Trustee for Huntingwood Property Trust

Detailed Site Investigation

Huntingwood East
Augusta Street, Blacktown NSW

22 August 2023

62742/144011 (Rev 1)

JBS&G Australia Pty Ltd

www.jbsg.com.au

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Abbreviations

Term	Definition
ACM	Asbestos Containing Materials
AEC	Areas of Environmental Concern
AF/FA	Asbestos Fines/Fibrous Asbestos
AMP	Asbestos Management Plan
ASS	Acid Sulfate Soils
BGS	Below Ground Surface
BTEX	Benzene, Toluene, Ethylbenzene and Xylenes
B(a)P	Benzo(a)pyrene
CLM Act	Contaminated Land Management Act
COC	Chain of Custody
COPC	Contaminants of Potential Concern
CSM	Conceptual Site Model
DO	Dissolved Oxygen
DP	Development Plan
DQI	Data Quality Indicators
DQO	Data Quality Objectives
DSI	Detailed Site Investigation
EC	Electrical Conductivity
EDD	Environmental Due Diligence
Eh	Redox Potential
EIL	Ecological Investigation Levels
EPA	NSW Environment Protection Authority
ESLs	Ecological Screening Levels
Ha	Hectare
HILs	Health Investigation Levels
HSLs	Health Screening Levels
JBS&G	JBS&G Australia Pty Ltd
LAA	Licensed Asbestos Assessor
LEP	Local Environmental Plan
LOR	Limit of Reporting
NATA	National Accreditation Testing Authority
NEPC	National Environment Protection Council
NEPM	National Environment Protection Measure
OCP	Organochlorine Pesticides
OPP	Organophosphate Pesticides
PAH	Polycyclic Aromatic Hydrocarbons
PCB	Polychlorinated Biphenyls
PID	Photoionisation Detector
POEO Act	Protection of Environment Operations Act
PSI	Preliminary Site Investigation
QA/QC	Quality Assurance/Quality Control
RAP	Remedial Action Plan
RPD	Relative Percentage Difference
SAS	Site Audit Statement
SAQP	Sampling Analytical and Quality Plan
TRH	Total Recoverable Hydrocarbons
UCL	Upper Confidence Limit
VOC	Volatile Organic Compounds

Executive Summary

JBS&G Australia Pty Ltd (JBS&G) has been commissioned by The Trustee for Huntingwood Property Trust to prepare this report in accordance with the technical requirements of the Secretary's Environmental Assessment Requirements (SEARs), and in support of the State Significant Development Application (SSD- 36138263) for the proposed Augusta Street warehouse and distribution centre at Augusta Street, Blacktown.

The site is located at Augusta Street, Blacktown, within the Blacktown local government area (LGA). The site comprises multiple parcels of land and is legally described as:

- Lot 1 DP835264
- Lots 218-219 DP457024
- Lot 2151 DP135859
- Lot 2 DP516449
- Lot 163-164, 168-188 and 216 DP8716
- Lot 1 DP119616
- Lots 4-6 DP226294
- Lots 50-52 DP1144623
- Lot 7 DP803359
- Lots 6-10 DP801210
- Lot 4 DP585492
- Lot 4 DP5853442
- Lot 2 DP1263824.

The location and current layout of the site are shown in **Figures 1** and **2,** respectively.

The central and eastern portion of the site comprises a vacant land parcel and a Telstra exchange. The western portion of the site comprises abandoned residential houses, truck depot, car scrap yard/mechanic and storage yard. The site is situated to the north of the M4 Western Motorway, to the west of Prospect Highway and south of the Great Western Highway, with a total area of approximately 26.6 hectares (ha).

Previous investigation works have been undertaken as summarised in **Section 4**. A Remedial Action Plan (RAP) (JBS&G 2021a[1]) was subsequently prepared to manage the identified impacts in order to make the central and eastern portion of the site suitable for the proposed commercial / industrial land-use.

Following completion of the site investigation works on the central and eastern portion of the site, the client acquired 3 and 14 Augusta St and 426 Flushcombe Rd, which comprise the western portion of the site. As only limited investigation works (DP 2021[2]) have been completed on the western portion, further assessment was required to allow preparation of a Detailed Site Investigation (DSI) for the entire site.

[1] *Remedial Action Plan*, Huntingwood East, Augusta Street Blacktown NSW, JBS& Australia Pty Ltd, 16 December 2021 (JBS&G 2021a).

[2] *Pre-Purchase Due Diligence Preliminary Contamination Assessment, Proposed Industrial Development, 3 & 14 Augusta Street and 426 Flushcombe Road, Blacktown,* Douglas Partners Pty Ltd, 30 November 2021 (DP 2021)

The objective of the DSI is to undertake additional site investigation works in the western portion of the site, review available site contamination data for the entire site and complete an assessment of site conditions in relation to future commercial/industrial land use, including the identification of site management/remediation requirements to support development of the site.

The scope of works completed for this assessment comprised a desktop review of site history and background information, to identify potential areas of environmental concern (AECs) and associated contaminants of potential concern (COPCs). A review of available contamination assessment reports as summarised in **Section 4**. An inspection across accessible parts of the site to confirm the desktop findings and identify the presence of additional AECs. Development and documentation of a conceptual site model (CSM) based on the available information. Additional soil, groundwater and vapour investigation works in the western portion of the site including. Preparation of this report in general accordance with relevant Environmental Protection Authority (EPA) guidelines.

Based on the findings of this assessment and subject to the limitations in **Section 14**, the following conclusions have been made:

- Bonded ACM impacts were identified at Stockpiles 2 (TP82, SPC), 3 (SP83), 6 (TP86), 8 (TP88), 15 (SP93), 19 (TP97), 31 (SP104) and SPA (SPA1 and SPA2), comprising a total volume of approximately 2,000 m^3 (based on historical assessments).
- Bonded ACM impacts were identified on the ground surface in the western portion of the site (Lot 183 DP 8716) and surface locations SS1, SS2 and SS4 and in fill material at test pit locations TP14, TP22, TP63, TP111, JACM1 and JACM2 associated with former buildings or former stockpiled material.
- Friable asbestos exceeding health criteria was reported within DP_TP12 at 1.0-1.1, DP_TP20 at 0.1-0.15 m depth, surface sample DP_SS4, and May 2022 sample AQ SB02-0-1.0, all within the western portion of the site.
- Friable and bonded asbestos was reported within stockpile 5 (also known as TP85) which has an approximate volume of 260 m^3. The stockpile has significant quantities of building and demolition wastes (including ACM).
- Trace chrysotile asbestos was reported in DP (2021) sample locations BH24_0.1-0.2 and TP17_0.1-0.2, <0.001 %w/w.
- It is noted that additional ACM is likely to be present on the ground surfaces / stockpiled soils at the site, given that long grass cover / vegetation precluded a thorough inspection of the ground surface during investigation activities. It is recommended that a thorough ground surface inspection be completed during future vegetation removal in order to avoid cross-contamination of asbestos / non-asbestos impacted soils in subsequent earthworks. Any materials identified to contain building and demolition wastes should be isolated for further investigation given the inherent higher risk of identifying asbestos within the materials.
- The asbestos impacted stockpiles and hotspots will require to be contained on-site under a marker and capping layer (that comprises 0.5 m of clean capping material and/or hardstand) and managed on-site through the preparation/implementation of an Asbestos Register and Asbestos Management Plan (AMP) to address obligations under the Work Health and Safety Act and Regulations. Alternatively, the impacted materials can be disposed off-site to a licensed facility as Special (asbestos) Waste as a result of the reported contaminant levels herein.
- TRH C_{10}-C_{16} (2,900 mg/kg) and TRH C_{16}-C_{34} (7,700 mg/kg) at surface sample location SS6 exceeds management limits (1,000 mg/kg and 3,500 mg/kg, respectively). TRH F2 (180 mg/kg) at surface sample SB21-0.1-0.2 exceeds ecological criteria (180 mg/kg) and is

located within stained and odorous soils in the vicinity of 200L drums. These locations will require remediation and/or management.

- Zinc and PAH (from previous investigations) within both stockpile and in-situ soil samples are not considered to pose an unacceptable risk under the proposed development scheme should the materials be retained in areas of low ecological significance (i.e. under future hardstand) or where imported soils are used for landscaped areas.
- Groundwater on the site reported slightly elevated metal levels, however the concentrations are considered to reflect urban background conditions, given that there was no significant change of these constituents between up and down gradient monitoring wells and no significant source material identified within site soils. A slightly elevated level of ammonia was considered to be reflective of the site historically within an agricultural area and was not significant enough to require remediation and/or further investigation.
- Soil-vapour was found to be generally absent of detectable concentrations of TRHs and/or VOCs and below the adopted criteria. Whilst sources of potential volatile contaminant impact were identified at the site (USTs), direct sampling of soil-vapour immediately below existing concrete slabs indicated that sub-surface gas was free from volatile constituents at concentrations which represented potential risks to future receptors.
- It is considered that the site is suitable for the proposed commercial/industrial land use, subject to appropriate remediation and/or management of the identified soil impacts.

It is recommended that an updated RAP be developed in accordance with the relevant regulatory requirements to address the identified contamination issues to render the site suitable for the proposed land uses as well as removal of the USTs and associated petroleum infrastructure (as per the UPSS Regulations). The remediation works are deemed Category 2, from review of the site location and proposed activities. An Asbestos Register and Asbestos Management Plan should also be developed to manage potential asbestos risks consistent with WHS Regulations until such time as the risks are removed.

1. Introduction

1.1 Background

JBS&G Australia Pty Ltd (JBS&G) has been commissioned by The Trustee for Huntingwood Property Trust to prepare this report in accordance with the technical requirements of the Secretary's Environmental Assessment Requirements (SEARs), and in support of the State Significant Development Application (SSD- 36138263) for the proposed Augusta Street warehouse and distribution centre at Augusta Street, Blacktown.

The site is located at Augusta Street, Blacktown, within the Blacktown local government area (LGA). The site comprises multiple parcels of land and is legally described as:

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- Lots 4-6 DP226294
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- Lot 7 DP803359
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- Lot 4 DP585492
- Lot 4 DP5853442
- Lot 2 DP1263824.

The location and current layout of the site are shown in **Figures 1** and **2,** respectively.

The central and eastern portion of the site comprises a vacant land parcel and a Telstra exchange. The western portion of the site comprises abandoned residential houses, truck depot, car scrap yard/mechanic and storage yard. The site is situated to the north of the M4 Western Motorway, to the west of Prospect Highway and south of the Great Western Highway, with a total area of approximately 26.6 hectares (ha).

JBS&G (formerly trading as JBS Environmental Pty Ltd) previously conducted an Environmental Site Assessment (ESA) (JBS 2010a[3]) at the central and eastern portion of the site in 2010. JBS (2010a) reported that the site was historically used for agricultural purposes, in which a number of residential dwellings were formerly present. In addition, stockpiled soils were reported to have been dumped at the site.

Additional site investigations completed by WSP (2020b[4]) reported that historically hydrocarbon impacted stockpiled soils (identified by prior assessments) no longer require management. In

[3] *Stage 2 Environmental Site Assessment*, Augusta Street Blacktown NSW, 'Huntingwood East', JBS Environmental Pty Ltd, April 2010 (JBS 2010a).

[4] *Additional Site Investigation*, Augusta Street, Blacktown, WSP August 2020 (WSP 2020b).

addition, there were no impacts within site groundwater that required management / remediation in order to make the site suitable for the proposed use.

A Remedial Action Plan (RAP) (JBS&G 2021a[5]) was subsequently prepared to manage the identified impacts in order to make the central and eastern portion of the site suitable for the proposed commercial / industrial land-use.

JBS&G (2022[6]) undertook a further contamination assessment in the central and eastern portions of the site in October 2021, including desktop review, site inspection and limited soil sampling from 14 insitu soil locations and 11 discrete stockpiles.

Following completion of the site investigation works on the central and eastern portions of the site, the client acquired 3 and 14 Augusta St and 426 Flushcombe Rd, which comprise the western portion of the site. As only limited investigation works (DP 2021[7]) have been completed on the western portion further assessment was required to allow preparation of a Detailed Site Investigation (DSI) for the entire site.

This report comprises a DSI for the entire site and has been completed in general accordance with National Environmental Protection Council (NEPC 2013[8]), Environmental Protection Authority (EPA 2017[9]), EPA (2020[10]) and SEPP (Resilience and Hazards[11]) guidelines. The report has relied upon previous investigation data as available in historical reports as supplemented by additional sampling and analysis undertaken here and to address data gaps in the previous works.

1.2 Objectives

The objective of the DSI is to undertake additional site investigation works in the western portion of the site, review available site contamination data for the entire site and complete an assessment of site conditions in relation to future commercial/industrial land use, including the identification of site management/remediation requirements to support development of the site.

The DSI has been required to be specific to the entire extent of the site.

1.3 Scope of Works

The scope of works completed for this assessment comprised:

- A desktop review of site history and background information, to identify potential areas of environmental concern (AECs) and associated contaminants of potential concern (COPCs);
    - Published regional topographic, geological, hydrological, and hydrogeological information;
    - Current and historical aerial imagery for the site and nearby surrounds obtained from the NSW Spatial Services;
    - Readily available government and Blacktown City Council (Council) records, including Section 10.7 (2) and (5) planning certificates;

[5] *Remedial Action Plan*, Huntingwood East, Augusta Street Blacktown NSW, JBS& Australia Pty Ltd, 16 December 2021 (JBS&G 2021a).
[6] *Pre Purchase Contamination Assessment and Review – Augusta Street, Blacktown NSW,* 1 April 2022, JBS&G Australia Pty Ltd (JBS&G 2022)
[7] *Pre-Purchase Due Diligence Preliminary Contamination Assessment, Proposed Industrial Development, 3 & 14 Augusta Street and 426 Flushcombe Road, Blacktown,* Douglas Partners Pty Ltd, 30 November 2021 (DP 2021)
[8] *National Environment Protection (Assessment of Site Contamination) Measure 1999 (as amended 2013).* National Environment Protection Council (NEPC 2013)
[9] *Contaminated Land Management: Guidelines for the NSW Site Auditor Scheme (3rd Edition*). NSW Environment Protection Authority 2017 (EPA 2017)
[10] *Guidelines for Consultants Reporting on Contaminated Land.* NSW EPA, 2020 (EPA 2020)
[11] *State Environment Planning Policy – Resilience and Hazards 2021*

- Review of current and historical certificate of title ownership records to gain an understanding of potential land use prior to historical aerial photographic records;
- NSW database records of environmental protection licenses and contaminated land records held by the NSW Environment Protection Authority (EPA) for the site and surrounds as relevant to identify nearby potential sources of off-site contaminant migration; and
- Searchable heritage database records held by the Department of Planning and Environment and Council for the site and surrounds.

- A review of available contamination assessment reports as summarised in **Section 4**;
- An inspection across accessible parts of the site to confirm the desktop findings and identify the presence of additional AECs;
- Development and documentation of a conceptual site model (CSM) based on the available information;
- Additional soil, groundwater and vapour investigation works in the western portion of the site including;
  - A total of 35 soil investigation locations; including ten testpits (TP01 to TP10) and 25 soil bores (SB01 to SB21 and MW01 to MW04) to characterise site soils within accessible areas for the COPCs;
  - The installation four groundwater monitoring wells (MW01 to MW04, converted from soil bores) and sampling of nine new and existing groundwater monitoring wells (MW01 to MW04 and MWA to MWE);
  - The installation and subsequent sampling of seven sub-slab soil vapour pins (SV1 to SV7);
  - Laboratory analysis program for representative samples of each media for COPCs, with subsequent data evaluation against NSW EPA endorsed guideline values; and
- Preparation of this report in general accordance with relevant Environmental Protection Authority (EPA) guidelines.

2. Site Condition and Surrounding Environment

2.1 Site Identification

The location and current layout of the site is shown in **Figures 1** and **2** respectively. The site details are summarised in **Table 2.1.** The site has been proposed to be consolidated into three lots, as shown in **Appendix M**.

Table 2.1: Summary of Site Details

Site Legal Identifier	Lot 1 DP 835264, Lot 163, Lot 164, Lot 168 to Lot 188, Lot 216 DP 8716, Lot 6 to Lot 10 DP 801210, Lot 218 and Lot 219 DP 457024, Lot 2 DP 516449, Lot 2151 DP 135859, Lot 4 DP 585492, Lot 4 DP 583442, Lot 1 DP 119616, Lot 2 DP 1263824, Lot 4 to Lot 6 DP 226294, Lot 50 to Lot 52 DP1144623 and Lot 7 DP 803359, see **Figure 2**
Site Address	Augusta Street, Blacktown NSW
Site Area	26.6 ha
Local Government Authority	Blacktown City Council
Approximate Coordinates (GDA 94 Map Grid of Australia (MGA) 56)	E: 306500 N: 6257710
Current Zoning (Blacktown Local Environmental Plan Amendment (Western Sydney Employment Area) 2013)	IN1 – General Industrial
Previous Land Uses	Previous site uses were generally rural/residential rural including grazing/market gardens and poultry operations and some commercial properties including truck depot and car scrap yard/mechanic.
Current Land Uses	The majority of the site is vacant, a Telstra exchange in the centre of the site and several operational lots in the western portion of the site including mechanic, truck depot and storage yard.

2.2 Site Description

The central and eastern portion of the site was inspected on 26 August 2021 and the western portion was inspected on 9 May 2022, by a JBS&G Senior Environmental Consultant to assess site conditions with regards to previous reports, and to identify any potentially contaminating conditions and/or activities not previously identified, with key observations documented below. Main site features are visible on **Figures 4A** to **4D**, with a photographic log provided in **Appendix B**.

At the time of the inspections the central and eastern portion of the site was found to be vacant, with the site surface consisting of undulating land covered with long grass (**Photographs 1** and **2**). A Telstra exchange was located in Lot 164 DP 8716. The dense grass cover prevented a detailed inspection of the site surface. Additionally, the overgrown grass and saturated areas restricted access to portions of the site. Where the site could not be accessed in person this was supplemented with a desktop review of aerial photographs accessed from NearMap as summarised in **Section 3.1** and provided as **Appendix C**.

The western portion of the site comprised several operational lots including a mechanic, truck depot and storage yard, as well as four abandoned residential houses, various stockpiles, USTs (**Photograph 13**), ASTs (**Photograph 21**) and asbestos fragments (**Photograph 19**) across the ground surface.

Access to the site is gained from Augusta Street and Flushcombe St. A small stream (Blacktown Creek) is present through the central portion of the site running north to south (**Photograph 4**). Electrical transmissions lines are present across the southern portion of the site.

The following was observed within the Central Western Assessment Area (see **Figure 4A**):

- Dense vegetation is present.

- Backfilled trenches were observed, with small stockpiles on the eastern side of the trench (**Photograph 5**). Potential ACM was observed in situ in this area (**Photograph 6**). South of the trench was sparse building rubble (concrete and brick) and disturbed surface soils (in the location of a former structure) (**Photograph 7**). An area of built-up land was observed to the west of the trenches.
- Trenches were also observed in the south-eastern portion of the area with mounded soil adjacent to the trenches.
- The northern portion of this area was mounded higher than the southern portion of the area and a stockpile was observed in the northern central portion of the area.

The following was observed within the Eastern Central Assessment Area (See **Figure 4B**):

- A Telstra exchange within Lot 164 DP 8716.
- A stockpile of tyres, and two small stockpiles (grassed covered but assumed to be soil) were observed (**Photograph 8**).
- Trenches were also observed in the central southern portion of the area with mounded soil adjacent to the trenches (**Photograph 9**).
- Built up land was observed in the north eastern portion of the area (**Photograph 10**).

The following was observed within the Eastern Assessment Area (See **Figure 4C**):

- Built up land and a small stockpile was observed in the north portion of the area (**Photograph 11**).
- Two potential ACM fragments were observed on the dirt access road in the central portion of the area (**Photograph 12**).
- Discarded concrete was observed adjacent to the dirt access road.

The following was observed with the Western Assessment Area (See **Figure 4D**):

- An operational mechanic workshop with disused USTs, 200 L diesel storage drums, and scrap car parts. Surface staining was observed in the vicinity of the 200 L drums and leaking car parts (**Photographs 15** and **16**).
- The eastern part of Lot 1 DP 835264 contains a large stockpile/mound.
- The southern part of this area contained four abandoned houses.
- An operational truck depot was present in the southwestern portion of the site. An AST with bowsers was present on the western boundary. A storage container along the southern boundary contained IBCs.
- Storage yard was present in the southeastern portion of this area. An AST and bowser was present in this portion.

Discoloured areas apparent on aerial imagery were noted to be blackberry bushes during the site inspection (**Photograph 2**).

Not all stockpiles referenced in the historical reports were able to be inspected and / or identified due to thick/long grass cover and access limitations as discussed above.

2.3 Surrounding Land Use

The current land uses of adjacent properties or properties across adjacent roadways are summarised below.

- North – The Great Western Highway, then low density residential properties;
- East – The Prospect Highway, beyond which is St Bartholomew's church and cemetery;
- South – The Western Motorway (M4) then rural residential/drive-in theatre/Raging Waters Sydney (waterpark); and
- West – Flushcombe Road and commercial/industrial units.

2.4 Topography

The topography of the site according to the Prospect Topographic and Orthophoto Map (sheet 9030-2N third edition) ranges from 68 m Australian Height Datum (AHD) to 90 m AHD. The land is undulating, with slopes of approximately 5 to 15 degrees running from the east towards Blacktown Creek in the central portion of the site. An undulating slope of 5 to 10 degrees also runs from the central portion of the site towards a small drainage channel on the western boundary of the site.

2.5 Geology, Hydrology and Hydrogeology

A review of the ESPADE 2.2 tool (OEH 2021[12]) indicates that the site exists on Blacktown Residual. Relevant details of the soil landscapes are provided following:

- **Geology:** Wianamatta Group – Ashfield Shale consisting of laminite and drak grey siltstone, Bringelly Shale which consists of shale with occasional calcareous claystone, laminite and infrequent coal, and Minchinbury Sandstone consisting of fine to medium-grained quartz lithic sandstone.
- **Soils:** Shallow to moderately deep (>100 cm) hardsetting mottled texture contrast soils, red and brown podzolic soils on crests grading to yellow podzolic soils on lower slopes and in drainage lines.
- **Landscape:** Gently undulating rises on Wianamatta Group shales. Local relief to 30 m, slopes usually >5%. Broad rounded crests and ridges with gently inclined slopes. Cleared Eucalypt woodland and tall open-forest.
- **Limitations:** localised seasonal waterlogging, localised water erosion hazard, moderately reactive highly plastic subsoil, localised surface movement potential.

Based on the review of the Stage 2 Assessment report (JBS 2010a) and the Additional Site Investigation (WSP, 2020b), details of the encountered geology, hydrology and potential hydrogeology of the site are provided below.

[12] OEH (2021) *ESPADE 2.2*. NSW Office of Environment and Heritage, accessed 26 June 2022 https://www.environment.nsw.gov.au/eSpade2Webapp

Stockpile/Fill

The stockpiled materials encounter onsite included clays and sands, with building rubble including PVC pipe, plastic sheeting, bricks, tile fragments, concrete fragments, plasterboard, timber, slag and ash, and fragments of ACM.

Fill material was predominantly identified in the western and eastern portions of the site, in the vicinity of former buildings. Fill generally comprised silty clay, silty sand or a silty gravel with some inclusions of building rubble with ACM in several locations. Fill associated with the former buildings was identified to a maximum depth of 0.8 m bgs.

Fill material in the central northern portion in the vicinity of the former earthworks was identified to a depth of 2.1 m bgs, and comprised silty clay with inclusions of shale and ironstone gravels. Concrete was also identified in one location.

Natural Soils

Natural soils comprised red/orange/yellow silty clay with some weathered shale gravels. A weathered shale was observed from 0.6 to 6.0 m bgs.

Salinity

The previous investigation (JBS 2010a) identified salinity indicator plants along the alignment of Blacktown Creek in the central portion of the site. WSP (2020b) reported salinity testing of soils in a previous investigation (referenced as GT (2015) in WSP (2020b)) indicated soil salinities ranging from "Not Saline" to "Moderately Saline". WSP conducted a salinity assessment in 2020 that concluded slightly to moderately saline conditions exist at the site.

Acid Sulfate Soils

DLWC (1998[13]), states that acid sulfate soils (ASS) are likely to be located in coastal lowlands up to approximately 10 m AHD. No risk map for the area encompassing the site was provided as part of the acid sulfate soil risk map series, DLWC (1998), typically indicating that such conditions have not been identified based on regional mapping of geology and soil. In addition, the Council planning certificates (**Section 3.2**) identified that the site is not affected by acid sulfate soils.

Hydrology

Precipitation is expected to infiltrate the surface soils. Following periods of heavy rainfall, surface runoff from the central and eastern portions of the site would be expected to flow towards Blacktown Creek in the central portion of the site. Surface runoff from the western portion of the site is expected to travel in a general westerly direction toward a small drainage channel on the western boundary of the site.

