											
Test Counts						2	19	6	95	2	2	9	2	9	4	7	2	37	2	23

Internal Quality Control Review and Glossary

General

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

Holding Times

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

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

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

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

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

****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
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient

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.
5. 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 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 - 1999 NEPM Fractions							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Volatile Organics							
1.1-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
1.1.1-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.1.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dibromoethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.3-Trichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.4-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.3.5-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.4-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
2-Butanone (MEK)	mg/kg	< 0.5			0.5	Pass	
2-Propanone (Acetone)	mg/kg	< 0.5			0.5	Pass	
4-Chlorotoluene	mg/kg	< 0.5			0.5	Pass	
4-Methyl-2-pentanone (MIBK)	mg/kg	< 0.5			0.5	Pass	
Allyl chloride	mg/kg	< 0.5			0.5	Pass	
Benzene	mg/kg	< 0.1			0.1	Pass	
Bromobenzene	mg/kg	< 0.5			0.5	Pass	
Bromochloromethane	mg/kg	< 0.5			0.5	Pass	
Bromodichloromethane	mg/kg	< 0.5			0.5	Pass	
Bromoform	mg/kg	< 0.5			0.5	Pass	
Bromomethane	mg/kg	< 0.5			0.5	Pass	
Carbon disulfide	mg/kg	< 0.5			0.5	Pass	
Carbon Tetrachloride	mg/kg	< 0.5			0.5	Pass	
Chlorobenzene	mg/kg	< 0.5			0.5	Pass	
Chloroethane	mg/kg	< 0.5			0.5	Pass	
Chloroform	mg/kg	< 0.5			0.5	Pass	
Chloromethane	mg/kg	< 0.5			0.5	Pass	
cis-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
cis-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Dibromochloromethane	mg/kg	< 0.5			0.5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Dibromomethane	mg/kg	< 0.5			0.5	Pass	
Dichlorodifluoromethane	mg/kg	< 0.5			0.5	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
Iodomethane	mg/kg	< 0.5			0.5	Pass	
Isopropyl benzene (Cumene)	mg/kg	< 0.5			0.5	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
Methylene Chloride	mg/kg	< 0.5			0.5	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
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 Fractions							
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							
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							
Heavy Metals							

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
Method Blank							
Cation Exchange Capacity							
Cation Exchange Capacity	meq/100g	< 0.05			0.05	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	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.2			0.2	Pass	
Toxaphene	mg/kg	< 0.1			0.1	Pass	
Method Blank							
Acid Herbicides							
2.4-D	mg/kg	< 0.5			0.5	Pass	
2.4-DB	mg/kg	< 0.5			0.5	Pass	
2.4.5-T	mg/kg	< 0.5			0.5	Pass	
2.4.5-TP	mg/kg	< 0.5			0.5	Pass	
Actril (loxynil)	mg/kg	< 0.5			0.5	Pass	
Dicamba	mg/kg	< 0.5			0.5	Pass	
Dichlorprop	mg/kg	< 0.5			0.5	Pass	
Dinitro-o-cresol	mg/kg	< 0.5			0.5	Pass	
Dinoseb	mg/kg	< 0.5			0.5	Pass	
MCPA	mg/kg	< 0.5			0.5	Pass	
MCPB	mg/kg	< 0.5			0.5	Pass	
Mecoprop	mg/kg	< 0.5			0.5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	76			70-130	Pass	
TRH C10-C14	%	90			70-130	Pass	
LCS - % Recovery							
BTEX							

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Benzene	%	93			70-130	Pass	
Toluene	%	90			70-130	Pass	
Ethylbenzene	%	89			70-130	Pass	
m&p-Xylenes	%	92			70-130	Pass	
o-Xylene	%	88			70-130	Pass	
Xylenes - Total*	%	91			70-130	Pass	
LCS - % Recovery							
Volatile Organics							
1.1-Dichloroethene	%	75			70-130	Pass	
1.1.1-Trichloroethane	%	88			70-130	Pass	
1.2-Dichlorobenzene	%	91			70-130	Pass	
1.2-Dichloroethane	%	94			70-130	Pass	
Benzene	%	88			70-130	Pass	
Ethylbenzene	%	79			70-130	Pass	
m&p-Xylenes	%	83			70-130	Pass	
o-Xylene	%	82			70-130	Pass	
Toluene	%	77			70-130	Pass	
Trichloroethene	%	92			70-130	Pass	
Xylenes - Total*	%	83			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	107			70-130	Pass	
TRH C6-C10	%	75			70-130	Pass	
TRH >C10-C16	%	88			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	99			70-130	Pass	
Acenaphthylene	%	95			70-130	Pass	
Anthracene	%	101			70-130	Pass	
Benz(a)anthracene	%	90			70-130	Pass	
Benzo(a)pyrene	%	92			70-130	Pass	
Benzo(b&j)fluoranthene	%	84			70-130	Pass	
Benzo(g.h.i)perylene	%	105			70-130	Pass	
Benzo(k)fluoranthene	%	89			70-130	Pass	
Chrysene	%	87			70-130	Pass	
Dibenz(a.h)anthracene	%	102			70-130	Pass	
Fluoranthene	%	93			70-130	Pass	
Fluorene	%	91			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	97			70-130	Pass	
Naphthalene	%	101			70-130	Pass	
Phenanthrene	%	91			70-130	Pass	
Pyrene	%	92			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1016	%	91			70-130	Pass	
Aroclor-1260	%	88			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	114			80-120	Pass	
Cadmium	%	113			80-120	Pass	
Chromium	%	112			80-120	Pass	
Copper	%	111			80-120	Pass	
Lead	%	116			80-120	Pass	
Mercury	%	103			80-120	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Nickel	%	110			80-120	Pass	
Zinc	%	107			80-120	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	108			70-130	Pass	
4.4'-DDD	%	86			70-130	Pass	
4.4'-DDE	%	118			70-130	Pass	
a-BHC	%	90			70-130	Pass	
Aldrin	%	79			70-130	Pass	
b-BHC	%	95			70-130	Pass	
d-BHC	%	96			70-130	Pass	
Dieldrin	%	91			70-130	Pass	
Endosulfan I	%	121			70-130	Pass	
Endosulfan II	%	100			70-130	Pass	
Endrin	%	115			70-130	Pass	
Endrin aldehyde	%	87			70-130	Pass	
Endrin ketone	%	77			70-130	Pass	
g-BHC (Lindane)	%	79			70-130	Pass	
Heptachlor	%	119			70-130	Pass	
Heptachlor epoxide	%	129			70-130	Pass	
Hexachlorobenzene	%	87			70-130	Pass	
Methoxychlor	%	88			70-130	Pass	
LCS - % Recovery							
Acid Herbicides							
2.4.5-T	%	73			70-130	Pass	
2.4.5-TP	%	92			70-130	Pass	
Actril (loxynil)	%	101			70-130	Pass	
Dicamba	%	108			70-130	Pass	
Dichlorprop	%	89			70-130	Pass	
Dinitro-o-cresol	%	104			70-130	Pass	
Dinoseb	%	100			70-130	Pass	
Mecoprop	%	102			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 Fractions				Result 1					
TRH C6-C9	S21-My56029	NCP	%	70			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S21-My56029	NCP	%	88			70-130	Pass	
Toluene	S21-My56029	NCP	%	76			70-130	Pass	
Ethylbenzene	S21-My56029	NCP	%	75			70-130	Pass	
m&p-Xylenes	S21-My56029	NCP	%	76			70-130	Pass	
o-Xylene	S21-My56029	NCP	%	79			70-130	Pass	
Xylenes - Total*	S21-My56029	NCP	%	77			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S21-My56029	NCP	%	107			70-130	Pass	
TRH C6-C10	S21-My56029	NCP	%	70			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S21-Jn03842	NCP	%	99			70-130	Pass	
Acenaphthylene	S21-Jn03842	NCP	%	84			70-130	Pass	
Anthracene	S21-Jn03842	NCP	%	82			70-130	Pass	
Benz(a)anthracene	S21-Jn03842	NCP	%	73			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Benzo(a)pyrene	S21-Jn03842	NCP	%	82			70-130	Pass	
Benzo(b&j)fluoranthene	S21-Jn03842	NCP	%	71			70-130	Pass	
Benzo(g.h.i)perylene	S21-Jn03842	NCP	%	80			70-130	Pass	
Benzo(k)fluoranthene	S21-Jn03842	NCP	%	89			70-130	Pass	
Chrysene	S21-Jn03842	NCP	%	82			70-130	Pass	
Dibenz(a.h)anthracene	S21-Jn03842	NCP	%	79			70-130	Pass	
Fluoranthene	S21-Jn03842	NCP	%	88			70-130	Pass	
Fluorene	S21-Jn03842	NCP	%	86			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S21-Jn03842	NCP	%	83			70-130	Pass	
Naphthalene	S21-Jn03842	NCP	%	100			70-130	Pass	
Phenanthrene	S21-Jn03842	NCP	%	88			70-130	Pass	
Pyrene	S21-Jn03842	NCP	%	90			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls				Result 1					
Aroclor-1016	S21-Jn04839	NCP	%	73			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S21-Jn00492	CP	%	103			75-125	Pass	
Cadmium	S21-Jn00492	CP	%	113			75-125	Pass	
Chromium	S21-Jn00492	CP	%	104			75-125	Pass	
Copper	S21-Jn00492	CP	%	90			75-125	Pass	
Lead	S21-Jn00492	CP	%	105			75-125	Pass	
Mercury	S21-Jn00492	CP	%	105			75-125	Pass	
Nickel	S21-Jn00492	CP	%	88			75-125	Pass	
Zinc	S21-Jn00492	CP	%	104			75-125	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S21-Jn00499	CP	%	76			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S21-Jn00499	CP	%	92			70-130	Pass	
Toluene	S21-Jn00499	CP	%	86			70-130	Pass	
Ethylbenzene	S21-Jn00499	CP	%	83			70-130	Pass	
m&p-Xylenes	S21-Jn00499	CP	%	85			70-130	Pass	
o-Xylene	S21-Jn00499	CP	%	83			70-130	Pass	
Xylenes - Total*	S21-Jn00499	CP	%	84			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S21-Jn00499	CP	%	96			70-130	Pass	
TRH C6-C10	S21-Jn00499	CP	%	75			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C10-C14	S21-Jn00504	CP	%	121			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH >C10-C16	S21-Jn00504	CP	%	121			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S21-Jn00516	CP	%	77			75-125	Pass	
Cadmium	S21-Jn00516	CP	%	83			75-125	Pass	
Mercury	S21-Jn00516	CP	%	75			75-125	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S21-My56018	NCP	mg/kg	< 20	< 20	<1	30%	Pass	

Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S21-My56018	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S21-My56018	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S21-My56018	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S21-My56018	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S21-My56018	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S21-My56018	NCP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1-Dichloroethene	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1-Trichloroethane	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2-Trichloroethane	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dibromoethane	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichlorobenzene	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloroethane	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloropropane	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.3-Trichloropropane	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.4-Trimethylbenzene	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichlorobenzene	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichloropropane	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3.5-Trimethylbenzene	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.4-Dichlorobenzene	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Butanone (MEK)	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Propanone (Acetone)	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Chlorotoluene	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Allyl chloride	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromobenzene	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromochloromethane	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromodichloromethane	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromoform	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromomethane	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon disulfide	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon Tetrachloride	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chlorobenzene	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroethane	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroform	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloromethane	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.2-Dichloroethene	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.3-Dichloropropene	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromochloromethane	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromomethane	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dichlorodifluoromethane	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Iodomethane	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Isopropyl benzene (Cumene)	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Methylene Chloride	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Styrene	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Tetrachloroethene	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.2-Dichloroethene	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.3-Dichloropropene	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichloroethene	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichlorofluoromethane	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Vinyl chloride	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S21-My56018	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S21-My56018	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S21-Jn00940	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S21-Jn00940	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S21-Jn00940	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S21-Jn00940	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S21-Jn00940	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S21-Jn00940	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S21-Jn00940	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S21-Jn00940	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S21-Jn00940	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S21-Jn00940	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S21-Jn00940	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S21-Jn00940	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S21-Jn00940	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S21-Jn00940	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S21-Jn00940	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S21-Jn00940	NCP	mg/kg	0.6	< 0.5	60	30%	Fail	Q15
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	S21-Jn03841	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1221	S21-Jn03841	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	S21-Jn03841	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1242	S21-Jn03841	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1248	S21-Jn03841	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1254	S21-Jn03841	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1260	S21-Jn03841	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
pH (1:5 Aqueous extract at 25°C as rec.)	S21-Jn00478	CP	pH Units	8.5	8.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S21-Jn02335	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S21-Jn02335	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S21-Jn02335	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S21-Jn02335	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-BHC	S21-Jn02335	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S21-Jn02335	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-BHC	S21-Jn02335	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-BHC	S21-Jn02335	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S21-Jn02335	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S21-Jn02335	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S21-Jn02335	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S21-Jn02335	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S21-Jn02335	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S21-Jn02335	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S21-Jn02335	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-BHC (Lindane)	S21-Jn02335	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S21-Jn02335	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S21-Jn02335	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S21-Jn02335	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S21-Jn02335	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	

Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-Jn00485	CP	%	12	16	26	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S21-Jn00489	CP	mg/kg	13	10	24	30%	Pass	
Cadmium	S21-Jn00489	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S21-Jn00489	CP	mg/kg	22	19	16	30%	Pass	
Copper	S21-Jn00489	CP	mg/kg	24	21	15	30%	Pass	
Lead	S21-Jn00489	CP	mg/kg	28	22	24	30%	Pass	
Mercury	S21-Jn00489	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S21-Jn00489	CP	mg/kg	12	11	13	30%	Pass	
Zinc	S21-Jn00489	CP	mg/kg	45	37	20	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C10-C14	S21-Jn00492	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S21-Jn00492	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S21-Jn00492	CP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
TRH >C10-C16	S21-Jn00492	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S21-Jn00492	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S21-Jn00492	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-Jn00498	CP	%	9.0	9.4	5.0	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S21-Jn00502	CP	mg/kg	12	18	42	30%	Fail	Q15
Cadmium	S21-Jn00502	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S21-Jn00502	CP	mg/kg	9.0	16	53	30%	Fail	Q15
Copper	S21-Jn00502	CP	mg/kg	10	20	65	30%	Fail	Q15
Lead	S21-Jn00502	CP	mg/kg	13	23	53	30%	Fail	Q15
Mercury	S21-Jn00502	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S21-Jn00502	CP	mg/kg	7.2	14	66	30%	Fail	Q15
Zinc	S21-Jn00502	CP	mg/kg	23	39	53	30%	Fail	Q15
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-Jn00508	CP	%	17	16	3.0	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S21-Jn00511	CP	mg/kg	16	18	11	30%	Pass	
Cadmium	S21-Jn00511	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S21-Jn00511	CP	mg/kg	19	18	3.0	30%	Pass	
Copper	S21-Jn00511	CP	mg/kg	11	9.7	14	30%	Pass	
Lead	S21-Jn00511	CP	mg/kg	22	23	4.0	30%	Pass	
Mercury	S21-Jn00511	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S21-Jn00511	CP	mg/kg	7.7	7.4	4.0	30%	Pass	
Zinc	S21-Jn00511	CP	mg/kg	27	21	22	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S21-Jn00514	CP	mg/kg	5.8	11	63	30%	Fail	Q15
Cadmium	S21-Jn00514	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S21-Jn00514	CP	mg/kg	9.6	16	52	30%	Fail	Q15
Copper	S21-Jn00514	CP	mg/kg	5.7	11	61	30%	Fail	Q15
Lead	S21-Jn00514	CP	mg/kg	9.6	13	31	30%	Fail	Q15

Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Mercury	S21-Jn00514	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S21-Jn00514	CP	mg/kg	< 5	6.3	59	30%	Fail	Q15
Zinc	S21-Jn00514	CP	mg/kg	8.2	16	63	30%	Fail	Q15

Comments

Sample Integrity

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

Qualifier Codes/Comments

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

Authorised by:

John Nguyen	Analytical Services Manager
Andrew Sullivan	Senior Analyst-Organic (NSW)
Charl Du Preez	Senior Analyst-Inorganic (NSW)
Emily Rosenberg	Senior Analyst-Metal (VIC)
John Nguyen	Senior Analyst-Metal (NSW)
Jonathon Angell	Senior Analyst-Inorganic (QLD)
Joseph Edouard	Senior Analyst-Organic (VIC)
Roopesh Rangarajan	Senior Analyst-Volatile (NSW)
Scott Beddoes	Senior Analyst-Inorganic (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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CHAIN OF CUSTODY RECORD

Company	JBS & G Australia (NSW) P/L	Project No	60330
Address	Level 1, 50 Margaret Street Sydney NSW 2000	Project Name	Kemps Creek
Contact Name	Rohan Hammond	Sampler	Rohan Hammond
Phone No	02 8245 0300	Samples(s)	Ryan Lill / Max Cutrone
Special Directions		Handed over by	Ryan Lill / Max Cutrone
Purchase Order		Email for Invoice	admin.NSW@jbsg.com.au
Quote ID No		Email for Results	rhammond@jbsg.com.au

Analyses (Where sample description is not sufficient please provide additional information)

No	Client Sample ID	Sampled Date/Time dd/mm/yy hh:mm	Matrix Soil (S) Water (W)	J52A	J52	B7	8 heavy metals (as, cd, cu, cr, hg, ni, pb, zn)	TRHs&BTEXN	PAHs	VOCs	OCPs	Herbicides	PCBs	TCLP heavy metals	TCLP PAHs	Asbestos 500 mL	CEC	Clay %	PAHs (low levels)	Ammonia	Nitrite	Nitrate	pH	TSS	Asbestos	Hold	Containers: 500mL Plastic	250mL Plastic	125mL Plastic	200mL Amber Glass	40mL VOA vial	500mL PFAS Bottle	Jar (Glass or HDPE)	Other (Asbestos AS4964, WA Gunsel)
1	S001 0-0.1	28/05/21	Soil																							X							1	1
2	S001 0.3-0.4	28/05/21	Soil			X																											1	
3	S002 0-0.1	28/05/21	Soil																							X							1	1
4	S002 0.3-0.4	28/05/21	Soil																							X							1	
5	S009 0-0.1	28/05/21	Soil			X					X	X																					1	1
6	S008 0.4-0.5	28/05/21	Soil																							X							1	1
7	S009 1.4-1.5	28/05/21	Soil																							X							1	1
8	S010 0-0.1	28/05/21	Soil													X																	1	
9	S010 0.3-0.4	28/05/21	Soil																							X							1	1
10	S010 0.9-1.0	28/05/21	Soil																							X								1
11	S011 0-0.1	28/05/21	Soil			X																											1	1
12	S011 0.3-0.4	28/05/21	Soil																							X							1	1
13	S011 1.4-1.5	28/05/21	Soil																							X							1	
14	S014 0-0.1	28/05/21	Soil																							X							1	1
15	S014 0.3-0.4	28/05/21	Soil																							X							1	1
16	S015 0-0.1	28/05/21	Soil			X																											1	
17	S015 0.3-0.4	28/05/21	Soil																							X							1	1
18	S015 0-0.1	28/05/21	Soil			X																											1	1
19	S016 0.3-0.4	28/05/21	Soil																							X							1	1
20	S048 0-0.1	28/05/21	Soil																							X							1	
21	S048 0.3-0.4	28/05/21	Soil																							X							1	1
22	S060 0-0.1	28/05/21	Soil																							X							1	
23	S060 0.3-0.4	28/05/21	Soil																							X							1	1
24	S052 0-0.1	28/05/21	Soil				X				X	X																					1	1
25	S052 0.3-0.4	28/05/21	Soil																							X							1	
26	S053 0-0.1	28/05/21	Soil																							X							1	1
27	S053 0.4-0.5	28/05/21	Soil																							X							1	1
28	S059 0-0.1	28/05/21	Soil																							X							1	
29	S059 0.3-0.4	28/05/21	Soil				X				X	X																					1	1
30	S063 0-0.1	28/05/21	Soil																							X							1	1
31	S063 0.3-0.4	28/05/21	Soil																							X							1	
32	S072 0-0.1	28/05/21	Soil				X																										1	1
33	S072 0.3-0.4	28/05/21	Soil																							X							1	
34	S064 0-0.1	28/05/21	Soil																							X							1	1
35	S064 0.3-0.4	28/05/21	Soil																							X							1	
36	S071 0-0.1	28/05/21	Soil				X				X	X																					1	1
37	S071 0.3-0.4	28/05/21	Soil																							X							1	
38	S078 0-0.1	28/05/21	Soil																							X							1	1
39	S076 0.3-0.4	28/05/21	Soil				X																										1	1
40	S075 0-0.1	28/05/21	Soil																							X							1	1
41	S075 0.3-0.4	28/05/21	Soil																							X							1	
42	S081 0-0.1	28/05/21	Soil				X				X	X																					1	1
43	S081 0.3-0.4	28/05/21	Soil																							X							1	
44	S086 0-0.1	28/05/21	Soil																							X							1	1
45	S086 0.3-0.4	28/05/21	Soil																							X							1	1
46	S082 0-0.1	28/05/21	Soil				X																										1	1
47	S082 0.3-0.4	28/05/21	Soil																							X							1	
48	S084 0-0.1	28/05/21	Soil				X																										1	1
49	S084 0.3-0.4	28/05/21	Soil																							X							1	
50	S085 0-0.1	28/05/21	Soil				X				X	X																					1	1
51	S085 0.3-0.4	28/05/21	Soil																							X							1	
52	S095 0-0.1	28/05/21	Soil																							X							1	1
53	S095 0.3-0.4	28/05/21	Soil																							X							1	
54	S087 0-0.1	28/05/21	Soil																							X							1	1
55	S087 0.3-0.4	28/05/21	Soil																							X							1	
56	S096 0-0.1	28/05/21	Soil																							X							1	1
57	S096 0.3-0.4	28/05/21	Soil																							X							1	
58	S097 0-0.1	28/05/21	Soil																							X							1	1
59	S097 0.3-0.4	28/05/21	Soil																							X							1	
60	S098 0-0.1	28/05/21	Soil				X																										1	1
61	S098 0.3-0.4	28/05/21	Soil																							X							1	
62	S099 0-0.1	28/05/21	Soil																							X							1	1

Containers: Charge container type if size if necessary

Required Turnaround Time (TAT): Default will be 5 days if not ticked

- Surcharge will apply — Overnight reporting by 9am
- Same day
- 1 day
- 2 days
- 3 days
- 5 days (Standard)
- Other

Sample Comments / Dangerous Goods Hazard Warning

MR 18.2°C
31/5/21 4:30PM
#799439

| | | |

RE: Attention: Eurofins Sample Receipt Advice - Report 799439 : Site KEMPS CREEK (60330)

Ryan Lill <rlill@jbsg.com.au>

Thu 6/3/2021 3:57 PM

To: #AU04_Enviro_Sample_NSW <EnviroSampleNSW@eurofins.com>

EXTERNAL EMAIL*

Hi Mickael,

Thank you for your email – could the following actions please be addressed =)

- Could you please sample from the bag for S011 0-0.1 analysis.
- Would you be able to send through a picture of the duplicate samples taken at 134_0.0-0.1, having read our field notes I will be able to assist with determining the error.

Kind Regards,

Ryan

Ryan Lill | Project Manager | JBS&G
Sydney | Melbourne | Adelaide | Perth | Brisbane | Canberra | Darwin | Wollongong | Bunbury
Level 1, 50 Margaret Street Sydney NSW 2000
T: 02 8245 0300 | M: 0468 771 734 | E: rlill@jbsg.com.au |W: www.jbsg.com.au

Contaminated Land | Groundwater Remediation | Approvals and Assessments | Auditing and Compliance | Hygiene and Hazardous Materials | Due Diligence and Liability | Fire Management Planning | Stakeholder and Risk Management

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From: EnviroSampleNSW@eurofins.com <EnviroSampleNSW@eurofins.com>
Sent: Wednesday, 2 June 2021 10:27 PM
To: Rohan Hammond <RHammond@jbsg.com.au>
Cc: Ryan Lill <rlill@jbsg.com.au>
Subject: Attention: Eurofins Sample Receipt Advice - Report 799439 : Site KEMPS CREEK (60330)

[EXTERNAL EMAIL]** Stop and think before opening attachments, clicking or responding.

Dear Valued Client,

Insufficient sample in the jar received for sample S136 0-0.05, leachate analysis cancelled. No jar received for sample S011 0-0.1 (only 1x bag), please advise if you would like us to subsample from the bag for chemical analysis. No sample bag received for sample S123 0.3-0.4 (only 1x jar), Asbestos WA analysis cancelled. Samples S131 0-0.1, S132 0.4-0.5 and S134 0-0.1 received labelled as duplicate (sample colour and texture suggest they are different samples) and logged arbitrarily

as "A" and "B" on hold. Please advise which ones are to be analysed. Sample S133 not received, analysis cancelled. Samples S002 0.3-0.4, S122 0-0.1, S132 0-0.1 and S136 0.3-0.4 not received, hold cancelled. Sample S102 0.4-0.5 received as S102 0.3-0.4. Samples S030 0-0.05 (1x jar and 1x bag), S110 0.9-1.0, S121 2.9-3, S134 0.3-0.4, SW3_SED and two unlabelled samples (1x jar each) and S049 0-0.1 (1x bag) received as extra and logged on hold.

Please find attached an amended Sample Receipt Advice (SRA), an amended Summary Sheet and a scanned copy of your Chain-of-Custody (COC). It is important that you check this documentation to ensure that the details are correct such as the Client Job Number, Turn Around Time, any comments in the Notes section and sample numbers as well as the requested analysis. If there are any irregularities then please contact your Eurofins Analytical Services Manager as soon as possible to make certain that they get changed.

Kind regards,
Mickael Ros
Sample Receipt

Eurofins | Environmental Testing
Unit F3, Parkview Building
16 Mars Road
LANE COVE WEST NSW 2066
AUSTRALIA
Phone: +61 02 9900 8421
Email: EnviroSampleNSW@eurofins.com
Website: [http://]environment.eurofins.com.au

EnviroNote 1114 - Eurofins Mould Testing Laboratory is now NATA accredited
EnviroNote 1115 - Eurofins SYDNEY Laboratory is now NATA accredited for PFAS

* WARNING - EXTERNAL: This email originated from outside of Eurofins. Do not click any links or open any attachments unless you trust the sender and know that the content is safe!