Hydrogeology

WSP (2020b) installed three monitoring wells in the western portion of site to a maximum of 6 m bgs. Groundwater was not observed during the drilling works. Groundwater was encountered at 5.431 m below top of casing (BTOC) in one monitoring well on 8 May 2020, and the remaining two wells were reported to be dry. Based on the data from MW01, WSP described the groundwater at the site as circumneutral and mildly oxidising, saline and poorly oxygenated.

Based on local topography, groundwater flow is anticipated to be to the north or northeast, generally in the direction of Blacktown Creek. Groundwater occurring in the shales and sandstones underlying the site is expected to be confined to zones of relatively higher permeability (i.e. fractures in bedrock and within interbedded sands and sandy clays), and therefore limited in extent. However, there may be localised areas of seepage.

[13] *Guidelines for the Use of Acid Sulfate Soil Risk Maps*. Acid Sulfate Soil Management Advisory Committee August 1998, ASSMAC 1998.

Based on the review of JBS (2010b) and WSP (2020b), a number of water bearing zones are present in the Huntingwood East region: one zone occurring between 11 and 28 m bgs; another between 56 and 62 m bgs; and a further zone below 125 m bgs.

2.6 Meteorology

The Bureau of Meteorology hosts local climate statistics for Australian locations. A review of statistics presented for the nearby station of Prospect Reservoir (1.9 km from the site) indicated the following relevant information (BOM 2022[14]):

- Average minimum temperatures vary from 6.1 ^{o}C in July to 17.8 ^{o}C in February;
- Average maximum temperatures vary from 16.9 ^{o}C in July to 28.6 ^{o}C in January;
- The average annual rainfall is approximately 878.6 mm, with rainfall greater than 1 mm occurring on an average of 83.9 days per year; and
- Monthly rainfall varies from 46.2 mm in September to 100.6 mm in March, with the wettest periods occurring on average in December to March.

[14] BOM (2022) *Climate Statistics for Australian Locations – Monthly Climate Statistics – Prospect Reservoir*. Bureau of Meteorology generated 24 February 2022 accessed 1 March 2022 http://www.bom.gov.au/climate/averages/tables/cw_067019.shtml

3. Site History

3.1 Historical Aerial Imagery

Aerial images assessed by JBS (2010a) and WSP (2020a and 2020b) from between 1943 and 2018, and NearMap imagery from between 2011 and 2021, provided as **Appendix C**, were reviewed for the site.

Previous investigations indicate that the western, southern central and far eastern portions of the site were previously developed, with residences, sheds and other buildings present in these areas. Former agricultural activities were conducted in the western and southern central portions of the site. Earthworks were conducted in the central northern portion of the site. Further details are provided in JBS (2010a) and WSP (2020a and 2020b).

To assess the more recent site activities and supplement the site inspections undertaken on 26 August 2021 and 9 May 2022, copies of annual aerial imagery from between 2011 to 2021 were obtained from NearMap. Copies of aerial imagery reviewed as part of this assessment are provided in **Appendix C**. Relevant information from the aerial imagery review is summarised in **Tables 3.1** to **3.4**, below.

Table 3.1: Summary of Aerial Imagery Review – Central Western Assessment Area

Year	Observations
2011	• Primarily vacant grassed land, with sparse vegetation. • A dirt road is present along the eastern boundary of the area (D11 to F11) and dense tree vegetation is present in the western portion of the area. • A discoloured area is visible in grid square G8 and G10. • A mound is visible in grid square D7. • Some disturbance is visible in the central portion of D8.
2012	• The area appears similar to the 2011 aerial imagery.
2013	• The discoloured area in grid square G8 appears to be reduced in size. • The discoloured area in grid square G10 appears to have increased in size into F10. • An orange / brown discoloured area is visible in E8 and E10.
2014	• The discoloured area in grid square G10 / F10 is no longer present. • The previously discoloured area in grid square G8 is now a darker green indicating more vegetation is present here.
2015	• The area appears similar to the 2014 aerial imagery.
2016	• The area appears similar to the 2015 aerial imagery.
2017	• The area appears similar to the 2016 aerial imagery.
2018	• The area appears similar to the 2017 aerial imagery.
2019	• The area appears similar to the 2018 aerial imagery.
2020	• The surface of the area across grid squares E9, E10 and E11 has been disturbed in what appear to be trenches with small mounds adjacent the trenches, likely the WSP intrusive investigation program. • Additional disturbance to the ground surface is visible in grid squares B9, B10, B111, C9, C10 and C11.
2021	• The area appears similar to the 2020 aerial imagery. • The disturbed areas in 2020 have overgrown with grass.

Table 3.2: Summary of Aerial Imagery Review – Central Eastern Assessment Area

Year	Observations
2011	• Primarily vacant grassed land, with sparse vegetation. • A dirt access road appears present from the southwestern boundary across the southern portion of the site (across grid squares G12, G13, G14, G15, F15, F16 and F17). • Discoloured vegetation / mounds are present in the northern portion of the site (grid squares B14, C14 and C17). • Discoloured vegetation is present in the south east portion of site (grid square G17). • A Telstra exchange in central portion C12.
2012	• The discoloured vegetation / mounds in the northern portion of the site are now visible across grid squares B14, C14, B15, C15, D15, B16, C16, D15, B17, C17 and D17.
2013	• A small dam is present in the central portion of the area (in the road alignment on the boundary of grid squares C14 and D14, east of the telecommunication infrastructure). • The ground surface has been disturbed adjacent and east of the telecommunications infrastructure (grid square C13).
2014	• The small dam has been backfilled in the central portion of the area (in the road alignment on the boundary of grid squares C14 and D14, east of the telecommunication infrastructure). • A dirt access road is visible from the central portion of the area to the access road in the south of the area (running north to south in grid squares D15, E15, E16 and F16). • Ground disturbance is apparent in the central portion of the area (grid squares E13, E14, F13, F14, F15, G15 and G16).
2015	• The previous ground disturbance is no longer visible.
2016	• The area appears similar to the 2015 aerial imagery.
2017	• The area appears similar to the 2016 aerial imagery.
2018	• The area appears similar to the 2017 aerial imagery. • The alignment of the dirt access road across the southern portion of the area appears to have changed. • Some debris is visible in the western portion of the area (grid square E12).
2019	• The area appears similar to the 2018 aerial imagery. • The alignment of the dirt access road across the southern portion of the area appears to have changed.
2020	• The surface of the area across grid squares D13, E13, F13, G13, D14, E14, F14, G14, D15, E15 and, F15 has been disturbed in what appear to be trenches with small mounds adjacent the trenches likely the WSP intrusive investigation program. • Additional disturbance to the ground surface is visible in grid squares B14, C14, B15, C15, B16 and C16.
2021	• The area appears similar to the 2020 aerial imagery. • The disturbed areas in 2020 have overgrown with grass.

Table 3.3: Summary of Aerial Imagery Review – Eastern Assessment Area

Year	Observations
2011	• Primarily vacant grassed land, with sparse vegetation. • Evidence of a dirt road is visible through the centre of the area and dense tree vegetation is present in the north eastern and southern extents of the area. • A creek (Blacktown Creek) is visible running across the south western portion of the area. • Discoloured grass is present in grid squares B23, B27, E28, G23 and G24.
2012	• The area appears similar to the 2011 aerial imagery. • Discoloured grass is also present in grid square D28.
2013	• Ground disturbance / construction earth works are visible in the eastern portion of the area, (adjacent the eastern side of the Blacktown Creek) from the northern to southern boundary of the area. At the time of the aerial imagery an excavation is present in the north west extent of the area. • Discoloured grass / disturbed ground is also present in grid square E23/E24.
2014	• Bare earth from the 2013 construction works is visible in the eastern portion of the site. The visible scaring is assumed to be the alignment of underground utility infrastructure.
2015	• The area appears similar to the 2014 aerial imagery.
2016	• The area appears similar to the 2015 aerial imagery. • The discoloured grass in grid square D28 is no longer visible.
2017	• The area appears similar to the 2016 aerial imagery.
2018	• The area appears similar to the 2017 aerial imagery.

Year	Observations
2019	• The area appears similar to the 2018 aerial imagery.
2020	• The area appears similar to the 2019 aerial imagery.
2021	• The area appears similar to the 2020 aerial imagery.

Table 3.4: Summary of Aerial Imagery Review – Western Assessment Area

Year	Observations
2011	• Warehouse present in northwest portion of the site with an adjacent asphalt carpark in the central north portion. • Bare earth is present in the northeast portion of the site. • Residential properties present in the central portion of the site in grid reference D2 and D3 with various warehouses present in the central south and south east portion of the site. • Paved areas present along the west and south boundaries of the site with several shipping containers stored on the paved area.
2012	• The area appears similar to the 2011 aerial imagery. • The disturbed areas in 2011 have overgrown with vegetation. • Small mounds of material are visible on disturbed ground in grid squares A4, B4, A5 and B5.
2013	• The area appears similar to the 2012 aerial imagery. • Vegetation in the north east portion of the site has been cleared. • Small mounds of material are visible on disturbed ground in grid squares A4 and B4.
2014	• The area appears similar to the 2013 aerial imagery.
2015	• The area appears similar to the 2014 aerial imagery.
2016	• The area appears similar to the 2015 aerial imagery. • The disturbed areas in 2015 have overgrown with vegetation.
2017	• The area appears similar to the 2016 aerial imagery.
2018	• The area appears similar to the 2017 aerial imagery.
2019	• The area appears similar to the 2018 aerial imagery.
2020	• The area appears similar to the 2019 aerial imagery. • Vegetation in the north east portion of the site has been cleared.
2021	• The area appears similar to the 2020 aerial imagery.

3.2 Council Planning Certificates

A copy of Section 10.7 (2 and 5) Planning Certificates for Lot 51 DP 1144623, Lot 1 DP 835264 and Lots 183 to 186 DP 8716 were obtained by JBS&G from Council and are included in **Appendix D**. Relevant details are summarised below:

- The land is affected by the State Environmental Planning Policy (Western Sydney Employment Area) 2009;
- The land is currently zoned IN1 General Industrial;
- The land is not affected by a heritage item or within a heritage conservation area;
- The site is not proclaimed to be a mine subsidence district under the Mine Subsidence Compensation Act 1961;
- The land is not affected by any road widening or road realignment.
- The property has not been identified to be affected by landslip, bushfire, subsidence or tidal inundation;
- Council has adopted a Contaminated Lands Policy and an Asbestos Policy which may restrict development on the subject land;
- Under the Contaminated Land Management Act 1997 and Contaminated Land Management Amendment Act 2008 the land has not been declared to be significantly contaminated land, is not subject to a management order, is not the subject of an approved voluntary management proposal, is not subject to an ongoing maintenance order as at the date when the certificate was issued and is not the subject of a site audit statement provided to the Council;

- The property has not been identified to be affected acid sulfate soils;
- The property is not subject to vegetation plans or identified as biodiversity certified land; and
- The land is affected by a tree preservation control under Clause 5.9 of the Blacktown Local Environmental Plan 2015.

3.3 Historical Title Records

A copy of the historical title's documentation obtained for the site is provided in **Appendix G**. The historical title details are summarised in **Tables 3.5** to **3.8**.

Table 3.5: Summary of Historical Site Titles for Lot 183 DP 8716

Location	Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
Lot 183 DP 8716	07.02.1923 (1923 to 1935	Mary Eliza Harris (Married Woman)	Vol 3416 Fol 104
	04.11.1935 (1935 to 1935)	James William Harris (Labourer) (transmission Application not investigated)	Vol 3416 Fol 104
	04.11.1935 (1935 to 1944)	Frank Vincent Wade Holmes (Agent)	Vol 3416 Fol 104
	23.06.1944 (1944 to 1948)	Margaret Wheeler (Widow) Now Marearet Wilson (Married Woman)	Vol 3416 Fol 104
	18.09.1948 (1948 to 1959)	Nedjelko Markovina (Market Gardener)	Vol 3416 Fol 104
	13.07.1959 (1959 to 1964)	Leslie Archibald Haddock (Motor Engineer) Ivy Haddock (Married Woman)	Vol 3416 Fol 104
	20.08.1964 (1964 to 1976)	Emanuel Teuma (Poultry Farmer) Grace Teuma (Married Woman)	Vol 3416 Fol 104
	18.10.1976 (1976 to 1981)	Joseph Michael Angelo Teuma (Poultry Farmer) Ted Edward Teuma (Poultry Farmer) Michael Angelo Teuma (Poultry Farmer) Emanuel Teuma (Poultry Farmer) Grace Teuma <Married Woman)	Vol 3416 Fol 104 Now Vol 13184 Fol 221
	01.06.1981 (1981 to 2001)	Joseph Michael Angelo Teuma (Poultry Farmer) Ted Edward Teuma (Poultry Farmer) Michael Angelo Teuma (Poultry Farmer) Emanuel Teuma (Poultry Farmer) Grace Teuma (Married Woman) Charles Teuma	Vol 13184 Fol 221 Now 183/8716
	23.08.2001 (2001 to 2006)	Joseph Michael Angelo Teuma (Poultry Farmer) Ted Edward Teuma (Poultry Farmer) Michael Angelo Teuma (Poultry Farmer) Grace Teuma (Married Woman) Charles Teuma	183/8716
	10.10.2006 (2006 to 2016)	Red Lea Property Pty Ltd	183/8716
	18.08.2016 (2016 to 2016)	Red Lea Chickens Pty Ltd	183/8716
	18.08.2016 (2016 to Date)	# Redlea Group Holding Pty Ltd	183/8716

# Denotes current registered proprietor

Leases:

- 28.01.1977 to Joseph Michael Angelo Teuma, Ted Edward Teuma, Michael Angelo Teuma & Emanuel Teuma – expires 30.06.2000.
- 22.07.2019 (AP 385582) to Fastform Australia Pty Limited- expires 07.03.2022.

Easements:

- 08.11.1965 (K 116727) Easement for Transmission Line variable width.
- 11.12.1984 0' 378957 & D.P. 604009) Easement or Transmission Line 30 metres wide.

Table 3.6: Summary of Historical Site Titles for Lots 184 to 186 DP 8716

Location	Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
Lots 184 to **186 DP 8716**	30.11.1920 (1920 to 1938)	William Charles Entwistle (Gardener)	Vol 3133 Fol 65
	12.05.1938 (1938 to 1944)	Frank Vincent Wade Holmes (Agent)	Vol 3133 Fol 65 Now Vol 4963 Fol 68
	23.06.1944 (1944 to 1948)	Margaret Wheeler (Widow) Now Mariraret Wilson (Married Woman)	Vol 4963 Fol 68 Now Vol 5443 Fol 220
	18.09.1948 (1948 to 1963)	Nedjelko Markovina (Market Gardener)	Vol 5443 Fol 220
	01.05.1963 (1963 to 1968)	Melchior Baiada (Farmer) Victoria Baiada (Married Woman)	Vol 5443 Fol 220
	2.03.1968 (1968 to 1972)	Emanuel Teuma (Poultry Farmer)	Vol 5443 Fol 220
	01.03.1972 (1972 to 2006)	Joseph Michael Angelo Teuma (Poultry Farmer) Ted Edward Teuma (Poultry Farmer)	Vol 5443 Fol 220 Now Auto Consol 5443-220
	10.10.2006 (2006 to 2016)	Red Lea Property Pty Ltd	Auto Consol 5443-220
	18.08.2016 (2016 to 2016)	Red Lea Chickens Pty Ltd	Auto Consol 5443-220
	18.08.2016 (2016 to Date)	# Redlea Group Holding Pty Ltd	Auto Consol 5443-220

# Denotes current registered proprietor

Leases: 22.07.2019 (AP 385582) to Fastform Australia Pty Limited- expires 07.03.2022.

Easements:

- 27.07.1965 CT 946973) Easement for Transmission Line variable width.
- 11.12.1984 0' 378958 & D.P. 604009) Easement or Transmission Line 30 metres wide.

Table 3.7: Summary of Historical Site Titles for Lots 187 to 188 DP 8716

Location	Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
Lots 187 to **188 DP 8716**	14.10.1920 (1920 to 1920)	Walter Scott Murray (Saddler)	Vol 3110 Fol 137
	29.10.1920 (1920 to 1929)	Abraham Lazarus (Hotel Keeper)	Vol 3110 Fol 137
	03.12.1929 (1929 to 1936)	Maurice Henry Lazarus (Hotel Proprietor) (& his deceased estate)	Vol 3110 Fol 137
	23.09.1936 (1936 to 1948)	Frank Vincent Wade Holmes (Agent)	Vol 3110 Fol 137
	19.01.1948 (1948 to 1948)	Margaret Wilson (Married Woman)	Vol 3110 Fol 137
	18.09.1948 (1948 to 1963)	Nedjelko Markovina (Market Gardener)	Vol 3110 Fol 137
	01.05.1963 (1963 to 1968)	Melchior Baiada (Farmer) Victoria Baiada (Married Woman)	Vol 3110 Fol 137
	12.03.1968 (1968 to 1972)	Emanuel Teuma (Poultry Farmer)	Vol 3110 Fol 137
	01.03.1972 (1972 to 2006)	Joseph Michael Angelo Teuma (Poultry Farmer) Ted Edward Teuma (Poultry Farmer)	Vol 3110 Fol 137 Now Auto Consol 3110-137
	10.10.2006 (2006 to 2016)	Red Lea Property Pty Ltd	Auto Consol 3110-137
	18.08.2016 (2016 to 2016)	Red Lea Chickens Pty Ltd	Auto Consol 3110-137
	18.08.2016 (2016 to Date)	# Redlea Group Holding Pty Ltd	Auto Consol 3110-137

# Denotes current registered proprietor

Leases: 22.07.2019 (AP 385582) to Fastform Australia Pty Limited – expires 07.03.2022.

Table 3.8: Summary of Historical Site Titles for Lot 1 DP 835264

Location	Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
Lot 1 DP 835264 Part Numbered 1 in **Appendix G**	7.02.1923 (1923 to 1925)	Martha Susan Goodsell (Widow)	Vol 3416 Fol 93
	01.12.1925 (1925 to 1934)	Thomas William Alexander Stoddart (Labourer) (Transmission Annlication not investiirated)	Vol 3416 Fol 93
	31.10.1934 (1934 to 1942)	Milford Roy Hicks (Bank Clerk)	Vol 3416 Fol 93
Lot 1 DP 835264 Part Numbered 2 in **Appendix G**	03.07.1928 (1928 to 1935)	Alfred James Newcombe (Traveller)	Vol 4163 Fol 3
	08.01.1935 (1935 to 1942)	Milford Roy Hicks (Bank Clerk)	Vol 4163 Fol 3
Lot 1 DP 835264 Part Numbered 3 in **Appendix G**	01.12.1920 (1920 to 1923)	Robert Ernest Lamb (Carpenter)	Vol 3133 Fol 182
	14.09.1923 (1923 to 1924)	James William Hutchin (Boot Importer)	Vol 3133 Fol 182
	01.12.1924 (1924 to 1930)	Ethel Miller May Jenkins (Widow) (& her deceased estate)	Vol 3133 Fol 182
	03.12.1930 (1930 to 1934)	Francis Winton Jenkins (Student)	Vol 3133 Fol 182
	28.12.1934 (1934 to 1942)	Milford Roy Hicks (Bank Clerk)	Vol 3133 Fol 182
Lot 1 DP 835264 Part Numbered 4 in **Appendix G**	16.11.1920 (1930 to 1930)	John Wynne (Laborer)	Vol 3126 Fol 177
	27.06.1930 (1930 to 1935)	Albert Edward Squires (Insurance Superintendent)	Vol 3126 Fol 177 Now Vol 4436 Fol 173
	17.01.1935 (1935 to 1942)	Milford Roy Hicks (Bank Clerk)	Vol 4436 Fol 173

Location	Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
	03.12.1942 (1942 to 1957)	Henry Reginald Booth (Clerk) Edith Pearl Booth (Married Woman)	Vol 3416 Fol 93 Vol 4163 Fol 3 Vol 3133 Fol 182 Vol 4436 Fol 173
	21.01.1957 (1957 to 1975)	Christopher John Quick (Master Builder) Norman Thomas Quick (Master Builder)	Vol 3416 Fol 93 Vol 4163 Fol 3 Vol 3133 Fol 182 Vol 4436 Fol 173 Now Vol 7375 Fol's 8 & 9
	02.12.1975 (1975 to 1976)	Christopher John Quick (Master Builder)	Vol 7375 Fol's 8 & 9 Now Vol 12961 Fol 89
	09.04.1976 (1976 to 1976)	Hilda Louise Quick (Widow) (Transmission Application not investigated)	Vol 12961 Fol 89 Vol 12961 Fol 89
	17.12.1976 (1976 to 1988)	New South Wales Planning and Environment Commission	Vol 12961 Fol 89
	30.05.1988 (1988 to 2007)	The Forestry Commission of New South Wales	Vol 12961 Fol 89 Now 1/835264
	01.06.2007 (2007 to 2016)	Red Lea Property Pty Ltd	1/835264
	18.08.2016 (2016 to 2016)	Red Lea Chickens Pty Ltd	1/835264
	18.08.2016 (2016 to Date)	# Redlea Group Holding Pty Ltd	1/835264

# Denotes current registered proprietor

Leases: 22.07.2019 (AP 385582) to Fastform Australia Pty Limited – expires 07.03.2022.

3.4 NSW EPA Records

A search of the NSW EPA's public register maintained under the *Protection of the Environment Operations Act (POEO) 1997* was undertaken and is included as **Appendix E**.

The search identified that, for the site, there were:

- EPL 10674, Red Lea Chickens Pty Ltd (Red Lea), located at 14 Augusta Street, western portion of the site. Red Lea was the holder of an EPL for Scheduled Activity – Premises Based, under the Protection of the Environment Operations Act 1997. On 28 September 2001 the EPA received an application for the variation of the licence. The variation was to permit the premises to be used for livestock processing instead of its former use as an abattoir. Wastewater from livestock processing operations (that were previously being discharged to waters after treatment) were instead being transported to an adjoining property (no address given) by the licensee for treatment and disposal to sewer. On 11 October 2007 the licence status was amended to surrendered.
- No prevention, clean up or prohibition notices; and
- No transfer, variation, suspension, or revocation of an environmental protection licence.

A few environment protection licences (EPLs) have historically been issued to surrounding properties including:

- EPL 5069, Red Lea, located at 421-427 Flushcombe Road Blacktown, which is further west of the site over Flushcombe Road. Red Lea, was the holder of an EPL for Scheduled Activity – Livestock processing activities for slaughtering or processing animals under the Protection of the Environment Operations Act 1997. On 3 September 2019 the licence status was amended to 'Revocation of a Licence'.

Additionally, a 'pollution studies and reduction programs' search produced three findings associated with Red Lea, at 421-427 Flushcombe Road, Blacktown. These included:

- A nutrient removal plan (8 December 2015 – 24 May 2016).
- Optimisation of the stormwater management system (31 May 2016 – 01 July 2017).
- A stormwater management improvement plan (start date 01 December 2017 – no end date).

A search was also undertaken through the EPA's public contaminated land register and is included as **Appendix E**. The site has not been notified to the EPA under section 60 of the CLM Act.

A search of NSW contaminated sites notified to the EPA (under Section 60 of the CLM Act). The site or immediate surrounding are not on the list of NSW contaminated sites notified to the EPA.

A search of the EPA's public per- and poly- fluoroalkyl substances register indicated that there were no records pertaining to the site or areas immediately surrounding the site. Bankstown Airport is located 15 km southeast of the site, Kemps Creek NSW Rural Fire Services is located 17 km southwest of the site, Greenacre Fire and Rescue is located 18 km southeast of the site, Holsworthy Barracks is located 19 km south of the site and Westleigh NSW Rural Fire Service is located 19 km northeast of the site. Results are included as **Appendix E**.

3.5 State Heritage Registers

A search of the NSW Heritage database was undertaken and records are included in **Appendix F**. The site was not identified to contain an item of heritage significance. St Bartholomew's Anglican Church and Cemetery (adjacent the site to the east) was identified on the State Heritage Inventory. This is discussed in the Statement of Heritage Impact (Heritage 21, 2020) in **Section 4.5**.

3.6 Integrity Assessment

Historic land use at the site has been a mix of rural residential, agricultural, grazing/market gardens, depot, poultry operations and car scrap yard/mechanic. Structures, including residences, sheds, and other buildings, were present in the earliest historical aerial photograph reviewed (1943). Central and eastern portion structures were removed between 1977 and 2009. Structures remain present in the western portion of the site. Several lots in the western portion of the site are occupied – including a mechanic, truck depot and storage yard.

A Telstra exchange is present in the central portion of the site (Lot 164 DP 8716). Though limited information was available for this portion of the site, the available information is consistent with this portion having a low potential for contamination.