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IANZ # 1290

Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Rohan Hammond
Project name:	KEMPS CREEK
Project ID:	60330
Turnaround time:	3 Day
Date/Time received	May 31, 2021 4:30 PM
Eurofins reference	799439

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 : 18.2 degrees Celsius.
✗	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
✓	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✗	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
✗	Split sample sent to requested external lab.
✗	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Insufficient sample in the jar received for sample S136 0-0.05, leachate analysis cancelled. No jar received for sample S011 0-0.1 (only 1x bag), please advise if you would like us to subsample from the bag for chemical analysis. No sample bag received for sample S123 0.3-0.4 (only 1x jar), Asbestos WA analysis cancelled. Samples S131 0-0.1, S132 0.4-0.5 and S134 0-0.1 received labelled as duplicate (sample colour and texture suggest they are different samples) and logged arbitrarily as "A" and "B" on hold. Please advise which ones are to be analysed. Sample S133 not received, analysis cancelled. Samples S002 0.3-0.4, S122 0-0.1, S132 0-0.1 and S136 0.3-0.4 not received, hold cancelled. Sample S102 0.4-0.5 received as S102 0.3-

Contact

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

Ursula Long on phone : or by email: UrsulaLong@eurofins.com

Results will be delivered electronically via email to Rohan Hammond - rhammond@jbsg.com.au.

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IANZ # 1290

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

Project Name: KEMPS CREEK
Project ID: 60330

Order No.:
Report #: 799439
Phone: 02 8245 0300
Fax:

Received: May 31, 2021 4:30 PM
Due: Jun 3, 2021
Priority: 3 Day
Contact Name: Rohan Hammond

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	CANCELLED	HOLD	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Acid Herbicides	USA Leaching Procedure	Metals M8	Volatile Organics	Moisture Set	Eurofins Suite B7	JBS&G Suite 2	BTEXN and Volatile TRH	BTEXN and Volatile TRH
Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																			
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory - NATA Site # 25079																			
External Laboratory																			
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**														
1	S001 0.3-0.4	May 28, 2021		Soil	S21-My61791										X	X			
2	S009 0-0.1	May 28, 2021		Soil	S21-My61792					X	X				X	X			
3	S010 0-0.1	May 28, 2021		Soil	S21-My61793	X													
4	S011 0-0.1	May 28, 2021		Soil	S21-My61794			X											
5	S015 0-0.1	May 28, 2021		Soil	S21-My61795										X	X			
6	S016 0-0.1	May 28, 2021		Soil	S21-My61796										X	X			
7	S052 0-0.1	May 28, 2021		Soil	S21-My61797					X	X		X		X				
8	S059 0.3-0.4	May 28, 2021		Soil	S21-My61798					X	X		X		X				
9	S072 0-0.1	May 28, 2021		Soil	S21-My61799								X		X				

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Project Name: KEMPS CREEK
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Contact Name: Rohan Hammond

Eurofins Analytical Services Manager : Ursula Long

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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																			
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory - NATA Site # 25079																			
External Laboratory																			
10	S071 0-0.1	May 28, 2021		Soil	S21-My61800					X	X		X		X				
11	S076 0.3-0.4	May 28, 2021		Soil	S21-My61801								X		X				
12	S081 0-0.1	May 28, 2021		Soil	S21-My61802					X	X		X		X				
13	S082 0-0.1	May 28, 2021		Soil	S21-My61803								X		X				
14	S084 0-0.1	May 28, 2021		Soil	S21-My61804								X		X				
15	S085 0-0.1	May 28, 2021		Soil	S21-My61805					X	X		X		X				
16	S098 0-0.1	May 28, 2021		Soil	S21-My61806								X		X				
17	S110 0-0.1	May 28, 2021		Soil	S21-My61807	X									X	X			
18	S119 0.9-1.0	May 28, 2021		Soil	S21-My61808	X									X	X			
19	S120 1.9-2.0	May 28, 2021		Soil	S21-My61809	X									X	X			
20	S121 0.9-1.0	May 28, 2021		Soil	S21-My61810	X									X	X			

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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																			
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory - NATA Site # 25079																			
External Laboratory																			
21	S123 0.3-0.4	May 28, 2021		Soil	S21-My61811		X												
22	S125 0-0.1	May 28, 2021		Soil	S21-My61812	X													
23	S131 0-0.1 (A)	May 28, 2021		Soil	S21-My61813			X											
24	S132 0.4-0.5 (A)	May 28, 2021		Soil	S21-My61814			X											
25	S133	May 28, 2021		Soil	S21-My61815		X												
26	S134 0.4-0.5	May 28, 2021		Soil	S21-My61816	X								X	X		X		
27	S135 0-0.05	May 28, 2021		Soil	S21-My61817	X									X	X			
28	S136 0-0.05	May 28, 2021		Soil	S21-My61818	X									X	X			
29	TRIP BLANK	May 28, 2021		Water	S21-My61819													X	
30	TRIP SPIKE	May 28, 2021		Water	S21-My61820														X

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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																			
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory - NATA Site # 25079																			
External Laboratory																			
31	RINSATE	May 28, 2021		Water	S21-My61821												X		
32	S135 0-0.05	May 28, 2021		US Leachate	S21-My61822				X			X	X						
33	S136 0-0.05	May 28, 2021		US Leachate	S21-My61823		X												
34	S001 0-0.1	May 28, 2021		Soil	S21-My61824			X											
35	S002 0-0.1	May 28, 2021		Soil	S21-My61825			X											
36	S002 0.3-0.4	May 28, 2021		Soil	S21-My61826		X												
37	S009 0.4-0.5	May 28, 2021		Soil	S21-My61827			X											
38	S009 1.4-1.5	May 28, 2021		Soil	S21-My61828			X											
39	S010 0.3-0.4	May 28, 2021		Soil	S21-My61829			X											
40	S010 0.9-1.0	May 28, 2021		Soil	S21-My61830			X											
41	S011 0.3-0.4	May 28, 2021		Soil	S21-My61831			X											

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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																			
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory - NATA Site # 25079																			
External Laboratory																			
42	S011 1.4-1.5	May 28, 2021		Soil	S21-My61832			X											
43	S014 0-0.1	May 28, 2021		Soil	S21-My61833			X											
44	S014 0.3-0.4	May 28, 2021		Soil	S21-My61834			X											
45	S015 0.3-0.4	May 28, 2021		Soil	S21-My61835			X											
46	S016 0.3-0.4	May 28, 2021		Soil	S21-My61836			X											
47	S048 0-0.1	May 28, 2021		Soil	S21-My61837			X											
48	S048 0.3-0.4	May 28, 2021		Soil	S21-My61838			X											
49	S060 0-0.1	May 28, 2021		Soil	S21-My61839			X											
50	S060 0.3-0.4	May 28, 2021		Soil	S21-My61840			X											
51	S052 0.3-0.4	May 28, 2021		Soil	S21-My61841			X											
52	S053 0-0.1	May 28, 2021		Soil	S21-My61842			X											

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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																			
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory - NATA Site # 25079																			
External Laboratory																			
53	S053 0.4-0.5	May 28, 2021		Soil	S21-My61843			X											
54	S059 0-0.1	May 28, 2021		Soil	S21-My61844			X											
55	S063 0-0.1	May 28, 2021		Soil	S21-My61845			X											
56	S063 0.3-0.4	May 28, 2021		Soil	S21-My61846			X											
57	S072 0.3-0.4	May 28, 2021		Soil	S21-My61847			X											
58	S064 0-0.1	May 28, 2021		Soil	S21-My61848			X											
59	S064 0.3-0.4	May 28, 2021		Soil	S21-My61849			X											
60	S071 0.3-0.4	May 28, 2021		Soil	S21-My61850			X											
61	S076 0-0.1	May 28, 2021		Soil	S21-My61851			X											
62	S075 0-0.1	May 28, 2021		Soil	S21-My61852			X											
63	S075 0.3-0.4	May 28, 2021		Soil	S21-My61853			X											

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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																			
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory - NATA Site # 25079																			
External Laboratory																			
64	S081 0.3-0.4	May 28, 2021		Soil	S21-My61854			X											
65	S086 0-0.1	May 28, 2021		Soil	S21-My61855			X											
66	S086 0.3-0.4	May 28, 2021		Soil	S21-My61856			X											
67	S082 0.3-0.4	May 28, 2021		Soil	S21-My61857			X											
68	S084 0.3-0.4	May 28, 2021		Soil	S21-My61858			X											
69	S085 0.3-0.4	May 28, 2021		Soil	S21-My61859			X											
70	S095 0-0.1	May 28, 2021		Soil	S21-My61860			X											
71	S095 0.3-0.4	May 28, 2021		Soil	S21-My61861			X											
72	S087 0-0.1	May 28, 2021		Soil	S21-My61862			X											
73	S087 0.3-0.4	May 28, 2021		Soil	S21-My61863			X											
74	S096 0-0.1	May 28, 2021		Soil	S21-My61864			X											

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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																			
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory - NATA Site # 25079																			
External Laboratory																			
75	S096 0.3-0.4	May 28, 2021		Soil	S21-My61865			X											
76	S097 0-0.1	May 28, 2021		Soil	S21-My61866			X											
77	S097 0.3-0.4	May 28, 2021		Soil	S21-My61867			X											
78	S098 0.3-0.4	May 28, 2021		Soil	S21-My61868			X											
79	S099 0-0.1	May 28, 2021		Soil	S21-My61869			X											
80	S099 0.3-0.4	May 28, 2021		Soil	S21-My61870			X											
81	S100 0-0.1	May 28, 2021		Soil	S21-My61871			X											
82	S100 0.3-0.4	May 28, 2021		Soil	S21-My61872			X											
83	S101 0-0.1	May 28, 2021		Soil	S21-My61873			X											
84	S101 0.4-0.5	May 28, 2021		Soil	S21-My61874			X											
85	S102 0-0.1	May 28, 2021		Soil	S21-My61875			X											

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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																			
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory - NATA Site # 25079																			
External Laboratory																			
86	S102 0.4-0.5	May 28, 2021		Soil	S21-My61876			X											
87	S110 0.4-0.5	May 28, 2021		Soil	S21-My61877			X											
88	S119 0-0.1	May 28, 2021		Soil	S21-My61878			X											
89	S119 0.3-0.4	May 28, 2021		Soil	S21-My61879			X											
90	S119 1.9-2.0	May 28, 2021		Soil	S21-My61880			X											
91	S120 0-0.1	May 28, 2021		Soil	S21-My61881			X											
92	S120 0.3-0.4	May 28, 2021		Soil	S21-My61882			X											
93	S120 0.9-1.0	May 28, 2021		Soil	S21-My61883			X											
94	S120 2.9-3.0	May 28, 2021		Soil	S21-My61884			X											
95	S121 0-0.1	May 28, 2021		Soil	S21-My61885			X											
96	S121 0.3-0.4	May 28, 2021		Soil	S21-My61886			X											

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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																			
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory - NATA Site # 25079																			
External Laboratory																			
97	S121 1.9-2.0	May 28, 2021		Soil	S21-My61887			X											
98	S122 0-0.1	May 28, 2021		Soil	S21-My61888		X												
99	S122 0.3-0.4	May 28, 2021		Soil	S21-My61889			X											
100	S123 0-0.1	May 28, 2021		Soil	S21-My61890			X											
101	S124 0-0.1	May 28, 2021		Soil	S21-My61891			X											
102	S124 0.3-0.4	May 28, 2021		Soil	S21-My61892			X											
103	S125 0.3-0.4	May 28, 2021		Soil	S21-My61893			X											
104	S126 0-0.1	May 28, 2021		Soil	S21-My61894			X											
105	S126 0.3-0.4	May 28, 2021		Soil	S21-My61895			X											
106	S131 0.2-0.3	May 28, 2021		Soil	S21-My61896			X											
107	S131 0.5-0.6	May 28, 2021		Soil	S21-My61897			X											

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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																			
Perth Laboratory - NATA Site # 23736																			
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External Laboratory																			
108	S132 0-0.1	May 28, 2021		Soil	S21-My61898		X												
109	S132 0.7-0.8	May 28, 2021		Soil	S21-My61899			X											
110	S132 1-1.1	May 28, 2021		Soil	S21-My61900			X											
111	S134 0-0.1 (A)	May 28, 2021		Soil	S21-My61901			X											
112	S134 0.9-1.0	May 28, 2021		Soil	S21-My61902			X											
113	S134 1.3-1.4	May 28, 2021		Soil	S21-My61903			X											
114	S134 1.6-1.7	May 28, 2021		Soil	S21-My61904			X											
115	S135 0.1-0.2	May 28, 2021		Soil	S21-My61905			X											
116	S136 0.3-0.4	May 28, 2021		Soil	S21-My61906		X												
117	S131 0-0.1 (B)	May 28, 2021		Soil	S21-My61907			X											
118	S132 0.4-0.5	May 28, 2021		Soil	S21-My61908			X											

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Sample Detail						Asbestos - WA guidelines	CANCELLED	HOLD	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Acid Herbicides	USA Leaching Procedure	Metals M8	Volatile Organics	Moisture Set	Eurofins Suite B7	JBS&G Suite 2	BTEXN and Volatile TRH	BTEXN and Volatile TRH
Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																			
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory - NATA Site # 25079																			
External Laboratory																			
	(B)																		
119	S134 0-0.1 (B)	May 28, 2021		Soil	S21-My61909			X											
120	S030 0-0.05	May 28, 2021		Soil	S21-My61910			X											
121	S049 0-0.1	May 28, 2021		Soil	S21-My61911			X											
122	S110 0.9-1.0	May 28, 2021		Soil	S21-My61912			X											
123	S112 0-0.1	May 28, 2021		Soil	S21-My61913			X											
124	S121 2.9-3	May 28, 2021		Soil	S21-My61914			X											
125	S134 0.3-0.4	May 28, 2021		Soil	S21-My61915			X											
126	SW3_SED	May 27, 2021		Soil	S21-My61916			X											
127	UNLABELLED JAR A	May 27, 2021		Soil	S21-My61917			X											

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
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Project Name: KEMPS CREEK
Project ID: 60330

Order No.:
Report #: 799439
Phone: 02 8245 0300
Fax:

Received: May 31, 2021 4:30 PM
Due: Jun 3, 2021
Priority: 3 Day
Contact Name: Rohan Hammond

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	CANCELLED	HOLD	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Acid Herbicides	USA Leaching Procedure	Metals M8	Volatile Organics	Moisture Set	Eurofins Suite B7	JBS&G Suite 2	BTEXN and Volatile TRH	BTEXN and Volatile TRH
Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																			
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory - NATA Site # 25079																			
External Laboratory																			
128	UNLABELLED JAR B	May 27, 2021		Soil	S21-My61918			X											
Test Counts						9	7	94	1	6	6	1	11	1	21	10	2	1	1

Certificate of Analysis

Environment Testing

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Site Number 18217

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JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
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Attention:	Rohan Hammond
Report	799439-AID
Project Name	KEMPS CREEK
Project ID	60330
Received Date	May 31, 2021
Date Reported	Jun 07, 2021

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.*

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Project Name KEMPS CREEK
Project ID 60330
Date Sampled May 28, 2021
Report 799439-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
S010 0-0.1	21-My61793	May 28, 2021	Approximate Sample 553g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
S110 0-0.1	21-My61807	May 28, 2021	Approximate Sample 569g Sample consisted of: Brown fine-grained clayey soil, organic debris and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
S119 0.9-1.0	21-My61808	May 28, 2021	Approximate Sample 388g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
S120 1.9-2.0	21-My61809	May 28, 2021	Approximate Sample 998g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
S121 0.9-1.0	21-My61810	May 28, 2021	Approximate Sample 561g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
S125 0-0.1	21-My61812	May 28, 2021	Approximate Sample 462g Sample consisted of: Brown fine-grained clayey soil, organic debris and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
S134 0.4-0.5	21-My61816	May 28, 2021	Approximate Sample 552g Sample consisted of: Brown fine-grained clayey soil, organic debris and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
S135 0-0.05	21-My61817	May 28, 2021	Approximate Sample 335g Sample consisted of: Brown fine-grained clayey soil, organic debris and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

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Site Number 18217

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Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
S136 0-0.05	21-My61818	May 28, 2021	Approximate Sample 166g / >500ml Sample consisted of: Brown coarse-grained soil, charcoal, glass fragments and rocks	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 is reported.

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

Description	Testing Site	Extracted	Holding Time
Asbestos - LTM-ASB-8020	Sydney	May 31, 2021	Indefinite

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Melbourne Laboratory - NATA Site # 1254 & 14271						X								
Sydney Laboratory - NATA Site # 18217	X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794														
Perth Laboratory - NATA Site # 23736														
Mayfield Laboratory - NATA Site # 25079														
External Laboratory														

No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID													
1	S001 0.3-0.4	May 28, 2021		Soil	S21-My61791										X	X		
2	S009 0-0.1	May 28, 2021		Soil	S21-My61792					X	X				X	X		
3	S010 0-0.1	May 28, 2021		Soil	S21-My61793	X												
4	S011 0-0.1	May 28, 2021		Soil	S21-My61794										X	X		
5	S015 0-0.1	May 28, 2021		Soil	S21-My61795										X	X		
6	S016 0-0.1	May 28, 2021		Soil	S21-My61796										X	X		
7	S052 0-0.1	May 28, 2021		Soil	S21-My61797					X	X		X		X			
8	S059 0.3-0.4	May 28, 2021		Soil	S21-My61798					X	X		X		X			
9	S072 0-0.1	May 28, 2021		Soil	S21-My61799								X		X			

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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																			
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory - NATA Site # 25079																			
External Laboratory																			
10	S071 0-0.1	May 28, 2021		Soil	S21-My61800					X	X		X		X				
11	S076 0.3-0.4	May 28, 2021		Soil	S21-My61801								X		X				
12	S081 0-0.1	May 28, 2021		Soil	S21-My61802					X	X		X		X				
13	S082 0-0.1	May 28, 2021		Soil	S21-My61803								X		X				
14	S084 0-0.1	May 28, 2021		Soil	S21-My61804								X		X				
15	S085 0-0.1	May 28, 2021		Soil	S21-My61805					X	X		X		X				
16	S098 0-0.1	May 28, 2021		Soil	S21-My61806								X		X				
17	S110 0-0.1	May 28, 2021		Soil	S21-My61807	X									X	X			
18	S119 0.9-1.0	May 28, 2021		Soil	S21-My61808	X									X	X			
19	S120 1.9-2.0	May 28, 2021		Soil	S21-My61809	X									X	X			
20	S121 0.9-1.0	May 28, 2021		Soil	S21-My61810	X									X	X			

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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																			
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory - NATA Site # 25079																			
External Laboratory																			
21	S123 0.3-0.4	May 28, 2021		Soil	S21-My61811		X												
22	S125 0-0.1	May 28, 2021		Soil	S21-My61812	X													
23	S131 0-0.1 (A)	May 28, 2021		Soil	S21-My61813			X											
24	S132 0.4-0.5 (A)	May 28, 2021		Soil	S21-My61814			X											
25	S133	May 28, 2021		Soil	S21-My61815		X												
26	S134 0.4-0.5	May 28, 2021		Soil	S21-My61816	X								X	X		X		
27	S135 0-0.05	May 28, 2021		Soil	S21-My61817	X									X	X			
28	S136 0-0.05	May 28, 2021		Soil	S21-My61818	X									X	X			
29	TRIP BLANK	May 28, 2021		Water	S21-My61819													X	
30	TRIP SPIKE	May 28, 2021		Water	S21-My61820														X

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Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																			
Perth Laboratory - NATA Site # 23736																			
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External Laboratory																			
31	RINSATE	May 28, 2021		Water	S21-My61821												X		
32	S135 0-0.05	May 28, 2021		US Leachate	S21-My61822				X			X	X						
33	S136 0-0.05	May 28, 2021		US Leachate	S21-My61823		X												
34	S001 0-0.1	May 28, 2021		Soil	S21-My61824			X											
35	S002 0-0.1	May 28, 2021		Soil	S21-My61825			X											
36	S002 0.3-0.4	May 28, 2021		Soil	S21-My61826		X												
37	S009 0.4-0.5	May 28, 2021		Soil	S21-My61827			X											
38	S009 1.4-1.5	May 28, 2021		Soil	S21-My61828			X											
39	S010 0.3-0.4	May 28, 2021		Soil	S21-My61829			X											
40	S010 0.9-1.0	May 28, 2021		Soil	S21-My61830			X											
41	S011 0.3-0.4	May 28, 2021		Soil	S21-My61831			X											

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42	S011 1.4-1.5	May 28, 2021		Soil	S21-My61832			X											
43	S014 0-0.1	May 28, 2021		Soil	S21-My61833			X											
44	S014 0.3-0.4	May 28, 2021		Soil	S21-My61834			X											
45	S015 0.3-0.4	May 28, 2021		Soil	S21-My61835			X											
46	S016 0.3-0.4	May 28, 2021		Soil	S21-My61836			X											
47	S048 0-0.1	May 28, 2021		Soil	S21-My61837			X											
48	S048 0.3-0.4	May 28, 2021		Soil	S21-My61838			X											
49	S060 0-0.1	May 28, 2021		Soil	S21-My61839			X											
50	S060 0.3-0.4	May 28, 2021		Soil	S21-My61840			X											
51	S052 0.3-0.4	May 28, 2021		Soil	S21-My61841			X											
52	S053 0-0.1	May 28, 2021		Soil	S21-My61842			X											

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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																			
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory - NATA Site # 25079																			
External Laboratory																			
53	S053 0.4-0.5	May 28, 2021		Soil	S21-My61843			X											
54	S059 0-0.1	May 28, 2021		Soil	S21-My61844			X											
55	S063 0-0.1	May 28, 2021		Soil	S21-My61845			X											
56	S063 0.3-0.4	May 28, 2021		Soil	S21-My61846			X											
57	S072 0.3-0.4	May 28, 2021		Soil	S21-My61847			X											
58	S064 0-0.1	May 28, 2021		Soil	S21-My61848			X											
59	S064 0.3-0.4	May 28, 2021		Soil	S21-My61849			X											
60	S071 0.3-0.4	May 28, 2021		Soil	S21-My61850			X											
61	S076 0-0.1	May 28, 2021		Soil	S21-My61851			X											
62	S075 0-0.1	May 28, 2021		Soil	S21-My61852			X											
63	S075 0.3-0.4	May 28, 2021		Soil	S21-My61853			X											

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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																			
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory - NATA Site # 25079																			
External Laboratory																			
64	S081 0.3-0.4	May 28, 2021		Soil	S21-My61854			X											
65	S086 0-0.1	May 28, 2021		Soil	S21-My61855			X											
66	S086 0.3-0.4	May 28, 2021		Soil	S21-My61856			X											
67	S082 0.3-0.4	May 28, 2021		Soil	S21-My61857			X											
68	S084 0.3-0.4	May 28, 2021		Soil	S21-My61858			X											
69	S085 0.3-0.4	May 28, 2021		Soil	S21-My61859			X											
70	S095 0-0.1	May 28, 2021		Soil	S21-My61860			X											
71	S095 0.3-0.4	May 28, 2021		Soil	S21-My61861			X											
72	S087 0-0.1	May 28, 2021		Soil	S21-My61862			X											
73	S087 0.3-0.4	May 28, 2021		Soil	S21-My61863			X											
74	S096 0-0.1	May 28, 2021		Soil	S21-My61864			X											

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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																			
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory - NATA Site # 25079																			
External Laboratory																			
75	S096 0.3-0.4	May 28, 2021		Soil	S21-My61865			X											
76	S097 0-0.1	May 28, 2021		Soil	S21-My61866			X											
77	S097 0.3-0.4	May 28, 2021		Soil	S21-My61867			X											
78	S098 0.3-0.4	May 28, 2021		Soil	S21-My61868			X											
79	S099 0-0.1	May 28, 2021		Soil	S21-My61869			X											
80	S099 0.3-0.4	May 28, 2021		Soil	S21-My61870			X											
81	S100 0-0.1	May 28, 2021		Soil	S21-My61871			X											
82	S100 0.3-0.4	May 28, 2021		Soil	S21-My61872			X											
83	S101 0-0.1	May 28, 2021		Soil	S21-My61873			X											
84	S101 0.4-0.5	May 28, 2021		Soil	S21-My61874			X											
85	S102 0-0.1	May 28, 2021		Soil	S21-My61875			X											

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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																			
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory - NATA Site # 25079																			
External Laboratory																			
86	S102 0.4-0.5	May 28, 2021		Soil	S21-My61876			X											
87	S110 0.4-0.5	May 28, 2021		Soil	S21-My61877			X											
88	S119 0-0.1	May 28, 2021		Soil	S21-My61878			X											
89	S119 0.3-0.4	May 28, 2021		Soil	S21-My61879			X											
90	S119 1.9-2.0	May 28, 2021		Soil	S21-My61880			X											
91	S120 0-0.1	May 28, 2021		Soil	S21-My61881			X											
92	S120 0.3-0.4	May 28, 2021		Soil	S21-My61882			X											
93	S120 0.9-1.0	May 28, 2021		Soil	S21-My61883			X											
94	S120 2.9-3.0	May 28, 2021		Soil	S21-My61884			X											
95	S121 0-0.1	May 28, 2021		Soil	S21-My61885			X											
96	S121 0.3-0.4	May 28, 2021		Soil	S21-My61886			X											

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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																			
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory - NATA Site # 25079																			
External Laboratory																			
97	S121 1.9-2.0	May 28, 2021		Soil	S21-My61887			X											
98	S122 0-0.1	May 28, 2021		Soil	S21-My61888		X												
99	S122 0.3-0.4	May 28, 2021		Soil	S21-My61889			X											
100	S123 0-0.1	May 28, 2021		Soil	S21-My61890			X											
101	S124 0-0.1	May 28, 2021		Soil	S21-My61891			X											
102	S124 0.3-0.4	May 28, 2021		Soil	S21-My61892			X											
103	S125 0.3-0.4	May 28, 2021		Soil	S21-My61893			X											
104	S126 0-0.1	May 28, 2021		Soil	S21-My61894			X											
105	S126 0.3-0.4	May 28, 2021		Soil	S21-My61895			X											
106	S131 0.2-0.3	May 28, 2021		Soil	S21-My61896			X											
107	S131 0.5-0.6	May 28, 2021		Soil	S21-My61897			X											

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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																			
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory - NATA Site # 25079																			
External Laboratory																			
108	S132 0-0.1	May 28, 2021		Soil	S21-My61898		X												
109	S132 0.7-0.8	May 28, 2021		Soil	S21-My61899			X											
110	S132 1-1.1	May 28, 2021		Soil	S21-My61900			X											
111	S134 0-0.1 (A)	May 28, 2021		Soil	S21-My61901			X											
112	S134 0.9-1.0	May 28, 2021		Soil	S21-My61902			X											
113	S134 1.3-1.4	May 28, 2021		Soil	S21-My61903			X											
114	S134 1.6-1.7	May 28, 2021		Soil	S21-My61904			X											
115	S135 0.1-0.2	May 28, 2021		Soil	S21-My61905			X											
116	S136 0.3-0.4	May 28, 2021		Soil	S21-My61906		X												
117	S131 0-0.1 (B)	May 28, 2021		Soil	S21-My61907			X											
118	S132 0.4-0.5	May 28, 2021		Soil	S21-My61908			X											

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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																			
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory - NATA Site # 25079																			
External Laboratory																			
	(B)																		
119	S134 0-0.1 (B)	May 28, 2021		Soil	S21-My61909			X											
120	S030 0-0.05	May 28, 2021		Soil	S21-My61910			X											
121	S049 0-0.1	May 28, 2021		Soil	S21-My61911			X											
122	S110 0.9-1.0	May 28, 2021		Soil	S21-My61912			X											
123	S112 0-0.1	May 28, 2021		Soil	S21-My61913			X											
124	S121 2.9-3	May 28, 2021		Soil	S21-My61914			X											
125	S134 0.3-0.4	May 28, 2021		Soil	S21-My61915			X											
126	SW3_SED	May 27, 2021		Soil	S21-My61916			X											
127	UNLABELLED JAR A	May 27, 2021		Soil	S21-My61917			X											

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Phone: 02 8245 0300
Fax:

Received: May 31, 2021 4:30 PM
Due: Jun 3, 2021
Priority: 3 Day
Contact Name: Rohan Hammond

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	CANCELLED	HOLD	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Acid Herbicides	USA Leaching Procedure	Metals M8	Volatile Organics	Moisture Set	Eurofins Suite B7	JBS&G Suite 2	BTEXN and Volatile TRH	BTEXN and Volatile TRH
Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																			
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory - NATA Site # 25079																			
External Laboratory																			
128	UNLABELLED JAR B	May 27, 2021		Soil	S21-My61918			X											
Test Counts						9	7	93	1	6	6	1	11	1	22	11	2	1	1

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 basis	grams per kilogram
Filter loading:	fibres/100 graticule areas
Reported Concentration:	fibres/mL
Flowrate:	L/min

Terms

Dry	Sample is dried by heating prior to analysis
LOR	Limit of Reporting
COC	Chain of Custody
SRA	Sample Receipt Advice
ISO	International Standards Organisation
AS	Australian Standards
WA DOH	Reference document for the NEPM. Government of Western Australia, Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia (2009), including supporting document Recommended 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-asbestos matrix, typically presented in bonded and/or sound condition. For the purposes of the NEPM, ACM is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
AF	Asbestos Fines. Asbestos containing materials, including friable, weathered and bonded materials, able to pass a 7mm x 7mm sieve. Considered under the NEPM as equivalent to “non-bonded / friable”.
FA	Fibrous Asbestos. Asbestos containing materials in a friable and/or severely weathered condition. For the purposes of the NEPM, FA is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
Friable	Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory’s remit to assess degree of friability.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres in the matrix.