4. Previous Investigations

The following existing site contamination assessment reports as provided by the client were reviewed as part of this assessment:

- *Stage 2 Environmental Site Assessment, Augusta St, Blacktown, NSW*. JBS Environmental Pty Ltd, April 2010 (JBS 2010a). The assessment area for this report is shown in **Figure 3**.
- *Remedial Action Plan, 'Huntingwood East' Augusta St, Blacktown, NSW*. JBS Environmental Pty Ltd, July 2010 (JBS 2010b). The assessment area for this report is shown in **Figure 3**.
- *Environmental Due Diligence Assessment, Augusta Street, Huntingwood East, NSW*. WSP, March 2020 (WSP 2020a) prepared for a 9.2 ha parcel to support an Airtrunk Pty Ltd development proposal, the assessment area for this report is shown in **Figure 3**.
- *Additional Site Investigation, Augusta Street, Blacktown, NSW,* WSP, August 2020 (WSP 2020b) prepared for a 14.4 ha parcel to support an Airtrunk Pty Ltd development proposal, the assessment area for this report is shown in **Figure 3**.
- *Statement of Heritage Impact, Proposed Development at Augusta Street, Blacktown*, Rappoport Pty Ltd (Heritage 21), August 2020 (Heritage 21, 2020) prepared for the Airtrunk Pty Ltd portion of the site.
- *Remedial Action Plan, Huntingwood East, Augusta Street Blacktown NSW*, JBS&G Australia Pty Ltd, 16 December 2021 (JBS&G 2021a).
- *Review of Land Contamination, Huntingwood East, Augusta Street, Blacktown NSW,* JBS&G Australia Pty Ltd, 16 December 2021 (JBS&G 2021b).
- *Pre-Purchase Due Diligence Preliminary Contamination Assessment, Proposed Industrial Development, 3 & 14 Augusta Street and 426 Flushcombe Road, Blacktown,* Douglas Partners Pty Ltd, 30 November 2021 (DP 2021).
- *Pre Purchase Contamination Assessment and Review – Augusta Street, Blacktown NSW*, JBS&G Australia Pty Ltd, 1 April 2022 (JBS&G 2022).

The contamination assessments have been supplemented by a site inspection (see **Section 2.2** and **Figures 4A** to **4D**).

It is noted (as referenced in the JBS (2010a)) that WSP previously completed a Contamination and Land Capability Study (WSP, 2007[15]) for the site. While this report was not provided as part of the documents for review the information from this report was included in JBS (2010a) and has been considered below.

[15] *Contamination and Land Capability Study Huntingwood East Precinct, Huntingwood East Precinct Landowners Group.* WSP, September 2007 (WSP 2007).

4.1 Stage 2 Environmental Site Assessment (JBS 2010a)

During the assessment, soil samples were collected from 131 locations, comprising 64 grid-based and 67 targeted locations. Sample locations are shown in **Figures 5A**, **5B** and **5C** and analytical tables against the updated site assessment criteria are provided as **Appendix A**. It is noted JBS refers to sample / stockpile locations with the prefix SP and / or TP interchangeably in some cases. In this assessment we have adopted a convention of using the prefixes used in the sample IDs as shown in **Table C**, **Appendix A**.

The site condition documented in JBS (2010a) was predominantly vacant, cleared land. Some stands of trees and thickets were present, and a small stream was identified running through the central portion of the site. Stockpiled and broader fill materials were present on the site.

The stockpiled material included clays and sands, with building rubble including PVC pipe, plastic sheeting, bricks, tile fragments, concrete fragments, plasterboard, timber, slag and ash, and fragments of ACM.

Fill material to a maximum depth of 0.5 m was predominantly identified in the vicinity of former buildings. Fill generally comprised silty clay with some inclusions of building rubble including ACM in several locations.

The fill material in the vicinity of the former earthworks in the central northern portion of the site was identified to depths of 2.1 m, and generally comprised silty clay with inclusions of shale and ironstone gravels.

Natural soils comprised red/orange/yellow silty clay with some weathered shale gravels.

A comparison of the soil analytical results with the adopted site criteria indicated the following:

- ACM was identified on the ground surface and in fill material at test pit locations TP14, TP22, TP63, and TP111, and within stockpiles 3, 6, 8, 15, 19 and 31 (via test pits SP83, TP86, TP88, TP97 and SP104). Loose asbestos fibres were not identified in soil sample analysed, indicating the asbestos in fill material is in the bonded form.
- Elevated lead identified at TP24B and TP49B does not pose a risk to human health under a commercial/industrial scenario, supported by the results of additional targeted sampling and statistical analyses. The potential for the elevated lead to leach into underlying soils and groundwater is considered low.
- Elevated chromium and nickel concentrations identified in surface samples from test pits TP29, TP32, TP34-TP36, TP40, TP41 and TP43, did not exceed the adopted site criteria, and are suitable to be retained at the site under a commercial/industrial land use scenario.
- The TPH concentrations in the sample from stockpile 32 (identified in TP105) was reported above the adopted criterion, and requires further investigation, remediation or management. Stockpile 32 has a volume of approximately 600 m^3 and is comprised of silty clay with inclusions of scrap metals and tiles.
- Benzo(a)pyrene [B(a)P] (with elevated TPH and total PAHs) concentrations in the soil sample from stockpile 17 (identified in SP95) were reported above the adopted criterion, and requires further investigation, remediation or management. Stockpile 17 has a volume of approximately 375 m^3 and is comprised of silty clay with inclusions of roadbase gravel, bitumen, crushed shale and sandstone.

The report concluded that the site can be made suitable for the proposed commercial/industrial use subject to remediation of:

- ACM identified on the ground surface and in fill material at test pit locations TP14, TP22, TP63, and TP111, and within stockpiles 3, 6, 8, 15, 19 and 31; and

- Hydrocarbon (B[a]P or TPH) impacted stockpiles 17 and 32.

It was noted that further investigation was required on stockpiles 2, 5, 6, 9, 14, 18, 21, 22 and 23 to validate the material as suitable to be retained onsite.

Recommendations were made for a RAP to be developed in accordance with the relevant regulatory requirements and implemented to render the site suitable for the proposed commercial/industrial use.

4.2 Remedial Action Plan (JBS 2010b)

Based on the Stage 2 ESA (JBS 2010a), JBS prepared an RAP in general accordance with relevant guidelines made or approved by the then NSW Department of Environment Climate Change and Water (DECCW), now EPA. JBS concluded that the site can be made suitable for the proposed commercial/industrial use subject to the following remediation strategy:

- Offsite disposal of hydrocarbon (TPH and PAH) impacted stockpiles;
- Remediation or offsite disposal of ACM impacted stockpiles;
- Excavation and remediation or offsite disposal of ACM-impacted fill material at four locations across the site; and
- Validation of the residual soil/ fill materials and any imported fill materials, as well as validation of stockpiles to be retained onsite, in accordance with the relevant DECCW guidelines.

It was also noted that further investigation was required for stockpiles 2, 5, 6, 9, 14, 18, 21, 22 and 23 to validate the material as suitable to be retained onsite.

4.3 Environmental Due Diligence Assessment (WSP 2020a)

WSP Australia Pty Ltd (WSP) prepared an Environmental Due Diligence (EDD) Assessment for a portion of the site (9.2 ha parcel) to support an Airtrunk Pty Ltd development proposal. The purpose of the report was to identify potential risks and constraints to the proposed development and future use of the site, in the context of a proposed acquisition.

Based on a review of available information (RAP, JBS 2010b), a site inspection and a desktop investigation, WSP concluded the potential sources of harm to the environment or human health at the site include:

- Petroleum hydrocarbons, present in a stockpile and derived from an unknown source;
- Identified locations of ACM, derived from historical fill material, former structures and possible fly-tipping;
- Nutrients, surfactants, alkalinity, salinity and pathogens, from abattoir activities on the adjacent site to the west; and
- Other unknown contaminants in stockpiles that have not been characterised, or in fill material not yet identified.

WSP considered that the site represented an overall moderate risk of environmental liability. While the RAP (JBS, 2010b) was developed to mitigate this risk in the context of redevelopment for a future industrial use in accordance with the zoning for the site, WSP identified several data gaps in the RAP that could materially affect the environmental and financial liability for the site.

To address these data gaps, WSP recommended the following:

- Review of all available information for the site (noting WSP had not reviewed the previous investigation reports);

- Additional works to delineate previously identified impacts, new / previously untested stockpiles and to quantify fill material, to inform remediation options in the RAP;
- Additional works to investigate the potential effects of activities adjacent to the site, and to determine the contamination status of groundwater beneath the site;
- Consideration of current regulatory guidelines and legislation;
- Provision of updated protocols to address unexpected finds and health and safety during development works, taking into consideration findings from additional works; and
- Identifying key stakeholders and responsibilities in the context of the proposed development of the site.

WSP concluded that provided the updated RAP adequately addresses the data gaps and any other data gaps identified through additional investigations, and presents a suitable strategy to mitigate any identified risk, there should be no environmental constraints on development of the site.

WSP recommended a construction environmental management plan (CEMP) be developed to mitigate risks to human health and the environment through the construction phase of site development works.

WSP consider that if the above is successfully undertaken, and dependant on the findings of the additional works, the ongoing risk of environmental liability at the site to be low.

4.4 Additional Site Investigation (WSP 2020b)

WSP undertook a data gap investigation based on the EDD Assessment (WSP, 2020a) for a portion of the site (14.4 ha parcel to support an Airtrunk Pty Ltd development proposal). The investigation included installation of three groundwater wells to a maximum depth of 6 metres below ground surface (m bgs), 37 test pits to a maximum depth of 2 m bgs (targeting fill material and stockpiles) and a groundwater assessment. Sample locations are shown in **Figure 5A** and analytical tables against the updated site assessment criteria are provided as **Appendix A**. It is noted WSP labelled some samples with similar IDs to those used in JBS (2010a). For clarity in this assessment a prefix of "WSP_" was added to the sample location ID to differentiate the samples as collected by WSP.

WSP reported the site generally comprised natural, brown, moist silty clay, underlain by a red, mottled light grey clay becoming light grey, mottled red clay overlying weathered shale. Stockpiles comprised reworked clay consistent with the local natural clay found on-site, with inclusions of anthropogenic materials including potential bonded asbestos cement sheeting.

Groundwater was encountered at 5.431 m BTOC in well MW01, on 8 May 2020 and wells MW02 and MW03 were reported to be dry. No sheens or hydrocarbon odours were observed from groundwater sampled from well MW01. Due to the proximity of the Blacktown Creek and to the Prospect Reservoir, the flow direction is considered likely to be northeast.

WSP (2020b) reported the following:

- The hydrocarbon impacts previously identified in stockpile TP105 (F2) (Stockpile 32) are no longer considered to pose a "tangible" health risk and, as such, no longer require off-site disposal;
- Concentrations of heavy metals were above the adopted ecological criteria in stockpiles F1, F2, and F3; and may present a "tangible" risk to ecological receptors both on-site and off-site;
- Concentrations of cadmium, copper, and nickel in groundwater were above adopted ecological criteria. However, as the environmental receptor of Blacktown Creek is ephemeral and downstream (north of the Great Western Highway) is highly urbanised with concrete

lining, straightening, and culverted sections; the potential for ecological degradation to Blacktown Creek from groundwater was deemed to be a low risk. Furthermore, the concentrations were typical of background concentrations of metals that are pervasive in the greater Sydney region; and

- The nickel concentration in groundwater sample MW01 exceeded the adopted drinking water criteria. However, no registered bores for potable water use were identified within 1 km of the site and the potential receptor of Prospect Reservoir is considered to be up-gradient of the site (i.e. groundwater flows away from the reservoir). As such, no complete source-pathway-receptor linkage was identified, and the risk was deemed to be low.

WSP (2020b) determined that there was an identified current health risk associated with contaminated soil at the time of the investigation to future commercial / industrial users of the site, including construction and maintenance workers and site workers and visitors, due to asbestos contaminants within the soil at the site.

WSP concluded the RAP (JBS, 2010b) remains suitable for the site, subject to the following minor amendments:

- Previously identified hydrocarbon impacted soils in stockpile TP105 (F2) (Stockpile 32) no longer requiring off-site disposal; and
- Stockpile 6 (F3) was identified to contain nickel and zinc concentrations above recreational and commercial/industrial ecological criteria. As such, the on-site re-use of Stockpile 6 is only suitable at locations with no ecological value, such as under buildings, and in pathway or road subgrades.

WSP considers that treatment of ACM and the unexpected finds protocol remained valid as per the JBS (2010b) RAP.

It appears WSP mis-reported results for stockpiles F2 and F3. Based on a review of both JBS (2010a) and WSP (2020b), stockpile 'F2' is 'TP86' / 'Stockpile 6' and stockpile 'F3' is 'TP105' / 'SP105' / 'Stockpile 32'. This does not affect the outcome of the report and is considered in this review.

4.5 Statement of Heritage Impact (Heritage 21, 2020)

Heritage 21 prepared a Statement of Heritage Impact for a portion of the site (9.2 ha parcel to support an Airtrunk Pty Ltd development proposal).

Heritage 21 reported the site is not listed as an item of environmental heritage under Schedule 5 of the Blacktown Local Environmental Plan 2015, the NSW Heritage Register, the National Heritage List, the Commonwealth Heritage List, the National Trust Register (NSW) and / or the former Register of the National Estate.

With regards to a heritage item adjacent the site to the east (St Batholomew's Church), Heritage 21 concluded that the proposed development complies with the pertinent heritage controls and would "engender a minimal impact" on the heritage significance of the heritage item in the vicinity of the site and recommended that Blacktown Council view the application favourably on heritage grounds.

4.6 Remedial Action Plan (JBS&G 2021a)

JBS&G prepared a RAP (JBS&G 2021a) based on the previous reports to manage the identified impacts in order to make the site suitable for the proposed commercial / industrial land-use. This included remediation and/or management of the following impacts:

- ACM impacted stockpiles 3, 6, 8, 15, 19 and 31, comprising a total volume of approximately 1,500 m^3;
- ACM on the ground surface and in fill material at test pit locations TP14, TP22, TP63, TP111, JACM1 and JACM2 associated with former buildings or former stockpiled material;
- Elevated PAH and zinc concentrations (that exceed generic criteria protective of ecological receptors) at various locations that are only suitable for on-site re-use at locations with no/low ecological value, such as under buildings, and in pathways or road subgrades; and
- Further investigation is required for Stockpiles 2 (TP82), 5 (TP85), 9 (TP89), 14, 18 (SP96), 21 (TP98A), 22 (TP99), 23 (TP100), JBS1 and JBS2 to verify the material as suitable to be retained on-site without treatment.

JBS&G concluded that subject to successful implementation of this RAP and subject to the limitations presented in the respective investigation reports, the site can be made suitable for commercial/industrial land use.

4.7 Review of Land Contamination (JBS&G, 2021b[16])

JBS&G (2021b) prepared a review of contaminated land that collated available site contamination data and completed an assessment of site conditions in relation to future commercial/industrial land use, including the identification of site management/remediation requirements to support divestment of the property. JBS&G (2021b) considered that a site management strategy is required to address identified asbestos in stockpiled and surface / fill material, as well as unexpected finds. Tabulated data from previous investigations is provided in **Table C**, **Appendix A**.

JBS&G reported that the location of bonded asbestos impacts has been documented in previous investigations; however, it is not likely all asbestos impacts have been identified. Following vegetation removal and prior to material movement, soils should be continually assessed as earthworks advance to verify areas are free of asbestos. Unexpected ACM or other impacts should be assessed and managed under the unexpected finds protocol.

Aesthetic issues, including ACM, demolition waste and general waste, was found to require management.

JBS&G reported that identified soil impacts can be managed through an appropriate RAP. An asbestos management plan (AMP) is required to manage identified asbestos to meet WHS Regulations until such time as identified asbestos risks are mitigated.

[16] *Review of Land Contamination Huntingwood East Augusta Street, Blacktown NSW*, JBS&G Australia Pty Ltd, 16 December 2021 (JBS&G, 2021b)

4.8 Pre-Purchase Due Diligence Preliminary Contamination Assessment (DP 2021)

Douglas Partners (DP 2021) completed a pre-purchase due diligence preliminary contamination assessment for 3 and 14 Augusta St and 426 Flushcombe Rd (western portion of the site). DP (2021) reviewed site history information, excluding Safework NSW schedule 11 hazardous chemicals notification and council planning certificates section 10.7 (2 & 5), undertook a site walkover, completed soil sample locations, groundwater sampling from five monitoring wells, and laboratory analysis for identified COPC including heavy metals, volatile organic compounds (VOCs), TRH, polycyclic aromatic hydrocarbons (PAHs), organochlorine pesticides (OCPs), organophosphorus pesticides (OPPs), polychlorinated biphenyls (PCBs), phenols, herbicides, perfluoroalkyl and polyfluoroalkyl substances [(PFAS) in groundwater only] and asbestos.

The DP (2021) property area (western portion of the site) was 3.5 hectares, with the properties historically used for rural residential, grazing/market gardens, depot, poultry operations and car scrap yard/mechanic. During the site walkover in October 2021 the following were identified; various stockpiles, USTs and ASTs, asbestos fragments across the ground surface, anecdotal information from site discussions suggesting fly tipping has been a common occurrence, cut and fill and retaining walls to generate site levels, structures were present on the site which were constructed pre-1980s. DP (2021) reported that the sampling rate for the assessment was approximately 40% of that recommended for a detailed contamination assessment (for chemical analysis) and approximately 20% of that recommended for a detailed asbestos assessment.

Hydrocarbon odours were observed adjacent USTs in the northern portion (BH6 and BH7) and in the southern portion (BH24 and BH25) laboratory results were below site criteria. DP (2021) reported elevated TRH C10-C16 (2,900 mg/kg) and TRH C16-C34 (7,700 mg/kg) concentrations exceeding management limits at location SS6, elevated B(a)P (3.3 and 2.1 mg/kg) at locations TP13_0.1-0.2 and SS5, respectively, exceeding adopted ecological screening levels, and OCPs (28 and 112.6 mg/kg) at locations BH3_0.2-0.3 and BH5_0.2-0.3, respectively, not exceeding site criteria. Friable asbestos was observed within the fill material across both properties. Groundwater results were generally below site criteria with the exception of minor detections of copper in well MWA (2 µg/L), which is within natural background levels.

DP (2021) recommended the following additional works are undertaken:

- Tankpit (post UST removal) investigation works;
- Footprints validation sampling of the existing ASTs (in particular near SS6);
- Footprints validation sampling of site buildings (primarily to assess OCP concentrations);
- Potentially further groundwater assessment along the eastern boundary;
- If areas of buried poultry carcasses are encountered these should be further assessed (including screening for pathogens);
- Additional sampling (additional 60% for chemical analysis and 80% for asbestos assessment) recommended for a detailed contamination assessment;
- Removal of the UST and petroleum infrastructure and validation of the tankpit(s) and associated excavations in accordance with POEO UPSS Regulations 2019 and NSW EPA Guidelines for Implementing POEO UPSS Regulations 2020; and
- Hazardous building materials (HBM) survey on the existing buildings and subsequent appropriate removal of any identified HBM undertaken by a suitably qualified contractor prior to demolition works, with appropriate clearance certificates.

4.9 Pre Purchase Contamination Assessment and Review (JBS&G 2022)

JBS&G conducted a pre purchase contamination assessment and review on the central and eastern portion of the site, to present the primary contamination issues and risks at the site and assist with consideration of potential liabilities/management strategies prior to a future potential transaction and eventual development of the acquired land.

JBS&G reported that the known impacts requiring remediation were:

- Bonded ACM impacted stockpiles 2, 3, 6, 8, 15, 19 and 31, comprising a total volume of approximately 1,700 m^3;
- Trace friable asbestos and bonded ACM within stockpile 5 which has an approximate volume of 260 m^3. The stockpile could be disposed off-site to a licensed facility as General Solid Waste (GSW) mixed Special (asbestos). Alternatively, the materials could be contained on-site under a marker and capping layer (that comprises 0.5 m of clean capping material and/or hardstand);
- ACM on the ground surface and in fill material at test pit locations TP14, TP22, TP63, TP111, JACM1 and JACM2 associated with former buildings or former stockpiled material. It is noted that additional ACM is likely to be present on the ground surfaces / stockpiled soils at the site, given that long grass cover / vegetation precluded a thorough inspection of the ground surface during investigation activities. It is recommended that a thorough ground surface inspection be completed during future vegetation removal in order to avoid cross-contamination of asbestos / non-asbestos impacted soils in subsequent earthworks; and
- Elevated zinc and PAH (from previous investigations) concentrations within both stockpiled and in-situ soil samples not considered to pose an unacceptable risk under the proposed development scheme should the materials be retained in areas of low ecological significance (i.e. under future hardstand) or where imported soils are used for landscaped areas.

JBS&G also reported that perched groundwater was present at relatively shallow depths (<5.5 m) within natural silty clay soils / shale rock. If dewatering is proposed and off-site disposal of extracted water is necessary, such activities may require treatment (to remove suspended sediments, potentially pH adjustment and address heavy metals levels) prior to release to stormwater, if permitted by the consent authority.

4.10 Pre-Purchase Contamination Assessment and Review – Telstra Exchange Compound (JBS&G 2023)

JBS&G conducted a pre purchase contamination assessment and review on the Blacktown Lands and Telstra Exchange areas, to present the primary contamination issues and risks at the site and assist with consideration of potential liabilities/management strategies prior to a future potential transaction and eventual development of the acquired land.

JBS&G reported the following with respect to the Telstra Exchange area:

- The ground surfaces appeared to follow the natural topography, with no evidence of significant filling. Minor levelling with recycled aggregate materials was apparent underlying/surrounding the demountable structure.

  It was noted that no visible signs (fill point, UST dip point, vent pipe, etc,.) of the presence of underground storage tanks (USTs), that might be used as petroleum storage for backup generators (within Telstra exchange sites), were observed within the compound. No odours, staining or evidence of contamination was observed on the Telstra compound ground surface.

- A limited soil sampling investigation of in-situ materials at three locations (HA01, HA02, HA03) within the Telstra Exchange compound was completed.
- Representative soil samples were analysed for heavy metals, TRH/BTEX, OCPs, PCBs, PAHs and asbestos. All results were below the adopted criteria applicable to commercial / industrial land-use indicating that there were no impacts within this area that require remediation in order to make the site suitable for the proposed.

5. Preliminary Conceptual Site Model

5.1 Overview

ASC NEPM (2013) identifies a CSM as a representation of site related information regarding contamination sources, receptors and exposure pathways between those sources and receptors. The development of a CSM is an essential part of all site assessment and remediation reports.

ASC NEPM (2013) identified the essential elements of a CSM to include:

- Known and potential sources of contamination and contaminants of concern including the mechanism(s) of contamination;
- Potentially affected media (soil, groundwater, vapours etc.);
- Human and ecological receptors;
- Potential and complete exposure pathways; and
- Any potential preferential pathways for vapour migration (if potential for vapours identified).

5.2 Potential Areas of Environmental Concern

Based on the history review and observations made during the JBS&G inspection of the site, areas of environmental concern (AECs) have been identified and are presented in **Table 5.1**.

Table 5.1: Areas of Environmental Concern and Contaminants of Potential Concern

Area of Environmental Concern (AEC)	Primary Contaminants of Potential Concern (COPC)
Anthropogenic fill materials of unknown origin used to create existing/current site levels	Heavy metals, total recoverable hydrocarbons (TRH), benzene, toluene, ethylbenzene, xylenes (BTEX), polycyclic aromatic hydrocarbons (PAHs), organochlorine pesticides (OCPs), polychlorinated biphenyls (PCBs), per- and poly-fluoroalkyl substances (PFAS) and asbestos
Historical and current commercial / industrial activities (onsite storage of motor oils, fuels, car fluids, poultry operations)	Heavy metals, TRH, BTEX, PAHs, PCBs, OCPs and pathogens[17]
Former structures (refurbishment/demolition)	Asbestos, heavy metals (lead-based paint)
Historical use of the site for agricultural purposes	Heavy metals, OCPs, nutrients
Offsite sources (e.g current and former industry surrounding the site)	Heavy metals, TRH, BTEX, PAHs, PCBs and OCPs
Stockpiles of unknown origin present on site	Heavy metals, TRH, BTEX, PAHs, OCPs, PCBs and asbestos
Poultry burial	Hazardous ground gases and pathogens
Telstra exchange – potential emergency back-up generator (UST or AST) and associated fuel infrastructure	PAH, TRH, VOCs

5.3 Potentially Contaminated Media

Each of the AECs and corresponding COPCs identified in **Section 5.1** have the potential to impact soil, groundwater and/or soil gas (where volatile constituents are identified) underlying the site.

Where fill materials are present to depth, or soils have been disturbed, there is a likelihood that environmental impact may be present at depth, consistent with the depth of the disturbance. Anthropogenic materials are commonly present in impacted fill materials and can be used as an indication of the depth of disturbance. Where fill materials impacted with chemical based contaminants are identified, there is a likelihood the impact may have migrated laterally and vertically below the fill material.

[17] Pathogens may need to be considered in areas where poultry carcasses are buried (if encountered).

Impact to soil and groundwater may have occurred due to operation of the USTs, with potential accumulation of vapours below pavements.

With the exception of asbestos, each of the COPCs identified in **Table 5.1** for the site have the potential to migrate from shallow soils into groundwater.

5.4 Potential for Migration from Site

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

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

The COPCs identified as part of the site history review and site inspection are generally in solid form (e.g. asbestos, PAHs and metals), liquid form (e.g. TRH, BTEX, OCPs and PCBs) or gaseous form (e.g. BTEX, volatile TRH and semi-volatile PAHs).

Impacts such as metals or hydrocarbons may dissolve in water and migrate in surface water or vertically through the soil profile to underlying groundwater.

As the site is generally sealed or vegetated, the potential for windblown dust migration of contaminants from the site is generally low to moderate.

Rainfall infiltration at the site is expected to be significant and this indicates a potential for vertical contaminant migration through the surface soils. Groundwater impact is possible due to fill material and historical use of the site as grazing/market gardens, depot, poultry operations and car scrap yard/mechanic. Based on the proximity of regional hydrogeological information, there is the potential for shallow groundwater within the clay/shale formation. Hence, there is a potential migration pathway via groundwater flow.

5.5 Potential Human and Ecological Receptors and Exposure Pathways

A summary of potential human receptors and associated exposure pathways for the site, based on the range of exposure scenarios that may occur under the different potential land-uses of the site is presented in **Table 5.2**.

Table 5.2: Summary of Potential Human Exposures

Receptor	Location	Media	Potential Exposure Pathways
Commercial Worker (adult)	Commercial building	Soils	Inhalation (vapours) Oral and dermal in unpaved areas
		Groundwater	Inhalation (vapours)
		Vapour	Inhalation (vapours)
Construction worker or intrusive maintenance worker (short duration)	Construction areas/ Excavations	Soils	Inhalation (vapours and particulates) Oral Dermal
		Groundwater	Inhalation (vapours) Oral (infiltrating seepage water) Dermal (infiltrating seepage water)
		Vapour	Inhalation (vapours)

Potential ecological receptors within the assessment area include existing and/or future flora and fauna species established within open spaces, as well as the creek running through the centre of the site. Off-site ecological receptors may potentially be impacted by surface water and windblown dusts discharged from the site.

Possible off-site ecological receptors are limited to potential impacts associated with groundwater (if present) migrating from the site into Blacktown Creek.

5.6 Preferential Pathways

For the purpose of this assessment, preferential pathways have been identified as natural and/or man-made pathways that result in the preferential migration of COPCs as either liquid or gas.

Man-made preferential pathways at the site are limited to fill materials in which it is anticipated that the materials will have a higher permeability than natural soils, where present. In addition, sub-surface services are known and/or anticipated to occur in the vicinity of the site. Generally higher permeability backfill, or the reduced compaction requirements overlying these services result in the services trenches becoming preferential pathways for contaminant migration.

Where environmental impact (particularly in liquid or gaseous form) is observed within fill materials, further consideration to the potential migration of these impacts will be required.

6. Data Quality Objectives

6.1 Data Quality Objectives

Data Quality Objectives (DQOs) were established for the assessment, as discussed in the following sections.

6.1.1 State the Problem

The client is proposing to develop the site, the DSI will assist with the preparation of an EIS, a requirement of a SSD application. Additional site investigation works were required to assess the site conditions in relation to future commercial/industrial land use, including the identification of site management/remediation requirements to support development of the site.

A review of the site history, observations made by JBS&G during the site inspection and a preliminary CSM (**Section 5**) have identified a number of AECs that require assessment in order to assess the suitability of the site for the proposed land-use.

6.1.2 Identify the Decision

The decisions required to be made for the investigation are:

- Are there any unacceptable risks to likely future onsite receptors from soils?
- Are there any issues relating to local area background soil concentrations that exceed the appropriate soil criteria?
- Are there any unacceptable human health and ecological risks present in groundwater underlying the site?
- Are there any potential vapours present within the sub-surface that could present an unacceptable risk to future site receptors?
- Are there any impacts of chemical mixtures?
- Are there any aesthetic issues at the site?
- Is there any evidence of, or potential for, migration of contaminants from the site?
- Is a site management strategy required?

6.1.3 Identify Inputs to the Decision

The following inputs are required in order to make the stated decisions:

- A review of historical information and analytical data from the site;
- A detailed site inspection;
- Soil sampling from soil bores to assess for the presence of potential chemical COPCs and asbestos;
- Installation, sampling and analysis of groundwater monitoring wells within the site;
- Field parameters as measured utilising calibrated equipment during the intrusive investigation including assessment of soil sample headspace, physicochemical parameters of groundwater and soil vapour parameters;
- Installation, sampling and analysis of sub-slab vapour probes within the site;
- Laboratory analysis data for COPCs;
- Site assessment criteria for potentially impacted media for COPCs as appropriate to the proposed future land use; and

- Confirmation that data generated by sampling and analysis are of an acceptable quality to allow reliable comparison by assessment of quality assurance / quality control as per the data quality indicators established in **Section 6.1.6**.

6.1.4 Define the Study Boundaries

The study boundaries have been defined laterally as various lots and DPs as defined in **Table 2.1** and **Figure 2**. The vertical extent of the previous assessments was to a maximum depth of 11.0 m bgs, the depth of the deepest borehole completed for the investigations.

Due to the nature of the potential contamination identified, seasonality was considered to not be significant with respect to assessing risks to future site receptors.

6.1.5 Develop a Decision Rule

The decision rules adopted to answer the decisions identified in **Section 6.1.2** are summarised in **Table 6.1**.

Table 6.1: Summary of Decision Rules

Decision Required to be Made	Decision Rule
1. Are there any unacceptable risks to likely future onsite receptors from soils?	Soil analytical data was compared against EPA endorsed criteria. Statistical analyses of the data in accordance with relevant guidance documents was undertaken where appropriate, to facilitate the decisions. The following statistical criteria were adopted with respect to soils: Either: the reported concentrations were all below the site criteria; Or: the 95% upper confidence limit (UCL) of the average concentration for each analyte was below the adopted site criterion; no single analyte concentration exceeded 250% of the adopted site criterion; and the standard deviation of the results was less than 50% of the site criterion. If the statistical criteria stated above were satisfied, the answer to the decision was No. If the statistical criteria were not satisfied, the answer to the decision was Yes.
2. Are there any issues relating to local area background soil concentrations that exceed the appropriate soil criteria?	If the 95% UCL of natural soils exceeded published background concentrations (NEPC 2013), the answer to the decision was Yes. Otherwise the answer to the decision was No.
3. Are there any unacceptable human health and ecological risks present in groundwater underlying the site?	Groundwater analytical data were compared against EPA endorsed criteria and reported background concentrations. If the concentrations of COPCs were below adopted criteria, the decision was No. If the concentrations of COPCs exceeded adopted criteria, the decision was Yes and further assessment of the potential risk may be required.
4. Are there any potential vapours present within the sub-surface that could present an unacceptable risk to future site receptors?	Are site-related contaminants present in soil vapour at concentrations exceeding levels found to pose a potential health risk? If the answer is Yes, then further assessment of contaminant levels in indoor air will be required to properly assess whether an unacceptable health risk is present – should contaminant levels within indoor air exceed levels found to pose a risk the decision was Yes. Otherwise, the answer to the decision was No.
5. Are there any impacts of chemical mixtures?	Are there more than one group of contaminants present which increase the risk of harm? If there is, the answer to the decision was Yes. Otherwise, the answer to the decision was No.
6. Are there any aesthetic issues at the site?	If there are any ACM fragments on the ground surface, any unacceptable odours or soil discolouration, the answer to the decision was Yes. Otherwise, the answer to the decision was No.

Decision Required to be Made	Decision Rule
7. Is there any evidence of, or potential for, migration of contaminants from the site?	Is impacted groundwater potentially migrating from site? If yes, the decision was Yes. Otherwise, the decision was No.
8. Is a site management strategy required?	Is the answer to any of the above decisions (1-7) Yes? If yes, further assessment and/or a site management strategy will be required to address unacceptable contamination concerns at the site, to make the site suitable for future proposed uses. If no, further assessment and/or a site management strategy is not required and the site is considered suitable, from a contamination view point for the proposed use.

6.1.6 Specify the Limits on Decision Error

This step is to establish the decision maker's tolerable limits on decision errors, which are used to establish performance goals for limiting uncertainty in the data. Data generated during this project must be appropriate to allow decisions to be made with confidence.

Specific limits for this project have been adopted in accordance with the appropriate guidance from the NSW EPA and NEPC 2013, appropriate indicators of data quality (DQIs used to assess quality assurance / quality control) and standard JBS&G procedures for field sampling and handling.

To assess the usability of the data prior to making decisions, the data was assessed against pre-determined Data Quality Indicators (DQIs) established for the project as discussed below in relation to precision, accuracy, representativeness, comparability and completeness (PARCC parameters). The acceptable limit on decision error is 95% compliance with DQIs.

The DQIs and data assessment criteria are summarised as presented in **Table 6.2**.

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

Table 6.2: Summary of DQIs

Data Quality Objectives	Frequency	Data Quality Indicator
Precision		
Blind duplicates (intra laboratory)	1 / 20 samples	<50% relative percent difference (RPD)[1]
Blind duplicates (inter laboratory)	1 / 20 samples	<50% RPD
Accuracy		
Surrogate spikes	All organic samples	70-130%
Laboratory control samples	1 per lab batch	70-130%
Matrix spikes	1 per lab batch	70-130%
Representativeness		
Sampling appropriate for media and analytes		-[2]
Samples extracted and analysed within holding times.	-	Soil and Groundwater Organics (7-14 days), inorganics (6 months), PFAS (14 days)
Trip spike (BTEX only)	1 per sampling event	70-130% recovery
Rinsate	1 per sampling event	<LOR
Method blank	1 per lab batch	<LOR
Comparability		
Standard operating procedures for sample collection & handling	All Samples	All samples
Standard analytical methods used for all analyses	All Samples	NATA accredited methods
Consistent field conditions, sampling staff and laboratory analysis	All Samples	All samples[2]
Limits of reporting appropriate and consistent	All Samples	All samples[2]
Completeness		
Sample description and COCs completed and appropriate	All Samples	All samples[2]
Appropriate documentation	All Samples	All samples[2]
Satisfactory frequency and result for QC samples	All QA/QC samples	95% compliance
Data from critical samples is considered valid	-	Critical samples valid
Sensitivity		
Analytical methods and limits of recovery appropriate for media and adopted Site assessment criteria	All samples	LOR ≤ site assessment criteria

[1] If the RPD between duplicates is greater than the pre-determined data quality indicator, a judgment will be made as to whether the excess is critical in relation to the validation of the data set or unacceptable sampling error is occurring in the field.

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

6.1.7 Optimise the Design for Obtaining the Data

The purpose of this step is to identify a resource-effective field investigation sampling design that generates data that are expected to satisfy the criteria specified in the preceding steps of the DQO process. This step provides a general description of the activities necessary to generate and select data collection designs that satisfy decision performance criteria.

Based on the objectives of the assessment, the following investigation approach was adopted:

- A soil sampling program was completed within accessible areas of the western portion of the site that included sampling soil from shallow soil bores and bores advanced to install groundwater monitoring wells. **Figure 5D** presents the sampling locations. Sampling density was in accordance with *Contaminated Sites: Sampling Design Guidelines* (EPA 1995).
- The investigation was designed to target the AECs (based on the desktop review) – including areas near site boundaries, downgradient from buildings and within vicinity of USTs/ASTs.
- The primary objective of the groundwater assessment was to assess site related contaminants in groundwater and the risks to current on-site receptors as well as the

potential for impacted groundwater migrating onto the site or away from the site (if any) and presenting an un-acceptable risk to on-site or off-site receptors.

- A targeted sub-slab vapour assessment was undertaken within the building footprint / sealed areas of the site in order to evaluate the potential risks to future occupants of buildings from potential volatile COPC sources within the subsurface, including potential sources within fill/soil and near site infrastructure such as petroleum storage tanks.
- Review of previous investigation data set in the central and eastern portion of the site, was undertaken as part of this assessment. The investigation works in the central and eastern portion of the site have adequately assessed the area, and no significant data gaps were identified. The data from these previous investigations was considered with the additional data collected here to characterise the extent of the site.

6.2 Assessment Methodology

6.2.1 Soil Assessment

Soil samples were generally collected via hand auger and push tube / solid flight auger using a Geoprobe track mounted drill rig and excavator at the nominated locations across at the western portion of the site. Use of the solid flight auger and excavator for testpits through fill allowed collection of sufficient sample volume (500 mL) for asbestos analysis (the methodology employed for asbestos quantification is discussed below).

Soil samples (for chemical constituents) were collected from the surface, then generally at 0.5-1.0 m intervals to a maximum depth of 11.0 m or at least 0.3 m into natural materials (or prior refusal), whichever was shallower. During the collection of soil samples, features such as seepage, discolouration, staining, odours and other indicators of contamination were noted.

Soil samples were screened on site during works using a photo-ionisation detector (PID) to assess the presence of volatile organic compounds (VOCs) including petroleum hydrocarbons. Collected samples were immediately transferred to laboratory supplied sample jars or 500 mL plastic bags for asbestos, where required. The sample jars/bags were then transferred to a chilled ice box for sample preservation prior to and during shipment to the testing laboratory. A chain-of-custody form was completed and forwarded with the samples to the testing laboratory.

Duplicate soil samples were collected at a rate of one per 20 primary samples. Duplicate samples were collected for QA/QC purposes from the push tube by taking discrete soil samples and placing directly into the sample jars. To minimise the potential for loss of volatiles, samples were not mixed prior to placement into the jars. Similarly, where 500 mL samples were required for duplicate asbestos analysis, no mixing of material was undertaken prior to placement into plastic bags to prevent the loss of free fibres. It is noted that this methodology may result in the calculation of poor RPDs but this is considered acceptable given that the loss of volatiles/fibres that may occur if samples are mixed would result in the reporting of lower contaminant concentrations than actually present. Rinsate blanks (for non-dedicated equipment) were collected with each batch of samples, and best practice methods were employed to minimise cross-contamination and loss of volatiles.

All non-disposable sampling equipment, including augers, were cleaned to remove all dirt and debris, and rinsed with potable water. The equipment was then inspected to ensure that no soil, oil, debris or other contaminants were apparent on the equipment prior to the commencement of works. Sampling equipment was subsequently decontaminated using the above process between each location.

Not all soil samples collected were analysed. Soil samples were analysed in accordance with the sampling and analytical programs in each report.

Asbestos Quantification

Soil sampling locations to facilitate asbestos quantification were completed in general accordance with the procedures included in NEPC (2013) as derived from DOH (2021[18]) in which it is noted that approximately 10 L samples was inspected for the presence of asbestos.

The asbestos quantification works were completed via the excavation of boreholes/testpits as described previously. The boreholes/testpits were advanced in one metre increments until natural soils were identified at the sampling location (to the nominated maximum depth). Generally, each 1 m increment was treated as a discrete sample.

At each sampling location, material from each increment was collected on a separate plastic sheet that is distinctly different to the soil colour and spread out of inspection. Any obvious ACM fragments were placed in a dedicated laboratory supplied polyethylene ziplock sample bag labelled with the sampling location, depth increment, samplers name and sampling date. For coarse grained material (ie. Sand, gravels, etc), the 10 L of material was then passed through a 7 mm sieve in the field. The material captured on the sieve was then hand sorted and any further collected ACM fragments were placed in the sample bag.

A representative 500 mL volume sample of material that passes through the 7 mm sieve was then collected and placed in a separate dedicated laboratory supplied polyethylene ziplock sample bag, labelled as a soil sample.

6.2.2 Groundwater Assessment

A groundwater assessment was conducted in the western portion of the site to assess the potential for groundwater to be impacted by site-related contaminants and the potential for contaminants to migrate on and off-site. The monitoring locations are presented on **Figure 5D.**

Groundwater Monitoring Well Installation

Soil bores were advanced to the nominated depth using solid flight augers. Boreholes were advanced to the target depth based on conditions encountered (lithology/geology conditions encountered) during drilling. The wells were constructed in accordance with relevant NSW EPA endorsed guidance such as National Uniform Drillers Licensing Committee, 2012, *Minimum Construction Requirements for Water Bores in Australia*, and Victoria EPA, 2022, *Publication 669 Groundwater Sampling Guidelines*.

Monitoring wells were constructed using Class 18 uPVC (50mm) screw jointed screen and casing. A screened interval was used in the construction of each monitoring well. A gravel filter pack was placed slightly above the screened interval with 0.5 m bentonite seal above. The remaining bore annulus was backfilled with clean soil cuttings to the ground surface. The wells were finished with a lockable cap and flush-mounted gatic cover (MW03 and MW04) or stand up pipe (MW01 and MW02).

Well Development

Subsequent to well construction, each newly installed monitoring well was thoroughly developed to remove fines, settle the filter pack and to ensure representative groundwater samples could be collected. Well development was undertaken manually using high density polyethylene (HDPE) tubing with a fixed footvalve, the bores were rapidly purged and then allowed to recharge. This process was repeated three to four times during the development of the wells.

[18] *Guidelines for the Assessment Remediation and Management of Asbestos Contaminated Sites in Western Australia*. 2021, Western Australia Depart of Health (WA DOH) (DOH 2021)

Groundwater Sampling

Monitoring wells were sampled 24 hours following well development.

The depth to standing water was gauged and an assessment of the presence of light non-aqueous phase liquids/dense non-aqueous phase liquids (LNAPL/DNAPL) was made using an oil/water interface probe.

Subsequent to groundwater gauging, the following methodology was adopted for the collection of samples:

- Before and between sampling each well, the interface probe and all other non-disposable equipment was decontaminated in line with project/PFAS specific wash-down procedures, Decon 90 was not used, the wash-down involved the use of PFAS free products such as Liquinox.
- The wells were purged and sampled using a low-flow methodology with HDPE tubing. Purging was undertaken to ensure the sample collected is representative of groundwater conditions. Field parameters of pH, conductivity, redox, TDS and temperature were measured with field electrodes in a flow cell and samples obtained once the parameters stabilised such that:
    - Consecutive EC readings are within 3 %;
    - Consecutive redox readings are within 10 mV;
    - Consecutive DO readings are within 10 %; and
    - Consecutive pH readings are within 0.05.

JBS&G utilised a low-flow peristaltic pump with dedicated HDPE tubing to purge and sample wells. A 35insate was undertaken on the HDPE tubing and silicon tubing. JBS&G considers that this method is appropriate and does not result in measurable loss of VOCs and provides a significantly lower risk of cross-contamination between locations.

Collected groundwater samples were immediately transferred to laboratory supplied sample bottles in the order of most-volatile to least volatile contaminants. Field filtering using a 0.45 µm filter was undertaken for metals/metalloid samples. The sample containers were then transferred to a chilled iced box for sample preservation prior to and during shipment to the testing laboratory. A chain-of-custody form was completed and forwarded with the samples. Samples were analysed at a NATA accredited laboratory in accordance with the schedule presented in **Table 5.3.**

A record of gauging data, sample observations (including colour, odour, turbidity and presence of LNAPL, DNAPL, sheens) and sampling method details were recorded.

Blind and split duplicate groundwater samples were collected, along with a 35insate blank and a field blank. Best practice field methods were undertaken to avoid cross-contamination or loss of volatiles from samples.

6.2.3 Sub-Slab Vapour Assessment

A targeted sub-slab vapour assessment was undertaken within accessible areas of the site. A total of seven sub-slab vapour locations (SV1 to SV7) were completed as shown on **Figure 5D**.

Sub-Slab Vapour Probe Installation

The following methodology was adopted for the installation of sub-slab vapour probes installed across the extent of the site in hardstand areas:

- A 16 mm diameter hole was drilled through the concrete slab at each of the locations, whereby the encountered slab thickness was typically 150-300 mm; and
- Installation of a VaporPin metallic probe following the manufacturer's instructions, which briefly comprised hammering the probe with silicone sleeve (to ensure air-tight seal) into the drilled hole to a depth of the encountered slab thickness.

Sub-slab Sampling and Analysis

The following methodology was adopted to sample the installed sub-slab vapour probes:

- A GFM 435 gas detector was used to purge each probe for a period of approximately 2 minutes. Gas readings were monitored until parameters [oxygen, carbon dioxide, photo-ionisation detector (PID), methane, lower explosive limit (LEL)] readings had stabilised;
- Following this, a leak detection evaluation was completed via placement of an isopropyl alcohol soaked rag within an air tight box containing the sample train located on top of the probe. Elevated PID readings (in excess of previously established and stabile PID recordings) on the gas detector was assumed to indicate a leaking probe. Any leaking probes were required to be re-installed and re-checked prior to sampling using the same method;
- Following preliminary confirmation of the absence of any significant leaks, the sub-slab vapour samples were collected onto SKC-anasorb carbon tubes. An isopropyl alcohol saturated rag was maintained in an air tight box (sealed container containing sample train) throughout purging and sampling for laboratory confirmation of potential leaks. A shroud was used in the chamber to maintain an isopropyl alcohol rich atmosphere over the sampling location. At each sampled location, a 7L volume was collected using a calibrated pump at a flow rate of 200 mL/min onto a carbon tube; and
- Following sample collection, the carbon tubes were removed and capped and stored in a cool dry and dark container that excludes light, prior to analysis in accordance with the laboratory schedule in **Table 6.3**.

6.3 Analytical Methodology

JBS&G contracted Eurofins Environment Testing (Eurofins) as the primary laboratory and Envirolab Services (Envirolab) as the secondary laboratory. All laboratories are NATA registered for the required analyses. In addition, the laboratories are required to meet JBS&G's internal QA/QC requirements.

Table 6.3: Analytical Schedule

Sample Type	No. of Sampling Locations	Analyses (exc. QA/QC)
Soil	35 soil locations • 21 Soil Bores • 10 Testpits • 4 Monitoring wells	Heavy metals – 39 samples TRH / BTEX – 27 samples PAHs – 29 samples OCPs/PCBs – 10 samples PFAS – 5 samples Asbestos – 37 samples
Groundwater	9 groundwater monitoring wells (4 newly installed MW01 to MW04 and 5 existing MWA to MWE)	Heavy metals – 9 samples PAHs (low level) – 9 samples VOCs – 9 samples TRH / BTEX – 9 samples PFAS – 9 samples
Sub-slab/soil vapour	7 soil vapour sub-slab locations	VOC 8260 – 5 samples TRH – 5 samples Isopropanol (tracer) – 5 samples Field monitoring of methane, LEL, PID, carbon dioxide and oxygen – 7 samples

7. Assessment Criteria

A summary of the assessment criteria are provided in **Tables A** and **C** (Soil Assessment Results), **Table B** (Asbestos Quantification Results), **Table D** (Groundwater Assessment Parameters), **Tables E** and **F** (Groundwater Assessment Results), **Table G** (Soil Vapour Assessment Parameters), and **Table H** (Soil Vapour Assessment Results).

7.1 Regulatory Guidelines

The investigation was undertaken with consideration to aspects of the following guidelines, as relevant:

- *National Environment Protection (Assessment of Site Contamination) Amendment Measure 2013 (No. 1)*, National Environment Protection Council (NEPC 2013);
- *Contaminated Land Management: Guidelines for the NSW Site Auditor Scheme*, 3rd Edition. NSW EPA, 2017 (EPA 2017);
- *Contaminated Sites: Sampling Design Guidelines*, NSW EPA, 1995 (EPA 1995);
- Consultants Reporting on Contaminated Land, Contaminated Land Guidelines, NSW EPA, May 2020 (EPA 2020a);
- Assessment and Management of Hazardous Ground Gases, Contaminated Land Guidelines, NSW EPA, May 2020 (EPA 2020b);
- CRCCARE Health Screening Levels for Petroleum Hydrocarbons in Soil and Groundwater, 2011, Friebel and Nadebaum (CRCCARE 2011);
- Contaminated Sites: Guidelines on Duty to Report Contamination under the Contaminated Land Management Act 1997, NSW EPA, September 2015 (EPA 2015);
- Australian and New Zealand Guidelines for Fresh and Marine Quality, Australian and New Zealand and Australian State and Territory Governments, August 2018 (ANZG 2018);
- Guidelines for the Assessment Remediation and Management of Asbestos-Contaminated Sites in Western Australia, Western Australia Department of Health (DOH), May 2009, (DOH 2009); and
- PFAS National Environmental Management Plan Version 2.0. The Heads of EPAs Australia and New Zealand, January 2020 (HEPA 2020).

Based on the land use across the assessment area, including commercial/industrial. Concentrations of contaminants in soil, water, and soil vapour were compared against published levels sourced from the following:

- Soil HILs– NEPC 2013, HIL D;
- Soil HSLs for vapour intrusion, clay and sand (dominant soil category (CRC Care, 2011[19])) at various depths – NEPC 2013, HSL D;
- Soil ESLs, coarse and fine grained for commercial / industrial land use – NEPC 2013;
- Soil EILs, for commercial / industrial land use (site specific- WSP 2020b) – NEPC 2013;
- CRC CARE (2017[20]) ESL Guidance for B(a)P: Commercial/Industrial;

[19] *CRC Care Technical Report No. 10, Health screening levels for petroleum hydrocarbons in soil and groundwater Part 2: Application document*. September 2011, E. Friebel and P. Nadebaum (CRC Care 2011)

[20] 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)

- Vapour Intrusion HSL D Commercial / Industrial at various depths – CRC Care 2011;
- Management limits Commercial / Industrial, coarse and fine grained – NEPC 2013;
- HSL for Asbestos in Soil Commercial / Industrial – NEPC 2013;
- PFAS Health and Ecological Commercial / Industrial – NEMP 2020;
- ANZG (2018) for freshwater (95%);
- GILs for drinking water and recreational – NEPC 2013;
- Groundwater HSLs for vapour intrusion, clay and sand at various depths – NEPC 2013, HSL D;
- PFAS Health Drinking Water and Recreational Water – NEMP 2020;
- PFAS freshwater 95% - NEMP 2020;
- Soil Vapour HSLs for vapour intrusion, sand (dominant soil category (CRC Care, 2011[21])) at 0 to <1 m – NEPC 2013, HSL D; and
- Interim soil vapour health investigation levels for volatile organic chlorinated compounds – NEPM 2013, HIL D.