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	No
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
N/A	Not applicable

Asbestos Counter/Identifier:

Chamath JHM Annakkage	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
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection and proficiency testing scheme providers reports.

Attention: **Rohan Hammond**

Report **799439-L**
Project name KEMPS CREEK
Project ID 60330
Received Date May 31, 2021

Client Sample ID			**S135 0-0.05**
Sample Matrix			**US Leachate**
Eurofins Sample No.			**S21-My61822**
Date Sampled			**May 28, 2021**
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	%	117
p-Terphenyl-d14 (surr.)	1	%	92
Heavy Metals			
Arsenic	0.01	mg/L	0.09
Cadmium	0.005	mg/L	< 0.005
Chromium	0.05	mg/L	< 0.05
Copper	0.05	mg/L	< 0.05
Lead	0.01	mg/L	< 0.01
Mercury	0.001	mg/L	< 0.001
Nickel	0.01	mg/L	< 0.01
Zinc	0.05	mg/L	0.15
USA Leaching Procedure			
Leachate Fluid[C01]		comment	1.0
pH (initial)	0.1	pH Units	7.7
pH (off)	0.1	pH Units	5.1
pH (USA HCl addition)	0.1	pH Units	1.8

Sample History

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

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

Description	Testing Site	Extracted	Holding Time
JBS&G Suite 2			
Polycyclic Aromatic Hydrocarbons	Sydney	Jun 01, 2021	7 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Metals M8	Sydney	Jun 03, 2021	180 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
USA Leaching Procedure	Sydney	Jun 01, 2021	14 Days
- Method: LTM-GEN-7010 Leaching Procedure for Soils & Solid Wastes			

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Melbourne Laboratory - NATA Site # 1254 & 14271						X								
Sydney Laboratory - NATA Site # 18217	X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794														
Perth Laboratory - NATA Site # 23736														
Mayfield Laboratory - NATA Site # 25079														
External Laboratory														

No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID													
1	S001 0.3-0.4	May 28, 2021		Soil	S21-My61791										X	X		
2	S009 0-0.1	May 28, 2021		Soil	S21-My61792					X	X				X	X		
3	S010 0-0.1	May 28, 2021		Soil	S21-My61793	X												
4	S011 0-0.1	May 28, 2021		Soil	S21-My61794			X										
5	S015 0-0.1	May 28, 2021		Soil	S21-My61795										X	X		
6	S016 0-0.1	May 28, 2021		Soil	S21-My61796										X	X		
7	S052 0-0.1	May 28, 2021		Soil	S21-My61797					X	X		X		X			
8	S059 0.3-0.4	May 28, 2021		Soil	S21-My61798					X	X		X		X			
9	S072 0-0.1	May 28, 2021		Soil	S21-My61799								X		X			

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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																			
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory - NATA Site # 25079																			
External Laboratory																			
10	S071 0-0.1	May 28, 2021		Soil	S21-My61800					X	X		X		X				
11	S076 0.3-0.4	May 28, 2021		Soil	S21-My61801								X		X				
12	S081 0-0.1	May 28, 2021		Soil	S21-My61802					X	X		X		X				
13	S082 0-0.1	May 28, 2021		Soil	S21-My61803								X		X				
14	S084 0-0.1	May 28, 2021		Soil	S21-My61804								X		X				
15	S085 0-0.1	May 28, 2021		Soil	S21-My61805					X	X		X		X				
16	S098 0-0.1	May 28, 2021		Soil	S21-My61806								X		X				
17	S110 0-0.1	May 28, 2021		Soil	S21-My61807	X									X	X			
18	S119 0.9-1.0	May 28, 2021		Soil	S21-My61808	X									X	X			
19	S120 1.9-2.0	May 28, 2021		Soil	S21-My61809	X									X	X			
20	S121 0.9-1.0	May 28, 2021		Soil	S21-My61810	X									X	X			

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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																			
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory - NATA Site # 25079																			
External Laboratory																			
21	S123 0.3-0.4	May 28, 2021		Soil	S21-My61811		X												
22	S125 0-0.1	May 28, 2021		Soil	S21-My61812	X													
23	S131 0-0.1 (A)	May 28, 2021		Soil	S21-My61813			X											
24	S132 0.4-0.5 (A)	May 28, 2021		Soil	S21-My61814			X											
25	S133	May 28, 2021		Soil	S21-My61815		X												
26	S134 0.4-0.5	May 28, 2021		Soil	S21-My61816	X								X	X		X		
27	S135 0-0.05	May 28, 2021		Soil	S21-My61817	X									X	X			
28	S136 0-0.05	May 28, 2021		Soil	S21-My61818	X									X	X			
29	TRIP BLANK	May 28, 2021		Water	S21-My61819													X	
30	TRIP SPIKE	May 28, 2021		Water	S21-My61820														X

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Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																			
Perth Laboratory - NATA Site # 23736																			
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External Laboratory																			
31	RINSATE	May 28, 2021		Water	S21-My61821												X		
32	S135 0-0.05	May 28, 2021		US Leachate	S21-My61822				X			X	X						
33	S136 0-0.05	May 28, 2021		US Leachate	S21-My61823		X												
34	S001 0-0.1	May 28, 2021		Soil	S21-My61824			X											
35	S002 0-0.1	May 28, 2021		Soil	S21-My61825			X											
36	S002 0.3-0.4	May 28, 2021		Soil	S21-My61826		X												
37	S009 0.4-0.5	May 28, 2021		Soil	S21-My61827			X											
38	S009 1.4-1.5	May 28, 2021		Soil	S21-My61828			X											
39	S010 0.3-0.4	May 28, 2021		Soil	S21-My61829			X											
40	S010 0.9-1.0	May 28, 2021		Soil	S21-My61830			X											
41	S011 0.3-0.4	May 28, 2021		Soil	S21-My61831			X											

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Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																			
Perth Laboratory - NATA Site # 23736																			
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External Laboratory																			
42	S011 1.4-1.5	May 28, 2021		Soil	S21-My61832			X											
43	S014 0-0.1	May 28, 2021		Soil	S21-My61833			X											
44	S014 0.3-0.4	May 28, 2021		Soil	S21-My61834			X											
45	S015 0.3-0.4	May 28, 2021		Soil	S21-My61835			X											
46	S016 0.3-0.4	May 28, 2021		Soil	S21-My61836			X											
47	S048 0-0.1	May 28, 2021		Soil	S21-My61837			X											
48	S048 0.3-0.4	May 28, 2021		Soil	S21-My61838			X											
49	S060 0-0.1	May 28, 2021		Soil	S21-My61839			X											
50	S060 0.3-0.4	May 28, 2021		Soil	S21-My61840			X											
51	S052 0.3-0.4	May 28, 2021		Soil	S21-My61841			X											
52	S053 0-0.1	May 28, 2021		Soil	S21-My61842			X											

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Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	CANCELLED	HOLD	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Acid Herbicides	USA Leaching Procedure	Metals M8	Volatile Organics	Moisture Set	Eurofins Suite B7	JBS&G Suite 2	BTEXN and Volatile TRH	BTEXN and Volatile TRH
Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																			
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory - NATA Site # 25079																			
External Laboratory																			
53	S053 0.4-0.5	May 28, 2021		Soil	S21-My61843			X											
54	S059 0-0.1	May 28, 2021		Soil	S21-My61844			X											
55	S063 0-0.1	May 28, 2021		Soil	S21-My61845			X											
56	S063 0.3-0.4	May 28, 2021		Soil	S21-My61846			X											
57	S072 0.3-0.4	May 28, 2021		Soil	S21-My61847			X											
58	S064 0-0.1	May 28, 2021		Soil	S21-My61848			X											
59	S064 0.3-0.4	May 28, 2021		Soil	S21-My61849			X											
60	S071 0.3-0.4	May 28, 2021		Soil	S21-My61850			X											
61	S076 0-0.1	May 28, 2021		Soil	S21-My61851			X											
62	S075 0-0.1	May 28, 2021		Soil	S21-My61852			X											
63	S075 0.3-0.4	May 28, 2021		Soil	S21-My61853			X											

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Project ID: 60330

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Fax:

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Due: Jun 3, 2021
Priority: 3 Day
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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																			
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory - NATA Site # 25079																			
External Laboratory																			
64	S081 0.3-0.4	May 28, 2021		Soil	S21-My61854			X											
65	S086 0-0.1	May 28, 2021		Soil	S21-My61855			X											
66	S086 0.3-0.4	May 28, 2021		Soil	S21-My61856			X											
67	S082 0.3-0.4	May 28, 2021		Soil	S21-My61857			X											
68	S084 0.3-0.4	May 28, 2021		Soil	S21-My61858			X											
69	S085 0.3-0.4	May 28, 2021		Soil	S21-My61859			X											
70	S095 0-0.1	May 28, 2021		Soil	S21-My61860			X											
71	S095 0.3-0.4	May 28, 2021		Soil	S21-My61861			X											
72	S087 0-0.1	May 28, 2021		Soil	S21-My61862			X											
73	S087 0.3-0.4	May 28, 2021		Soil	S21-My61863			X											
74	S096 0-0.1	May 28, 2021		Soil	S21-My61864			X											

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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																			
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory - NATA Site # 25079																			
External Laboratory																			
75	S096 0.3-0.4	May 28, 2021		Soil	S21-My61865			X											
76	S097 0-0.1	May 28, 2021		Soil	S21-My61866			X											
77	S097 0.3-0.4	May 28, 2021		Soil	S21-My61867			X											
78	S098 0.3-0.4	May 28, 2021		Soil	S21-My61868			X											
79	S099 0-0.1	May 28, 2021		Soil	S21-My61869			X											
80	S099 0.3-0.4	May 28, 2021		Soil	S21-My61870			X											
81	S100 0-0.1	May 28, 2021		Soil	S21-My61871			X											
82	S100 0.3-0.4	May 28, 2021		Soil	S21-My61872			X											
83	S101 0-0.1	May 28, 2021		Soil	S21-My61873			X											
84	S101 0.4-0.5	May 28, 2021		Soil	S21-My61874			X											
85	S102 0-0.1	May 28, 2021		Soil	S21-My61875			X											

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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																			
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory - NATA Site # 25079																			
External Laboratory																			
86	S102 0.4-0.5	May 28, 2021		Soil	S21-My61876			X											
87	S110 0.4-0.5	May 28, 2021		Soil	S21-My61877			X											
88	S119 0-0.1	May 28, 2021		Soil	S21-My61878			X											
89	S119 0.3-0.4	May 28, 2021		Soil	S21-My61879			X											
90	S119 1.9-2.0	May 28, 2021		Soil	S21-My61880			X											
91	S120 0-0.1	May 28, 2021		Soil	S21-My61881			X											
92	S120 0.3-0.4	May 28, 2021		Soil	S21-My61882			X											
93	S120 0.9-1.0	May 28, 2021		Soil	S21-My61883			X											
94	S120 2.9-3.0	May 28, 2021		Soil	S21-My61884			X											
95	S121 0-0.1	May 28, 2021		Soil	S21-My61885			X											
96	S121 0.3-0.4	May 28, 2021		Soil	S21-My61886			X											

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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																			
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory - NATA Site # 25079																			
External Laboratory																			
97	S121 1.9-2.0	May 28, 2021		Soil	S21-My61887			X											
98	S122 0-0.1	May 28, 2021		Soil	S21-My61888		X												
99	S122 0.3-0.4	May 28, 2021		Soil	S21-My61889			X											
100	S123 0-0.1	May 28, 2021		Soil	S21-My61890			X											
101	S124 0-0.1	May 28, 2021		Soil	S21-My61891			X											
102	S124 0.3-0.4	May 28, 2021		Soil	S21-My61892			X											
103	S125 0.3-0.4	May 28, 2021		Soil	S21-My61893			X											
104	S126 0-0.1	May 28, 2021		Soil	S21-My61894			X											
105	S126 0.3-0.4	May 28, 2021		Soil	S21-My61895			X											
106	S131 0.2-0.3	May 28, 2021		Soil	S21-My61896			X											
107	S131 0.5-0.6	May 28, 2021		Soil	S21-My61897			X											

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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																			
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory - NATA Site # 25079																			
External Laboratory																			
108	S132 0-0.1	May 28, 2021		Soil	S21-My61898		X												
109	S132 0.7-0.8	May 28, 2021		Soil	S21-My61899			X											
110	S132 1-1.1	May 28, 2021		Soil	S21-My61900			X											
111	S134 0-0.1 (A)	May 28, 2021		Soil	S21-My61901			X											
112	S134 0.9-1.0	May 28, 2021		Soil	S21-My61902			X											
113	S134 1.3-1.4	May 28, 2021		Soil	S21-My61903			X											
114	S134 1.6-1.7	May 28, 2021		Soil	S21-My61904			X											
115	S135 0.1-0.2	May 28, 2021		Soil	S21-My61905			X											
116	S136 0.3-0.4	May 28, 2021		Soil	S21-My61906		X												
117	S131 0-0.1 (B)	May 28, 2021		Soil	S21-My61907			X											
118	S132 0.4-0.5	May 28, 2021		Soil	S21-My61908			X											

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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																			
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory - NATA Site # 25079																			
External Laboratory																			
	(B)																		
119	S134 0-0.1 (B)	May 28, 2021		Soil	S21-My61909			X											
120	S030 0-0.05	May 28, 2021		Soil	S21-My61910			X											
121	S049 0-0.1	May 28, 2021		Soil	S21-My61911			X											
122	S110 0.9-1.0	May 28, 2021		Soil	S21-My61912			X											
123	S112 0-0.1	May 28, 2021		Soil	S21-My61913			X											
124	S121 2.9-3	May 28, 2021		Soil	S21-My61914			X											
125	S134 0.3-0.4	May 28, 2021		Soil	S21-My61915			X											
126	SW3_SED	May 27, 2021		Soil	S21-My61916			X											
127	UNLABELLED JAR A	May 27, 2021		Soil	S21-My61917			X											

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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																			
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory - NATA Site # 25079																			
External Laboratory																			
128	UNLABELLED JAR B	May 27, 2021		Soil	S21-My61918			X											
Test Counts						9	7	94	1	6	6	1	11	1	21	10	2	1	1

Internal Quality Control Review and Glossary

General

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

Holding Times

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

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

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

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

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

****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
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient

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.
5. 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 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							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/L	< 0.001			0.001	Pass	
Acenaphthylene	mg/L	< 0.001			0.001	Pass	
Anthracene	mg/L	< 0.001			0.001	Pass	
Benz(a)anthracene	mg/L	< 0.001			0.001	Pass	
Benzo(a)pyrene	mg/L	< 0.001			0.001	Pass	
Benzo(b&j)fluoranthene	mg/L	< 0.001			0.001	Pass	
Benzo(g.h.i)perylene	mg/L	< 0.001			0.001	Pass	
Benzo(k)fluoranthene	mg/L	< 0.001			0.001	Pass	
Chrysene	mg/L	< 0.001			0.001	Pass	
Dibenz(a.h)anthracene	mg/L	< 0.001			0.001	Pass	
Fluoranthene	mg/L	< 0.001			0.001	Pass	
Fluorene	mg/L	< 0.001			0.001	Pass	
Indeno(1.2.3-cd)pyrene	mg/L	< 0.001			0.001	Pass	
Naphthalene	mg/L	< 0.001			0.001	Pass	
Phenanthrene	mg/L	< 0.001			0.001	Pass	
Pyrene	mg/L	< 0.001			0.001	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/L	< 0.01			0.01	Pass	
Cadmium	mg/L	< 0.005			0.005	Pass	
Chromium	mg/L	< 0.05			0.05	Pass	
Copper	mg/L	< 0.05			0.05	Pass	
Lead	mg/L	< 0.01			0.01	Pass	
Mercury	mg/L	< 0.001			0.001	Pass	
Nickel	mg/L	< 0.01			0.01	Pass	
Zinc	mg/L	< 0.05			0.05	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	93			70-130	Pass	
Acenaphthylene	%	104			70-130	Pass	
Anthracene	%	129			70-130	Pass	
Benz(a)anthracene	%	120			70-130	Pass	
Benzo(a)pyrene	%	124			70-130	Pass	
Benzo(k)fluoranthene	%	112			70-130	Pass	
Chrysene	%	111			70-130	Pass	
Fluoranthene	%	126			70-130	Pass	
Fluorene	%	109			70-130	Pass	
Naphthalene	%	87			70-130	Pass	
Phenanthrene	%	123			70-130	Pass	
Pyrene	%	118			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	108			80-120	Pass	
Cadmium	%	82			80-120	Pass	
Chromium	%	100			80-120	Pass	
Copper	%	96			80-120	Pass	
Lead	%	97			80-120	Pass	
Mercury	%	83			80-120	Pass	
Nickel	%	95			80-120	Pass	
Zinc	%	87			80-120	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S21-My59103	NCP	%	100			75-125	Pass	
Cadmium	S21-My59103	NCP	%	99			75-125	Pass	
Chromium	S21-My59103	NCP	%	86			75-125	Pass	
Copper	S21-My60820	NCP	%	96			75-125	Pass	
Lead	S21-My59103	NCP	%	84			75-125	Pass	
Mercury	S21-My59103	NCP	%	92			75-125	Pass	
Nickel	S21-My60820	NCP	%	97			75-125	Pass	
Zinc	B21-My50644	NCP	%	102			75-125	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S21-My59090	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Cadmium	S21-My59090	NCP	mg/L	0.19	0.18	3.0	30%	Pass	
Chromium	S21-My59090	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
Copper	S21-My59090	NCP	mg/L	6.3	6.1	3.0	30%	Pass	
Lead	S21-My59090	NCP	mg/L	0.61	0.57	6.0	30%	Pass	
Mercury	S21-My59090	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Nickel	S21-My59090	NCP	mg/L	0.03	0.03	3.0	30%	Pass	
Zinc	S21-My59090	NCP	mg/L	10	10	1.0	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	No
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
C01	Leachate Fluid Key: 1 - pH 5.0; 2 - pH 2.9; 3 - pH 9.2; 4 - Reagent (DI) water; 5 - Client sample, 6 - other
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs

Authorised by:

John Nguyen	Analytical Services Manager
Andrew Sullivan	Senior Analyst-Organic (NSW)
John Nguyen	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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Attention: **Rohan Hammond**

Report **799439-S**
Project name KEMPS CREEK
Project ID 60330
Received Date May 31, 2021

Client Sample ID			**S001 0.3-0.4**	[G01]**S009 0-0.1**	**S011 0-0.1**	**S015 0-0.1**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**S21-My61791**	**S21-My61792**	**S21-My61794**	**S21-My61795**
Date Sampled			**May 28, 2021**	**May 28, 2021**	**May 28, 2021**	**May 28, 2021**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 100	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 100	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 250	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 250	< 50	77
TRH C10-C36 (Total)	50	mg/kg	< 50	< 250	< 50	77
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.5	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.5	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.5	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 1	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.5	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 1.5	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	121	115	85	120
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 2.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 100	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 100	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 250	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 250	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 500	< 100	100
TRH >C34-C40	100	mg/kg	< 100	< 500	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 500	< 100	100
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			S001 0.3-0.4	[G01]S009 0-0.1	S011 0-0.1	S015 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-My61791	S21-My61792	S21-My61794	S21-My61795
Date Sampled			May 28, 2021	May 28, 2021	May 28, 2021	May 28, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	88	105	93	94
p-Terphenyl-d14 (surr.)	1	%	72	87	94	99
Heavy Metals						
Arsenic	2	mg/kg	15	9.4	4.9	8.1
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	31	24	16	24
Copper	5	mg/kg	42	20	6.1	29
Lead	5	mg/kg	35	24	5.8	19
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	15	12	< 5	15
Zinc	5	mg/kg	70	39	9.8	130
% Moisture	1	%	24	20	22	16
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	0.1	mg/kg	-	< 0.1	-	-
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	%	-	77	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	88	-	-

Client Sample ID			S001 0.3-0.4	[G01]S009 0-0.1	S011 0-0.1	S015 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-My61791	S21-My61792	S21-My61794	S21-My61795
Date Sampled			May 28, 2021	May 28, 2021	May 28, 2021	May 28, 2021
Test/Reference	LOR	Unit				
Acid Herbicides						
2.4-D	0.5	mg/kg	-	< 0.5	-	-
2.4-DB	0.5	mg/kg	-	< 0.5	-	-
2.4.5-T	0.5	mg/kg	-	< 0.5	-	-
2.4.5-TP	0.5	mg/kg	-	< 0.5	-	-
Actril (loxynil)	0.5	mg/kg	-	< 0.5	-	-
Dicamba	0.5	mg/kg	-	< 0.5	-	-
Dichlorprop	0.5	mg/kg	-	< 0.5	-	-
Dinitro-o-cresol	0.5	mg/kg	-	< 0.5	-	-
Dinoseb	0.5	mg/kg	-	< 0.5	-	-
MCPA	0.5	mg/kg	-	< 0.5	-	-
MCPB	0.5	mg/kg	-	< 0.5	-	-
Mecoprop	0.5	mg/kg	-	< 0.5	-	-
Warfarin (surr.)	1	%	-	71	-	-

Client Sample ID			S016 0-0.1	S052 0-0.1	S059 0.3-0.4	S072 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-My61796	S21-My61797	S21-My61798	S21-My61799
Date Sampled			May 28, 2021	May 28, 2021	May 28, 2021	May 28, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	-	-	-
TRH C10-C14	20	mg/kg	< 20	-	-	-
TRH C15-C28	50	mg/kg	< 50	-	-	-
TRH C29-C36	50	mg/kg	< 50	-	-	-
TRH C10-C36 (Total)	50	mg/kg	< 50	-	-	-
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	-	-
Toluene	0.1	mg/kg	< 0.1	-	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	-
o-Xylene	0.1	mg/kg	< 0.1	-	-	-
Xylenes - Total*	0.3	mg/kg	< 0.3	-	-	-
4-Bromofluorobenzene (surr.)	1	%	99	-	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	-	-
TRH C6-C10	20	mg/kg	< 20	-	-	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-	-	-
TRH >C10-C16	50	mg/kg	< 50	-	-	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	-	-	-
TRH >C16-C34	100	mg/kg	< 100	-	-	-
TRH >C34-C40	100	mg/kg	< 100	-	-	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	-	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	-	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	-	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	-	-
Acenaphthene	0.5	mg/kg	< 0.5	-	-	-
Acenaphthylene	0.5	mg/kg	< 0.5	-	-	-