CRC CARE (2017) provides alternative ESLs for B(a)P than those provided in NEPC (2013). The alternative ESLs are based on higher reliability, species sensitivity distribution data than was used to calculate the ESLs provided in NEPC (2013). CRC CARE (2017) provides an alternative ESLs for B(a)P for commercial/industrial use 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 ESL for the site.

As discussed in WSP (2020b), NEPM (2013) does not provide any guideline values for assessment of nutrient loading in soils. As such, for preliminary screening purposes, the Kansas Department of Health and Environment (2002) criteria for total nitrate of 40 mg/kg at 200 mm depth and below, and 85 mg/kg in the upper 200 mm have been adopted for this assessment.

Where additional VOCs and / or other volatile constituents were reported during the sampling works which are not included in the abovementioned sources, levels were compared against reference concentrations in Vapour Intrusion: Technical Practice Note (NSW EPA, 2010) or Regional Screening Levels (RSLs) for Commercial Air, US EPA, May 2020 (USEPA 2020).

Where there are no NSW EPA or US EPA endorsed thresholds, the laboratory limit of detection has been adopted as an initial screening value for the purposes of this assessment.

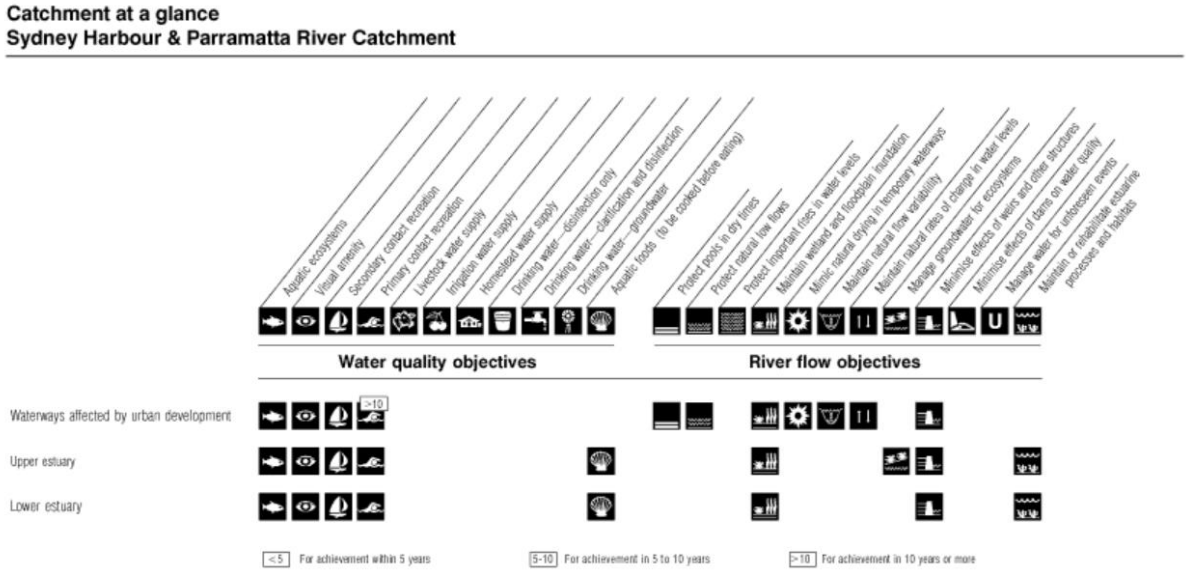
Consideration was also given to aesthetic aspects, consistent with EPA 2017 and NEPC 2013 guidance.

Blacktown Creek is part of the Sydney Harbour and Parramatta River catchment. Blacktown Creek is a highly disturbed urban drainage channel (pursuant to definitions provided in *Australia and New Zealand Guidelines for Fresh and Marine Water Quality* (ANZG 2018)), which has been significantly altered. The freshwater stream is considered to likely receive road and stormwater runoff from surrounding land uses, which comprise a combination of commercial/industrial, agricultural and urban/residential activities.

[21] *CRC Care Technical Report No. 10, Health screening levels for petroleum hydrocarbons in soil and groundwater Part 2: Application document*. September 2011, E. Friebel and P. Nadebaum (CRC Care 2011)

Blacktown Creek would be classified as a waterway affected by urban development. By review of the water quality objectives, summarised following, the following potential uses require to be protected:

- Aquatic ecosystems;
- Visual amenity;
- Secondary contact recreation; and
- Primary contact recreation (within 10 years).



As discussed in WSP (2020b), the expected receiving water, Blacktown Creek, is an urbanised, ephemeral waterway that has been hydraulically engineered with concrete lining, straightening, and culverted sections; and it is unlikely that the watercourse will be returned to a less disturbed state in the short to medium term, concentrations of heavy metals have been assessed against the DGVs for 95%species protection for freshwater ecosystems, as presented in ANZG (2018).

Consistent with WSP (2020b), GILs for drinking water, as presented in NEPC (2013) were included for the assessment. However, GILs for drinking water were not considered applicable to the investigation outlined herein due to the lack of beneficial re-use as potable water and/or re-use under the proposed redevelopment, and consistent with the water quality objectives for the catchment.

8. Quality Assurance /Quality Control

The results of the laboratory and JBS&G's quality assurance/quality control (QA/QC) program has been assessed and it is considered that the analytical data is of an acceptable quality for the purposes of this environmental assessment. Detailed QA/QC results are included in the laboratory reports in **Appendix H.**

Analysis of the Quality Analysis / Quality Control (QA/QC) has been undertaken for the analytical results as summarised in the following **Table 8.1** and discussed following.

Table 8.1: Summary of Quality Assurance / Quality Control Assessment

Data Quality Indicator	Frequency	Results Reported	DQI met
Precision			
Blind duplicates	Heavy metals – 2/39 primary samples (soil) TRH / BTEX – 2/27 primary samples (soil) PAHs – 2/29 primary samples (soil) OCPs/PCBs – 1/10 primary samples (soil) PFAS – 1/5 primary samples (soil) Asbestos – 0/37 primary samples (soil)	0-167 % RPD (soil)	See discussion below
	1/9 primary samples (water)	0-161 % RPD (water)	See discussion below
	1/5 primary samples (vapour)	0-33 % RPD (vapour)	Yes
Split duplicates	Heavy metals – 2/39 primary samples (soil) TRH / BTEX – 2/27 primary samples (soil) PAHs – 2/29 primary samples (soil) OCPs/PCBs – 1/10 primary samples (soil) PFAS – 1/5 primary samples (soil) Asbestos – 0/37 primary samples (soil)	0-164 % RPD (soil)	See discussion below
	1/9 primary samples (water)	0-169 % RPD (water)	See discussion below
	0/5 primary samples (vapour)	-	See discussion below
Laboratory duplicates	14/42 primary samples (soil) 7/9 primary samples (water) 0/5 primary samples (vapour)	0-98 % RPD (soil) 0-10 % RPD (water) -	See discussion below
Accuracy			
Surrogate spikes	All samples for organic constituent analysis	52-184 % recovery, 'INT' was reported for several recoveries (soil) 47-188 % recovery 'INT' was reported for several recoveries (water) 70-101 % recovery (vapour)	See discussion below
Laboratory control samples	8/42 primary samples (soil) 10/9 primary samples (water) 2/5 primary samples (vapour)	70-130 % recovery (soil) 76-129 % recovery (water) 82-117 % recovery (vapour)	Yes
Matrix spikes	8/42 primary samples (soil) 5/9 primary samples (water) 0/5 primary samples (vapour)	70-122 % recovery (soil) 82-118 % recovery (water) -	See discussion below
Representativeness			
Sampling appropriate for media and analytes	All media	All sampling appropriate	Yes
Samples extracted and analysed within holding times.	Various	All samples extracted and analysed within holding times	Yes
Method blank	All analytes	<LOR	Yes
Trip blank Trip Spike	1/sampling event 1/sampling event	<LOR 88-98 %	Yes
Rinsate Field Blank	4/sampling event (soil/water) 1/sampling event (vapour)	Trace level (soil/water) <LOR (vapour)	See discussion below

Data Quality Indicator	Frequency	Results Reported	DQI met
Comparability			
Standard operating procedures for sample collection & handling	All samples	Standard procedures for all sampling	Yes
Standard analytical methods used for all analyses	All samples	Standard analytical methods	Yes
Consistent field conditions, sampling staff and laboratory analysis	All works	Consistent field staff and consistent field and laboratory conditions	Yes
Limits of reporting appropriate and consistent	All samples	LORs appropriate and generally consistent	Yes
Completeness			
Sample description and COCs completed and appropriate	All samples	Field documentation and COC provided and completed	Yes
Appropriate documentation	All works	Documentation provided and completed	Yes
Satisfactory frequency and result for QC samples	All samples	See discussion below	Yes
Data from critical samples is considered valid	-	Critical samples valid	Yes
Sensitivity			
Analytical methods and limits of recovery appropriate for media and adopted Site assessment criteria	All samples	LOR ≤ site assessment criteria	Yes

8.1 Discussion of QA/QC Results

The results of QA/QC samples outside the acceptance criteria are discussed below.

8.1.1 Precision

Soil Duplicates

Soil blind and split duplicates were collected at a rate of greater than 1 per 20 primary samples. The resultant RPDs were all within the preferred range, with the exception of several heavy metal, TRH and PAH compounds. The variations between the primary and duplicate samples are likely due to the difficulty in obtaining homogeneous undisturbed soil samples. Notwithstanding, the data was considered suitable for comparison against screening level criteria, and as a conservative measure, the highest reported concentrations will be considered when interpreting results.

Groundwater Duplicates

Groundwater blind and split duplicates were collected at a rate of greater than 1 per 20 primary samples. The resultant RPDs were all within the preferred range, with the exception of several heavy metal, TRH and VOC compounds. The variations between the primary and duplicate samples are likely to be due to the reported concentrations been close to the laboratory limit of reporting (LOR) and are therefore no considered to affect the precision of the dataset. As a conservative measure, the highest values have been considered in the interpretation of data from this field program.

Soil Vapour Duplicates

Analysis of blind duplicate vapour sample met the required analysis frequency and all RPDs were within the preferred range. A split duplicate vapour sample was not undertaken due to the different methods adopted by other laboratories.

8.1.2 Accuracy

Surrogate Spikes

Soil and groundwater surrogate spikes were conducted on all samples submitted for organic constituent analysis and most recoveries were reported within the preferred range (70-130 %). A small number of surrogates were reported outside the preferred range, but within the laboratories acceptable limits (typically between 50 and 150 %) under their NATA accreditation. In addition, where an individual surrogate recovery was outside the preferred range – the alternate surrogate (for each class of compounds) within the primary sample was within the preferred range.

Several recoveries reported 'INT', the laboratory outlined this interference as "the surrogate recovery was outside the recommended acceptance criteria due to chromatographic matrix interference".

Elevated surrogate recoveries indicate the reported concentrations may potentially be greater than the actual concentrations, while low surrogate recoveries indicate the reported concentrations may potentially be less than the actual concentrations. Taking this into account, it is considered that samples with slightly elevated or lower surrogate recoveries do not affect the reliability of the data for this investigation noting that the concentration of contaminants in the primary samples analysed were largely well below the adopted site assessment criteria.

The number of surrogate spikes undertaken for COCPs met the DQI frequency for the soil vapour samples. All reported surrogate recoveries were within the NATA accredited acceptable limits and JBS&G DQI preferred range.

Matrix Spikes

The number of matrix spikes analysed exceeded the required frequency of 1 in 20 samples for soil and groundwater analysis. The reported matrix spike recoveries were all within JBS&G's preferred range (70-130 %).

No matrix spikes were analysed for soil vapour samples, however this is not considered to affect the accuracy of the dataset.

Laboratory Control Samples

A sufficient number of laboratory control samples were analysed for all media types. The reported laboratory control sample recoveries were largely within the JBS&G preferred range (70-130 %).

8.1.3 Representativeness

Sampling appropriate for media and analytes

All soil, groundwater and soil vapour sampling works completed during the investigation were conducted in accordance with JBS&G standard operating procedures.

Laboratory Blanks

All concentrations of contaminant compounds were reported below the laboratory LOR in the laboratory method blanks.

Holding Times

The extraction and analysis for all soil, groundwater and soil vapour samples were completed within the recommended holding times for all analytes.

Trip Spike and Blank

Spike and blank samples were submitted for analysis with each lab batch and recorded within acceptable limits.

All trip spike concentrations were within the JBS&G DQI range, and the tip blank concentrations were below LOR. Samples were received by the laboratory in a chilled condition and were immediately transferred to chilled containers in the field. All measures were taken to eliminate the potential for loss of volatile contaminants by appropriately experienced field personnel.

A field blank was submitted by purging 7 L of ambient air during soil vapour sampling, and each COPC reported non-detect concentrations. A field blank was included during the groundwater assessment for PFAS. Both field blanks were reported below LOR.

Rinsates

Five rinsates were obtained during the sampling works, with all concentrations reported below LOR, with the exception of one trace levels, which are not considered to affect the representativeness. Best practice field decontamination methods were adopted where reusable equipment was used.

Leak Detection

Leak detection was conducted on all sub-slab probes during soil vapour sampling activities by firstly purging each probe with the gas detector. Following this an isopropyl soaked alcohol rag was placed around the base of each probe. PID readings were monitored and recorded. No significant leaks were identified by the PID during sampling as further evidenced by the lowest possible detection limits being achieved and the absence in the laboratory analysis results of any significant levels of 2-propanol.

8.1.4 Comparability

Eurofins (primary laboratory) and Envirolab (secondary laboratory) were NATA accredited for comparable methods of analysis. Field works have been undertaken by a team of experienced samplers in accordance with the same standard operating procedure. All field documentation was appropriately completed.

8.1.5 Completeness

Documentation

All documentation is complete and correct.

Frequency for QC Samples

Frequency of analysis for the QC samples is considered sufficient to meet the objectives of the assessment.

8.2 QA/QC Assessment

The field sampling and handling procedures produced QA/QC results which indicate that the soil, groundwater and soil vapour data are of an acceptable quality and suitable for use in site characterisation.

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

On the basis of the results of the field and laboratory QA/QC program, the data is of an acceptable quality in order to achieve the objectives of the assessment.

QA/QC programs from previous reports by JBS (2010a), WSP (2020a), DP (2021) and JBS&G (2022) were found to be sufficient to confirm data reliability.

9. Soil Assessment – Western Portion

The lithology encountered at the site during the field works is summarised below. Borehole logs are included in **Appendix K**.

9.1 Field Observations

The western portion of the site generally had areas within unsealed surface, with some operational areas surfaced in concrete (approximately 0.15 – 0.18 m thick). Fill material comprised of a range of silt, gravel and clay, Brown / red / yellow / grey / orange, with inclusions of gravel, metal, sandstone, shale, brick, ash, tiles, ceramics, concrete, plastic, slag, burnt timber, glass and asphalt. Natural material comprised of brown / grey / red / orange clay / silty clay, followed by weathered shale / shale.

Asbestos fragments were observed across the ground surface within Lot 183 DP 8716.

PID readings ranged from 0.1 to 15.3 ppm. Green staining was observed in locations SB01 at 0.7-0.8 m depth, SB02 from 0.7 to 2.0 m depth and black staining was observed at SB21 0.1-0.2. Organic/rotting odours were observed at SB01_0.3-0.4 and TP07_1.5-1.6. Slight to moderate hydrocarbon odours were observed at SB21_0.1-0.2, MW02_2.5-2.6, MW02_4.0-4.1 and TP01_1.5-1.6.

9.2 Field Asbestos Quantification

Bonded ACM was not observed during field asbestos quantification. Several ACM fragments were observed on the ground surface in Lot 183 DP 8716, which exceeds the 'no visible surface ACM' criterion. Asbestos quantification details are summarised in **Table B, Appendix A**.

9.3 Analytical Results

Laboratory analysis results for soil samples completed for the investigation in the western portion of the site are summarised in **Table A**, with the results discussed below for the various analyte groups.

9.3.1 TRH and BTEX

Low levels of semi-volatile to non-volatile TRH were reported in some soil samples, and were otherwise below the laboratory LOR, with the exception of one sample SB21-0.1-0.2 in the vicinity of the 200 L diesel drums, reporting TRH F2 concentration of 180 mg/kg exceeding ecological criteria.

All BTEX results were below the LOR. There were no exceedances of human health based assessment criteria.

9.3.2 Heavy Metals

Low level heavy metal concentrations were reported in soil samples. Heavy metal concentrations in all analysed samples were reported to be below the adopted site assessment criteria protective of human health and ecological receptors.

9.3.1 PAHs

All reported concentrations of PAHs were reported to be below the adopted site assessment criteria protective of human health and ecological receptors.

9.3.2 OCP/PCBs

The reported concentrations of OCPs and PCBs were below the laboratory LOR or less than the adopted site assessment criteria in all samples selected for analysis.

9.3.3 PFAS

The reported PFAS concentrations were below the laboratory LOR or less than the adopted site assessment criteria in all samples selected for analysis.

9.3.4 Asbestos

As discussed in **Section 9.2** asbestos in the form of fragments of ACM were visually observed on the ground surface in Lot 183 DP 8716, which exceeds the 'no visible surface ACM' criterion. Bonded ACM was not observed during field asbestos quantification. Selected soil samples analysed from fill materials did not report any ACM following laboratory analysis, with the exception of two samples. AQ SB02-0-1.0 reported Asbestos from FA & AF in Soil concentration of 0.0273 % w/w, exceeding NEPM criteria of 0.001 % w/w. AQ TP04-0-0.1 reported Asbestos from ACM in Soil concentration of 0.0087 % w/w, which is below the NEPM criteria (0.05 % w/w).

10. Groundwater Assessment – Western Portion

The monitoring well sampling locations are shown on **Figure 5D** and installation details for newly installed wells are provided in **Appendix L**. Groundwater sampling field data sheets are provided in **Appendix K**. Detailed laboratory reports and chain of custody documentation are provided in **Appendix H.**

10.1 Field Observations and Field Measured Parameters

During monitoring well drilling, groundwater was encountered between 5 and 9 m bgs. A summary of conditions encountered during sampling is presented in **Table 9.1** and **Table 9.2** below, as well as **Table D, Appendix A**.

Table 9.1: Groundwater and Surface Water Field Physiochemical Parameters

Well ID	Depth to Water	Electrical Conductivity	pH	Dissolved Oxygen	Temp	Redox (vsAg/AgCl)	TDS (calc)
	m TOC	µs/cm	-	%	˚C	mV	mg/L
MWA	4.566	26188	6.81	0.69	20.3	-20.2	18716
MWB	2.970	17618	6.49	0.49	20.9	-46.6	12420
MWC	2.581	18359	6.39	0.28	21.2	-132.9	12844
MWD	2.230	21332	6.64	0.30	19.6	-20.4	15466
MWE	0.666	19889	6.38	0.26	20.8	-17.4	14066
MW1	2.073	16141	6.81	4.12	19.0	18.6	11855
MW2	4.914	12249	6.08	2.22	20.2	22.8	9016
MW3	4.921	20085	6.67	4.40	20.8	18.5	14207
MW4	3.921	16557	6.72	3.80	20.4	1.4	11793

* Low flow parameters are reported following stabilisation of three consecutive readings.

Review of the field parameters as presented above indicates that the groundwater is neutral, generally low in dissolved oxygen and saline. There were no visible sheens in groundwater purged from monitoring wells. A slight odour was reported at MWC.

Table 9.2: Groundwater Observations

Well ID	Depth to Water	Comments
	m TOC	
MWA	4.566	No odour, no sheen, very low turbidity, colourless. Hydrosleeve set at 5m.
MWB	2.970	No odour, no sheen, very low turbidity, colourless. Hydrosleeve set at 5m.
MWC	2.581	Very slight odour, no sheen, very low turbidity, colourless. Hydrosleeve set at 5m.
MWD	2.230	No odour, no sheen, low turbidity, brown colour. Hydrosleeve set at 5m.
MWE	0.666	No odour, no sheen, low turbidity, brown colour. Hydrosleeve set at 5m.
MW1	2.073	No odour, no sheen, very low turbidity, colourless. Hydrosleeve set at 5m.
MW2	4.914	No odour, no sheen, low turbidity, colourless. Hydrosleeve set at 10m.
MW3	4.921	No odour, no sheen, low turbidity, brown colour. Hydrosleeve set at 8m.
MW4	3.921	No odour, no sheen, moderate turbidity, brown colour. Hydrosleeve set at 6m.

10.2 Groundwater Analytical Results

The water sampling locations are shown on **Figure 5D** and laboratory results are summarised in **Table E, Appendix A**. Detailed laboratory reports and chain of custody documentation are provided in **Appendix H.** Analytical results are discussed in the following sections.

Heavy Metals

The reported heavy metal concentrations were below the adopted criteria with the exception of several copper, lead, nickel and zinc concentrations:

- MW02 – chromium (0.014 mg/L), copper (0.019 mg/L), lead (0.011 mg/L), nickel (0.012 mg/L) and zinc (0.05 mg/L), exceeding ANZG freshwater 95% criteria (0.001 mg/L, 0.0014 mg/L, 0.0034 mg/L, 0.011 mg/L and 0.008 mg/L, respectively) and/or drinking water criteria (lead 0.01 mg/L);
- MW03 – chromium (0.002 mg/L), exceeding ANZG freshwater 95% criteria (0.001 mg/L);
- MW04 – chromium (0.003 mg/L), copper (0.005 mg/L) and zinc (0.009 mg/L), exceeding ANZG freshwater 95% criteria (0.001 mg/L, 0.0014 mg/L and 0.008 mg/L, respectively);
- MWA – copper (0.003 mg/L), nickel (0.012 mg/L) and zinc (0.033 mg/L), exceeding ANZG freshwater 95% criteria (0.0014 mg/L, 0.011 mg/L and 0.008 mg/L, respectively);
- MWB – copper (0.002 mg/L), nickel (0.013 mg/L) and zinc (0.021 mg/L), exceeding ANZG freshwater 95% criteria (0.0014 mg/L, 0.011 mg/L and 0.008 mg/L, respectively);
- MWC – copper (0.002 mg/L), nickel (0.017 mg/L) and zinc (0.009 mg/L), exceeding ANZG freshwater 95% criteria (0.0014 mg/L, 0.011 mg/L and 0.008 mg/L, respectively); and
- MWE – copper (0.005 mg/L) and zinc (0.01 mg/L), exceeding ANZG freshwater 95% criteria (0.0014 mg/L and 0.008 mg/L).

PAHs

The reported concentrations of PAHs were below the laboratory LOR and less than the adopted criteria in all samples.

VOC and TRH

VOCs and TRH concentrations were reported to be below the adopted assessment criteria for all samples.

PFAS

The reported concentrations of PFAS were below the laboratory LOR and less than the adopted criteria in all samples.

11. Soil Vapour Assessment – Western Portion

11.1 Sub-slab Vapour Field Observations

Sub-slab vapour probes were installed across seven sample locations (SV1 to SV7) on the site. No significant odours or indicators of contamination were observed during placement of the holes for the sample locations.

Stabilised PID, methane, oxygen, LEL and carbon dioxide readings were obtained at each sample location prior to collection of the vapour sample and are summarised in **Table G** and **Table 11.1**.

Table 11.1: Soil Vapour Parameters

Well ID	Date	Oxygen	CO2[22]	PID	Methane[23]	LEL	H2S	CO
		%	%	ppm	%	%	ppm	ppm
SV1	4/05/2022	18.6	0.76	1.3	0.023	0.0	0.0	0.0
SV2	4/05/2022	15.3	2.16	0.8	0.023	0.0	0.0	0.0
SV3	4/05/2022	15.3	2.41	1.1	0.023	0.0	0.0	0.0
SV4	4/05/2022	12.6	5.00	0.7	0.031	0.0	0.0	0.0
SV5	4/05/2022	19.4	0.29	1.3	0.056	0.0	0.0	0.0
SV6	4/05/2022	15.9	1.15	0.8	0.016	0.0	0.0	0.0
SV7	4/05/2022	14.6	1.15	1.4	0.000	0.0	0.0	0.0

11.2 Summary of Sub-Slab Analytical Results

Five of the seven sub-slab vapour probe samples (SV1, SV3 to SV5 and SV7) were selected based on the PID and gas meter readings. The five samples were submitted to the laboratory for VOC 8260, TRH and isopropanol analysis. Summarised laboratory results are presented in **Table H**.

All reported sub-slab vapour results were below the laboratory LOR or the adopted guideline values for this assessment.

Various petroleum hydrocarbon compounds (such as TRH and BTEX) were reported at low concentrations at various locations (SV1 and SV7) across the investigation area.

[22] CO2 parameters measured in ppm in the field and have been converted to %.
[23] Methane parameters measured in ppm in the field and have been converted to %.

12. Site Characterisation for the Entire Site

Based on the decision-making process for assessing urban redevelopment sites detailed in EPA (2017) and outlined in **Sections 6.1.1** to **6.1.5,** the decision rules required to be made in order to satisfy the objectives of the assessment are discussed below.

Previous investigations have been detailed in **Section 4**. The historical soil dataset is presented in **Table C** and historical groundwater dataset is presented in **Table F**, **Appendix A**. Historical sample locations are shown in **Figures 5A** to **5D** and exceedances are shown in **Figures 6A** to **6D**.

12.1 Are there any unacceptable risks to likely future on-site receptors?

Bonded ACM impacted stockpiles 2 (TP82), 3 (SP83), 6 (TP86), 8 (TP88), 15 (SP93), 19 (TP97), 31 (SP104), SPA (SPA1 and SPA2), comprising a total volume of approximately 2,000 m^3. Bonded ACM below health criteria was reported within JBS&G 2022 sample AQ TP04-0-0.1, in the mound/stockpile area in Lot 1 DP 835264.

Friable asbestos exceeding criteria were reported within DP_TP12 at 1.0-1.1 m depth (within the mound/stockpile area in Lot 1 DP 835264), DP_TP20 at 0.1-0.15 m depth, surface sample DP_SS4, and JBS&G 2022 sample AQ SB02-0-1.0 all in the western portion of the site.

Friable and bonded asbestos was reported within stockpile 5 (also known as TP05) which has an approximate volume of 260 m^3. The stockpile has significant quantities of building and demolition wastes (including ACM).

Trace chrysotile asbestos was reported in DP (2021) sample locations BH24_0.1-0.2 and TP17_0.1-0.2, <0.001 % w/w.

The asbestos impacted stockpiles and hotspots will require to be disposed off-site to a licensed facility as Special (asbestos) Waste as a result of the reported contaminant levels herein. Alternatively, the materials could be contained on-site under a marker and capping layer (that comprises 0.5 m of clean capping material and/or hardstand) and managed on-site through the preparation/implementation of an Asbestos Register and Asbestos Management Plan (AMP) to address obligations under the Work Health and Safety Act and Regulations.

ACM on the ground surface at DP (2021) locations SS1, SS2 and SS4 and on lot 183 DP 8716 and in fill material at test pit locations TP14, TP22, TP63, TP111, JACM1 and JACM2 associated with former buildings or former stockpiled material. It is noted that additional ACM is likely to be present on the ground surfaces / stockpiled soils at the site, given that long grass cover / vegetation precluded a thorough inspection of the ground surface during investigation activities. It is recommended that a thorough ground surface inspection be completed during future vegetation removal in order to avoid cross-contamination of asbestos / non-asbestos impacted soils in subsequent earthworks. Any materials identified to contain building and demolition wastes should be isolated for further investigation given the inherent higher risk of identifying asbestos within the materials.

Lead (1,600 mg/kg) in a stockpile , at sample location TP049B slightly exceeds HIL D criteria (1,500 mg/kg). Statistical analysis of the dataset of lead in surface samples was undertaken, to determine the 95% upper confidence limit (UCL). A summary of the analysis is provided in **Appendix L**. The 95% UCL for the average concentration of lead was 164 mg/kg, which is less than the HIL criteria. Statistical analyses of the dataset for similar material for lead have identified that the exceedance is not significant and therefore no health risks to current/future occupants have been identified as a results of the screening criteria exceedance.

TRH C10-C16 (2,900 mg/kg) and TRH C16-C34 (7,700 mg/kg) at surface sample location SS6 exceeds management limits (1,000 mg/kg and 3,500 mg/kg, respectively). TRH F2 (180 mg/kg) at surface sample SB21-0.1-0.2 exceeds ecological criteria (180 mg/kg) and is located within stained and

odorous soils in the vicinity of 200L drums. These locations will require remediation and/or management.

Zinc and PAH (from previous investigations) within both stockpile and in-situ soil samples are not considered to pose an unacceptable risk under the proposed development scheme should the materials be retained in areas of low ecological significance (i.e. under future hardstand) or where imported soils are used for landscaped areas.

12.2 Are there any issues relating to background soil concentrations that exceed appropriate site soil criteria?

Soil samples collected from natural soils indicated that the majority of metal concentrations were below the background metal concentrations within NEPC (2013). On this basis, there are considered to be no outstanding issues in relation to local area background soil conditions that require further consideration.

12.3 Are there any unacceptable human health and ecological risks present in groundwater underlying the site?

Groundwater on the site contained slightly elevated metal levels; chromium, cadmium, copper, lead, nickel and zinc, exceeding ANZG freshwater 95% criteria and/or GIL drinking water criteria. As discussed in **Section 7**, Blacktown Creek is part of the Sydney Harbour and Parramatta River catchment. Blacktown Creek is a highly disturbed urban drainage channel, which has been significantly altered. The freshwater stream is considered to likely receive road and stormwater runoff from surrounding land uses, which comprise a combination of commercial/industrial, agricultural and urban/residential activities. WSP (2020b), state the expected receiving water, is an urbanised, ephemeral waterway that has been hydraulically engineered with concrete lining, straightening, and culverted sections; and it is unlikely that the watercourse will be returned to a less disturbed state in the short to medium term. WSP (2020b) also state that GILs for drinking water were not considered applicable to the investigation outlined herein due to the lack of beneficial re-use as potable water and/or re-use under the proposed redevelopment, and consistent with the water quality objectives for the catchment.

A slightly elevated ammonia level at MW1 (1.5 mg/L) (WSP 2020b sample) in the central western portion of the site, exceeded ANZG freshwater 95% criteria (0.9 mg/L), however is below ANZG 80% criteria (2.3 mg/L). The slight ammonia exceedance is reflective of the site historically within an agricultural area and is not significant enough to require remediation. The slightly elevated levels are not considered to pose a potential health or ecological risk within the current or proposed use of the site.

The heavy metal concentrations within the groundwater on the site are considered to reflect urban background conditions given that there was no significant change of these constituents between up and down gradient monitoring wells and no significant source material identified within site soils. The slight ammonia exceedance is reflective of the site historically within an agricultural area and is not significant enough to require remediation. On this basis, the elevated levels of heavy metals and ammonia in site groundwater are not considered to require management.

12.4 Are there any potential vapours present within the sub-surface that could present an unacceptable risk to future site receptors?

Contaminant levels as measured in sub-slab vapour were below the laboratory detection limits or the adopted guideline values for the assessment, and therefore do not pose a potential unacceptable risk to future site receptors.

12.5 Are there any impacts of chemical mixtures?

There were no potential chemical mixtures identified during the investigation that may increase the risk of harm at the site or require special management.

12.6 Are there any aesthetic issues at the site?

As discussed in **Section 13.1**, non-friable (bonded) ACM was identified on the ground surface and within fill material and stockpiles. The ACM impacts identified at the site are considered to pose an aesthetic issue with respect to the future land use proposed.

Other types of building rubble, including brick, concrete, plastic, pipe and timber, were encountered in some of the stockpiles on the site and are also considered to pose an aesthetic issue for the intended land use. It is noted that long grass across the majority of the site, including over the stockpiled material, precluded a detailed inspection of the ground surface.

Odours were noted in DP (2021) in boreholes 6, 7, 24 and 25, associated with USTs/ASTs and other fuel storage usage across the western portion of the site. Sulphurous odour was noted in DP (2021) test pit 17 and borehole 17A, likely to be associated with decaying vegetation within the fill that has been used to backfill the dam within the electrical easement.

The current investigation undertaken in May 2022 reported green staining at SB01 0.7-0.8 and SB02 0.7 to 2.0, and black staining was observed at SB21 0.1-0.2. Organic/rotting odours were observed at SB01_0.3-0.4 and TP07_1.5-1.6. Slight to moderate hydrocarbon odours were observed at SB21_0.1-0.2, MW02_.25-2.6, MW02_4.0-4.1 and TP01_1.5-1.6.

No odours were detected during the historic contamination assessments (JBS 2010a and WSP 2020b).

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

There is considered to be a risk that ACM at the site could become weathered such that site activities and/or climatic conditions result in asbestos fibres being liberated from one or more areas of the site.

The USTs present within Lot 1 DP 835265 will require decommissioning (as per the UPSS regulations) to ensure the site is suitable for the proposed use. Whilst no significant gross impact has been identified, allowance should be included for addressing issues as may occur in the immediate vicinity of the facilities that will be identified during future decommissioning works.

With respect to soil chemical contaminants, as discussed in JBS (2010a), based on neutral leachate data and the localised source of the contamination, elevated lead concentrations are likely limited to surficial soils. Additionally, lead leaching from surface soils at TP24B and TP49B with subsequent infiltration would be adsorbed onto the clay soils, impeding its downward migration through the soil profile and into the underlying groundwater. Based on the hydrogeological review and the groundwater assessment completed by WSP (2020b), groundwater at the site was encountered at 5.4 m bgs at one location and was not encountered at the remaining two locations (drilled to 6 m bgs). Based on the low permeability of the clay soils at the site and the absorptive capacity of clayey soil, groundwater is unlikely to be impacted from the minor lead impacted soil identified. Additionally as discussed in **Section 12.1**, statistical analysis was undertaken on the lead dataset for surface soils and reported 95% UCL of 164 mg/kg. The lead exceedances were not statistically significant and therefore no health risks to current/future occupants have been identified as a result of these screening criteria exceedances.

Furthermore, as reported in WSP (2020b) and the current assessment in the western portion of the site, based on a limited groundwater assessment, nickel and lead were reported above the drinking water criteria and chromium, cadmium, copper and zinc were reported above the ecological criteria. However, there are no abstraction points down gradient of the site and the concentrations are

considered to be representative of background conditions and not to represent a significant environmental risk.

The concentrations of all other contaminants encountered during the site assessments are not considered to pose a risk of migration.

12.8 Is a site management strategy required?

Based on the results of the investigations and subject to the limitations presented in **Section 14**, it is considered that a site management strategy is required to address identified contamination issues in the soil including asbestos in stockpiled and surface / fill materials.

Aesthetic issues including ACM, demolition waste and general waste will require management.

Identified soil impacts as well as removal of the USTs and associated petroleum infrastructure (as per the UPSS Regulations) can be managed through an appropriate remedial action plan (RAP). An asbestos register and asbestos management plan (AMP) is required to manage identified asbestos to meet WHS Regulations until such time as identified asbestos risks are removed.

13. Conclusions and Recommendations

13.1 Conclusions

Based on the findings of this assessment and subject to the limitations in **Section 14**, the following conclusions have been made:

- Bonded ACM impacts were identified at Stockpiles 2 (TP82, SPC), 3 (SP83), 6 (TP86), 8 (TP88), 15 (SP93), 19 (TP97) and 31 (SP104), SPA (SPA1 and SPA2), comprising a total volume of approximately 2,000 m^3 (based on historical assessments).
- Bonded ACM impacts were identified on the ground surface in the western portion of the site (Lot 183 DP 8716) and surface locations SS1, SS2 and SS4 and in fill material at test pit locations TP14, TP22, TP63, TP111, JACM1 and JACM2 associated with former buildings or former stockpiled material.
- Friable asbestos exceeding health criteria was reported within DP_TP12 at 1.0-1.1, DP_TP20 at 0.1-0.15 m depth, surface sample DP_SS4, and May 2022 sample AQ SB02-0-1.0, all within the western portion of the site.
- Friable and bonded asbestos was reported within stockpile 5 (also known as TP85) which has an approximate volume of 260 m^3. The stockpile has significant quantities of building and demolition wastes (including ACM).
- Trace chrysotile asbestos was reported in DP (2021) sample locations BH24_0.1-0.2 and TP17_0.1-0.2, <0.001 %w/w.
- It is noted that additional ACM is likely to be present on the ground surfaces / stockpiled soils at the site, given that long grass cover / vegetation precluded a thorough inspection of the ground surface during investigation activities. It is recommended that a thorough ground surface inspection be completed during future vegetation removal in order to avoid cross-contamination of asbestos / non-asbestos impacted soils in subsequent earthworks. Any materials identified to contain building and demolition wastes should be isolated for further investigation given the inherent higher risk of identifying asbestos within the materials.
- The asbestos impacted stockpiles and hotspots will require to be contained on-site under a marker and capping layer (that comprises 0.5 m of clean capping material and/or hardstand) and managed on-site through the preparation/implementation of an Asbestos Register and Asbestos Management Plan (AMP) to address obligations under the Work Health and Safety Act and Regulations. Alternatively, the impacted materials can be disposed off-site to a licensed facility as Special (asbestos) Waste as a result of the reported contaminant levels herein.
- TRH C_{10}-C_{16} (2,900 mg/kg) and TRH C_{16}-C_{34} (7,700 mg/kg) at surface sample location SS6 exceeds management limits (1,000 mg/kg and 3,500 mg/kg, respectively). TRH F2 (180 mg/kg) at surface sample SB21-0.1-0.2 exceeds ecological criteria (180 mg/kg) and is located within stained and odorous soils in the vicinity of 200L drums. These locations will require remediation and/or management.
- Zinc and PAH (from previous investigations) within both stockpile and in-situ soil samples are not considered to pose an unacceptable risk under the proposed development scheme should the materials be retained in areas of low ecological significance (i.e. under future hardstand) or where imported soils are used for landscaped areas.
- Groundwater on the site reported slightly elevated metal levels, however the concentrations are considered to reflect urban background conditions, given that there

was no significant change of these constituents between up and down gradient monitoring wells and no significant source material identified within site soils. The slight ammonia exceedance is reflective of the site historically within an agricultural area and is not significant enough to require remediation and/or further investigation.

- Soil-vapour was found to be generally absent of detectable concentrations of TRHs and/or VOCs and below the adopted criteria. Whilst sources of potential volatile contaminant impact were identified at the site (USTs), direct sampling of soil-vapour immediately below existing concrete slabs indicated that sub-surface gas was free from volatile constituents at concentrations which represented potential risks to future receptors.
- It is considered that the site is suitable for the proposed commercial/industrial land use, subject to appropriate remediation and/or management of the identified soil impacts.

13.2 Recommendations

It is recommended that an updated RAP be developed in accordance with the relevant regulatory requirements to address the identified contamination issues to render the site suitable for the proposed land uses as well as removal of the USTs and associated petroleum infrastructure (as per the UPSS Regulations). The remediation works are deemed Category 2, from review of the site location and proposed activities. An Asbestos Register and Asbestos Management Plan should also be developed to manage potential asbestos risks consistent with WHS Regulations until such time as the risks are removed.

14. 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 enquires.

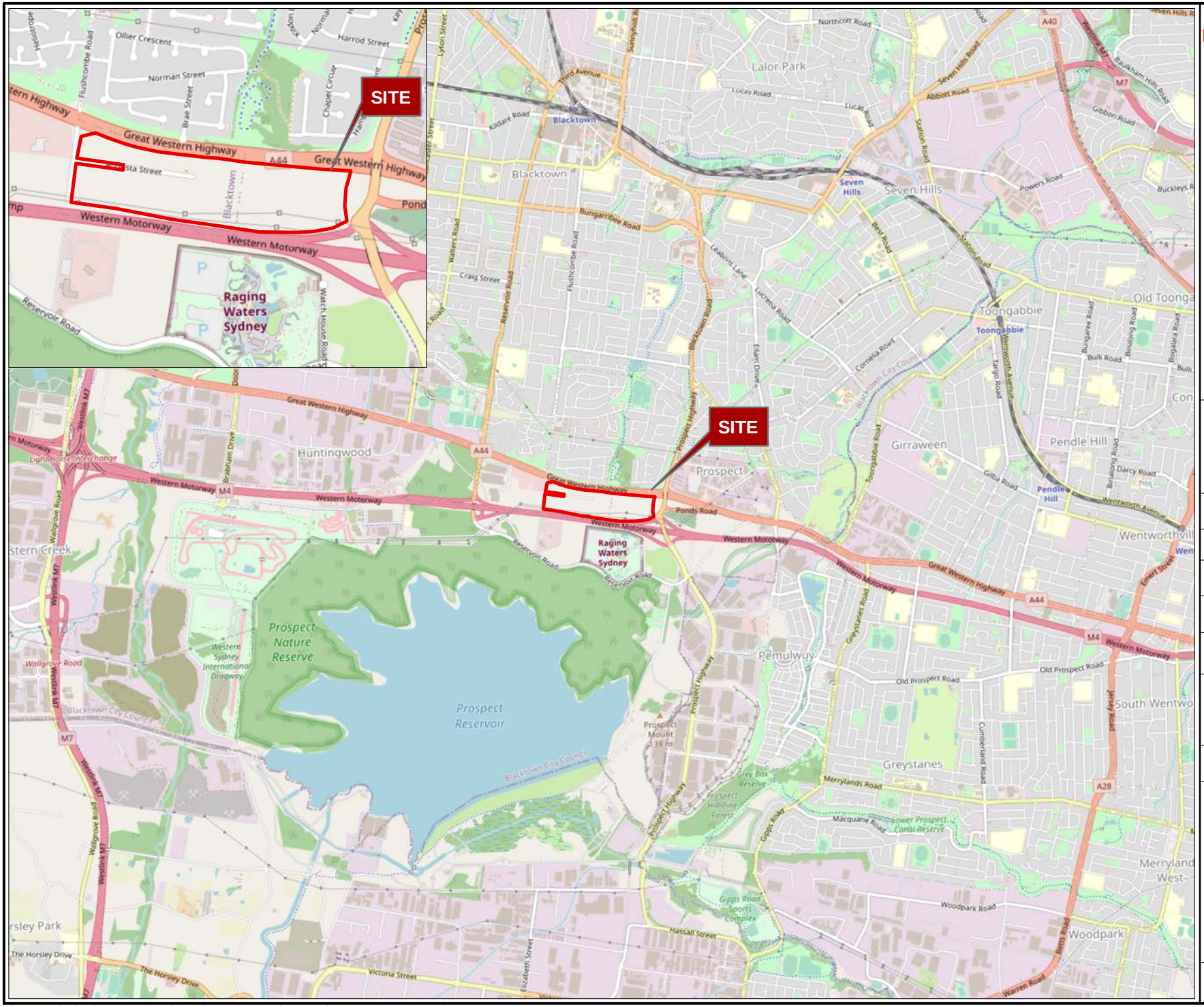
Sampling and chemical analysis of environmental media is based on appropriate guidance documents made and approved by the relevant regulatory authorities. Conclusions arising from the review and assessment of environmental data are based on the sampling and analysis considered appropriate based on the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

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

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

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

Figures



Legend

Approximate Site Boundary

JBS&G

Job No: 62742	
Client: Logos Australia	
Version: R01_Rev A	Date 18/07/2022
Drawn By: YY	Checked By: JN

Scale 1:50,000

0 500 1,000

metres

Coord. Sys. GDA 1994 MGA Zone 56

Huntington East
Augusta Street
Blacktown, NSW

SITE LOCATION

FIGURE 1

File Name: N:\Projects\Logos\62742 Huntingwood SEARs\GIS\Maps\R01_RevA\62742_01_SiteLocation.mxd
Reference: Service Layer Credits: © OpenStreetMap (and) contributors, CC-BY-SA



Legend

- Approximate Site Boundary
- Lot / DP
- NSW Cadastre (DFSI, 2021)

Assessment Areas

- Western Assessment Area
- Central Western Assessment Area
- Central Eastern Assessment Area
- Eastern Assessment Area

JBS&G

Job No: 62742	
Client: Logos Australia	
Version: R01_Rev A	Date 18/07/2022
Drawn By: YY	Checked By: JN
Scale 1:5,500	

0 50 100
metres

Coord. Sys. GDA 1994 MGA Zone 56

Huntington East
Augusta Street
Blacktown, NSW

SITE LAYOUT

FIGURE 2

File Name: N:\Projects\Logos\62742 Huntingwood SEARs\GIS\Maps\R01_RevA\62742_02B_SiteLayout_Current Lot and DPs .mxd
Reference: www.nearmap.com - Imagery 20220519



Legend

Historical Assessment

- Assessment Area DP
- Assessment Area WSP
- Assessment Area WSP
- Current Assessment Area & JBS (2010a and b)

JBS&G

Job No: 62742	
Client: Logos Australia	
Version: R01_RevA	Date 19/07/2022
Drawn By: YY	Checked By: JN

Scale 1:5,500

0 50 100

metres

Coord. Sys. GDA 1994 MGA Zone 56

Huntington East
Augusta Street
Blacktown, NSW

HISTORICAL ASSESSMENT AREAS

FIGURE 3

File Name: N:\Projects\Logos\62742 Huntingwood SEARs\GIS\Maps\R01_RevA\62742_03_HistoricalAssessmentAreas.mxd
Reference: www.nearmap.com - Imagery 20220519



Site Features

- ACM in Fill Observed, WSP 2020b
- ACM in Fill Observed, JBS&G 2021
- Building Rubble / Anthropogenic Waste, WSP 2020b
- Building Rubble / Anthropogenic Waste, JBS&G 2021
- Commercial Building, WSP 2020b
- Disturbed Soil, JBS&G 2021
- Stockpile Location, JBS 2010a
- Stockpile Location, WSP 2020b
- Stockpile Observed, JBS&G 2021

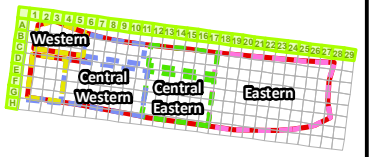
ID	Observation - Western Area	Source
2D	Concrete and Brick	WSP 2020b
3A	Built up Land	JBS&G 2021
3B	Built up Land	JBS&G 2021
3E	Trenches / Mounded Soil	JBS&G 2021
3F	Disturbed Surface Soils	JBS&G 2021
3G	Trenches / Mounded Soil	JBS&G 2021
5A	ACM in Fill - SPC	WSP 2020b
5D	ACM in Fill - WSP-SP88	WSP 2020b
5F	ACM Observed - JACM1	JBS&G 2021

Legend

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

Assessment Areas

- Western Assessment
- Central Western Assessment
- Central Eastern Assessment
- Eastern Assessment



JBS&G

Job No: 62742

Client: Logos Australia

Version: R01_RevA	Date 18/07/2022
Drawn By: YY	Checked By: JN

Scale 1:2,814

0 30 60
metres

Coord. Sys. GDA 1994 MGA Zone 56

Huntington East
Augusta Street
Blacktown, NSW

SITE INSPECTION OBSERVATIONS AND LOCATION OF HISTORICAL STOCKPILES – CENTRAL WESTERN ASSESSMENT AREA

FIGURE 4A

File Name: N:\Projects\Logos\62742 Huntingwood SEARs\GIS\Maps\R01_RevA\62742_04A_SiteInspectionObservations_LocationofHistoricalStockpiles_CentralWestern.mxd
Reference: www.nearmap.com - Imagery 20110917



Site Features

- ACM in Fill Observed, WSP 2020b
- ACM in Fill Observed, JBS&G 2021
- Building Rubble / Anthropogenic Waste, WSP 2020b
- Building Rubble / Anthropogenic Waste, JBS&G 2021
- Commercial Building, WSP 2020b
- Disturbed Soil, JBS&G 2021
- Stockpile Location, JBS 2010a
- Stockpile Location, WSP 2020b
- Stockpile Observed, JBS&G 2021

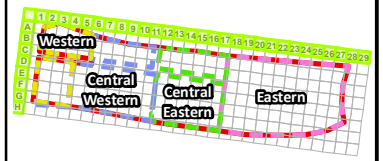
ID	Observation - Central Area	Source
1A	Stockpile Observed - JSP1	JBS&G 2021
1B	Stockpile Observed - JSP2	JBS&G 2021
2A	Dumped Waste	WSP 2020b
2C	Tyres	JBS&G 2021
3D	Trenches / Mounded Soil	JBS&G 2021
4	Telecom Building	WSP 2020b
5B	ACM in Fill - SPA	WSP 2020b

Legend

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

Assessment Areas

- Western Assessment
- Central Western Assessment
- Central Eastern Assessment
- Eastern Assessment



JBS&G

Job No: 62742

Client: Logos Australia

Version: R01_RevA | Date 18/07/2022

Drawn By: YY | Checked By: JN

Scale 1:2,500

0 25 50
metres

Coord. Sys. GDA 1994 MGA Zone 56

Huntington East
Augusta Street
Blacktown, NSW

SITE INSPECTION OBSERVATIONS AND LOCATION OF HISTORICAL STOCKPILES – CENTRAL EASTERN ASSESSMENT AREA

FIGURE 4B

File Name: N:\Projects\Logos\62742 Huntingwood SEARs\GIS\Maps\R01_RevA\62742_04B_SiteInspectionObservations_LocationofHistoricalStockpiles_CentralEastern.mxd
Reference: www.nearmap.com - Imagery 20110917