Client Sample ID			S016 0-0.1	S052 0-0.1	S059 0.3-0.4	S072 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-My61796	S21-My61797	S21-My61798	S21-My61799
Date Sampled			May 28, 2021	May 28, 2021	May 28, 2021	May 28, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Anthracene	0.5	mg/kg	< 0.5	-	-	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	-	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	-	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	-	-	-
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	-	-	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	-	-
Chrysene	0.5	mg/kg	< 0.5	-	-	-
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	-	-	-
Fluoranthene	0.5	mg/kg	< 0.5	-	-	-
Fluorene	0.5	mg/kg	< 0.5	-	-	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	-	-
Naphthalene	0.5	mg/kg	< 0.5	-	-	-
Phenanthrene	0.5	mg/kg	< 0.5	-	-	-
Pyrene	0.5	mg/kg	< 0.5	-	-	-
Total PAH*	0.5	mg/kg	< 0.5	-	-	-
2-Fluorobiphenyl (surr.)	1	%	94	-	-	-
p-Terphenyl-d14 (surr.)	1	%	102	-	-	-
Heavy Metals						
Arsenic	2	mg/kg	7.5	6.9	9.7	11
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	20	19	23	22
Copper	5	mg/kg	45	18	38	14
Lead	5	mg/kg	19	14	16	17
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	14	9.0	12	7.6
Zinc	5	mg/kg	100	31	53	33
% Moisture	1	%	46	13	20	15
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	< 0.1	-
4.4'-DDD	0.05	mg/kg	-	< 0.05	< 0.05	-
4.4'-DDE	0.05	mg/kg	-	< 0.05	< 0.05	-
4.4'-DDT	0.05	mg/kg	-	< 0.05	< 0.05	-
a-BHC	0.05	mg/kg	-	< 0.05	< 0.05	-
Aldrin	0.05	mg/kg	-	< 0.05	< 0.05	-
b-BHC	0.05	mg/kg	-	< 0.05	< 0.05	-
d-BHC	0.05	mg/kg	-	< 0.05	< 0.05	-
Dieldrin	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan I	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan II	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	< 0.05	-
Endrin	0.05	mg/kg	-	< 0.05	< 0.05	-
Endrin aldehyde	0.05	mg/kg	-	< 0.05	< 0.05	-
Endrin ketone	0.05	mg/kg	-	< 0.05	< 0.05	-
g-BHC (Lindane)	0.05	mg/kg	-	< 0.05	< 0.05	-
Heptachlor	0.05	mg/kg	-	< 0.05	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	< 0.05	-
Methoxychlor	0.2	mg/kg	-	< 0.2	< 0.2	-

Client Sample ID			S016 0-0.1	S052 0-0.1	S059 0.3-0.4	S072 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-My61796	S21-My61797	S21-My61798	S21-My61799
Date Sampled			May 28, 2021	May 28, 2021	May 28, 2021	May 28, 2021
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Toxaphene	0.1	mg/kg	-	< 0.1	< 0.1	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.2	< 0.2	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.2	< 0.2	-
Dibutylchlorendate (surr.)	1	%	-	64	69	-
Tetrachloro-m-xylene (surr.)	1	%	-	76	71	-
Acid Herbicides						
2.4-D	0.5	mg/kg	-	< 0.5	< 0.5	-
2.4-DB	0.5	mg/kg	-	< 0.5	< 0.5	-
2.4.5-T	0.5	mg/kg	-	< 0.5	< 0.5	-
2.4.5-TP	0.5	mg/kg	-	< 0.5	< 0.5	-
Actril (loxynil)	0.5	mg/kg	-	< 0.5	< 0.5	-
Dicamba	0.5	mg/kg	-	< 0.5	< 0.5	-
Dichlorprop	0.5	mg/kg	-	< 0.5	< 0.5	-
Dinitro-o-cresol	0.5	mg/kg	-	< 0.5	< 0.5	-
Dinoseb	0.5	mg/kg	-	< 0.5	< 0.5	-
MCPA	0.5	mg/kg	-	< 0.5	< 0.5	-
MCPB	0.5	mg/kg	-	< 0.5	< 0.5	-
Mecoprop	0.5	mg/kg	-	< 0.5	< 0.5	-
Warfarin (surr.)	1	%	-	74	115	-

Client Sample ID			S071 0-0.1	S076 0.3-0.4	S081 0-0.1	S082 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-My61800	S21-My61801	S21-My61802	S21-My61803
Date Sampled			May 28, 2021	May 28, 2021	May 28, 2021	May 28, 2021
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	11	12	14	11
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	23	23	26	21
Copper	5	mg/kg	26	32	29	22
Lead	5	mg/kg	15	12	21	13
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	13	20	9.9	7.6
Zinc	5	mg/kg	54	87	80	32
% Moisture	1	%	15	19	19	19
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	< 0.1	-
4.4'-DDD	0.05	mg/kg	< 0.05	-	< 0.05	-
4.4'-DDE	0.05	mg/kg	< 0.05	-	< 0.05	-
4.4'-DDT	0.05	mg/kg	< 0.05	-	< 0.05	-
a-BHC	0.05	mg/kg	< 0.05	-	< 0.05	-
Aldrin	0.05	mg/kg	< 0.05	-	< 0.05	-
b-BHC	0.05	mg/kg	< 0.05	-	< 0.05	-
d-BHC	0.05	mg/kg	< 0.05	-	< 0.05	-
Dieldrin	0.05	mg/kg	< 0.05	-	< 0.05	-

Client Sample ID			S071 0-0.1	S076 0.3-0.4	S081 0-0.1	S082 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-My61800	S21-My61801	S21-My61802	S21-My61803
Date Sampled			May 28, 2021	May 28, 2021	May 28, 2021	May 28, 2021
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Endosulfan I	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan II	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin ketone	0.05	mg/kg	< 0.05	-	< 0.05	-
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	< 0.05	-
Heptachlor	0.05	mg/kg	< 0.05	-	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	< 0.05	-
Methoxychlor	0.2	mg/kg	< 0.2	-	< 0.2	-
Toxaphene	0.1	mg/kg	< 0.1	-	< 0.1	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.2	-	< 0.2	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.2	-	< 0.2	-
Dibutylchlorendate (surr.)	1	%	76	-	74	-
Tetrachloro-m-xylene (surr.)	1	%	75	-	69	-
Acid Herbicides						
2.4-D	0.5	mg/kg	< 0.5	-	< 0.5	-
2.4-DB	0.5	mg/kg	< 0.5	-	< 0.5	-
2.4.5-T	0.5	mg/kg	< 0.5	-	< 0.5	-
2.4.5-TP	0.5	mg/kg	< 0.5	-	< 0.5	-
Actril (loxynil)	0.5	mg/kg	< 0.5	-	< 0.5	-
Dicamba	0.5	mg/kg	< 0.5	-	< 0.5	-
Dichlorprop	0.5	mg/kg	< 0.5	-	< 0.5	-
Dinitro-o-cresol	0.5	mg/kg	< 0.5	-	< 0.5	-
Dinoseb	0.5	mg/kg	< 0.5	-	< 0.5	-
MCPA	0.5	mg/kg	< 0.5	-	< 0.5	-
MCPB	0.5	mg/kg	< 0.5	-	< 0.5	-
Mecoprop	0.5	mg/kg	< 0.5	-	< 0.5	-
Warfarin (surr.)	1	%	76	-	75	-

Client Sample ID			S084 0-0.1	S085 0-0.1	S098 0-0.1	S110 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-My61804	S21-My61805	S21-My61806	S21-My61807
Date Sampled			May 28, 2021	May 28, 2021	May 28, 2021	May 28, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	-	-	< 20
TRH C10-C14	20	mg/kg	-	-	-	< 20
TRH C15-C28	50	mg/kg	-	-	-	< 50
TRH C29-C36	50	mg/kg	-	-	-	< 50
TRH C10-C36 (Total)	50	mg/kg	-	-	-	< 50

Client Sample ID			S084 0-0.1	S085 0-0.1	S098 0-0.1	S110 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-My61804	S21-My61805	S21-My61806	S21-My61807
Date Sampled			May 28, 2021	May 28, 2021	May 28, 2021	May 28, 2021
Test/Reference	LOR	Unit				
BTEX						
Benzene	0.1	mg/kg	-	-	-	< 0.1
Toluene	0.1	mg/kg	-	-	-	< 0.1
Ethylbenzene	0.1	mg/kg	-	-	-	< 0.1
m&p-Xylenes	0.2	mg/kg	-	-	-	< 0.2
o-Xylene	0.1	mg/kg	-	-	-	< 0.1
Xylenes - Total*	0.3	mg/kg	-	-	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	-	-	72
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	-	-	< 0.5
TRH C6-C10	20	mg/kg	-	-	-	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	-	-	< 20
TRH >C10-C16	50	mg/kg	-	-	-	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	-	-	< 50
TRH >C16-C34	100	mg/kg	-	-	-	< 100
TRH >C34-C40	100	mg/kg	-	-	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	-	-	< 100
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	-	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	-	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	-	-	1.2
Acenaphthene	0.5	mg/kg	-	-	-	< 0.5
Acenaphthylene	0.5	mg/kg	-	-	-	< 0.5
Anthracene	0.5	mg/kg	-	-	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	-	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	-	-	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	-	-	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	-	-	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	-	-	< 0.5
Chrysene	0.5	mg/kg	-	-	-	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	-	-	-	< 0.5
Fluoranthene	0.5	mg/kg	-	-	-	< 0.5
Fluorene	0.5	mg/kg	-	-	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	-	-	< 0.5
Naphthalene	0.5	mg/kg	-	-	-	< 0.5
Phenanthrene	0.5	mg/kg	-	-	-	< 0.5
Pyrene	0.5	mg/kg	-	-	-	< 0.5
Total PAH*	0.5	mg/kg	-	-	-	< 0.5
2-Fluorobiphenyl (surr.)	1	%	-	-	-	97
p-Terphenyl-d14 (surr.)	1	%	-	-	-	106
Heavy Metals						
Arsenic	2	mg/kg	13	21	17	11
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	23	30	14	34
Copper	5	mg/kg	31	33	28	15
Lead	5	mg/kg	22	18	18	24
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	12	12	20	7.8
Zinc	5	mg/kg	75	76	73	32
% Moisture	1	%	16	14	15	33

Client Sample ID			S084 0-0.1	S085 0-0.1	S098 0-0.1	S110 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-My61804	S21-My61805	S21-My61806	S21-My61807
Date Sampled			May 28, 2021	May 28, 2021	May 28, 2021	May 28, 2021
Test/Reference	LOR	Unit				
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	0.1	mg/kg	-	< 0.1	-	-
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	%	-	79	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	70	-	-
Acid Herbicides						
2.4-D	0.5	mg/kg	-	< 0.5	-	-
2.4-DB	0.5	mg/kg	-	< 0.5	-	-
2.4.5-T	0.5	mg/kg	-	< 0.5	-	-
2.4.5-TP	0.5	mg/kg	-	< 0.5	-	-
Actril (loxynil)	0.5	mg/kg	-	< 0.5	-	-
Dicamba	0.5	mg/kg	-	< 0.5	-	-
Dichlorprop	0.5	mg/kg	-	< 0.5	-	-
Dinitro-o-cresol	0.5	mg/kg	-	< 0.5	-	-
Dinoseb	0.5	mg/kg	-	< 0.5	-	-
MCPA	0.5	mg/kg	-	< 0.5	-	-
MCPB	0.5	mg/kg	-	< 0.5	-	-
Mecoprop	0.5	mg/kg	-	< 0.5	-	-
Warfarin (surr.)	1	%	-	74	-	-

Client Sample ID			S119 0.9-1.0	S120 1.9-2.0	S121 0.9-1.0	S134 0.4-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-My61808	S21-My61809	S21-My61810	S21-My61816
Date Sampled			May 28, 2021	May 28, 2021	May 28, 2021	May 28, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	160
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	160
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	107	108	108	82
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
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	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	190
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	190
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	88	98	88	106
p-Terphenyl-d14 (surr.)	1	%	94	104	93	101

Client Sample ID			S119 0.9-1.0	S120 1.9-2.0	S121 0.9-1.0	S134 0.4-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-My61808	S21-My61809	S21-My61810	S21-My61816
Date Sampled			May 28, 2021	May 28, 2021	May 28, 2021	May 28, 2021
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	12	13	9.7	12
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	28	27	23	35
Copper	5	mg/kg	43	41	30	11
Lead	5	mg/kg	24	24	18	18
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	17	12	11	7.7
Zinc	5	mg/kg	73	60	45	18
% Moisture	1	%	14	12	24	17
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	0.1	mg/kg	-	-	-	< 0.1
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	%	-	-	-	99
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	78
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

Client Sample ID			S119 0.9-1.0	S120 1.9-2.0	S121 0.9-1.0	S134 0.4-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-My61808	S21-My61809	S21-My61810	S21-My61816
Date Sampled			May 28, 2021	May 28, 2021	May 28, 2021	May 28, 2021
Test/Reference	LOR	Unit				
Volatile Organics						
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
1.3.5-Trimethylbenzene	0.5	mg/kg	-	-	-	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
2-Butanone (MEK)	0.5	mg/kg	-	-	-	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	-	-	-	< 0.5
4-Chlorotoluene	0.5	mg/kg	-	-	-	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	-	-	< 0.5
Allyl chloride	0.5	mg/kg	-	-	-	< 0.5
Benzene	0.1	mg/kg	-	-	-	< 0.1
Bromobenzene	0.5	mg/kg	-	-	-	< 0.5
Bromochloromethane	0.5	mg/kg	-	-	-	< 0.5
Bromodichloromethane	0.5	mg/kg	-	-	-	< 0.5
Bromoform	0.5	mg/kg	-	-	-	< 0.5
Bromomethane	0.5	mg/kg	-	-	-	< 0.5
Carbon disulfide	0.5	mg/kg	-	-	-	< 0.5
Carbon Tetrachloride	0.5	mg/kg	-	-	-	< 0.5
Chlorobenzene	0.5	mg/kg	-	-	-	< 0.5
Chloroethane	0.5	mg/kg	-	-	-	< 0.5
Chloroform	0.5	mg/kg	-	-	-	< 0.5
Chloromethane	0.5	mg/kg	-	-	-	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	-	-	-	< 0.5
Dibromochloromethane	0.5	mg/kg	-	-	-	< 0.5
Dibromomethane	0.5	mg/kg	-	-	-	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	-	-	-	< 0.5
Ethylbenzene	0.1	mg/kg	-	-	-	< 0.1
Iodomethane	0.5	mg/kg	-	-	-	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	-	-	-	< 0.5
m&p-Xylenes	0.2	mg/kg	-	-	-	< 0.2
Methylene Chloride	0.5	mg/kg	-	-	-	< 0.5
o-Xylene	0.1	mg/kg	-	-	-	< 0.1
Styrene	0.5	mg/kg	-	-	-	< 0.5
Tetrachloroethene	0.5	mg/kg	-	-	-	< 0.5
Toluene	0.1	mg/kg	-	-	-	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	-	-	-	< 0.5
Trichloroethene	0.5	mg/kg	-	-	-	< 0.5
Trichlorofluoromethane	0.5	mg/kg	-	-	-	< 0.5
Vinyl chloride	0.5	mg/kg	-	-	-	< 0.5
Xylenes - Total*	0.3	mg/kg	-	-	-	< 0.3
Total MAH*	0.5	mg/kg	-	-	-	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	-	-	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	-	-	< 0.5
4-Bromofluorobenzene (surr.)	1	%	-	-	-	82
Toluene-d8 (surr.)	1	%	-	-	-	89

Client Sample ID			S119 0.9-1.0	S120 1.9-2.0	S121 0.9-1.0	S134 0.4-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-My61808	S21-My61809	S21-My61810	S21-My61816
Date Sampled			May 28, 2021	May 28, 2021	May 28, 2021	May 28, 2021
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	%	-	-	-	99
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	78

Client Sample ID			S135 0-0.05	S136 0-0.05
Sample Matrix			Soil	Soil
Eurofins Sample No.			S21-My61817	S21-My61818
Date Sampled			May 28, 2021	May 28, 2021
Test/Reference	LOR	Unit		
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				
TRH C6-C9	20	mg/kg	< 20	< 100
TRH C10-C14	20	mg/kg	< 20	190
TRH C15-C28	50	mg/kg	160	690
TRH C29-C36	50	mg/kg	110	550
TRH C10-C36 (Total)	50	mg/kg	270	1430
BTEX				
Benzene	0.1	mg/kg	< 0.1	< 0.5
Toluene	0.1	mg/kg	< 0.1	< 0.5
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.5
m&p-Xylenes	0.2	mg/kg	< 0.2	< 1
o-Xylene	0.1	mg/kg	< 0.1	< 0.5
Xylenes - Total*	0.3	mg/kg	< 0.3	< 1.5
4-Bromofluorobenzene (surr.)	1	%	98	106
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 2.5
TRH C6-C10	20	mg/kg	< 20	< 100
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 100
TRH >C10-C16	50	mg/kg	70	< 250
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	70	< 250
TRH >C16-C34	100	mg/kg	220	1100
TRH >C34-C40	100	mg/kg	< 100	370
TRH >C10-C40 (total)*	100	mg/kg	290	1470
Polycyclic Aromatic Hydrocarbons				
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5

Client Sample ID			S135 0-0.05	S136 0-0.05
Sample Matrix			Soil	Soil
Eurofins Sample No.			S21-My61817	S21-My61818
Date Sampled			May 28, 2021	May 28, 2021
Test/Reference	LOR	Unit		
Polycyclic Aromatic Hydrocarbons				
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	88	92
p-Terphenyl-d14 (surr.)	1	%	85	99
Heavy Metals				
Arsenic	2	mg/kg	12	22
Cadmium	0.4	mg/kg	< 0.4	5.7
Chromium	5	mg/kg	23	36
Copper	5	mg/kg	31	65
Lead	5	mg/kg	31	100
Mercury	0.1	mg/kg	< 0.1	< 0.1
Nickel	5	mg/kg	14	13
Zinc	5	mg/kg	84	360
% Moisture	1	%	28	20

Sample History

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

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

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Jun 03, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	Jun 03, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Jun 03, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
JBS&G Suite 2			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Jun 03, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Polycyclic Aromatic Hydrocarbons	Sydney	Jun 03, 2021	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Metals M8	Sydney	Jun 03, 2021	180 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Organochlorine Pesticides	Sydney	Jun 01, 2021	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Polychlorinated Biphenyls	Sydney	Jun 01, 2021	28 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
% Moisture	Sydney	Jun 03, 2021	14 Days
- Method: LTM-GEN-7080 Moisture			
Acid Herbicides	Melbourne	Jun 02, 2021	14 Days
- Method: LTM-ORG-2180 Phenoxy Acid Herbicides			
Volatile Organics	Sydney	Jun 01, 2021	7 Days
- Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices			

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Project Name: KEMPS CREEK
Project ID: 60330

Order No.:
Report #: 799439
Phone: 02 8245 0300
Fax:

Received: May 31, 2021 4:30 PM
Due: Jun 3, 2021
Priority: 3 Day
Contact Name: Rohan Hammond

Eurofins Analytical Services Manager : Ursula Long

Sample Detail	Asbestos - WA guidelines	CANCELLED	HOLD	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Acid Herbicides	USA Leaching Procedure	Metals M8	Volatile Organics	Moisture Set	Eurofins Suite B7	JBS&G Suite 2	BTEXN and Volatile TRH	BTEXN and Volatile TRH
Melbourne Laboratory - NATA Site # 1254 & 14271						X								
Sydney Laboratory - NATA Site # 18217	X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794														
Perth Laboratory - NATA Site # 23736														
Mayfield Laboratory - NATA Site # 25079														
External Laboratory														

No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID													
1	S001 0.3-0.4	May 28, 2021		Soil	S21-My61791										X	X		
2	S009 0-0.1	May 28, 2021		Soil	S21-My61792					X	X				X	X		
3	S010 0-0.1	May 28, 2021		Soil	S21-My61793	X												
4	S011 0-0.1	May 28, 2021		Soil	S21-My61794			X										
5	S015 0-0.1	May 28, 2021		Soil	S21-My61795										X	X		
6	S016 0-0.1	May 28, 2021		Soil	S21-My61796										X	X		
7	S052 0-0.1	May 28, 2021		Soil	S21-My61797					X	X		X		X			
8	S059 0.3-0.4	May 28, 2021		Soil	S21-My61798					X	X		X		X			
9	S072 0-0.1	May 28, 2021		Soil	S21-My61799								X		X			

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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																			
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory - NATA Site # 25079																			
External Laboratory																			
10	S071 0-0.1	May 28, 2021		Soil	S21-My61800					X	X		X		X				
11	S076 0.3-0.4	May 28, 2021		Soil	S21-My61801								X		X				
12	S081 0-0.1	May 28, 2021		Soil	S21-My61802					X	X		X		X				
13	S082 0-0.1	May 28, 2021		Soil	S21-My61803								X		X				
14	S084 0-0.1	May 28, 2021		Soil	S21-My61804								X		X				
15	S085 0-0.1	May 28, 2021		Soil	S21-My61805					X	X		X		X				
16	S098 0-0.1	May 28, 2021		Soil	S21-My61806								X		X				
17	S110 0-0.1	May 28, 2021		Soil	S21-My61807	X									X	X			
18	S119 0.9-1.0	May 28, 2021		Soil	S21-My61808	X									X	X			
19	S120 1.9-2.0	May 28, 2021		Soil	S21-My61809	X									X	X			
20	S121 0.9-1.0	May 28, 2021		Soil	S21-My61810	X									X	X			

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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																			
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory - NATA Site # 25079																			
External Laboratory																			
21	S123 0.3-0.4	May 28, 2021		Soil	S21-My61811		X												
22	S125 0-0.1	May 28, 2021		Soil	S21-My61812	X													
23	S131 0-0.1 (A)	May 28, 2021		Soil	S21-My61813			X											
24	S132 0.4-0.5 (A)	May 28, 2021		Soil	S21-My61814			X											
25	S133	May 28, 2021		Soil	S21-My61815		X												
26	S134 0.4-0.5	May 28, 2021		Soil	S21-My61816	X								X	X		X		
27	S135 0-0.05	May 28, 2021		Soil	S21-My61817	X									X	X			
28	S136 0-0.05	May 28, 2021		Soil	S21-My61818	X									X	X			
29	TRIP BLANK	May 28, 2021		Water	S21-My61819													X	
30	TRIP SPIKE	May 28, 2021		Water	S21-My61820														X

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Fax:

Received: May 31, 2021 4:30 PM
Due: Jun 3, 2021
Priority: 3 Day
Contact Name: Rohan Hammond

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	CANCELLED	HOLD	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Acid Herbicides	USA Leaching Procedure	Metals M8	Volatile Organics	Moisture Set	Eurofins Suite B7	JBS&G Suite 2	BTEXN and Volatile TRH	BTEXN and Volatile TRH
Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																			
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory - NATA Site # 25079																			
External Laboratory																			
31	RINSATE	May 28, 2021		Water	S21-My61821												X		
32	S135 0-0.05	May 28, 2021		US Leachate	S21-My61822				X			X	X						
33	S136 0-0.05	May 28, 2021		US Leachate	S21-My61823		X												
34	S001 0-0.1	May 28, 2021		Soil	S21-My61824			X											
35	S002 0-0.1	May 28, 2021		Soil	S21-My61825			X											
36	S002 0.3-0.4	May 28, 2021		Soil	S21-My61826		X												
37	S009 0.4-0.5	May 28, 2021		Soil	S21-My61827			X											
38	S009 1.4-1.5	May 28, 2021		Soil	S21-My61828			X											
39	S010 0.3-0.4	May 28, 2021		Soil	S21-My61829			X											
40	S010 0.9-1.0	May 28, 2021		Soil	S21-My61830			X											
41	S011 0.3-0.4	May 28, 2021		Soil	S21-My61831			X											

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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																			
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory - NATA Site # 25079																			
External Laboratory																			
42	S011 1.4-1.5	May 28, 2021		Soil	S21-My61832			X											
43	S014 0-0.1	May 28, 2021		Soil	S21-My61833			X											
44	S014 0.3-0.4	May 28, 2021		Soil	S21-My61834			X											
45	S015 0.3-0.4	May 28, 2021		Soil	S21-My61835			X											
46	S016 0.3-0.4	May 28, 2021		Soil	S21-My61836			X											
47	S048 0-0.1	May 28, 2021		Soil	S21-My61837			X											
48	S048 0.3-0.4	May 28, 2021		Soil	S21-My61838			X											
49	S060 0-0.1	May 28, 2021		Soil	S21-My61839			X											
50	S060 0.3-0.4	May 28, 2021		Soil	S21-My61840			X											
51	S052 0.3-0.4	May 28, 2021		Soil	S21-My61841			X											
52	S053 0-0.1	May 28, 2021		Soil	S21-My61842			X											

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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																			
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory - NATA Site # 25079																			
External Laboratory																			
53	S053 0.4-0.5	May 28, 2021		Soil	S21-My61843			X											
54	S059 0-0.1	May 28, 2021		Soil	S21-My61844			X											
55	S063 0-0.1	May 28, 2021		Soil	S21-My61845			X											
56	S063 0.3-0.4	May 28, 2021		Soil	S21-My61846			X											
57	S072 0.3-0.4	May 28, 2021		Soil	S21-My61847			X											
58	S064 0-0.1	May 28, 2021		Soil	S21-My61848			X											
59	S064 0.3-0.4	May 28, 2021		Soil	S21-My61849			X											
60	S071 0.3-0.4	May 28, 2021		Soil	S21-My61850			X											
61	S076 0-0.1	May 28, 2021		Soil	S21-My61851			X											
62	S075 0-0.1	May 28, 2021		Soil	S21-My61852			X											
63	S075 0.3-0.4	May 28, 2021		Soil	S21-My61853			X											

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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																			
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory - NATA Site # 25079																			
External Laboratory																			
64	S081 0.3-0.4	May 28, 2021		Soil	S21-My61854			X											
65	S086 0-0.1	May 28, 2021		Soil	S21-My61855			X											
66	S086 0.3-0.4	May 28, 2021		Soil	S21-My61856			X											
67	S082 0.3-0.4	May 28, 2021		Soil	S21-My61857			X											
68	S084 0.3-0.4	May 28, 2021		Soil	S21-My61858			X											
69	S085 0.3-0.4	May 28, 2021		Soil	S21-My61859			X											
70	S095 0-0.1	May 28, 2021		Soil	S21-My61860			X											
71	S095 0.3-0.4	May 28, 2021		Soil	S21-My61861			X											
72	S087 0-0.1	May 28, 2021		Soil	S21-My61862			X											
73	S087 0.3-0.4	May 28, 2021		Soil	S21-My61863			X											
74	S096 0-0.1	May 28, 2021		Soil	S21-My61864			X											

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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																			
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory - NATA Site # 25079																			
External Laboratory																			
75	S096 0.3-0.4	May 28, 2021		Soil	S21-My61865			X											
76	S097 0-0.1	May 28, 2021		Soil	S21-My61866			X											
77	S097 0.3-0.4	May 28, 2021		Soil	S21-My61867			X											
78	S098 0.3-0.4	May 28, 2021		Soil	S21-My61868			X											
79	S099 0-0.1	May 28, 2021		Soil	S21-My61869			X											
80	S099 0.3-0.4	May 28, 2021		Soil	S21-My61870			X											
81	S100 0-0.1	May 28, 2021		Soil	S21-My61871			X											
82	S100 0.3-0.4	May 28, 2021		Soil	S21-My61872			X											
83	S101 0-0.1	May 28, 2021		Soil	S21-My61873			X											
84	S101 0.4-0.5	May 28, 2021		Soil	S21-My61874			X											
85	S102 0-0.1	May 28, 2021		Soil	S21-My61875			X											

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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																			
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory - NATA Site # 25079																			
External Laboratory																			
86	S102 0.4-0.5	May 28, 2021		Soil	S21-My61876			X											
87	S110 0.4-0.5	May 28, 2021		Soil	S21-My61877			X											
88	S119 0-0.1	May 28, 2021		Soil	S21-My61878			X											
89	S119 0.3-0.4	May 28, 2021		Soil	S21-My61879			X											
90	S119 1.9-2.0	May 28, 2021		Soil	S21-My61880			X											
91	S120 0-0.1	May 28, 2021		Soil	S21-My61881			X											
92	S120 0.3-0.4	May 28, 2021		Soil	S21-My61882			X											
93	S120 0.9-1.0	May 28, 2021		Soil	S21-My61883			X											
94	S120 2.9-3.0	May 28, 2021		Soil	S21-My61884			X											
95	S121 0-0.1	May 28, 2021		Soil	S21-My61885			X											
96	S121 0.3-0.4	May 28, 2021		Soil	S21-My61886			X											

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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																			
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory - NATA Site # 25079																			
External Laboratory																			
97	S121 1.9-2.0	May 28, 2021		Soil	S21-My61887			X											
98	S122 0-0.1	May 28, 2021		Soil	S21-My61888		X												
99	S122 0.3-0.4	May 28, 2021		Soil	S21-My61889			X											
100	S123 0-0.1	May 28, 2021		Soil	S21-My61890			X											
101	S124 0-0.1	May 28, 2021		Soil	S21-My61891			X											
102	S124 0.3-0.4	May 28, 2021		Soil	S21-My61892			X											
103	S125 0.3-0.4	May 28, 2021		Soil	S21-My61893			X											
104	S126 0-0.1	May 28, 2021		Soil	S21-My61894			X											
105	S126 0.3-0.4	May 28, 2021		Soil	S21-My61895			X											
106	S131 0.2-0.3	May 28, 2021		Soil	S21-My61896			X											
107	S131 0.5-0.6	May 28, 2021		Soil	S21-My61897			X											

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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																			
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory - NATA Site # 25079																			
External Laboratory																			
108	S132 0-0.1	May 28, 2021		Soil	S21-My61898		X												
109	S132 0.7-0.8	May 28, 2021		Soil	S21-My61899			X											
110	S132 1-1.1	May 28, 2021		Soil	S21-My61900			X											
111	S134 0-0.1 (A)	May 28, 2021		Soil	S21-My61901			X											
112	S134 0.9-1.0	May 28, 2021		Soil	S21-My61902			X											
113	S134 1.3-1.4	May 28, 2021		Soil	S21-My61903			X											
114	S134 1.6-1.7	May 28, 2021		Soil	S21-My61904			X											
115	S135 0.1-0.2	May 28, 2021		Soil	S21-My61905			X											
116	S136 0.3-0.4	May 28, 2021		Soil	S21-My61906		X												
117	S131 0-0.1 (B)	May 28, 2021		Soil	S21-My61907			X											
118	S132 0.4-0.5	May 28, 2021		Soil	S21-My61908			X											

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Address: Level 1, 50 Margaret St
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Project Name: KEMPS CREEK
Project ID: 60330

Order No.:
Report #: 799439
Phone: 02 8245 0300
Fax:

Received: May 31, 2021 4:30 PM
Due: Jun 3, 2021
Priority: 3 Day
Contact Name: Rohan Hammond

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	CANCELLED	HOLD	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Acid Herbicides	USA Leaching Procedure	Metals M8	Volatile Organics	Moisture Set	Eurofins Suite B7	JBS&G Suite 2	BTEXN and Volatile TRH	BTEXN and Volatile TRH
Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																			
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory - NATA Site # 25079																			
External Laboratory																			
	(B)																		
119	S134 0-0.1 (B)	May 28, 2021		Soil	S21-My61909			X											
120	S030 0-0.05	May 28, 2021		Soil	S21-My61910			X											
121	S049 0-0.1	May 28, 2021		Soil	S21-My61911			X											
122	S110 0.9-1.0	May 28, 2021		Soil	S21-My61912			X											
123	S112 0-0.1	May 28, 2021		Soil	S21-My61913			X											
124	S121 2.9-3	May 28, 2021		Soil	S21-My61914			X											
125	S134 0.3-0.4	May 28, 2021		Soil	S21-My61915			X											
126	SW3_SED	May 27, 2021		Soil	S21-My61916			X											
127	UNLABELLED JAR A	May 27, 2021		Soil	S21-My61917			X											

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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																			
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory - NATA Site # 25079																			
External Laboratory																			
128	UNLABELLED JAR B	May 27, 2021		Soil	S21-My61918			X											
Test Counts						9	7	94	1	6	6	1	11	1	21	10	2	1	1

Internal Quality Control Review and Glossary

General

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

Holding Times

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

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

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

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

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

****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
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient

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.
5. 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 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 - 1999 NEPM Fractions							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
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							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
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	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.2			0.2	Pass	
Toxaphene	mg/kg	< 0.1			0.1	Pass	
Method Blank							
Volatile Organics							
1.1-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
1.1.1-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.1.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dibromoethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.3-Trichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.4-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.3.5-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.4-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
2-Butanone (MEK)	mg/kg	< 0.5			0.5	Pass	
2-Propanone (Acetone)	mg/kg	< 0.5			0.5	Pass	
4-Chlorotoluene	mg/kg	< 0.5			0.5	Pass	
4-Methyl-2-pentanone (MIBK)	mg/kg	< 0.5			0.5	Pass	
Allyl chloride	mg/kg	< 0.5			0.5	Pass	
Bromobenzene	mg/kg	< 0.5			0.5	Pass	
Bromochloromethane	mg/kg	< 0.5			0.5	Pass	
Bromodichloromethane	mg/kg	< 0.5			0.5	Pass	
Bromoform	mg/kg	< 0.5			0.5	Pass	
Bromomethane	mg/kg	< 0.5			0.5	Pass	
Carbon disulfide	mg/kg	< 0.5			0.5	Pass	
Carbon Tetrachloride	mg/kg	< 0.5			0.5	Pass	
Chlorobenzene	mg/kg	< 0.5			0.5	Pass	
Chloroethane	mg/kg	< 0.5			0.5	Pass	
Chloroform	mg/kg	< 0.5			0.5	Pass	
Chloromethane	mg/kg	< 0.5			0.5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
cis-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
cis-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Dibromochloromethane	mg/kg	< 0.5			0.5	Pass	
Dibromomethane	mg/kg	< 0.5			0.5	Pass	
Dichlorodifluoromethane	mg/kg	< 0.5			0.5	Pass	
Iodomethane	mg/kg	< 0.5			0.5	Pass	
Isopropyl benzene (Cumene)	mg/kg	< 0.5			0.5	Pass	
Methylene Chloride	mg/kg	< 0.5			0.5	Pass	
Styrene	mg/kg	< 0.5			0.5	Pass	
Tetrachloroethene	mg/kg	< 0.5			0.5	Pass	
trans-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
trans-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Trichloroethene	mg/kg	< 0.5			0.5	Pass	
Trichlorofluoromethane	mg/kg	< 0.5			0.5	Pass	
Vinyl chloride	mg/kg	< 0.5			0.5	Pass	
Method Blank							
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	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	78			70-130	Pass	
TRH C10-C14	%	78			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	85			70-130	Pass	
Toluene	%	85			70-130	Pass	
Ethylbenzene	%	90			70-130	Pass	
m&p-Xylenes	%	89			70-130	Pass	
o-Xylene	%	91			70-130	Pass	
Xylenes - Total*	%	90			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	110			70-130	Pass	
TRH C6-C10	%	77			70-130	Pass	
TRH >C10-C16	%	78			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	102			70-130	Pass	
Acenaphthylene	%	107			70-130	Pass	
Anthracene	%	107			70-130	Pass	
Benz(a)anthracene	%	103			70-130	Pass	
Benzo(a)pyrene	%	105			70-130	Pass	
Benzo(b&j)fluoranthene	%	102			70-130	Pass	
Benzo(g.h.i)perylene	%	110			70-130	Pass	
Benzo(k)fluoranthene	%	111			70-130	Pass	
Chrysene	%	107			70-130	Pass	
Dibenz(a.h)anthracene	%	108			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Fluoranthene	%	103			70-130	Pass	
Fluorene	%	106			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	107			70-130	Pass	
Naphthalene	%	99			70-130	Pass	
Phenanthrene	%	97			70-130	Pass	
Pyrene	%	104			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	103			80-120	Pass	
Cadmium	%	104			80-120	Pass	
Chromium	%	105			80-120	Pass	
Copper	%	103			80-120	Pass	
Lead	%	103			80-120	Pass	
Mercury	%	105			80-120	Pass	
Nickel	%	104			80-120	Pass	
Zinc	%	103			80-120	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	123			70-130	Pass	
4.4'-DDD	%	102			70-130	Pass	
4.4'-DDE	%	115			70-130	Pass	
4.4'-DDT	%	99			70-130	Pass	
a-BHC	%	104			70-130	Pass	
Aldrin	%	116			70-130	Pass	
b-BHC	%	106			70-130	Pass	
d-BHC	%	99			70-130	Pass	
Dieldrin	%	110			70-130	Pass	
Endosulfan I	%	105			70-130	Pass	
Endosulfan II	%	99			70-130	Pass	
Endosulfan sulphate	%	104			70-130	Pass	
Endrin aldehyde	%	70			70-130	Pass	
Endrin ketone	%	91			70-130	Pass	
g-BHC (Lindane)	%	108			70-130	Pass	
Heptachlor	%	107			70-130	Pass	
Heptachlor epoxide	%	105			70-130	Pass	
Hexachlorobenzene	%	104			70-130	Pass	
Methoxychlor	%	94			70-130	Pass	
LCS - % Recovery							
Volatile Organics							
1.1-Dichloroethene	%	75			70-130	Pass	
1.1.1-Trichloroethane	%	88			70-130	Pass	
1.2-Dichlorobenzene	%	91			70-130	Pass	
1.2-Dichloroethane	%	94			70-130	Pass	
Trichloroethene	%	92			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1260	%	104			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 Fractions				Result 1					
TRH C6-C9	S21-Jn00764	NCP	%	124			70-130	Pass	
TRH C10-C14	S21-My59126	NCP	%	117			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Benzene	S21-Jn04444	NCP	%	70			70-130	Pass	
Toluene	S21-Jn00764	NCP	%	134			70-130	Fail	Q08
Ethylbenzene	S21-Jn04444	NCP	%	73			70-130	Pass	
m&p-Xylenes	S21-Jn04444	NCP	%	77			70-130	Pass	
o-Xylene	S21-Jn04444	NCP	%	81			70-130	Pass	
Xylenes - Total*	S21-Jn04444	NCP	%	79			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S21-Jn04444	NCP	%	84			70-130	Pass	
TRH C6-C10	S21-Jn00764	NCP	%	123			70-130	Pass	
TRH >C10-C16	S21-My59126	NCP	%	126			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S21-Jn03832	NCP	%	85			70-130	Pass	
Acenaphthylene	S21-Jn03832	NCP	%	94			70-130	Pass	
Anthracene	S21-Jn03832	NCP	%	90			70-130	Pass	
Benz(a)anthracene	S21-Jn03832	NCP	%	95			70-130	Pass	
Benzo(a)pyrene	S21-Jn03832	NCP	%	88			70-130	Pass	
Benzo(b&j)fluoranthene	S21-Jn03832	NCP	%	74			70-130	Pass	
Benzo(g.h.i)perylene	S21-Jn03832	NCP	%	95			70-130	Pass	
Benzo(k)fluoranthene	S21-Jn03832	NCP	%	80			70-130	Pass	
Chrysene	S21-Jn03832	NCP	%	96			70-130	Pass	
Dibenz(a.h)anthracene	S21-Jn03832	NCP	%	111			70-130	Pass	
Fluoranthene	S21-Jn03832	NCP	%	86			70-130	Pass	
Fluorene	S21-Jn03832	NCP	%	88			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S21-Jn03832	NCP	%	103			70-130	Pass	
Naphthalene	S21-Jn03832	NCP	%	81			70-130	Pass	
Phenanthrene	S21-Jn03832	NCP	%	76			70-130	Pass	
Pyrene	S21-Jn03832	NCP	%	88			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Chromium	S21-My52999	NCP	%	95			75-125	Pass	
Zinc	S21-My61156	NCP	%	83			75-125	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S21-My61792	CP	%	124			75-125	Pass	
Cadmium	S21-My61792	CP	%	119			75-125	Pass	
Copper	S21-My61792	CP	%	121			75-125	Pass	
Lead	S21-My61792	CP	%	123			75-125	Pass	
Mercury	S21-My61792	CP	%	117			75-125	Pass	
Nickel	S21-My61792	CP	%	118			75-125	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S21-Jn03832	NCP	%	98			70-130	Pass	
4.4'-DDD	S21-Jn03832	NCP	%	86			70-130	Pass	
4.4'-DDE	S21-Jn03832	NCP	%	94			70-130	Pass	
4.4'-DDT	S21-Jn03832	NCP	%	118			70-130	Pass	
a-BHC	S21-Jn03832	NCP	%	85			70-130	Pass	
Aldrin	S21-Jn03832	NCP	%	96			70-130	Pass	
b-BHC	S21-Jn03832	NCP	%	82			70-130	Pass	
d-BHC	S21-Jn03832	NCP	%	74			70-130	Pass	
Dieldrin	S21-Jn03832	NCP	%	96			70-130	Pass	
Endosulfan I	S21-Jn03832	NCP	%	88			70-130	Pass	
Endosulfan II	S21-Jn03832	NCP	%	94			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endosulfan sulphate	S21-Jn03832	NCP	%	89			70-130	Pass	
Endrin ketone	S21-Jn03832	NCP	%	76			70-130	Pass	
g-BHC (Lindane)	S21-Jn03832	NCP	%	79			70-130	Pass	
Heptachlor	S21-Jn03832	NCP	%	91			70-130	Pass	
Heptachlor epoxide	S21-Jn03832	NCP	%	91			70-130	Pass	
Hexachlorobenzene	S21-Jn03832	NCP	%	85			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S21-My61791	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S21-My61791	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S21-My61791	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S21-My61791	CP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S21-My61791	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S21-My61791	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S21-My61791	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S21-My61791	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S21-My61791	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S21-My61791	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S21-My61791	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S21-My61791	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S21-My61791	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S21-My61791	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S21-My61791	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S21-My61791	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S21-My61791	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S21-My61791	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S21-My61791	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S21-My61791	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S21-My61791	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S21-My61791	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S21-My61791	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S21-My61791	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S21-My61791	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S21-My61791	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S21-My61791	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S21-My61791	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S21-My61791	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S21-My61791	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S21-My61791	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S21-My61791	CP	mg/kg	15	11	25	30%	Pass	
Cadmium	S21-My61791	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S21-My61791	CP	mg/kg	31	26	18	30%	Pass	
Copper	S21-My61791	CP	mg/kg	42	44	5.0	30%	Pass	
Lead	S21-My61791	CP	mg/kg	35	34	3.0	30%	Pass	
Mercury	S21-My61791	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	

Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Nickel	S21-My61791	CP	mg/kg	15	16	7.0	30%	Pass	
Zinc	S21-My61791	CP	mg/kg	70	79	12	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-My61791	CP	%	24	20	17	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S21-My56017	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S21-My56017	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S21-My56017	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S21-My56017	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-BHC	S21-My56017	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S21-My56017	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-BHC	S21-My56017	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-BHC	S21-My56017	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S21-My56017	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S21-My56017	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S21-My56017	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S21-My56017	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S21-My56017	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S21-My56017	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S21-My56017	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-BHC (Lindane)	S21-My56017	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S21-My56017	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S21-My56017	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S21-My56017	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S21-My56017	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Toxaphene	S21-My56017	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S21-My61803	CP	mg/kg	11	12	11	30%	Pass	
Cadmium	S21-My61803	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S21-My61803	CP	mg/kg	21	22	4.0	30%	Pass	
Copper	S21-My61803	CP	mg/kg	22	24	6.0	30%	Pass	
Lead	S21-My61803	CP	mg/kg	13	14	7.0	30%	Pass	
Mercury	S21-My61803	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S21-My61803	CP	mg/kg	7.6	7.6	<1	30%	Pass	
Zinc	S21-My61803	CP	mg/kg	32	33	3.0	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-My61803	CP	%	19	20	1.0	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1-Dichloroethene	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1-Trichloroethane	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2-Trichloroethane	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dibromoethane	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichlorobenzene	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloroethane	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloropropane	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.3-Trichloropropane	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.2.4-Trimethylbenzene	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichlorobenzene	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichloropropane	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3.5-Trimethylbenzene	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.4-Dichlorobenzene	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Butanone (MEK)	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Propanone (Acetone)	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Chlorotoluene	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Allyl chloride	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromobenzene	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromochloromethane	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromodichloromethane	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromoform	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromomethane	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon disulfide	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon Tetrachloride	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chlorobenzene	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroethane	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroform	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloromethane	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.2-Dichloroethene	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.3-Dichloropropene	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromochloromethane	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromomethane	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dichlorodifluoromethane	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Iodomethane	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Isopropyl benzene (Cumene)	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Methylene Chloride	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Styrene	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Tetrachloroethene	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.2-Dichloroethene	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.3-Dichloropropene	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichloroethene	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichlorofluoromethane	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Vinyl chloride	S21-Jn03898	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-My61818	CP	%	20	21	6.0	30%	Pass	

Comments

Sample Integrity

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

Qualifier Codes/Comments

Code	Description
G01	The LORs have been raised due to matrix interference
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
Q08	The matrix spike recovery is outside of the recommended acceptance criteria. An acceptable recovery was obtained for the laboratory control sample indicating a sample matrix interference.

Authorised by:

John Nguyen	Analytical Services Manager
Andrew Sullivan	Senior Analyst-Organic (NSW)
John Nguyen	Senior Analyst-Metal (NSW)
Joseph Edouard	Senior Analyst-Organic (VIC)
Roopesh Rangarajan	Senior Analyst-Volatile (NSW)



Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

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

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Accreditation Number 1261
Site Number 18217

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Attention: **Rohan Hammond**

Report **799439-W**
Project name KEMPS CREEK
Project ID 60330
Received Date May 31, 2021

Client Sample ID			**TRIP BLANK**	**TRIP SPIKE**	**RINSATE**
Sample Matrix			**Water**	**Water**	**Water**
Eurofins Sample No.			**S21-My61819**	**S21-My61820**	**S21-My61821**
Date Sampled			**May 28, 2021**	**May 28, 2021**	**May 28, 2021**
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
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	< 0.001	-	< 0.001
Toluene	0.001	mg/L	< 0.001	-	< 0.001
Ethylbenzene	0.001	mg/L	< 0.001	-	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002	-	< 0.002
o-Xylene	0.001	mg/L	< 0.001	-	< 0.001
Xylenes - Total*	0.003	mg/L	< 0.003	-	< 0.003
4-Bromofluorobenzene (surr.)	1	%	84	-	111
TRH C6-C10	1	%	-	72	-
Total Recoverable Hydrocarbons					
Naphthalene	1	%	-	110	-
TRH C6-C9	1	%	-	74	-
BTEX					
Benzene	1	%	-	100	-
Ethylbenzene	1	%	-	94	-
m&p-Xylenes	1	%	-	110	-
o-Xylene	1	%	-	98	-
Toluene	1	%	-	89	-
Xylenes - Total	1	%	-	100	-
4-Bromofluorobenzene (surr.)	1	%	-	102	-

Client Sample ID			TRIP BLANK	TRIP SPIKE	RINSATE
Sample Matrix			Water	Water	Water
Eurofins Sample No.			S21-My61819	S21-My61820	S21-My61821
Date Sampled			May 28, 2021	May 28, 2021	May 28, 2021
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	%	-	-	110
p-Terphenyl-d14 (surr.)	1	%	-	-	136
Organochlorine Pesticides					
Chlordanes - Total	0.002	mg/L	-	-	< 0.002
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	0.0002	mg/L	-	-	< 0.0002
Toxaphene	0.001	mg/L	-	-	< 0.001
Aldrin and Dieldrin (Total)*	0.0002	mg/L	-	-	< 0.0002
DDT + DDE + DDD (Total)*	0.0002	mg/L	-	-	< 0.0002
Vic EPA IWRG 621 OCP (Total)*	0.002	mg/L	-	-	< 0.002
Vic EPA IWRG 621 Other OCP (Total)*	0.002	mg/L	-	-	< 0.002
Dibutylchlorendate (surr.)	1	%	-	-	INT
Tetrachloro-m-xylene (surr.)	1	%	-	-	90

Client Sample ID			TRIP BLANK	TRIP SPIKE	RINSATE
Sample Matrix			Water	Water	Water
Eurofins Sample No.			S21-My61819	S21-My61820	S21-My61821
Date Sampled			May 28, 2021	May 28, 2021	May 28, 2021
Test/Reference	LOR	Unit			
Polychlorinated Biphenyls					
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	%	-	-	90
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	-	-	< 0.001
Zinc	0.005	mg/L	-	-	< 0.005

Sample History

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

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

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons	Sydney	May 31, 2021	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	May 31, 2021	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	May 31, 2021	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	May 31, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
JBS&G Suite 2			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	May 31, 2021	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Polycyclic Aromatic Hydrocarbons	Sydney	May 31, 2021	7 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Organochlorine Pesticides	Sydney	May 31, 2021	7 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Polychlorinated Biphenyls	Sydney	May 31, 2021	7 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Metals M8	Sydney	Jun 03, 2021	180 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			

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Project Name: KEMPS CREEK
Project ID: 60330

Order No.:
Report #: 799439
Phone: 02 8245 0300
Fax:

Received: May 31, 2021 4:30 PM
Due: Jun 3, 2021
Priority: 3 Day
Contact Name: Rohan Hammond

Eurofins Analytical Services Manager : Ursula Long

Sample Detail	Asbestos - WA guidelines	CANCELLED	HOLD	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Acid Herbicides	USA Leaching Procedure	Metals M8	Volatile Organics	Moisture Set	Eurofins Suite B7	JBS&G Suite 2	BTEXN and Volatile TRH	BTEXN and Volatile TRH
Melbourne Laboratory - NATA Site # 1254 & 14271						X								
Sydney Laboratory - NATA Site # 18217	X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794														
Perth Laboratory - NATA Site # 23736														
Mayfield Laboratory - NATA Site # 25079														
External Laboratory														

No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID													
1	S001 0.3-0.4	May 28, 2021		Soil	S21-My61791										X	X		
2	S009 0-0.1	May 28, 2021		Soil	S21-My61792					X	X				X	X		
3	S010 0-0.1	May 28, 2021		Soil	S21-My61793	X												
4	S011 0-0.1	May 28, 2021		Soil	S21-My61794			X										
5	S015 0-0.1	May 28, 2021		Soil	S21-My61795										X	X		
6	S016 0-0.1	May 28, 2021		Soil	S21-My61796										X	X		
7	S052 0-0.1	May 28, 2021		Soil	S21-My61797					X	X		X		X			
8	S059 0.3-0.4	May 28, 2021		Soil	S21-My61798					X	X		X		X			
9	S072 0-0.1	May 28, 2021		Soil	S21-My61799								X		X			

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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																			
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory - NATA Site # 25079																			
External Laboratory																			
10	S071 0-0.1	May 28, 2021		Soil	S21-My61800					X	X		X		X				
11	S076 0.3-0.4	May 28, 2021		Soil	S21-My61801								X		X				
12	S081 0-0.1	May 28, 2021		Soil	S21-My61802					X	X		X		X				
13	S082 0-0.1	May 28, 2021		Soil	S21-My61803								X		X				
14	S084 0-0.1	May 28, 2021		Soil	S21-My61804								X		X				
15	S085 0-0.1	May 28, 2021		Soil	S21-My61805					X	X		X		X				
16	S098 0-0.1	May 28, 2021		Soil	S21-My61806								X		X				
17	S110 0-0.1	May 28, 2021		Soil	S21-My61807	X									X	X			
18	S119 0.9-1.0	May 28, 2021		Soil	S21-My61808	X									X	X			
19	S120 1.9-2.0	May 28, 2021		Soil	S21-My61809	X									X	X			
20	S121 0.9-1.0	May 28, 2021		Soil	S21-My61810	X									X	X			