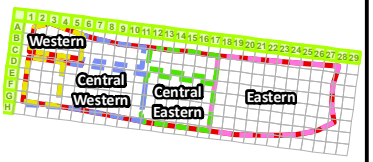
ID	Observation - Eastern	Source
2B	Concrete Rubble	JBS&G 2021
3C	Built up Land	JBS&G 2021
5E	ACM Observed - JACM2	JBS&G 2021

Legend

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

Assessment Areas

- Western Assessment
- Central Western Assessment
- Central Eastern Assessment
- Eastern Assessment



JBS&G

Job No: 62742

Client: Logos Australia

Version: R01_RevA | Date 18/07/2022

Drawn By: YY | Checked By: JN

Scale 1:2,500

0 25 50
metres

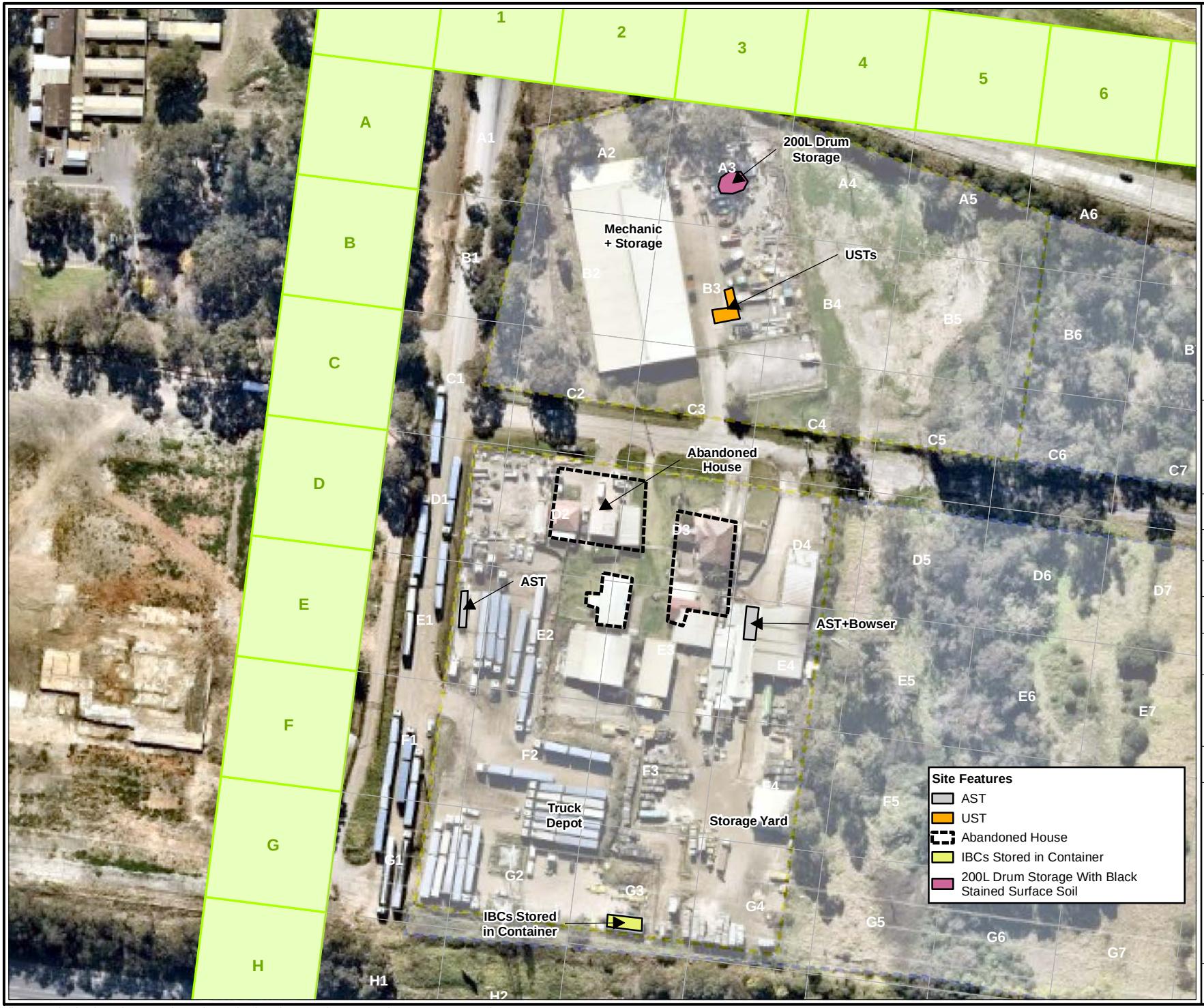
Coord. Sys. GDA 1994 MGA Zone 56

Huntington East
Augusta Street
Blacktown, NSW

SITE INSPECTION OBSERVATIONS AND LOCATION OF HISTORICAL STOCKPILES – EASTERN ASSESSMENT AREA

FIGURE 4C

File Name: N:\Projects\Logos\62742 Huntingwood SEARs\GIS\Maps\R01_RevA\62742_04C_SiteInspectionObservations_LocationofHistoricalStockpiles_Eastern.mxd
Reference: www.nearmap.com - Imagery 20110917

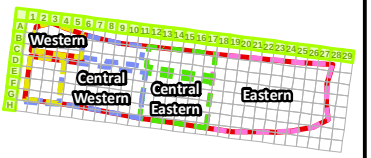


Legend

Approximate Site Boundary

Assessment Areas

- Western Assessment
- Central Western Assessment
- Central Eastern Assessment
- Eastern Assessment



JBS&G

Job No: 62742	
Client: Logos Australia	
Version: R01_RevA	Date 18/07/2022
Drawn By: YY	Checked By: JN
Scale 1:1,700	

0 10 20
metres

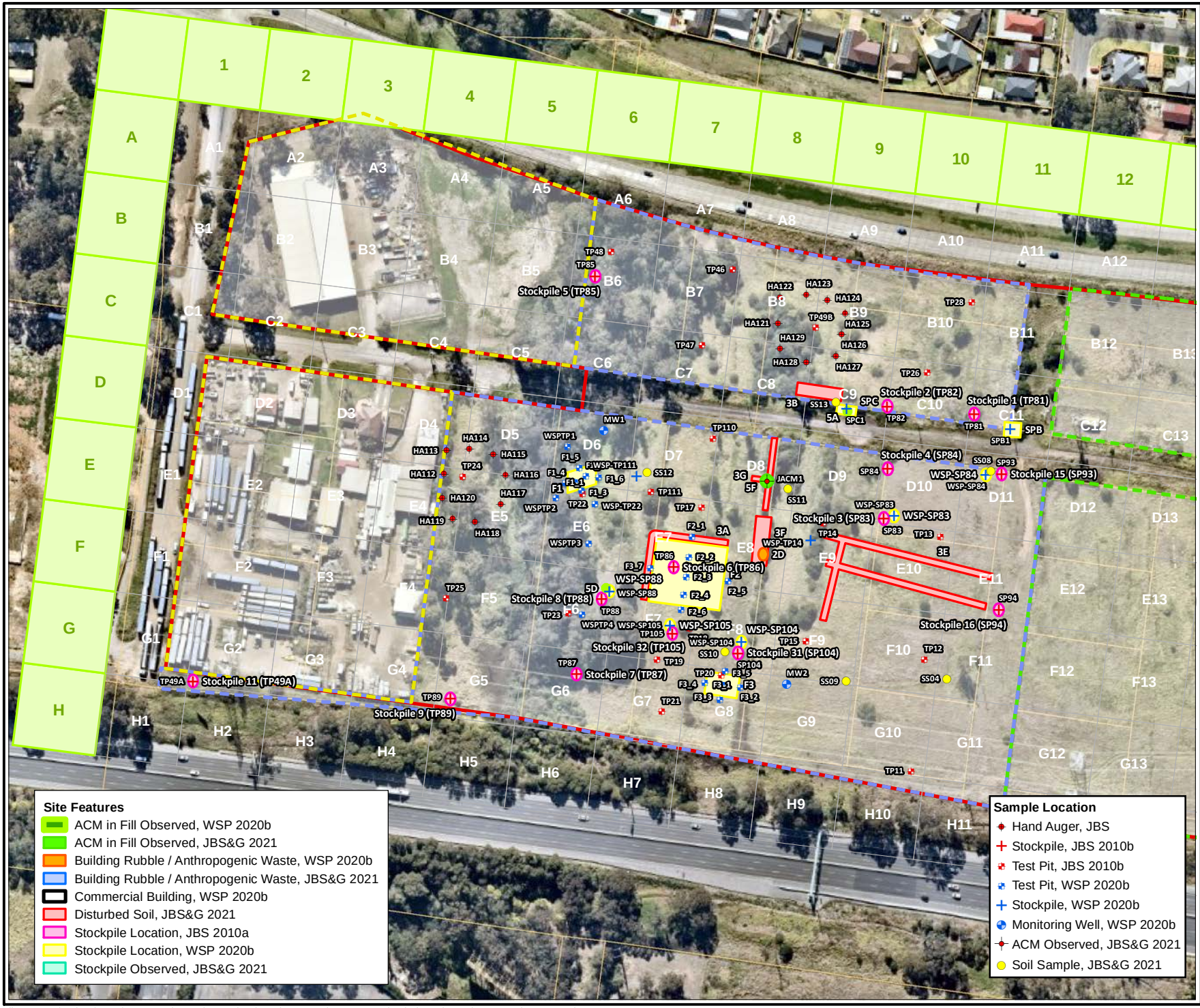
Coord. Sys. GDA 1994 MGA Zone 56

Huntington East
Augusta Street
Blacktown, NSW

SITE FEATURES - WESTERN ASSESSMENT AREA

FIGURE 4D

File Name: N:\Projects\Logos\62742 Huntingwood SEARs\GIS\Maps\R01_RevA\62742_04D_SiteFeatures_Western.mxd
Reference: www.nearmap.com - Imagery 20110917



JBS&G

Job No: 62742

Client: Logos Australia

Version: R01_RevA	Date 18/07/2022
Drawn By: YY	Checked By: JN

Scale 1:2,500

0 25 50
metres

Coord. Sys. GDA 1994 MGA Zone 56

Huntington East
Augusta Street
Blacktown, NSW

HISTORICAL SAMPLE LOCATIONS- CENTRAL WESTERN ASSESSMENT AREA

FIGURE 5A

File Name: N:\Projects\Logos\62742 Huntingwood SEARs\GIS\Maps\R01_RevA\62742_05A_HistoricalSampleLocations_CentralWestern.mxd
Reference: www.nearmap.com - Imagery 20110917

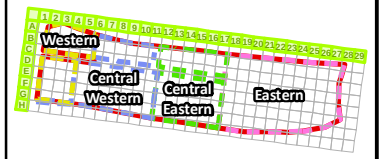


Legend

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

Assessment Areas

- Western Assessment
- Central Western Assessment
- Central Eastern Assessment
- Eastern Assessment



JBS&G

Job No: 62742

Client: Logos Australia

Version: R01_RevA	Date 18/07/2022
Drawn By: YY	Checked By: JN

Scale 1:2,500

0 25 50
metres

Coord. Sys. GDA 1994 MGA Zone 56

Huntington East
Augusta Street
Blacktown, NSW

HISTORICAL SAMPLE LOCATION- CENTRAL EASTERN ASSESSMENT AREA

FIGURE 5B

File Name: N:\Projects\Logos\62742 Huntingwood SEARs\GIS\Maps\R01_RevA\62742_05B_HistoricalSampleLocations_CentralEastern.mxd
Reference: www.nearmap.com - Imagery 20110917

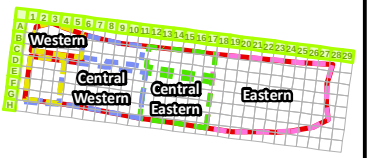


Legend

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

Assessment Areas

- Western Assessment Area
- Central Western Assessment Area
- Central Eastern Assessment Area
- Eastern Assessment Area



JBS&G

Job No: 62742

Client: Logos Australia

Version: R01_RevA	Date 18/07/2022
Drawn By: YY	Checked By: JN

Scale 1:2,500

0 25 50
metres

Coord. Sys. GDA 1994 MGA Zone 56

Huntington East
Augusta Street
Blacktown, NSW

HISTORICAL SAMPLE LOCATIONS - EASTERN ASSESSMENT AREA

FIGURE 5C

File Name: N:\Projects\Logos\62742 Huntingwood SEARs\GIS\Maps\R01_RevA\62742_05C_HistoricalSampleLocations_Eastern.mxd
Reference: www.nearmap.com - Imagery 20110917

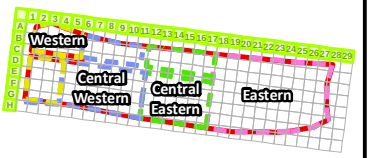


Legend

Approximate Site Boundary

Assessment Areas

- Western Assessment Area
- Central Western Assessment Area
- Central Eastern Assessment Area
- Eastern Assessment



JBS&G

Job No: 62742

Client: Logos Australia

Version: R01_RevA	Date 18/07/2022
Drawn By: YY	Checked By: JN

Scale 1:1,700

0 10 20

metres

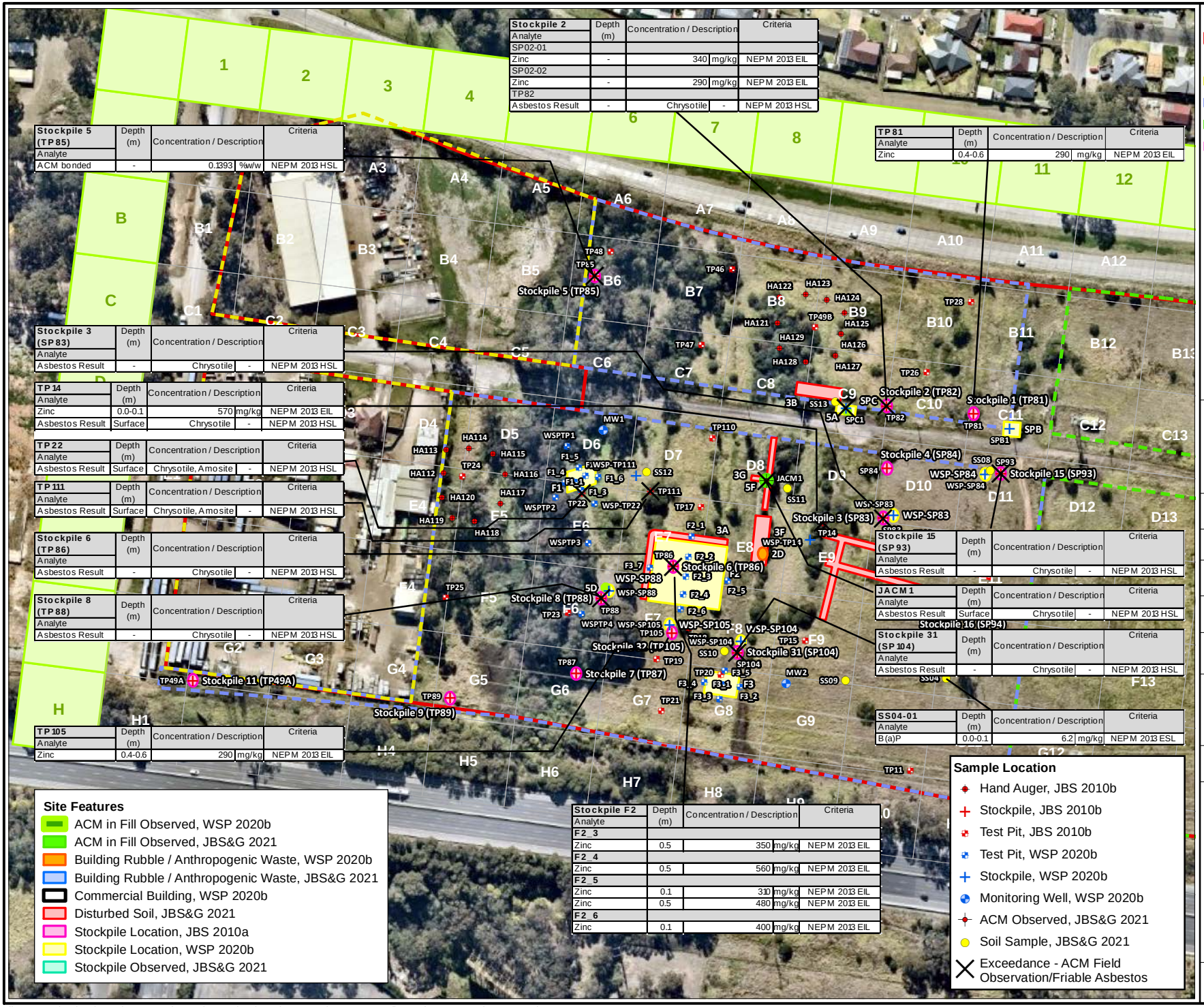
Coord. Sys. GDA 1994 MGA Zone 56

Huntington East
Augusta Street
Blacktown, NSW

SAMPLE LOCATIONS - WESTERN ASSESSMENT AREA

FIGURE 5D

File Name: N:\Projects\Logos\62742 Huntingwood SEARs\GIS\Maps\R01_RevA\62742_05D_SampleLocations_Western.mxd
Reference: www.nearmap.com - Imagery 20110917

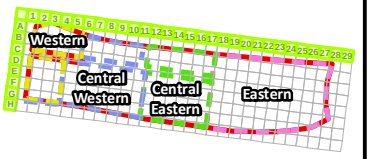


Legend

- Approximate Site Boundary

Assessment Areas

- Western Assessment
- Central Western Assessment
- Central Eastern Assessment
- Eastern Assessment



NOTE: Analyical exceedances are represented in text box format identifying concentration &/or asbestos speciation description. Field observations of ACM are represented as legend nominated icon

JBS&G

Job No: 62742

Client: Logos Australia

Version: R01_RevA | Date 18/07/2022

Drawn By: YY | Checked By: JN

Scale 1:2,500

0 25 50

metres

Coord. Sys. GDA 1994 MGA Zone 56

Huntington East
Augusta Street
Blacktown, NSW

SOIL EXCEEDANCES - CENTRAL WESTERN ASSESSMENT AREA

FIGURE 6A

File Name: N:\Projects\Logos\62742 Huntingwood SEARs\GIS\Maps\R01_RevA\62742_06A_SoilExceedances_CentralWestern.mxd
Reference: www.nearmap.com - Imagery 20110917

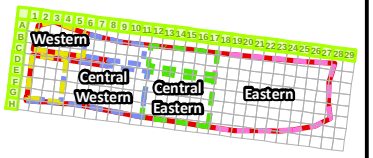


Legend

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

Assessment Areas

- Western Assessment
- Central Western Assessment
- Central Eastern Assessment
- Eastern Assessment



NOTE: Analyical exceedances are represented in text box format identifying concentration &/or asbestos speciation description. Field observations of ACM are represented as legend nominated icon

JBS&G

Job No: 62742

Client: Logos Australia

Version: R01_RevA | Date 18/07/2022

Drawn By: YY | Checked By: JN

Scale 1:2,500

0 25 50

metres

Coord. Sys. GDA 1994 MGA Zone 56

Huntington East
Augusta Street
Blacktown, NSW

SOIL EXCEEDANCES - CENTRAL EASTERN ASSESSMENT AREA

FIGURE 6B

File Name: N:\Projects\Logos\62742 Huntingwood SEARs\GIS\Maps\R01_RevA\62742_06B_SoilExceedances_CentralEastern.mxd
Reference: www.nearmap.com - Imagery 20110917



JACM2	Depth (m)	Concentration / Description		Criteria
Analyte				
Asbestos Result	Surface	Chrysotile	-	NEPM 2013 HSL

Stockpile 18	Depth (m)	Concentration / Description		Criteria
Analyte				
SP18-01				
B(a)P	-	9.8	mg/kg	NEPM 2013 ESL
SP18-02				
B(a)P	-	19	mg/kg	NEPM 2013 ESL

HA130	Depth (m)	Concentration / Description		Criteria
Analyte				
Zinc	-	480	mg/kg	NEPM 2013 EIL

HA131	Depth (m)	Concentration / Description		Criteria
Analyte				
Zinc	-	580	mg/kg	NEPM 2013 EIL

TP63	Depth (m)	Concentration / Description		Criteria
Analyte				
Zinc	0.0-0.15	300	mg/kg	NEPM 2013 EIL
Asbestos Result	Surface	Chrysotile, Amosite	-	NEPM 2013 HSL

SP95	Depth (m)	Concentration / Description		Criteria
Analyte				
B(a)P	0.4-0.6	13	mg/kg	NEPM 2013 ESL

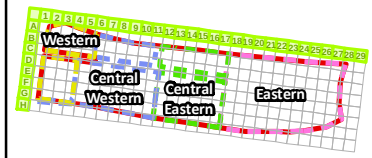
Stockpile 19 (TP97)	Depth (m)	Concentration / Description		Criteria
Analyte				
Asbestos Result	-	Chrysotile	-	NEPM 2013 HSL

Site Features
- ACM in Fill Observed, WSP 2020b
- ACM in Fill Observed, JBS&G 2021
- Building Rubble / Anthropogenic Waste, WSP 2020b
- Building Rubble / Anthropogenic Waste, JBS&G 2021
- Commercial Building, WSP 2020b
- Disturbed Soil, JBS&G 2021
- Stockpile Location, JBS 2010a
- Stockpile Location, WSP 2020b
- Stockpile Observed, JBS&G 2021

Sample Location
- Hand Auger, JBS 2010b
- Stockpile, JBS 2010b
- Test Pit, JBS 2010b
- Test Pit, WSP 2020b
- Stockpile, WSP 2020b
- Monitoring Well, WSP 2020b
- ACM Observed, JBS&G 2021
- Exceedance - ACM Field Observation/Friable Asbestos

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

Assessment Areas
- Western Assessment
- Central Western Assessment
- Central Eastern Assessment
- Eastern Assessment



NOTE: Analyical exceedances are represented in text box format identifying concentration &/or asbestos speciation description. Field observations of ACM are represented as legend nominated icon

JBS&G

Job No: 62742

Client: Logos Australia

Version: R01_RevA	Date 18/07/2022
Drawn By: YY	Checked By: JN

Scale 1:2,500

0 25 50
metres

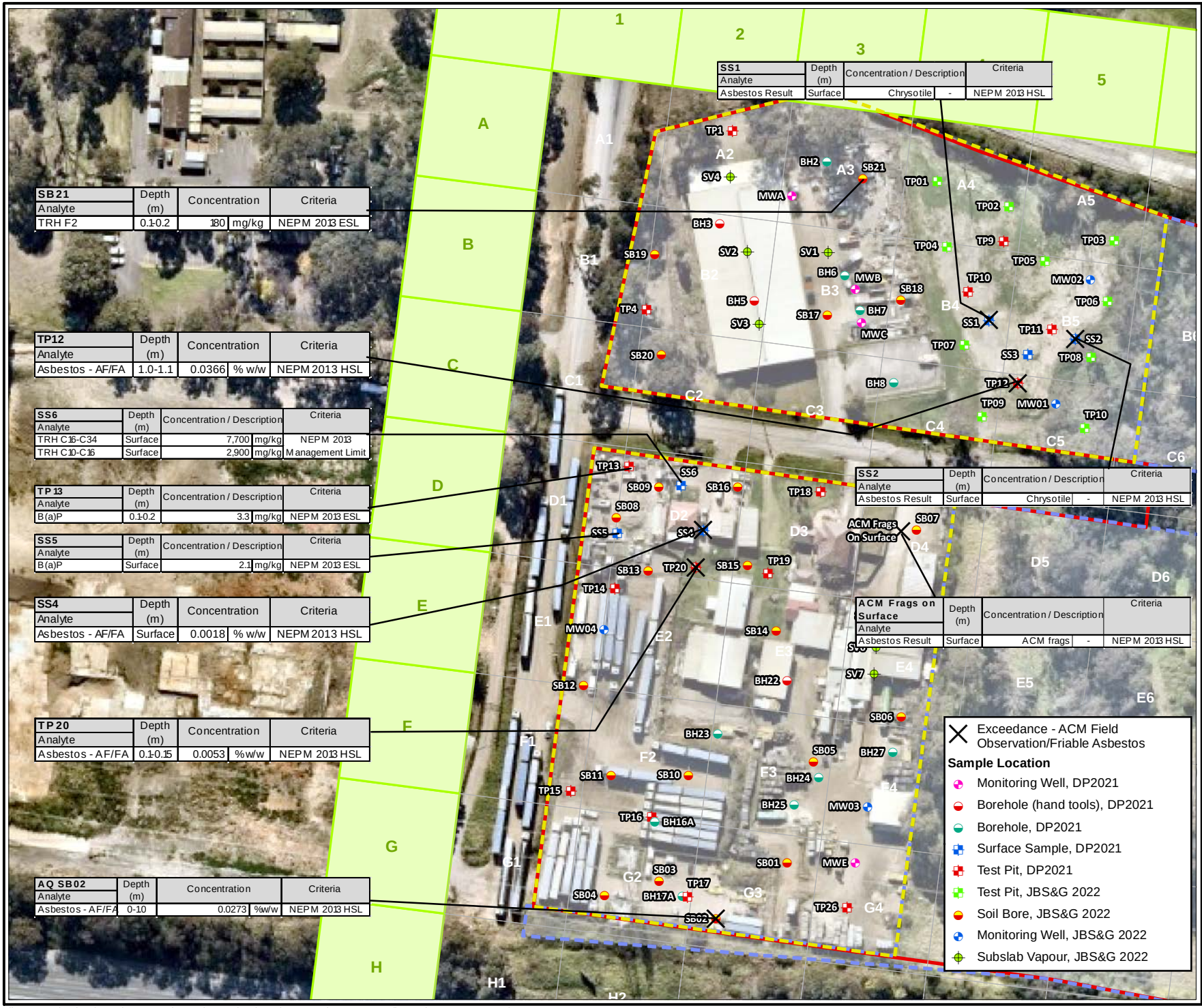
Coord. Sys. GDA 1994 MGA Zone 56

Huntington East
Augusta Street
Blacktown, NSW

SOIL EXCEEDANCES - EASTERN ASSESSMENT AREA

FIGURE 6C

File Name: N:\Projects\Logos\62742 Huntingwood SEARs\GIS\Maps\R01_RevA\62742_06C_SoilExceedances_Eastern.mxd
Reference: www.nearmap.com - Imagery 20110917