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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																			
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory - NATA Site # 25079																			
External Laboratory																			
21	S123 0.3-0.4	May 28, 2021		Soil	S21-My61811		X												
22	S125 0-0.1	May 28, 2021		Soil	S21-My61812	X													
23	S131 0-0.1 (A)	May 28, 2021		Soil	S21-My61813			X											
24	S132 0.4-0.5 (A)	May 28, 2021		Soil	S21-My61814			X											
25	S133	May 28, 2021		Soil	S21-My61815		X												
26	S134 0.4-0.5	May 28, 2021		Soil	S21-My61816	X								X	X		X		
27	S135 0-0.05	May 28, 2021		Soil	S21-My61817	X									X	X			
28	S136 0-0.05	May 28, 2021		Soil	S21-My61818	X									X	X			
29	TRIP BLANK	May 28, 2021		Water	S21-My61819													X	
30	TRIP SPIKE	May 28, 2021		Water	S21-My61820														X

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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																			
Perth Laboratory - NATA Site # 23736																			
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External Laboratory																			
31	RINSATE	May 28, 2021		Water	S21-My61821												X		
32	S135 0-0.05	May 28, 2021		US Leachate	S21-My61822				X			X	X						
33	S136 0-0.05	May 28, 2021		US Leachate	S21-My61823		X												
34	S001 0-0.1	May 28, 2021		Soil	S21-My61824			X											
35	S002 0-0.1	May 28, 2021		Soil	S21-My61825			X											
36	S002 0.3-0.4	May 28, 2021		Soil	S21-My61826		X												
37	S009 0.4-0.5	May 28, 2021		Soil	S21-My61827			X											
38	S009 1.4-1.5	May 28, 2021		Soil	S21-My61828			X											
39	S010 0.3-0.4	May 28, 2021		Soil	S21-My61829			X											
40	S010 0.9-1.0	May 28, 2021		Soil	S21-My61830			X											
41	S011 0.3-0.4	May 28, 2021		Soil	S21-My61831			X											

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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																			
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory - NATA Site # 25079																			
External Laboratory																			
42	S011 1.4-1.5	May 28, 2021		Soil	S21-My61832			X											
43	S014 0-0.1	May 28, 2021		Soil	S21-My61833			X											
44	S014 0.3-0.4	May 28, 2021		Soil	S21-My61834			X											
45	S015 0.3-0.4	May 28, 2021		Soil	S21-My61835			X											
46	S016 0.3-0.4	May 28, 2021		Soil	S21-My61836			X											
47	S048 0-0.1	May 28, 2021		Soil	S21-My61837			X											
48	S048 0.3-0.4	May 28, 2021		Soil	S21-My61838			X											
49	S060 0-0.1	May 28, 2021		Soil	S21-My61839			X											
50	S060 0.3-0.4	May 28, 2021		Soil	S21-My61840			X											
51	S052 0.3-0.4	May 28, 2021		Soil	S21-My61841			X											
52	S053 0-0.1	May 28, 2021		Soil	S21-My61842			X											

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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																			
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory - NATA Site # 25079																			
External Laboratory																			
53	S053 0.4-0.5	May 28, 2021		Soil	S21-My61843			X											
54	S059 0-0.1	May 28, 2021		Soil	S21-My61844			X											
55	S063 0-0.1	May 28, 2021		Soil	S21-My61845			X											
56	S063 0.3-0.4	May 28, 2021		Soil	S21-My61846			X											
57	S072 0.3-0.4	May 28, 2021		Soil	S21-My61847			X											
58	S064 0-0.1	May 28, 2021		Soil	S21-My61848			X											
59	S064 0.3-0.4	May 28, 2021		Soil	S21-My61849			X											
60	S071 0.3-0.4	May 28, 2021		Soil	S21-My61850			X											
61	S076 0-0.1	May 28, 2021		Soil	S21-My61851			X											
62	S075 0-0.1	May 28, 2021		Soil	S21-My61852			X											
63	S075 0.3-0.4	May 28, 2021		Soil	S21-My61853			X											

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Priority: 3 Day
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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																			
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory - NATA Site # 25079																			
External Laboratory																			
64	S081 0.3-0.4	May 28, 2021		Soil	S21-My61854			X											
65	S086 0-0.1	May 28, 2021		Soil	S21-My61855			X											
66	S086 0.3-0.4	May 28, 2021		Soil	S21-My61856			X											
67	S082 0.3-0.4	May 28, 2021		Soil	S21-My61857			X											
68	S084 0.3-0.4	May 28, 2021		Soil	S21-My61858			X											
69	S085 0.3-0.4	May 28, 2021		Soil	S21-My61859			X											
70	S095 0-0.1	May 28, 2021		Soil	S21-My61860			X											
71	S095 0.3-0.4	May 28, 2021		Soil	S21-My61861			X											
72	S087 0-0.1	May 28, 2021		Soil	S21-My61862			X											
73	S087 0.3-0.4	May 28, 2021		Soil	S21-My61863			X											
74	S096 0-0.1	May 28, 2021		Soil	S21-My61864			X											

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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																			
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory - NATA Site # 25079																			
External Laboratory																			
75	S096 0.3-0.4	May 28, 2021		Soil	S21-My61865			X											
76	S097 0-0.1	May 28, 2021		Soil	S21-My61866			X											
77	S097 0.3-0.4	May 28, 2021		Soil	S21-My61867			X											
78	S098 0.3-0.4	May 28, 2021		Soil	S21-My61868			X											
79	S099 0-0.1	May 28, 2021		Soil	S21-My61869			X											
80	S099 0.3-0.4	May 28, 2021		Soil	S21-My61870			X											
81	S100 0-0.1	May 28, 2021		Soil	S21-My61871			X											
82	S100 0.3-0.4	May 28, 2021		Soil	S21-My61872			X											
83	S101 0-0.1	May 28, 2021		Soil	S21-My61873			X											
84	S101 0.4-0.5	May 28, 2021		Soil	S21-My61874			X											
85	S102 0-0.1	May 28, 2021		Soil	S21-My61875			X											

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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																			
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory - NATA Site # 25079																			
External Laboratory																			
86	S102 0.4-0.5	May 28, 2021		Soil	S21-My61876			X											
87	S110 0.4-0.5	May 28, 2021		Soil	S21-My61877			X											
88	S119 0-0.1	May 28, 2021		Soil	S21-My61878			X											
89	S119 0.3-0.4	May 28, 2021		Soil	S21-My61879			X											
90	S119 1.9-2.0	May 28, 2021		Soil	S21-My61880			X											
91	S120 0-0.1	May 28, 2021		Soil	S21-My61881			X											
92	S120 0.3-0.4	May 28, 2021		Soil	S21-My61882			X											
93	S120 0.9-1.0	May 28, 2021		Soil	S21-My61883			X											
94	S120 2.9-3.0	May 28, 2021		Soil	S21-My61884			X											
95	S121 0-0.1	May 28, 2021		Soil	S21-My61885			X											
96	S121 0.3-0.4	May 28, 2021		Soil	S21-My61886			X											

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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																			
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory - NATA Site # 25079																			
External Laboratory																			
97	S121 1.9-2.0	May 28, 2021		Soil	S21-My61887			X											
98	S122 0-0.1	May 28, 2021		Soil	S21-My61888		X												
99	S122 0.3-0.4	May 28, 2021		Soil	S21-My61889			X											
100	S123 0-0.1	May 28, 2021		Soil	S21-My61890			X											
101	S124 0-0.1	May 28, 2021		Soil	S21-My61891			X											
102	S124 0.3-0.4	May 28, 2021		Soil	S21-My61892			X											
103	S125 0.3-0.4	May 28, 2021		Soil	S21-My61893			X											
104	S126 0-0.1	May 28, 2021		Soil	S21-My61894			X											
105	S126 0.3-0.4	May 28, 2021		Soil	S21-My61895			X											
106	S131 0.2-0.3	May 28, 2021		Soil	S21-My61896			X											
107	S131 0.5-0.6	May 28, 2021		Soil	S21-My61897			X											

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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																			
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory - NATA Site # 25079																			
External Laboratory																			
108	S132 0-0.1	May 28, 2021		Soil	S21-My61898		X												
109	S132 0.7-0.8	May 28, 2021		Soil	S21-My61899			X											
110	S132 1-1.1	May 28, 2021		Soil	S21-My61900			X											
111	S134 0-0.1 (A)	May 28, 2021		Soil	S21-My61901			X											
112	S134 0.9-1.0	May 28, 2021		Soil	S21-My61902			X											
113	S134 1.3-1.4	May 28, 2021		Soil	S21-My61903			X											
114	S134 1.6-1.7	May 28, 2021		Soil	S21-My61904			X											
115	S135 0.1-0.2	May 28, 2021		Soil	S21-My61905			X											
116	S136 0.3-0.4	May 28, 2021		Soil	S21-My61906		X												
117	S131 0-0.1 (B)	May 28, 2021		Soil	S21-My61907			X											
118	S132 0.4-0.5	May 28, 2021		Soil	S21-My61908			X											

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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																			
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory - NATA Site # 25079																			
External Laboratory																			
	(B)																		
119	S134 0-0.1 (B)	May 28, 2021		Soil	S21-My61909			X											
120	S030 0-0.05	May 28, 2021		Soil	S21-My61910			X											
121	S049 0-0.1	May 28, 2021		Soil	S21-My61911			X											
122	S110 0.9-1.0	May 28, 2021		Soil	S21-My61912			X											
123	S112 0-0.1	May 28, 2021		Soil	S21-My61913			X											
124	S121 2.9-3	May 28, 2021		Soil	S21-My61914			X											
125	S134 0.3-0.4	May 28, 2021		Soil	S21-My61915			X											
126	SW3_SED	May 27, 2021		Soil	S21-My61916			X											
127	UNLABELLED JAR A	May 27, 2021		Soil	S21-My61917			X											

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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																			
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory - NATA Site # 25079																			
External Laboratory																			
128	UNLABELLED JAR B	May 27, 2021		Soil	S21-My61918			X											
Test Counts						9	7	94	1	6	6	1	11	1	21	10	2	1	1

Internal Quality Control Review and Glossary

General

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

Holding Times

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

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

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

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

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

****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
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient

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.
5. 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 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 Fractions							
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 Fractions							
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							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/L	< 0.001			0.001	Pass	
Acenaphthylene	mg/L	< 0.001			0.001	Pass	
Anthracene	mg/L	< 0.001			0.001	Pass	
Benz(a)anthracene	mg/L	< 0.001			0.001	Pass	
Benzo(a)pyrene	mg/L	< 0.001			0.001	Pass	
Benzo(b&j)fluoranthene	mg/L	< 0.001			0.001	Pass	
Benzo(g.h.i)perylene	mg/L	< 0.001			0.001	Pass	
Benzo(k)fluoranthene	mg/L	< 0.001			0.001	Pass	
Chrysene	mg/L	< 0.001			0.001	Pass	
Dibenz(a.h)anthracene	mg/L	< 0.001			0.001	Pass	
Fluoranthene	mg/L	< 0.001			0.001	Pass	
Fluorene	mg/L	< 0.001			0.001	Pass	
Indeno(1.2.3-cd)pyrene	mg/L	< 0.001			0.001	Pass	
Naphthalene	mg/L	< 0.001			0.001	Pass	
Phenanthrene	mg/L	< 0.001			0.001	Pass	
Pyrene	mg/L	< 0.001			0.001	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/L	< 0.002			0.002	Pass	
4.4'-DDD	mg/L	< 0.0001			0.0001	Pass	
4.4'-DDE	mg/L	< 0.0001			0.0001	Pass	
4.4'-DDT	mg/L	< 0.0001			0.0001	Pass	
a-BHC	mg/L	< 0.0001			0.0001	Pass	
Aldrin	mg/L	< 0.0001			0.0001	Pass	
b-BHC	mg/L	< 0.0001			0.0001	Pass	
d-BHC	mg/L	< 0.0001			0.0001	Pass	
Dieldrin	mg/L	< 0.0001			0.0001	Pass	
Endosulfan I	mg/L	< 0.0001			0.0001	Pass	
Endosulfan II	mg/L	< 0.0001			0.0001	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endosulfan sulphate	mg/L	< 0.0001			0.0001	Pass	
Endrin	mg/L	< 0.0001			0.0001	Pass	
Endrin aldehyde	mg/L	< 0.0001			0.0001	Pass	
Endrin ketone	mg/L	< 0.0001			0.0001	Pass	
g-BHC (Lindane)	mg/L	< 0.0001			0.0001	Pass	
Heptachlor	mg/L	< 0.0001			0.0001	Pass	
Heptachlor epoxide	mg/L	< 0.0001			0.0001	Pass	
Hexachlorobenzene	mg/L	< 0.0001			0.0001	Pass	
Methoxychlor	mg/L	< 0.0002			0.0002	Pass	
Toxaphene	mg/L	< 0.001			0.001	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/L	< 0.005			0.005	Pass	
Aroclor-1221	mg/L	< 0.001			0.001	Pass	
Aroclor-1232	mg/L	< 0.005			0.005	Pass	
Aroclor-1242	mg/L	< 0.005			0.005	Pass	
Aroclor-1248	mg/L	< 0.005			0.005	Pass	
Aroclor-1254	mg/L	< 0.005			0.005	Pass	
Aroclor-1260	mg/L	< 0.005			0.005	Pass	
Total PCB*	mg/L	< 0.001			0.001	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/L	< 0.001			0.001	Pass	
Cadmium	mg/L	< 0.0002			0.0002	Pass	
Chromium	mg/L	< 0.001			0.001	Pass	
Copper	mg/L	< 0.001			0.001	Pass	
Lead	mg/L	< 0.001			0.001	Pass	
Mercury	mg/L	< 0.0001			0.0001	Pass	
Nickel	mg/L	< 0.001			0.001	Pass	
Zinc	mg/L	< 0.005			0.005	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	111			70-130	Pass	
TRH C6-C10	%	98			70-130	Pass	
TRH >C10-C16	%	72			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	99			70-130	Pass	
TRH C10-C14	%	73			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	106			70-130	Pass	
Toluene	%	107			70-130	Pass	
Ethylbenzene	%	108			70-130	Pass	
m&p-Xylenes	%	110			70-130	Pass	
o-Xylene	%	102			70-130	Pass	
Xylenes - Total*	%	107			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	84			70-130	Pass	
Acenaphthylene	%	80			70-130	Pass	
Anthracene	%	88			70-130	Pass	
Benz(a)anthracene	%	83			70-130	Pass	
Benzo(a)pyrene	%	77			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Benzo(b&j)fluoranthene	%	76			70-130	Pass	
Benzo(g.h.i)perylene	%	85			70-130	Pass	
Benzo(k)fluoranthene	%	81			70-130	Pass	
Chrysene	%	81			70-130	Pass	
Dibenz(a.h)anthracene	%	89			70-130	Pass	
Fluoranthene	%	93			70-130	Pass	
Fluorene	%	84			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	89			70-130	Pass	
Phenanthrene	%	86			70-130	Pass	
Pyrene	%	94			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	118			70-130	Pass	
4.4'-DDD	%	123			70-130	Pass	
4.4'-DDE	%	110			70-130	Pass	
a-BHC	%	104			70-130	Pass	
Aldrin	%	96			70-130	Pass	
b-BHC	%	128			70-130	Pass	
d-BHC	%	118			70-130	Pass	
Dieldrin	%	126			70-130	Pass	
Endosulfan I	%	127			70-130	Pass	
Endosulfan II	%	121			70-130	Pass	
Endrin	%	106			70-130	Pass	
g-BHC (Lindane)	%	128			70-130	Pass	
Heptachlor epoxide	%	127			70-130	Pass	
Hexachlorobenzene	%	98			70-130	Pass	
Methoxychlor	%	95			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1016	%	103			70-130	Pass	
Aroclor-1260	%	102			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	88			80-120	Pass	
Cadmium	%	93			80-120	Pass	
Chromium	%	88			80-120	Pass	
Copper	%	85			80-120	Pass	
Lead	%	89			80-120	Pass	
Mercury	%	95			80-120	Pass	
Nickel	%	85			80-120	Pass	
Zinc	%	91			80-120	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S21-My57909	NCP	%	101			70-130	Pass	
TRH C6-C10	S21-My57909	NCP	%	101			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S21-My57909	NCP	%	101			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S21-My57909	NCP	%	98			70-130	Pass	
Toluene	S21-My57909	NCP	%	104			70-130	Pass	
Ethylbenzene	S21-My57909	NCP	%	107			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
m&p-Xylenes	S21-My57909	NCP	%	105			70-130	Pass	
o-Xylene	S21-My57909	NCP	%	103			70-130	Pass	
Xylenes - Total*	S21-My57909	NCP	%	104			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S21-Jn02810	NCP	%	111			75-125	Pass	
Cadmium	S21-Jn02810	NCP	%	96			75-125	Pass	
Chromium	S21-My48070	NCP	%	85			75-125	Pass	
Copper	S21-My48070	NCP	%	82			75-125	Pass	
Lead	S21-My48070	NCP	%	88			75-125	Pass	
Mercury	S21-My48070	NCP	%	97			75-125	Pass	
Nickel	S21-My48070	NCP	%	80			75-125	Pass	
Zinc	S21-My48070	NCP	%	88			75-125	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S21-My59242	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
TRH C6-C10	S21-My59242	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S21-My59242	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S21-My59242	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Toluene	S21-My59242	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Ethylbenzene	S21-My59242	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
m&p-Xylenes	S21-My59242	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
o-Xylene	S21-My59242	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Xylenes - Total*	S21-My59242	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S21-Jn03884	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Cadmium	S21-Jn03884	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Chromium	S21-Jn03884	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Copper	S21-Jn03884	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Lead	S21-Jn03884	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Mercury	S21-Jn03884	NCP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Nickel	S21-Jn03884	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Zinc	S21-Jn03884	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	

Comments

Sample Integrity

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

Qualifier Codes/Comments

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

Authorised by:

John Nguyen	Analytical Services Manager
Andrew Sullivan	Senior Analyst-Organic (NSW)
John Nguyen	Senior Analyst-Metal (NSW)
Roopesh Rangarajan	Senior Analyst-Volatile (NSW)



Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

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

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CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 60330	LABORATORY BATCH NO.:
PROJECT NAME: Mamre Road	SAMPLERS: KL
DATE NEEDED BY: STAT	QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) Rhammond@jbsg.com.au; (3) @jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	TRH/BTEX	TRH (Low level)	Ammonia	Nitrate/Nitrite	pH/TSS	PAH	BTEX	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
SW01	Water	26-5-21		2x V, 1x A, 1x M, 1x Inorg, 1x Bag Inorg		x	x	x	x	x	x					Temp 15.1C
SW02	↓	↓		↓		↓	↓	↓	↓	↓	↓					
SW03																
SW04																
SW05																
QC01-SW				↓		↓	↓	↓	↓	↓	↓	↓				
RINSE 60521				2x V, 1x A, 1x M		x	x					x				
TS				2x V									x			
TB	↓	↓		2x V									x			

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Ryan DATE: 26-5-21	CONSIGNMENT NOTE NO.	NAME: Jeremy	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 4:30pm 27/5	COOLER TEMP ..... deg C
		OF: Eurofins	
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO Forms013 – Chain of Custody - Generic

798436
Jake

eurofins | Environment Testing

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43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Rohan Hammond
Project name:	MAMRE ROAD
Project ID:	60330
Turnaround time:	5 Day
Date/Time received	May 27, 2021 4:30 PM
Eurofins reference	798936

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 : 15.2 degrees Celsius.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
✓	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
X	Split sample sent to requested external lab.
X	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Contact

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

Ursula Long on phone : or by email: UrsulaLong@eurofins.com

Results will be delivered electronically via email to Rohan Hammond - rhammond@jbsg.com.au.

Global Leader - Results you can trust

eurofins | Environment Testing

ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

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IANZ # 1327

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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

Project Name: MAMRE ROAD
Project ID: 60330

Order No.:
Report #: 798936
Phone: 02 8245 0300
Fax:

Received: May 27, 2021 4:30 PM
Due: Jun 3, 2021
Priority: 5 Day
Contact Name: Rohan Hammond

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Ammonia (as N)	Nitrate (as N)	Nitrite (as N)	pH (at 25 °C)	Total Suspended Solids Dried at 103–105°C	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Total Recoverable Hydrocarbons	BTEX	Polycyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217																
Brisbane Laboratory - NATA Site # 20794																
Perth Laboratory - NATA Site # 23736																
Mayfield Laboratory - NATA Site # 25079																
External Laboratory																
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**											
1	SW01	May 26, 2021		Water	M21-My57873	X	X	X	X	X		X	X	X		X
2	SW02	May 26, 2021		Water	M21-My57874	X	X	X	X	X		X	X	X		X
3	SW03	May 26, 2021		Water	M21-My57875	X	X	X	X	X		X	X	X		X
4	SW04	May 26, 2021		Water	M21-My57876	X	X	X	X	X		X	X	X		X
5	SW05	May 26, 2021		Water	M21-My57877	X	X	X	X	X		X	X	X		X
6	QC01_SW	May 26, 2021		Water	M21-My57878	X	X	X	X	X		X	X	X		X
7	RIN260521	May 26, 2021		Water	M21-My57879						X	X	X	X		
8	TS	May 26, 2021		Water	M21-My57880										X	
9	TB	May 26, 2021		Water	M21-My57881								X			

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
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NSW 2000

Project Name: MAMRE ROAD
Project ID: 60330

Order No.:
Report #: 798936
Phone: 02 8245 0300
Fax:

Received: May 27, 2021 4:30 PM
Due: Jun 3, 2021
Priority: 5 Day
Contact Name: Rohan Hammond

Eurofins Analytical Services Manager : Ursula Long

Sample Detail	Ammonia (as N)	Nitrate (as N)	Nitrite (as N)	pH (at 25 °C)	Total Suspended Solids Dried at 103–105°C	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Total Recoverable Hydrocarbons	BTEX	Polycyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217											
Brisbane Laboratory - NATA Site # 20794											
Perth Laboratory - NATA Site # 23736											
Mayfield Laboratory - NATA Site # 25079											
External Laboratory											
Test Counts	6	6	6	6	6	1	7	8	7	1	6

JBS & G Australia (NSW) P/L
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NATA Accredited
Accreditation Number 1261
Site Number 1254

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

Attention: **Rohan Hammond**

Report **798936-W**
Project name MAMRE ROAD
Project ID 60330
Received Date May 27, 2021

Client Sample ID			**SW01**	**SW02**	**SW03**	**SW04**
Sample Matrix			**Water**	**Water**	**Water**	**Water**
Eurofins Sample No.			**M21-My57873**	**M21-My57874**	**M21-My57875**	**M21-My57876**
Date Sampled			**May 26, 2021**	**May 26, 2021**	**May 26, 2021**	**May 26, 2021**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
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
BTEX						
Benzene	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
Ethylbenzene	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
o-Xylene	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
4-Bromofluorobenzene (surr.)	1	%	90	94	93	93
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
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
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
Dibenz(a.h)anthracene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
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

Client Sample ID			SW01	SW02	SW03	SW04
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M21-My57873	M21-My57874	M21-My57875	M21-My57876
Date Sampled			May 26, 2021	May 26, 2021	May 26, 2021	May 26, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons (Trace level)						
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	%	84	97	63	81
p-Terphenyl-d14 (surr.)	1	%	116	126	75	102
Ammonia (as N)	0.01	mg/L	< 0.01	0.21	0.04	0.63
Nitrate (as N)	0.02	mg/L	0.03	0.05	0.10	< 0.02
Nitrite (as N)	0.02	mg/L	0.03	< 0.02	< 0.02	< 0.02
pH (at 25 °C)	0.1	pH Units	8.3	7.6	8.2	7.6
Total Suspended Solids Dried at 103–105°C	1	mg/L	6.5	220	49	310
Heavy Metals						
Arsenic	0.001	mg/L	0.001	0.003	0.004	0.003
Cadmium	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Chromium	0.001	mg/L	< 0.001	< 0.001	0.001	0.001
Copper	0.001	mg/L	0.002	0.003	0.006	0.005
Lead	0.001	mg/L	< 0.001	< 0.001	0.002	0.001
Mercury	0.0001	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nickel	0.001	mg/L	< 0.001	0.002	0.002	0.002
Zinc	0.005	mg/L	0.005	0.013	0.036	0.029

Client Sample ID			SW05	QC01_SW	RIN260521	TS
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M21-My57877	M21-My57878	M21-My57879	M21-My57880
Date Sampled			May 26, 2021	May 26, 2021	May 26, 2021	May 26, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	0.02	mg/L	< 0.04	< 0.04	< 0.02	-
TRH C10-C14	0.05	mg/L	< 0.05	< 0.05	< 0.05	-
TRH C15-C28	0.1	mg/L	< 0.1	< 0.1	< 0.1	-
TRH C29-C36	0.1	mg/L	< 0.1	< 0.1	< 0.1	-
TRH C10-C36 (Total)	0.1	mg/L	< 0.1	< 0.1	< 0.1	-
BTEX						
Benzene	0.001	mg/L	< 0.002	< 0.002	< 0.001	-
Toluene	0.001	mg/L	< 0.002	< 0.002	< 0.001	-
Ethylbenzene	0.001	mg/L	< 0.002	< 0.002	< 0.001	-
m&p-Xylenes	0.002	mg/L	< 0.004	< 0.004	< 0.002	-
o-Xylene	0.001	mg/L	< 0.002	< 0.002	< 0.001	-
Xylenes - Total*	0.003	mg/L	< 0.006	< 0.006	< 0.003	-
4-Bromofluorobenzene (surr.)	1	%	102	92	93	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.01	mg/L	< 0.02	< 0.02	< 0.01	-
TRH C6-C10	0.02	mg/L	< 0.04	< 0.04	< 0.02	-
TRH C6-C10 less BTEX (F1)[N04]	0.02	mg/L	< 0.04	< 0.04	< 0.02	-
TRH >C10-C16	0.05	mg/L	< 0.05	< 0.05	< 0.05	-
TRH >C10-C16 less Naphthalene (F2)[N01]	0.05	mg/L	< 0.05	< 0.05	< 0.05	-

Client Sample ID			SW05	QC01_SW	RIN260521	TS
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M21-My57877	M21-My57878	M21-My57879	M21-My57880
Date Sampled			May 26, 2021	May 26, 2021	May 26, 2021	May 26, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C16-C34	0.1	mg/L	< 0.1	< 0.1	< 0.1	-
TRH >C34-C40	0.1	mg/L	< 0.1	< 0.1	< 0.1	-
TRH >C10-C40 (total)*	0.1	mg/L	< 0.1	< 0.1	< 0.1	-
Polycyclic Aromatic Hydrocarbons (Trace level)						
Acenaphthene	0.00001	mg/L	< 0.00001	< 0.00001	-	-
Acenaphthylene	0.00001	mg/L	< 0.00001	< 0.00001	-	-
Anthracene	0.00001	mg/L	< 0.00001	< 0.00001	-	-
Benz(a)anthracene	0.00001	mg/L	< 0.00001	< 0.00001	-	-
Benzo(a)pyrene	0.00001	mg/L	< 0.00001	< 0.00001	-	-
Benzo(b&j)fluoranthene	0.00001	mg/L	< 0.00001	< 0.00001	-	-
Benzo(g.h.i)perylene	0.00001	mg/L	< 0.00001	< 0.00001	-	-
Benzo(k)fluoranthene	0.00001	mg/L	< 0.00001	< 0.00001	-	-
Chrysene	0.00001	mg/L	< 0.00001	< 0.00001	-	-
Dibenz(a.h)anthracene	0.00001	mg/L	< 0.00001	< 0.00001	-	-
Fluoranthene	0.00001	mg/L	< 0.00001	< 0.00001	-	-
Fluorene	0.00001	mg/L	< 0.00001	< 0.00001	-	-
Indeno(1.2.3-cd)pyrene	0.00001	mg/L	< 0.00001	< 0.00001	-	-
Naphthalene	0.00001	mg/L	< 0.00001	< 0.00001	-	-
Phenanthrene	0.00001	mg/L	< 0.00001	< 0.00001	-	-
Pyrene	0.00001	mg/L	< 0.00001	< 0.00001	-	-
Total PAH*	0.00001	mg/L	< 0.00001	< 0.00001	-	-
2-Fluorobiphenyl (surr.)	1	%	84	104	-	-
p-Terphenyl-d14 (surr.)	1	%	107	130	-	-
Ammonia (as N)	0.01	mg/L	0.03	0.14	-	-
Nitrate (as N)	0.02	mg/L	< 0.02	0.03	-	-
Nitrite (as N)	0.02	mg/L	< 0.02	< 0.02	-	-
pH (at 25 °C)	0.1	pH Units	7.9	7.7	-	-
Total Suspended Solids Dried at 103–105°C	1	mg/L	100	140	-	-
Heavy Metals						
Arsenic	0.001	mg/L	0.004	0.003	< 0.001	-
Cadmium	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	-
Chromium	0.001	mg/L	0.001	< 0.001	< 0.001	-
Copper	0.001	mg/L	0.003	0.007	< 0.001	-
Lead	0.001	mg/L	0.001	< 0.001	< 0.001	-
Mercury	0.0001	mg/L	< 0.0001	< 0.0001	< 0.0001	-
Nickel	0.001	mg/L	0.002	0.002	< 0.001	-
Zinc	0.005	mg/L	0.010	0.018	< 0.005	-
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	-

Client Sample ID			SW05	QC01_SW	RIN260521	TS
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M21-My57877	M21-My57878	M21-My57879	M21-My57880
Date Sampled			May 26, 2021	May 26, 2021	May 26, 2021	May 26, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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	%	-	-	73	-
p-Terphenyl-d14 (surr.)	1	%	-	-	113	-
BTEX						
Benzene	1	%	-	-	-	90
Ethylbenzene	1	%	-	-	-	89
m&p-Xylenes	1	%	-	-	-	89
o-Xylene	1	%	-	-	-	83
Toluene	1	%	-	-	-	94
Xylenes - Total	1	%	-	-	-	85
4-Bromofluorobenzene (surr.)	1	%	-	-	-	101

Client Sample ID			TB
Sample Matrix			Water
Eurofins Sample No.			M21-My57881
Date Sampled			May 26, 2021
Test/Reference	LOR	Unit	
BTEX			
Benzene	0.001	mg/L	< 0.001
Toluene	0.001	mg/L	< 0.001
Ethylbenzene	0.001	mg/L	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002
o-Xylene	0.001	mg/L	< 0.001
Xylenes - Total*	0.003	mg/L	< 0.003
4-Bromofluorobenzene (surr.)	1	%	89

Sample History

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

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

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Melbourne	Jun 02, 2021	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	May 29, 2021	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Jun 02, 2021	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Melbourne	May 29, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Polycyclic Aromatic Hydrocarbons (Trace level)	Melbourne	Jun 02, 2021	7 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water (trace)			
Ammonia (as N)	Melbourne	May 29, 2021	28 Days
- Method: APHA 4500-NH3 Ammonia Nitrogen by FIA			
Nitrate (as N)	Melbourne	May 29, 2021	28 Days
- Method: LTM-INO-4120 Analysis of NOx NO2 NH3 by FIA			
Nitrite (as N)	Melbourne	May 29, 2021	2 Days
- Method: LTM-INO-4120 Analysis of NOx NO2 NH3 by FIA			
pH (at 25 °C)	Melbourne	May 29, 2021	0 Hours
- Method: LTM-GEN-7090 pH in water by ISE			
Total Suspended Solids Dried at 103–105°C	Melbourne	May 29, 2021	7 Days
- Method: LTM-INO-4070 Analysis of Suspended Solids in Water by Gravimetry			
Metals M8	Melbourne	May 31, 2021	180 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Polycyclic Aromatic Hydrocarbons	Melbourne	May 29, 2021	7 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			

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Project Name: MAMRE ROAD
Project ID: 60330

Order No.:
Report #: 798936
Phone: 02 8245 0300
Fax:

Received: May 27, 2021 4:30 PM
Due: Jun 3, 2021
Priority: 5 Day
Contact Name: Rohan Hammond

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Ammonia (as N)	Nitrate (as N)	Nitrite (as N)	pH (at 25 °C)	Total Suspended Solids Dried at 103–105°C	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Total Recoverable Hydrocarbons	BTEX	Polycyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217																
Brisbane Laboratory - NATA Site # 20794																
Perth Laboratory - NATA Site # 23736																
Mayfield Laboratory - NATA Site # 25079																
External Laboratory																
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**											
1	SW01	May 26, 2021		Water	M21-My57873	X	X	X	X	X		X	X	X		X
2	SW02	May 26, 2021		Water	M21-My57874	X	X	X	X	X		X	X	X		X
3	SW03	May 26, 2021		Water	M21-My57875	X	X	X	X	X		X	X	X		X
4	SW04	May 26, 2021		Water	M21-My57876	X	X	X	X	X		X	X	X		X
5	SW05	May 26, 2021		Water	M21-My57877	X	X	X	X	X		X	X	X		X
6	QC01_SW	May 26, 2021		Water	M21-My57878	X	X	X	X	X		X	X	X		X
7	RIN260521	May 26, 2021		Water	M21-My57879						X	X	X	X		
8	TS	May 26, 2021		Water	M21-My57880										X	
9	TB	May 26, 2021		Water	M21-My57881								X			

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Project Name: MAMRE ROAD
Project ID: 60330

Order No.:
Report #: 798936
Phone: 02 8245 0300
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Received: May 27, 2021 4:30 PM
Due: Jun 3, 2021
Priority: 5 Day
Contact Name: Rohan Hammond

Eurofins Analytical Services Manager : Ursula Long

Sample Detail	Ammonia (as N)	Nitrate (as N)	Nitrite (as N)	pH (at 25 °C)	Total Suspended Solids Dried at 103–105°C	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Total Recoverable Hydrocarbons	BTEX	Polycyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217											
Brisbane Laboratory - NATA Site # 20794											
Perth Laboratory - NATA Site # 23736											
Mayfield Laboratory - NATA Site # 25079											
External Laboratory											
Test Counts	6	6	6	6	6	1	7	8	7	1	6

Internal Quality Control Review and Glossary

General

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

Holding Times

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

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

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

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

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

****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
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient

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.
5. 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 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 - 1999 NEPM Fractions							
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							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
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							
Polycyclic Aromatic Hydrocarbons (Trace level)							
Acenaphthene	mg/L	< 0.00001			0.00001	Pass	
Acenaphthylene	mg/L	< 0.00001			0.00001	Pass	
Anthracene	mg/L	< 0.00001			0.00001	Pass	
Benz(a)anthracene	mg/L	< 0.00001			0.00001	Pass	
Benzo(a)pyrene	mg/L	< 0.00001			0.00001	Pass	
Benzo(b&j)fluoranthene	mg/L	< 0.00001			0.00001	Pass	
Benzo(g.h.i)perylene	mg/L	< 0.00001			0.00001	Pass	
Benzo(k)fluoranthene	mg/L	< 0.00001			0.00001	Pass	
Chrysene	mg/L	< 0.00001			0.00001	Pass	
Dibenz(a.h)anthracene	mg/L	< 0.00001			0.00001	Pass	
Fluoranthene	mg/L	< 0.00001			0.00001	Pass	
Fluorene	mg/L	< 0.00001			0.00001	Pass	
Indeno(1.2.3-cd)pyrene	mg/L	< 0.00001			0.00001	Pass	
Naphthalene	mg/L	< 0.00001			0.00001	Pass	
Phenanthrene	mg/L	< 0.00001			0.00001	Pass	
Pyrene	mg/L	< 0.00001			0.00001	Pass	
Total PAH*	mg/L	-			0.00001	N/A	
Method Blank							
Ammonia (as N)	mg/L	< 0.01			0.01	Pass	
Nitrate (as N)	mg/L	< 0.02			0.02	Pass	
Nitrite (as N)	mg/L	< 0.02			0.02	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/L	< 0.001			0.001	Pass	
Cadmium	mg/L	< 0.0002			0.0002	Pass	
Chromium	mg/L	< 0.001			0.001	Pass	
Copper	mg/L	< 0.001			0.001	Pass	
Lead	mg/L	< 0.001			0.001	Pass	
Mercury	mg/L	< 0.0001			0.0001	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Nickel	mg/L	< 0.001			0.001	Pass	
Zinc	mg/L	< 0.005			0.005	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/L	< 0.001			0.001	Pass	
Acenaphthylene	mg/L	< 0.001			0.001	Pass	
Anthracene	mg/L	< 0.001			0.001	Pass	
Benz(a)anthracene	mg/L	< 0.001			0.001	Pass	
Benzo(a)pyrene	mg/L	< 0.001			0.001	Pass	
Benzo(b&j)fluoranthene	mg/L	< 0.001			0.001	Pass	
Benzo(g.h.i)perylene	mg/L	< 0.001			0.001	Pass	
Benzo(k)fluoranthene	mg/L	< 0.001			0.001	Pass	
Chrysene	mg/L	< 0.001			0.001	Pass	
Dibenz(a.h)anthracene	mg/L	< 0.001			0.001	Pass	
Fluoranthene	mg/L	< 0.001			0.001	Pass	
Fluorene	mg/L	< 0.001			0.001	Pass	
Indeno(1.2.3-cd)pyrene	mg/L	< 0.001			0.001	Pass	
Naphthalene	mg/L	< 0.001			0.001	Pass	
Phenanthrene	mg/L	< 0.001			0.001	Pass	
Pyrene	mg/L	< 0.001			0.001	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	102			70-130	Pass	
TRH C10-C14	%	73			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	100			70-130	Pass	
Toluene	%	103			70-130	Pass	
Ethylbenzene	%	96			70-130	Pass	
m&p-Xylenes	%	95			70-130	Pass	
Xylenes - Total*	%	96			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	93			70-130	Pass	
TRH C6-C10	%	102			70-130	Pass	
TRH >C10-C16	%	72			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons (Trace level)							
Acenaphthene	%	115			70-130	Pass	
Acenaphthylene	%	107			70-130	Pass	
Anthracene	%	103			70-130	Pass	
Benz(a)anthracene	%	126			70-130	Pass	
Benzo(a)pyrene	%	99			70-130	Pass	
Benzo(b&j)fluoranthene	%	113			70-130	Pass	
Benzo(g.h.i)perylene	%	119			70-130	Pass	
Benzo(k)fluoranthene	%	128			70-130	Pass	
Chrysene	%	107			70-130	Pass	
Dibenz(a.h)anthracene	%	108			70-130	Pass	
Fluoranthene	%	112			70-130	Pass	
Fluorene	%	124			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	111			70-130	Pass	
Naphthalene	%	98			70-130	Pass	
Phenanthrene	%	128			70-130	Pass	
Pyrene	%	114			70-130	Pass	
LCS - % Recovery							

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Ammonia (as N)	%	92			70-130	Pass	
Nitrate (as N)	%	101			70-130	Pass	
Nitrite (as N)	%	108			70-130	Pass	
Total Suspended Solids Dried at 103–105°C	%	95			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	104			80-120	Pass	
Cadmium	%	99			80-120	Pass	
Chromium	%	92			80-120	Pass	
Copper	%	95			80-120	Pass	
Lead	%	91			80-120	Pass	
Mercury	%	84			80-120	Pass	
Nickel	%	90			80-120	Pass	
Zinc	%	95			80-120	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	107			70-130	Pass	
Acenaphthylene	%	91			70-130	Pass	
Anthracene	%	104			70-130	Pass	
Benz(a)anthracene	%	85			70-130	Pass	
Benzo(a)pyrene	%	74			70-130	Pass	
Benzo(b&j)fluoranthene	%	77			70-130	Pass	
Benzo(g.h.i)perylene	%	72			70-130	Pass	
Benzo(k)fluoranthene	%	108			70-130	Pass	
Chrysene	%	111			70-130	Pass	
Dibenz(a.h)anthracene	%	74			70-130	Pass	
Fluoranthene	%	115			70-130	Pass	
Fluorene	%	99			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	78			70-130	Pass	
Naphthalene	%	79			70-130	Pass	
Phenanthrene	%	98			70-130	Pass	
Pyrene	%	103			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 Fractions				Result 1					
TRH C10-C14	B21-My53923	NCP	%	116			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH >C10-C16	B21-My53923	NCP	%	89			70-130	Pass	
Spike - % Recovery									
				Result 1					
Ammonia (as N)	B21-My54249	NCP	%	87			70-130	Pass	
Nitrate (as N)	B21-My54249	NCP	%	100			70-130	Pass	
Nitrite (as N)	B21-My54249	NCP	%	110			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M21-My58323	NCP	%	97			75-125	Pass	
Cadmium	M21-My58323	NCP	%	94			75-125	Pass	
Chromium	M21-My58323	NCP	%	91			75-125	Pass	
Copper	M21-My58323	NCP	%	88			75-125	Pass	
Lead	M21-My58323	NCP	%	90			75-125	Pass	
Mercury	M21-My58323	NCP	%	92			75-125	Pass	
Nickel	M21-My58323	NCP	%	88			75-125	Pass	
Zinc	M21-My58323	NCP	%	87			75-125	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
				Result 1					
Total Suspended Solids Dried at 103–105°C	M21-My57877	CP	%	129			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	M21-My53805	NCP	%	126			70-130	Pass	
Acenaphthylene	M21-My53805	NCP	%	99			70-130	Pass	
Anthracene	M21-My53805	NCP	%	83			70-130	Pass	
Benz(a)anthracene	M21-My53805	NCP	%	88			70-130	Pass	
Benzo(a)pyrene	M21-My53805	NCP	%	74			70-130	Pass	
Benzo(b&j)fluoranthene	M21-My53805	NCP	%	93			70-130	Pass	
Benzo(g.h.i)perylene	M21-My53805	NCP	%	81			70-130	Pass	
Benzo(k)fluoranthene	M21-My53805	NCP	%	86			70-130	Pass	
Chrysene	M21-My53805	NCP	%	90			70-130	Pass	
Dibenz(a.h)anthracene	M21-My53805	NCP	%	79			70-130	Pass	
Fluoranthene	M21-My53805	NCP	%	100			70-130	Pass	
Fluorene	M21-My53805	NCP	%	125			70-130	Pass	
Indeno(1.2.3-cd)pyrene	M21-My53805	NCP	%	80			70-130	Pass	
Naphthalene	M21-My53805	NCP	%	104			70-130	Pass	
Phenanthrene	M21-My53805	NCP	%	107			70-130	Pass	
Pyrene	M21-My53805	NCP	%	101			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	P21-My50532	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH C10-C14	B21-My61664	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
TRH C15-C28	B21-My61664	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH C29-C36	B21-My61664	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	P21-My50532	NCP	mg/L	0.003	0.003	2.0	30%	Pass	
Toluene	P21-My50532	NCP	mg/L	0.002	0.002	3.0	30%	Pass	
Ethylbenzene	P21-My50532	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
m&p-Xylenes	P21-My50532	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
o-Xylene	P21-My50532	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Xylenes - Total*	P21-My50532	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	P21-My50532	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
TRH C6-C10	P21-My50532	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH >C10-C16	B21-My61664	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
TRH >C16-C34	B21-My61664	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH >C34-C40	B21-My61664	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons (Trace level)				Result 1	Result 2	RPD			
Acenaphthene	M21-My58032	NCP	mg/L	< 0.00001	< 0.00001	<1	30%	Pass	
Acenaphthylene	M21-My58032	NCP	mg/L	< 0.00001	< 0.00001	<1	30%	Pass	
Anthracene	M21-My58032	NCP	mg/L	< 0.00001	< 0.00001	<1	30%	Pass	
Benz(a)anthracene	M21-My58032	NCP	mg/L	< 0.00001	< 0.00001	<1	30%	Pass	
Benzo(a)pyrene	M21-My58032	NCP	mg/L	< 0.00001	< 0.00001	<1	30%	Pass	
Benzo(b&j)fluoranthene	M21-My58032	NCP	mg/L	< 0.00001	< 0.00001	<1	30%	Pass	
Benzo(g.h.i)perylene	M21-My58032	NCP	mg/L	< 0.00001	< 0.00001	<1	30%	Pass	
Benzo(k)fluoranthene	M21-My58032	NCP	mg/L	< 0.00001	< 0.00001	<1	30%	Pass	

Duplicate									
Polycyclic Aromatic Hydrocarbons (Trace level)				Result 1	Result 2	RPD			
Chrysene	M21-My58032	NCP	mg/L	< 0.00001	< 0.00001	<1	30%	Pass	
Dibenz(a.h)anthracene	M21-My58032	NCP	mg/L	< 0.00001	< 0.00001	<1	30%	Pass	
Fluoranthene	M21-My58032	NCP	mg/L	< 0.00001	< 0.00001	<1	30%	Pass	
Fluorene	M21-My58032	NCP	mg/L	< 0.00001	< 0.00001	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	M21-My58032	NCP	mg/L	< 0.00001	< 0.00001	<1	30%	Pass	
Naphthalene	M21-My58032	NCP	mg/L	< 0.00001	< 0.00001	<1	30%	Pass	
Phenanthrene	M21-My58032	NCP	mg/L	< 0.00001	< 0.00001	<1	30%	Pass	
Pyrene	M21-My58032	NCP	mg/L	< 0.00001	< 0.00001	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Ammonia (as N)	B21-My54249	NCP	mg/L	0.10	0.09	6.0	30%	Pass	
Nitrate (as N)	B21-My54249	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
Nitrite (as N)	B21-My54249	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
pH (at 25 °C)	M21-My58005	NCP	pH Units	8.2	8.1	pass	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M21-My58323	NCP	mg/L	0.002	0.002	2.0	30%	Pass	
Cadmium	M21-My58323	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Chromium	M21-My58323	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Copper	M21-My58323	NCP	mg/L	0.004	0.004	2.0	30%	Pass	
Lead	M21-My58323	NCP	mg/L	0.002	0.002	3.0	30%	Pass	
Mercury	M21-My58323	NCP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Nickel	M21-My58323	NCP	mg/L	0.002	0.002	5.0	30%	Pass	
Zinc	M21-My58323	NCP	mg/L	0.035	0.042	19	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Total Suspended Solids Dried at 103–105°C	M21-My57877	CP	mg/L	100	100	1.0	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	M21-My58032	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Acenaphthylene	M21-My58032	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Anthracene	M21-My58032	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benz(a)anthracene	M21-My58032	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(a)pyrene	M21-My58032	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(b&j)fluoranthene	M21-My58032	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(g.h.i)perylene	M21-My58032	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(k)fluoranthene	M21-My58032	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chrysene	M21-My58032	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dibenz(a.h)anthracene	M21-My58032	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluoranthene	M21-My58032	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluorene	M21-My58032	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	M21-My58032	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Naphthalene	M21-My58032	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Phenanthrene	M21-My58032	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Pyrene	M21-My58032	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	

Comments

Sample Integrity

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

Qualifier Codes/Comments

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

Authorised by:

John Nguyen	Analytical Services Manager
Emily Rosenberg	Senior Analyst-Metal (VIC)
Joseph Edouard	Senior Analyst-Organic (VIC)
Scott Beddoes	Senior Analyst-Inorganic (VIC)
Vivian Wang	Senior Analyst-Volatile (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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CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 60330	LABORATORY BATCH NO.:
PROJECT NAME: Mamre Road	SAMPLERS: RL
DATE NEEDED BY: STAT	QC LEVEL: NEPM (2013)
PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688	
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) Khammond@jbsg.com.au; (3) RLi@jbsg.com.au	

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	Asbestos	PAH	Hydrocarbons/Phenols	VOCs	PCBs	Asbestos	TRHs (low level)	Ammonia	Nitrate/Nitrite	pH/TSS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
1	QA01	Soil	26-5-21		J+B		x	x	x	x	x	x	x							
2	~~QC01~~ QA02	↓	↓		J+B		x	x	x	x			x							
3	QA03	↓	↓		J		x	x	x											
4	QAOLSW	Water	↓		2xV, 1xA, 1xM, 1xIng, 1x Pres. Inorg		x	x						x	x	x	x			

Environmental Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

Job No: 270211
Date Received: 28/05/21
Time Received: 1044
Received By: CH
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Ryan Li DATE: 26/5/21	CONSIGNMENT NOTE NO.	NAME: Christine ECS DATE: 28/05/21 1130	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	OF:	COOLER TEMP 12 deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

CERTIFICATE OF ANALYSIS 270211

Client Details

Client	JBS & G (NSW & WA) Pty Ltd
Attention	Rohan Hammond
Address	Level 1, 50 Margaret St, Sydney, NSW, 2000

Sample Details

Your Reference	**60330, Mamre Road**
Number of Samples	3 soil, 1 water
Date samples received	28/05/2021
Date completed instructions received	31/05/2021

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

Report Details

Date results requested by	04/06/2021
Date of Issue	04/06/2021

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Accredited for compliance with ISO/IEC 17025 - Testing. **Tests not covered by NATA are denoted with ***

Asbestos Approved By
Analysed by Asbestos Approved Identifier: Lucy Zhu
Authorised by Asbestos Approved Signatory: Lucy Zhu

Results Approved By
Diego Bigolin, Team Leader, Inorganics
Dragana Tomas, Senior Chemist
Giovanni Agosti, Group Technical Manager
Greta Petzold, Customer Service
Lucy Zhu, Asbestos Supervisor
Steven Luong, Organics Supervisor

Authorised By



Nancy Zhang, Laboratory Manager

VOCs in soil		
Our Reference		270211-1
Your Reference	UNITS	QA01
Date Sampled		26/05/2021
Type of sample		soil
Date extracted	-	31/05/2021
Date analysed	-	31/05/2021
Dichlorodifluoromethane	mg/kg	<1
Chloromethane	mg/kg	<1
Vinyl Chloride	mg/kg	<1
Bromomethane	mg/kg	<1
Chloroethane	mg/kg	<1
Trichlorofluoromethane	mg/kg	<1
1,1-Dichloroethene	mg/kg	<1
trans-1,2-dichloroethene	mg/kg	<1
1,1-dichloroethane	mg/kg	<1
cis-1,2-dichloroethene	mg/kg	<1
bromochloromethane	mg/kg	<1
chloroform	mg/kg	<1
2,2-dichloropropane	mg/kg	<1
1,2-dichloroethane	mg/kg	<1
1,1,1-trichloroethane	mg/kg	<1
1,1-dichloropropene	mg/kg	<1
Cyclohexane	mg/kg	<1
carbon tetrachloride	mg/kg	<1
Benzene	mg/kg	<0.2
dibromomethane	mg/kg	<1
1,2-dichloropropane	mg/kg	<1
trichloroethene	mg/kg	<1
bromodichloromethane	mg/kg	<1
trans-1,3-dichloropropene	mg/kg	<1
cis-1,3-dichloropropene	mg/kg	<1
1,1,2-trichloroethane	mg/kg	<1
Toluene	mg/kg	<0.5
1,3-dichloropropane	mg/kg	<1
dibromochloromethane	mg/kg	<1
1,2-dibromoethane	mg/kg	<1
tetrachloroethene	mg/kg	<1
1,1,1,2-tetrachloroethane	mg/kg	<1
chlorobenzene	mg/kg	<1
Ethylbenzene	mg/kg	<1

VOCs in soil		
Our Reference		270211-1
Your Reference	UNITS	QA01
Date Sampled		26/05/2021
Type of sample		soil
bromoform	mg/kg	<1
m+p-xylene	mg/kg	<2
styrene	mg/kg	<1
1,1,2,2-tetrachloroethane	mg/kg	<1
o-Xylene	mg/kg	<1
1,2,3-trichloropropane	mg/kg	<1
isopropylbenzene	mg/kg	<1
bromobenzene	mg/kg	<1
n-propyl benzene	mg/kg	<1
2-chlorotoluene	mg/kg	<1
4-chlorotoluene	mg/kg	<1
1,3,5-trimethyl benzene	mg/kg	<1
tert-butyl benzene	mg/kg	<1
1,2,4-trimethyl benzene	mg/kg	<1
1,3-dichlorobenzene	mg/kg	<1
sec-butyl benzene	mg/kg	<1
1,4-dichlorobenzene	mg/kg	<1
4-isopropyl toluene	mg/kg	<1
1,2-dichlorobenzene	mg/kg	<1
n-butyl benzene	mg/kg	<1
1,2-dibromo-3-chloropropane	mg/kg	<1
1,2,4-trichlorobenzene	mg/kg	<1
hexachlorobutadiene	mg/kg	<1
1,2,3-trichlorobenzene	mg/kg	<1
Surrogate Dibromofluorometha	%	101
Surrogate aaa-Trifluorotoluene	%	125
Surrogate Toluene-d_8	%	103
Surrogate 4-Bromofluorobenzene	%	104

vTRH(C6-C10)/BTEXN in Soil				
Our Reference	UNITS	270211-1	270211-2	270211-3
Your Reference		QA01	QA02	QA03
Date Sampled		26/05/2021	26/05/2021	26/05/2021
Type of sample		soil	soil	soil
Date extracted	-	31/05/2021	31/05/2021	31/05/2021
Date analysed	-	31/05/2021	31/05/2021	31/05/2021
TRH C_6 - C_9	mg/kg	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1
naphthalene	mg/kg	<1	<1	<1
Total +ve Xylenes	mg/kg	<3	<3	<3
Surrogate aaa-Trifluorotoluene	%	125	106	123

svTRH (C10-C40) in Soil				
Our Reference		270211-1	270211-2	270211-3
Your Reference	UNITS	QA01	QA02	QA03
Date Sampled		26/05/2021	26/05/2021	26/05/2021
Type of sample		soil	soil	soil
Date extracted	-	31/05/2021	31/05/2021	31/05/2021
Date analysed	-	01/06/2021	01/06/2021	01/06/2021
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50
Surrogate o-Terphenyl	%	95	86	86

PAHs in Soil				
Our Reference	UNITS	270211-1	270211-2	270211-3
Your Reference		QA01	QA02	QA03
Date Sampled		26/05/2021	26/05/2021	26/05/2021
Type of sample		soil	soil	soil
Date extracted	-	31/05/2021	31/05/2021	31/05/2021
Date analysed	-	01/06/2021	01/06/2021	01/06/2021
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	%	117	107	107

Organochlorine Pesticides in soil			
Our Reference	UNITS	270211-1	270211-2
Your Reference		QA01	QA02
Date Sampled		26/05/2021	26/05/2021
Type of sample		soil	soil
Date extracted	-	31/05/2021	31/05/2021
Date analysed	-	01/06/2021	01/06/2021
alpha-BHC	mg/kg	<0.1	<0.1
HCB	mg/kg	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1	<0.1
Surrogate TCMX	%	93	76

PCBs in Soil		
Our Reference		270211-1
Your Reference	UNITS	QA01
Date Sampled		26/05/2021
Type of sample		soil
Date extracted	-	31/05/2021
Date analysed	-	01/06/2021
Aroclor 1016	mg/kg	<0.1
Aroclor 1221	mg/kg	<0.1
Aroclor 1232	mg/kg	<0.1
Aroclor 1242	mg/kg	<0.1
Aroclor 1248	mg/kg	<0.1
Aroclor 1254	mg/kg	<0.1
Aroclor 1260	mg/kg	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1
Surrogate TCMX	%	93

Acid Extractable metals in soil				
Our Reference	UNITS	270211-1	270211-2	270211-3
Your Reference		QA01	QA02	QA03
Date Sampled		26/05/2021	26/05/2021	26/05/2021
Type of sample		soil	soil	soil
Date prepared	-	02/06/2021	02/06/2021	02/06/2021
Date analysed	-	02/06/2021	02/06/2021	02/06/2021
Arsenic	mg/kg	6	10	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4
Chromium	mg/kg	18	17	16
Copper	mg/kg	16	13	44
Lead	mg/kg	21	16	13
Mercury	mg/kg	0.1	<0.1	<0.1
Nickel	mg/kg	8	6	10
Zinc	mg/kg	19	22	53

Moisture				
Our Reference		270211-1	270211-2	270211-3
Your Reference	UNITS	QA01	QA02	QA03
Date Sampled		26/05/2021	26/05/2021	26/05/2021
Type of sample		soil	soil	soil
Date prepared	-	31/05/2021	31/05/2021	31/05/2021
Date analysed	-	01/06/2021	01/06/2021	01/06/2021
Moisture	%	19	26	21

Asbestos ID - soils NEPM - ASB-001			
Our Reference	UNITS	270211-1	270211-2
Your Reference		QA01	QA02
Date Sampled		26/05/2021	26/05/2021
Type of sample		soil	soil
Date analysed	-	03/06/2021	03/06/2021
Sample mass tested	g	509.3	550.29
Sample Description	-	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	No visible asbestos detected
ACM >7mm Estimation*	g	–	–
FA and AF Estimation*	g	–	–
ACM >7mm Estimation*	%(w/w)	<0.01	<0.01
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001

Phenoxy Acid Herbicides in Soil			
Our Reference	UNITS	270211-1	270211-2
Your Reference		QA01	QA02
Date Sampled		26/05/2021	26/05/2021
Type of sample		soil	soil
Date extracted	-	02/06/2021	02/06/2021
Date analysed	-	03/06/2021	03/06/2021
Clopyralid	mg/kg	<0.5	<0.5
3,5-Dichlorobenzoic acid	mg/kg	<0.5	<0.5
o-chlorophenoxy acetic acid	mg/kg	<0.5	<0.5
4-CPA	mg/kg	<0.5	<0.5
Dicamba	mg/kg	<0.5	<0.5
MCPP	mg/kg	<0.5	<0.5
MCPA	mg/kg	<0.5	<0.5
Dichlorprop	mg/kg	<0.5	<0.5
2,4-D	mg/kg	<0.5	<0.5
Bromoxynil	mg/kg	<0.5	<0.5
Triclopyr	mg/kg	<0.5	<0.5
2,4,5-TP	mg/kg	<0.5	<0.5
2,4,5-T	mg/kg	<0.5	<0.5
MCPB	mg/kg	<0.5	<0.5
Dinoseb	mg/kg	<1	<1
2,4-DB	mg/kg	<0.5	<0.5
Ioxynil	mg/kg	<1	<1
Picloram	mg/kg	<0.5	<0.5
DCPA (Chlorthal) Diacid	mg/kg	<0.5	<0.5
Acifluorfen	mg/kg	<2	<2
2,4,6-T	mg/kg	<0.5	<0.5
2,6-D	mg/kg	<0.5	<0.5
Surrogate 2.4- DCPA	%	100	100

vTRH(C6-C10)/BTEXN in Water		
Our Reference		270211-4
Your Reference	UNITS	QAOLSW
Date Sampled		26/05/2021
Type of sample		water
Date extracted	-	31/05/2021
Date analysed	-	31/05/2021
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	%	101
Surrogate toluene-d8	%	103
Surrogate 4-BFB	%	99

svTRH (C10-C40) in Water		
Our Reference		270211-4
Your Reference	UNITS	QAOLSW
Date Sampled		26/05/2021
Type of sample		water
Date extracted	-	01/06/2021
Date analysed	-	01/06/2021
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 >C_{10} - C_{16} 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	%	61

PAHs in Water - Low Level		
Our Reference		270211-4
Your Reference	UNITS	QAOLSW
Date Sampled		26/05/2021
Type of sample		water
Date extracted	-	01/06/2021
Date analysed	-	01/06/2021
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	%	99

HM in water - total		
Our Reference		270211-4
Your Reference	UNITS	QAOLSW
Date Sampled		26/05/2021
Type of sample		water
Date prepared	-	01/06/2021
Date analysed	-	01/06/2021
Arsenic-Total	µg/L	3
Cadmium-Total	µg/L	<0.1
Chromium-Total	µg/L	<1
Copper-Total	µg/L	5
Lead-Total	µg/L	<1
Mercury-Total	µg/L	<0.05
Nickel-Total	µg/L	2
Zinc-Total	µg/L	44

Miscellaneous Inorganics		
Our Reference	UNITS	270211-4
Your Reference		QAOLSW
Date Sampled		26/05/2021
Type of sample		water
Date prepared	-	01/06/2021
Date analysed	-	01/06/2021
pH	pH Units	7.1
Total Suspended Solids	mg/L	130
Nitrate as N in water	mg/L	0.02
Nitrite as N in water	mg/L	<0.005
Ammonia as N in water	mg/L	0.075

Method ID	Methodology Summary
ASB-001	Asbestos ID - Qualitative identification of asbestos in bulk samples using Polarised Light Microscopy and Dispersion Staining Techniques including Synthetic Mineral Fibre and Organic Fibre as per Australian Standard 4964-2004.
ASB-001	Asbestos ID - Identification of asbestos in soil samples using Polarised Light Microscopy and Dispersion Staining Techniques. Minimum 500mL soil sample was analysed as recommended by "National Environment Protection (Assessment of site contamination) Measure, Schedule B1 and "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" with a reporting limit of 0.1g/kg (0.01% w/w) as per Australian Standard AS4964-2004. Results reported denoted with * are outside our scope of NATA accreditation. **NOTE** #1 Total Asbestos g/kg was analysed and reported as per Australian Standard AS4964 (This is the sum of ACM >7mm, <7mm and FA/AF) **NOTE** #2 The screening level of 0.001% w/w asbestos in soil for FA and AF only applies where the FA and AF are able to be quantified by gravimetric procedures. This screening level is not applicable to free fibres. Estimation = Estimated asbestos weight Results reported with "--" is equivalent to no visible asbestos identified using Polarised Light microscopy and Dispersion Staining Techniques.
Ext-054	Analysed by MPL Envirolab
Inorg-001	pH - Measured using pH meter and electrode in accordance with APHA latest edition, 4500-H+. Please note that the results for water analyses are indicative only, as analysis outside of the APHA storage times.
Inorg-008	Moisture content determined by heating at 105+/-5 °C for a minimum of 12 hours.
Inorg-019	Suspended Solids - determined gravimetricially by filtration of the sample. The samples are dried at 104+/-5°C.
Inorg-055	Nitrate - determined colourimetrically. Waters samples are filtered on receipt prior to analysis. Soils are analysed following a water extraction.
Inorg-055	Nitrite - determined colourimetrically based on APHA latest edition NO2- B. Waters samples are filtered on receipt prior to analysis. Soils are analysed following a water extraction.
Inorg-057	Ammonia - determined colourimetrically, based on APHA latest edition 4500-NH3 F. Waters samples are filtered on receipt prior to analysis. Soils are analysed following a KCl extraction.
Metals-020	Determination of various metals by ICP-AES.
Metals-021	Determination of Mercury by Cold Vapour AAS.
Metals-022	Determination of various metals by ICP-MS.

Method ID	Methodology Summary
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis. Note, the Total +ve TRH PQL is reflective of the lowest individual PQL and is therefore "Total +ve TRH" is simply a sum of the positive individual TRH fractions (>C10-C40).
Org-021	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD.
Org-021	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD. Note, the Total +ve PCBs PQL is reflective of the lowest individual PQL and is therefore" Total +ve PCBs" is simply a sum of the positive individual PCBs.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS.
Org-022/025	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-MS/GC-MSMS. Note, the Total +ve reported DDD+DDE+DDT PQL is reflective of the lowest individual PQL and is therefore simply a sum of the positive individually report DDD+DDE+DDT.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS and/or GC-MS/MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013. For soil results:- 1. 'EQ PQL'values are assuming all contributing PAHs reported as <PQL are actually at the PQL. This is the most conservative approach and can give false positive TEQs given that PAHs that contribute to the TEQ calculation may not be present. 2. 'EQ zero'values are assuming all contributing PAHs reported as <PQL are zero. This is the least conservative approach and is more susceptible to false negative TEQs when PAHs that contribute to the TEQ calculation are present but below PQL. 3. 'EQ half PQL'values are assuming all contributing PAHs reported as <PQL are half the stipulated PQL. Hence a mid-point between the most and least conservative approaches above. Note, the Total +ve PAHs PQL is reflective of the lowest individual PQL and is therefore "Total +ve PAHs" is simply a sum of the positive individual PAHs.
Org-023	Water samples are analysed directly by purge and trap GC-MS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.

Method ID	Methodology Summary
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.

QUALITY CONTROL: VOCs in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-28	270211-1
Date extracted	-			31/05/2021	1	31/05/2021	31/05/2021		31/05/2021	31/05/2021
Date analysed	-			31/05/2021	1	31/05/2021	31/05/2021		31/05/2021	31/05/2021
Dichlorodifluoromethane	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Chloromethane	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Vinyl Chloride	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Bromomethane	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Chloroethane	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Trichlorofluoromethane	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
1,1-Dichloroethene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
trans-1,2-dichloroethene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
1,1-dichloroethane	mg/kg	1	Org-023	<1	1	<1	<1	0	93	97
cis-1,2-dichloroethene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
bromochloromethane	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
chloroform	mg/kg	1	Org-023	<1	1	<1	<1	0	91	95
2,2-dichloropropane	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
1,2-dichloroethane	mg/kg	1	Org-023	<1	1	<1	<1	0	100	105
1,1,1-trichloroethane	mg/kg	1	Org-023	<1	1	<1	<1	0	89	92
1,1-dichloropropene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Cyclohexane	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
carbon tetrachloride	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Benzene	mg/kg	0.2	Org-023	<0.2	1	<0.2	<0.2	0	[NT]	[NT]
dibromomethane	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
1,2-dichloropropane	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
trichloroethene	mg/kg	1	Org-023	<1	1	<1	<1	0	94	98
bromodichloromethane	mg/kg	1	Org-023	<1	1	<1	<1	0	87	91
trans-1,3-dichloropropene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
cis-1,3-dichloropropene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
1,1,2-trichloroethane	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Toluene	mg/kg	0.5	Org-023	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
1,3-dichloropropane	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
dibromochloromethane	mg/kg	1	Org-023	<1	1	<1	<1	0	98	102
1,2-dibromoethane	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
tetrachloroethene	mg/kg	1	Org-023	<1	1	<1	<1	0	99	104
1,1,1,2-tetrachloroethane	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
chlorobenzene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
bromoform	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-023	<2	1	<2	<2	0	[NT]	[NT]
styrene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
1,1,2,2-tetrachloroethane	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]

QUALITY CONTROL: VOCs in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-28	270211-1
o-Xylene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
1,2,3-trichloropropane	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
isopropylbenzene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
bromobenzene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
n-propyl benzene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
2-chlorotoluene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
4-chlorotoluene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
1,3,5-trimethyl benzene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
tert-butyl benzene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
1,2,4-trimethyl benzene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
1,3-dichlorobenzene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
sec-butyl benzene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
1,4-dichlorobenzene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
4-isopropyl toluene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
1,2-dichlorobenzene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
n-butyl benzene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
1,2-dibromo-3-chloropropane	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
1,2,4-trichlorobenzene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
hexachlorobutadiene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
1,2,3-trichlorobenzene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Surrogate Dibromofluorometha	%		Org-023	83	1	101	103	2	84	102
Surrogate aaa-Trifluorotoluene	%		Org-023	107	1	125	128	2	122	118
Surrogate Toluene-d_8	%		Org-023	78	1	103	103	0	84	101
Surrogate 4-Bromofluorobenzene	%		Org-023	103	1	104	107	3	108	105

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-28	270211-1
Date extracted	-			31/05/2021	1	31/05/2021	31/05/2021		31/05/2021	31/05/2021
Date analysed	-			31/05/2021	1	31/05/2021	31/05/2021		31/05/2021	31/05/2021
TRH C_6 - C_9	mg/kg	25	Org-023	<25	1	<25	<25	0	109	104
TRH C_6 - C_{10}	mg/kg	25	Org-023	<25	1	<25	<25	0	109	104
Benzene	mg/kg	0.2	Org-023	<0.2	1	<0.2	<0.2	0	109	126
Toluene	mg/kg	0.5	Org-023	<0.5	1	<0.5	<0.5	0	95	101
Ethylbenzene	mg/kg	1	Org-023	<1	1	<1	<1	0	112	97
m+p-xylene	mg/kg	2	Org-023	<2	1	<2	<2	0	115	99
o-Xylene	mg/kg	1	Org-023	<1	1	<1	<1	0	112	96
naphthalene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	107	1	125	128	2	122	118

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-27	[NT]
Date extracted	-			31/05/2021	1	31/05/2021	31/05/2021		31/05/2021	[NT]
Date analysed	-			31/05/2021	1	01/06/2021	01/06/2021		31/05/2021	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	<50	1	<50	<50	0	128	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	<100	1	<100	<100	0	105	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	<100	1	<100	<100	0	69	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	<50	1	<50	<50	0	128	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	<100	1	<100	<100	0	105	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	<100	1	<100	<100	0	69	[NT]
Surrogate o-Terphenyl	%		Org-020	82	1	95	86	10	129	[NT]

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-27	[NT]
Date extracted	-			31/05/2021	1	31/05/2021	31/05/2021		31/05/2021	[NT]
Date analysed	-			01/06/2021	1	01/06/2021	01/06/2021		01/06/2021	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	92	[NT]
Acenaphthylene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	79	[NT]
Fluorene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	86	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	103	[NT]
Anthracene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	96	[NT]
Pyrene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	102	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	76	[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	<0.2	1	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	<0.05	1	<0.05	<0.05	0	83	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	103	1	117	112	4	114	[NT]

QUALITY CONTROL: Organochlorine Pesticides in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-27	[NT]
Date extracted	-			31/05/2021	1	31/05/2021	31/05/2021		31/05/2021	[NT]
Date analysed	-			01/06/2021	1	01/06/2021	01/06/2021		01/06/2021	[NT]
alpha-BHC	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	94	[NT]
HCB	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	85	[NT]
gamma-BHC	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	111	[NT]
delta-BHC	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	106	[NT]
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	114	[NT]
gamma-Chlordane	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	99	[NT]
Dieldrin	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	113	[NT]
Endrin	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	100	[NT]
Endosulfan II	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	95	[NT]
Endrin Aldehyde	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	122	[NT]
Methoxychlor	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	80	1	93	77	19	85	[NT]

QUALITY CONTROL: PCBs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-27	[NT]
Date extracted	-			31/05/2021	1	31/05/2021	31/05/2021		31/05/2021	[NT]
Date analysed	-			01/06/2021	1	01/06/2021	01/06/2021		01/06/2021	[NT]
Aroclor 1016	mg/kg	0.1	Org-021	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021	<0.1	1	<0.1	<0.1	0	120	[NT]
Aroclor 1260	mg/kg	0.1	Org-021	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-021	80	1	93	77	19	85	[NT]

QUALITY CONTROL: Acid Extractable metals in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date prepared	-			02/06/2021	1	02/06/2021	02/06/2021		02/06/2021	[NT]
Date analysed	-			02/06/2021	1	02/06/2021	02/06/2021		02/06/2021	[NT]
Arsenic	mg/kg	4	Metals-020	<4	1	6	6	0	102	[NT]
Cadmium	mg/kg	0.4	Metals-020	<0.4	1	<0.4	<0.4	0	107	[NT]
Chromium	mg/kg	1	Metals-020	<1	1	18	17	6	108	[NT]
Copper	mg/kg	1	Metals-020	<1	1	16	14	13	101	[NT]
Lead	mg/kg	1	Metals-020	<1	1	21	19	10	106	[NT]
Mercury	mg/kg	0.1	Metals-021	<0.1	1	0.1	<0.1	0	110	[NT]
Nickel	mg/kg	1	Metals-020	<1	1	8	8	0	107	[NT]
Zinc	mg/kg	1	Metals-020	<1	1	19	18	5	107	[NT]

QUALITY CONTROL: Phenoxy Acid Herbicides in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	270211-1
Date extracted	-			02/06/2021	1	02/06/2021	02/06/2021		02/06/2021	02/06/2021
Date analysed	-			03/06/2021	1	03/06/2021	03/06/2021		03/06/2021	03/06/2021
Clopyralid	mg/kg	0.5	Ext-054	<0.5	1	<0.5	<0.5	0	92	104
3,5-Dichlorobenzoic acid	mg/kg	0.5	Ext-054	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
o-chlorophenoxy acetic acid	mg/kg	0.5	Ext-054	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
4-CPA	mg/kg	0.5	Ext-054	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
Dicamba	mg/kg	0.5	Ext-054	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
MCPP	mg/kg	0.5	Ext-054	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
MCPA	mg/kg	0.5	Ext-054	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
Dichlorprop	mg/kg	0.5	Ext-054	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
2,4-D	mg/kg	0.5	Ext-054	<0.5	1	<0.5	<0.5	0	72	86
Bromoxynil	mg/kg	0.5	Ext-054	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
Triclopyr	mg/kg	0.5	Ext-054	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
2,4,5-TP	mg/kg	0.5	Ext-054	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
2,4,5-T	mg/kg	0.5	Ext-054	<0.5	1	<0.5	<0.5	0	80	98
MCPB	mg/kg	0.5	Ext-054	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
Dinoseb	mg/kg	1	Ext-054	<1	1	<1	<1	0	[NT]	[NT]
2,4-DB	mg/kg	0.5	Ext-054	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
Ioxynil	mg/kg	1	Ext-054	<1	1	<1	<1	0	[NT]	[NT]
Picloram	mg/kg	0.5	Ext-054	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
DCPA (Chlorthal) Diacid	mg/kg	0.5	Ext-054	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
Acifluorfen	mg/kg	2	Ext-054	<2	1	<2	<2	0	[NT]	[NT]
2,4,6-T	mg/kg	0.5	Ext-054	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
2,6-D	mg/kg	0.5	Ext-054	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
Surrogate 2.4- DCPA	%		Ext-054	100	1	100	100	0	98	100

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
Date extracted	-			31/05/2021	[NT]	[NT]	[NT]	[NT]	31/05/2021	[NT]
Date analysed	-			31/05/2021	[NT]	[NT]	[NT]	[NT]	31/05/2021	[NT]
TRH C_6 - C_9	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	86	[NT]
TRH C_6 - C_{10}	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	86	[NT]
Benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	89	[NT]
Toluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	87	[NT]
Ethylbenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	82	[NT]
m+p-xylene	µg/L	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	87	[NT]
o-xylene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	85	[NT]
Naphthalene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	101	[NT]	[NT]	[NT]	[NT]	92	[NT]
Surrogate toluene-d8	%		Org-023	105	[NT]	[NT]	[NT]	[NT]	95	[NT]
Surrogate 4-BFB	%		Org-023	97	[NT]	[NT]	[NT]	[NT]	95	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	270211-4
Date extracted	-			01/06/2021	4	01/06/2021	01/06/2021		01/06/2021	01/06/2021
Date analysed	-			01/06/2021	4	01/06/2021	01/06/2021		01/06/2021	01/06/2021
TRH C_{10} - C_{14}	µg/L	50	Org-020	<50	4	<50	<50	0	126	131
TRH C_{15} - C_{28}	µg/L	100	Org-020	<100	4	<100	<100	0	119	120
TRH C_{29} - C_{36}	µg/L	100	Org-020	<100	4	<100	<100	0	96	82
TRH >C_{10} - C_{16}	µg/L	50	Org-020	<50	4	<50	<50	0	126	131
TRH >C_{16} - C_{34}	µg/L	100	Org-020	<100	4	<100	<100	0	119	120
TRH >C_{34} - C_{40}	µg/L	100	Org-020	<100	4	<100	<100	0	96	82
Surrogate o-Terphenyl	%		Org-020	62	4	61	66	8	72	80

QUALITY CONTROL: PAHs in Water - Low Level						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			01/06/2021	4	01/06/2021	01/06/2021		01/06/2021	[NT]
Date analysed	-			01/06/2021	4	01/06/2021	01/06/2021		01/06/2021	[NT]
Naphthalene	µg/L	0.2	Org-022/025	<0.2	4	<0.2	<0.2	0	93	[NT]
Acenaphthylene	µg/L	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	µg/L	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	83	[NT]
Fluorene	µg/L	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	89	[NT]
Phenanthrene	µg/L	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	108	[NT]
Anthracene	µg/L	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	µg/L	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	90	[NT]
Pyrene	µg/L	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	93	[NT]
Benzo(a)anthracene	µg/L	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	[NT]	[NT]
Chrysene	µg/L	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	80	[NT]
Benzo(b,j+k)fluoranthene	µg/L	0.2	Org-022/025	<0.2	4	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	µg/L	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	92	[NT]
Indeno(1,2,3-c,d)pyrene	µg/L	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	µg/L	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	µg/L	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	107	4	99	99	0	99	[NT]

QUALITY CONTROL: HM in water - total						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	[NT]
Date prepared	-			01/06/2021	[NT]	[NT]	[NT]	[NT]	01/06/2021	[NT]
Date analysed	-			01/06/2021	[NT]	[NT]	[NT]	[NT]	01/06/2021	[NT]
Arsenic-Total	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	101	[NT]
Cadmium-Total	µg/L	0.1	Metals-022	<0.1	[NT]	[NT]	[NT]	[NT]	101	[NT]
Chromium-Total	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	100	[NT]
Copper-Total	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	99	[NT]
Lead-Total	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	102	[NT]
Mercury-Total	µg/L	0.05	Metals-021	<0.05	[NT]	[NT]	[NT]	[NT]	116	[NT]
Nickel-Total	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	102	[NT]
Zinc-Total	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	115	[NT]

QUALITY CONTROL: Miscellaneous Inorganics					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date prepared	-			01/06/2021	[NT]	[NT]	[NT]	[NT]	01/06/2021	[NT]
Date analysed	-			01/06/2021	[NT]	[NT]	[NT]	[NT]	01/06/2021	[NT]
pH	pH Units		Inorg-001	[NT]	[NT]	[NT]	[NT]	[NT]	100	[NT]
Total Suspended Solids	mg/L	5	Inorg-019	<5	[NT]	[NT]	[NT]	[NT]	89	[NT]
Nitrate as N in water	mg/L	0.005	Inorg-055	<0.005	[NT]	[NT]	[NT]	[NT]	110	[NT]
Nitrite as N in water	mg/L	0.005	Inorg-055	<0.005	[NT]	[NT]	[NT]	[NT]	102	[NT]
Ammonia as N in water	mg/L	0.005	Inorg-057	<0.005	[NT]	[NT]	[NT]	[NT]	104	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from “2018 TLVs and BEIs”, as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Report Comments

Herbicides analysed by Envirolab Services Melbourne. Report No. 26171

Asbestos-ID in soil: NEPM
This report is consistent with the reporting recommendations in the National Environment Protection (Assessment of Site Contamination) Measure, Schedule B1, May 2013. This is reported outside our scope of NATA accreditation.

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