Legend

- Approximate Site Boundary

Assessment Areas

- Western Assessment Area
- Central Western Assessment Area
- Central Eastern Assessment Area
- Eastern Assessment Area

JBS&G

Job No: 62742

Client: Logos Australia

Version: R01_RevA	Date 18/07/2022
Drawn By: YY	Checked By: JN

Scale 1:1,700

0 10 20
metres

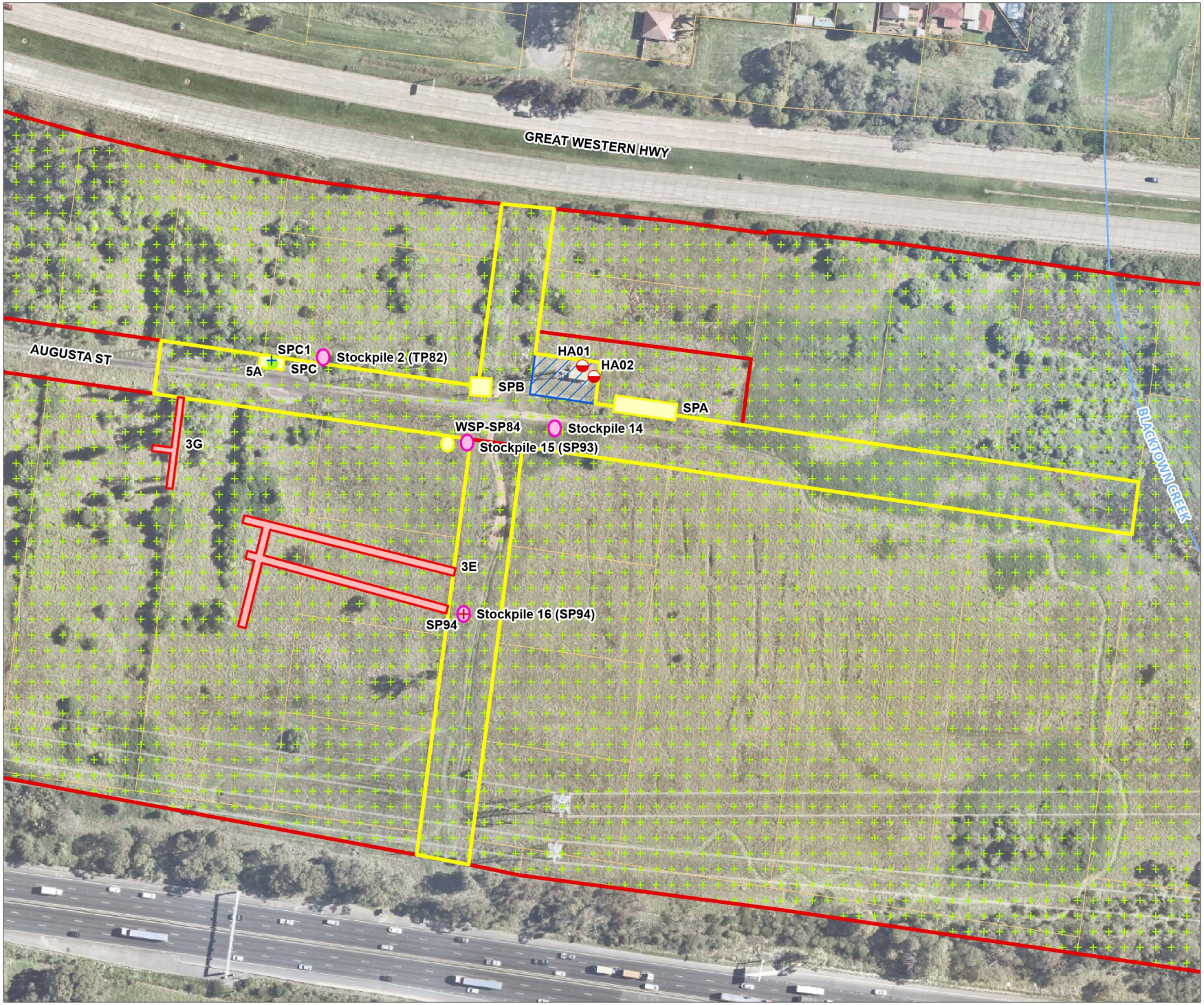
Coord. Sys. GDA 1994 MGA Zone 56

Huntington East
Augusta Street
Blacktown, NSW

SOIL EXCEEDANCES - WESTERN ASSESSMENT AREA

FIGURE 6D

File Name: N:\Projects\Logos\62742 Huntingwood SEARs\GIS\Maps\R01_RevA\62742_06D_SoilExceedances_Western.mxd
Reference: www.nearmap.com - Imagery 20110917



Legend:

- Assessment Area
- Investigation Area
- Blacktown Lands
- Telstra Exchange
- NSW Cadastre
- Hydro Line

Site Features

- ACM in Fill Observed, WSP 2020b
- Disturbed Soil, JBS&G 2021
- Stockpile Location, JBS 2010a
- Stockpile Location, WSP 2020b

Sample Locations

- Stockpile, JBS 2010b
- Stockpile, WSP 2020b
- Sample Location JBS&G 2023

JBS&G

Job No: 64632

Client: Logos

Version: L01 Rev A | Date 20/03/2023

Drawn By: LJ | Checked By: DR

Scale 1:2,000

0 25 50

metres

Coord. Sys. GDA 1994 MGA Zone 56

Augusta St
Huntingwood, NSW

SAMPLE LOCATIONS

FIGURE 3

File Name: 64632_Huntingwood_L01_RevA
Reference: Nearmap www.nearmap.com 20230203

Appendix A Summary Tables

Table A: Soil Analytical Results 2022
Project Number: 62742
Project Name: Huntingwood - Western Portion

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

Table A: Soil Analytical Results 2022
Project Number: 62742
Project Name: Huntingwood - Western Portion

| | | | | | | | | | Polychlorinated Biphenyls | | | | | | | | PFAS | | | | | | | | |

Table B: Soil Asbestos Results
Project Number: 62742
Project Name: Huntingwood

	Field Asbestos Quantification					Asbestos - Eurofins														
	Approx. Volume of Soil (L)	Soil Mass (g)	Mass ACM (g)	Mass Asbestos in ACM (g)	[Asbestos from ACM in soil] (%w/w)	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	Synthetic Fibres - Comment	Asbestos Reported Result
						g	g	g	% (w/w)	g	g	g	g	% (w/w)	g	Comment	Comment	Comment	Comment	Comment	Comment
EQL																					
NEPM 2013 Table 7 Comm/Ind D Soil HSL for Asbestos in Soil									0.05					0.001							
Field_ID	**Lab Report**	**Date**																			
AQ MW03-0-0.8	890110	9/05/2022	10.00	16300	0.00	0.00	0.0000	1089	0	0	0	0	0	0	0	0	0	No	No	No	No	No	No
AQ MW04-0-0.5	890110	10/05/2022	10.00	16300	0.00	0.00	0.0000	658	0	0	0	0	0	0	0	0	0	No	No	No	No	No	No
AQ SB02-0-1.0	890110	12/05/2022	10.00	16300	0.00	0.00	0.0000	601	0	0	0	**0.4102**	**0.1641**	0	0	**0.0273**	**0.1641**	No	No	No	No	No	No
AQ SB03-0-1.0	890110	10/05/2022	10.00	16300	0.00	0.00	0.0000	901	0	0	0	0	0	0	0	0	0	No	No	No	No	No	No
AQ SB04-0-1.0	890110	10/05/2022	10.00	16300	0.00	0.00	0.0000	714	0	0	0	0	0	0	0	0	0	No	No	No	No	No	No
AQ SB04-1-1.3	890110	10/05/2022	10.00	16300	0.00	0.00	0.0000	701	0	0	0	0	0	0	0	0	0	No	No	No	No	No	No
AQ SB05-0-1.0	890110	10/05/2022	10.00	16300	0.00	0.00	0.0000	515	0	0	0	0	0	0	0	0	0	No	No	No	No	No	No
AQ SB06-0-1.0	890110	10/05/2022	10.00	16300	0.00	0.00	0.0000	512	0	0	0	0	0	0	0	0	0	No	No	No	No	No	No
AQ SB07-0-0.8	890110	10/05/2022	10.00	16300	0.00	0.00	0.0000	414	0	0	0	0	0	0	0	0	0	No	No	No	No	No	No
AQ SB09-0-0.4	890110	11/05/2022	10.00	16300	0.00	0.00	0.0000	644	0	0	0	0	0	0	0	0	0	No	No	No	No	No	No
AQ SB10-0-1.0	890110	11/05/2022	10.00	16300	0.00	0.00	0.0000	769	0	0	0	0	0	0	0	0	0	No	No	No	No	No	No
AQ SB10-1.0-2.0	890110	11/05/2022	10.00	16300	0.00	0.00	0.0000	446	0	0	0	0	0	0	0	0	0	No	No	No	No	No	No
AQ SB11-1.0-2.0	890110	11/05/2022	10.00	16300	0.00	0.00	0.0000	654	0	0	0	0	0	0	0	0	0	No	No	No	No	No	No
AQ SB12-0-0.7	890110	11/05/2022	10.00	16300	0.00	0.00	0.0000	648	0	0	0	0	0	0	0	0	0	No	No	No	No	No	No
AQ SB14-0-0.2	890110	11/05/2022	10.00	16300	0.00	0.00	0.0000	415	0	0	0	0	0	0	0	0	0	No	No	No	No	No	No
AQ SB15-0-0.7	890110	11/05/2022	10.00	16300	0.00	0.00	0.0000	438	0	0	0	0	0	0	0	0	0	No	No	No	No	No	No
AQ SB16-0.2-0.6	890110	11/05/2022	10.00	16300	0.00	0.00	0.0000	440	0	0	0	0	0	0	0	0	0	No	No	No	No	No	No
AQ SB19-0-0.9	890110	11/05/2022	10.00	16300	0.00	0.00	0.0000	350	0	0	0	0	0	0	0	0	0	No	No	No	No	No	No
AQ SB20-0-0.8	890110	11/05/2022	10.00	16300	0.00	0.00	0.0000	385	0	0	0	0	0	0	0	0	0	No	No	No	No	No	No
AQ TP01-0-1.0	890110	11/05/2022	10.00	16300	0.00	0.00	0.0000	625	0	0	0	0	0	0	0	0	0	No	No	No	No	No	No
AQ TP02-0.2-1.2	890110	11/05/2022	10.00	16300	0.00	0.00	0.0000	710	0	0	0	0	0	0	0	0	0	No	No	No	No	No	No
AQ TP02-0-0.2	890110	11/05/2022	10.00	16300	0.00	0.00	0.0000	1045	0	0	0	0	0	0	0	0	0	No	No	No	No	No	No
AQ TP04-0.1-0.4	890110	11/05/2022	10.00	16300	0.00	0.00	0.0000	651	0	0	0	0	0	0	0	0	0	No	No	No	No	No	No
AQ TP04-0-0.1	890110	11/05/2022	10.00	16300	0.00	0.00	0.0000	548	**0.4754**	**0.0475**	**0.0087**	0	0	0	0	0	0	No	No	No	No	No	No
AQ TP05-0.2-1.2	890110	11/05/2022	10.00	16300	0.00	0.00	0.0000	614	0	0	0	0	0	0	0	0	0	No	No	No	No	No	No
AQ TP05-0-0.2	890110	11/05/2022	10.00	16300	0.00	0.00	0.0000	605	0	0	0	0	0	0	0	0	0	No	No	No	No	No	No
AQ TP06-1.0-1.9	890111	11/05/2022	10.00	16300	0.00	0.00	0.0000	245	0	0	0	0	0	0	0	0	0	No	No	No	No	No	No
AQ TP07-0.2-1.1	890110	11/05/2022	10.00	16300	0.00	0.00	0.0000	625	0	0	0	0	0	0	0	0	0	No	No	No	No	No	No
AQ TP08-0.4-1.4	890110	11/05/2022	10.00	16300	0.00	0.00	0.0000	597	0	0	0	0	0	0	0	0	0	No	No	No	No	No	No
AQ TP08-0-0.4	890110	11/05/2022	10.00	16300	0.00	0.00	0.0000	564	0	0	0	0	0	0	0	0	0	No	No	No	No	No	No
AQ TP10-0.4-1.1	890111	11/05/2022	10.00	16300	0.00	0.00	0.0000	609	0	0	0	0	0	0	0	0	0	No	No	No	No	No	No
AQ TP10-0-0.3	890111	11/05/2022	10.00	16300	0.00	0.00	0.0000	530	0	0	0	0	0	0	0	0	0	No	No	No	No	No	No
AQMW01-0-1.0	890110	9/05/2022	10.00	16300	0.00	0.00	0.0000	304	0	0	0	0	0	0	0	0	0	No	No	No	No	No	No
AQSB08-0-0.4	890110	11/05/2022	10.00	16300	0.00	0.00	0.0000	591	0	0	0	0	0	0	0	0	0	No	No	No	No	No	No
AQTP03-0.1-1.1	890110	11/05/2022	10.00	16300	0.00	0.00	0.0000	554	0	0	0	0	0	0	0	0	0	No	No	No	No	No	No
AQTP03-0-0.1	890110	11/05/2022	10.00	16300	0.00	0.00	0.0000	663	0	0	0	0	0	0	0	0	0	No	No	No	No	No	No
AQTP06-1.9-2.8	890111	11/05/2022	10.00	16300	0.00	0.00	0.0000	802	0	0	0	0	0	0	0	0	0	No	No	No	No	No	No

Table C: Historical Soil Summary
Project Number: 62742
Project Name: Huntingwood - Augusta Street, Blacktown

					Metals & Metalloids								TPH					TRHs (NEPC 2013)							TPH Silica Gel			TRH Silica Gel			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)	C16-C34	C6-C10	C10-C16	C34-C40	C10-C40 (Sum of Total)	F1 (C6-C10 minus BTEX)	F2 (C10-C16 less Naphthalene)	TPH C10 - C14 SG	TPH C15 - C28 SG	TPH C29 - C36 SG	TRH C10 - C16 SG	TRH C16 - C34 SG	TRH C34 - C40 SG	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Naphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b+j)fluoranthene	Benzo(b+k)fluoranthene
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg							mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil					3000	900	3600	240000	1500	730	6000	400000																																	
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay 0-<1m																							310	NL							4	NL	NL				NL	NL							
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay 1-<2m																							480	NL							6	NL	NL				NL	NL							
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay 2-<4m																							NL	NL							9	NL	NL				NL	NL							
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay 4+m																							NL	NL							20	NL	NL				NL	NL							
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand 0-<1m																							260								3						230								
NEPM 2013 Table 1B(1-5) EIL - Comm/Ind Site Specific (WSP, 2020b)					160		660	190	1800		460	280																									370								
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil																		2500			6600		215	170							95	135	185			95								
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Course Soil																		1700			3300		215	170							75	135	165			180					1.4			
CRC Care B(a)P Guidance																																									67			
Kansas Department of Health and Environment (2002)																																												
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Fine Soil																		5000			10000																								
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Course Soil																		3500	700	1000	10,000																								
NEPM 2013 Table 7 Comm/Ind D Soil HSL for Asbestos in Soil																																											
Field ID	**Sample Depth**	**Sample Date**	**Soil Description**	**Report Reference**																																								
JBS 2010																																												
In-situ Soil Samples																																												
TP1	0-0.15	4/12/2009	Silty clay	JBS 2010	6	<0.5	16	-	39	0.3	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP002	0-0.1	3/12/2009	Silty clay	JBS 2010	8	<0.5	22	-	23	<0.1	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP003	0-0.15	3/12/2009	Silty clay	JBS 2010	7	<0.5	22	-	31	0.1	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC4 (duplicate of TP003)	0-0.15	3/12/2009	Silty clay	JBS 2010	5	<0.5	18	-	26	<0.1	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP004	0-0.1	3/12/2009	Silty clay	JBS 2010	7	<0.5	18	-	33	<0.1	41	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP005	0-0.1	3/12/2009	Silty clay	JBS 2010	21	<0.5	38	-	37	<0.1	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP006	0-0.15	3/12/2009	Silty clay	JBS 2010	12	<0.5	36	-	49	<0.1	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP007	0-0.1	3/12/2009	Silty clay	JBS 2010	14	<0.5	25	-	62	<0.1	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP008	0-0.15	3/12/2009	Fill	JBS 2010	18	<0.5	43	-	55	<0.1	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP009	0-0.1	3/12/2009	Silty clay	JBS 2010	9	<0.5	28	-	46	<0.1	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP010	0-0.15	3/12/2009	Silty clay	JBS 2010	17	<0.5	26	-	88	0.3	23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP011	0-0.15	4/12/2009	Silty clay	JBS 2010	8	<0.5	25	20	35	<0.1	12	45	<25	<50	<100	<100	<250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<1	<1	<2	<3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.2
QC7 (duplicate of TP011)	0-0.15	4/12/2009	Silty clay	JBS 2010	5	<0.5	18	18	29	<0.1	9	40	<25	<50	<100	<100	<250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<1	<1	<2	<3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.2
TP012	0-0.15	4/12/2009	Silty clay	JBS 2010	5	<0.5	19	-	40	<0.1	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP013	0-0.1	4/12/2009	Silty clay	JBS 2010	6	<0.5	18	-	42	<0.1	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP014	0-0.1	4/12/2009	Fill	JBS 2010	36	<0.5	27	25	210	<0.1	14	570	<25	<50	<100	<100	<250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<1	<1	<2	<3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.2
M3 (fragment from TP014)	surface	4/12/2009	-	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
M3 (soil under M3)	0.1	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP015	0-0.15	4/12/2009	Silty clay	JBS 2010	7	<0.5	24	-	54	<0.1	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP017	0-0.1	4/12/2009	Silty clay	JBS 2010	<4	<0.5	59	-	56	<0.1	69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP018	0-0.15	4/12/2009	Silty clay	JBS 2010	8	<0.5	15	22	27	<0.1	9	64	<25	<50	<100	<100	<250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC9 (duplucate of TP018)	0-0.15	4/12/2009	Silty clay	JBS 2010	6	<0.5	11	-	19	<0.1	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP019	0-0.15	4/12/2009	Fill	JBS 2010	11	<0.5	22	24	40	<0.1	14	120	<25	<50	<100	<100	<250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP020	0-0.15	4/12/2009	Silty clay	JBS 2010	6	<0.5	20	23	35	<0.1	14	76	<25	<50	<100	<100	<250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP021	0-0.15	4/12/2009	Silty clay	JBS 2010	9	<0.5	23	25	36	<0.1	16	86	<25	<50	<100	<100	<250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<1	<1	<2	<3	-	-	-	-	-	-	-	-
F1 (Fragment from TP022)	surface	9/12/2009	-	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FS1 (soil under F1)	0.1	9/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP022B	0-0.1	9/12/2009	Fill	JBS 2010	9	<0.5	25	-	110	<0.1	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP023	0-0.1	4/12/2009	Silty clay	JBS 2010	7	<0.5	25	-	24	<0.1	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP024B	0-0.1	9/12/2009	Silty clay	JBS 2010	10	<0.5	25	-	1100	<0.1	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP025	0-0.1	4/12/2009	Silty clay	JBS 2010	9	<0.5	66	-	32	<0.1	53	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP026	0-0.1	4/12/2009	Silty clay	JBS 2010	10	<0.5	24	-	30	<0.1	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP027	0-0.15	4/12/2009	Silty clay	JBS 2010	8	<0.5	27	-	48	<0.1	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP028	0-0.1	4/12/2009	Fill	JBS 2010	7	<0.5	23	-	40	<0.1	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP029	0-0.15	4/12/2009	Silty clay	JBS 2010	6	<0.5	200	32	21	<0.1	140	44	<25	<50	<100	<100	<250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.2
TP029	0.5-0.7	4/12/2009	Silty clay	JBS 2010	10	<0.5	93	-	23	<0.1	62	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP030	0-0.15	4/12/2009	Silty clay	JBS 2010	5	<0.5	85	-	85	<0.1	51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP031	0-0.1	4/12/2009	Silty clay	JBS 2010	7	<0.5	37	-	49	<0.1	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP032	0-0.1	4/12/2009	Fill	JBS 2010	<4	<0.5	130	32	9	<0.1	130	58	<25	<50	<100	<100	<250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.2
TP032	0.3-0.4	4/12/2009	Fill	JBS 2010	<4	<0.5	160	-	12	<0.1	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP033	0-0.15	4/12/2009	Silty clay	JBS 2010	7	<0.5	31	-	110	<0.1	29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP034	0-0.1	4/12/2009	Fill	JBS 2010	7	<0.5	150	36	19	<0.1	130	61	<25	<50	<100	<100	<250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.2
TP035	0-0.1	4/12/2009	Fill	JBS 2010	5	<0.5	120	36	20	<0.1	120	60	<25	<50	<100	<100	<250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.2
TP035	1.6-1.8	4/12/2009	Fill	JBS 2010	12	<0.5	34	-	32	<0.1	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP036	0-0.1	4/12/2009	Fill	JBS 2010	5	<0.5	170	42	17	<0.1	180	75	<25	<50	<100	<100	<250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP037	0-0.1	4/12/2009	Fill	JBS 2010	6	<0.5	89	30	21	<0.1	85	45	<25	<50	<100	<100	<250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP038	0-0.15	4/12/2009	Silty clay	JBS 2010	7	<0.5	77	-	49	<0.1	57	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP039	0-0.15	4/12/2009	Fill	JBS 2010	6	<0.5	32	23	35	<0.1	24	41	<25	<50	<100	<100	<250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP039	0.5-0.6	4/12/2009	Silty clay	JBS 2010	5	<0.5	27	-	18	<0.1	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP40	0-0.15	4/12/2009	Fill	JBS 2010	<4	<0.5	160	30	12	<0.1	140	60	<25	<50	<100	<100	<250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC6 (duplicate of TP040)	0-0.15	4/12/2009	Fill	JBS 2010	<4	<0.5	160	29	11	<0.1	130	54	<25	<50	<100	<100	<250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.2
TP041	0-0.1	4/12/2009	Fill	JBS 2010	<4	<0.5	150	36	12	<0.1	140	61	<25	<50	<100	<100	<250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP041	0.2-0.3	4/12/2009	Fill	JBS 2010	5	<0.5	140	-	15	<0.1	140	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP042	0-0.1	4/12/2009	Fill	JBS 2010	7	<0.5	68	21	22	<0.1	53	32	<25	<50	<100	<100	<250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.2
TP043	0-0.15	4/12/2009	Fill	JBS 2010	<4	<0.5	140	26	8	<0.1	140	45	<25	<50	<100	<100	<250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.2
TP044	0-0.1	4/12/2009	Fill	JBS 2010	7	<0.5	18	19	32	<0.1	10	36	<25	<50	<100	<100	<250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.2
TP045	0-0.15	4/12/2009	Silty clay	JBS 2010	10	<0.5	26	-	39	<0.1	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC5 (duplicate of TP045)	0-0.15	4/12/2009	Silty clay	JBS 2010	6	<0.5	18	-	30	<0.1	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP046B	0-0.1	9/12/2009	Silty clay	JBS 2010	11	<0.5	13	-	54	<0.1	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP047	0-0.1	4/12/2009	Silty clay	JBS 2010	9	<0.5	21	-	38	<0.1	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP048	0-0.1	4/12/2009	Silty clay	JBS 2010	9	<0.5	16	-	36	<0.1	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP049	0.4-0.6	4/12/2009	Silty clay	JBS 2010	9	<0.5	22	23	19	<0.1	33	48	<25	<50	<100	<100	<250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<1	<1	<2	<3	0.1	<0.1	0.2	0.1	0.2	0.3	-	0.4

Table C: Historical Soil Summary
Project Number: 62742
Project Name: Huntingwood - Augusta Street, Blacktown

						Metals & Metalloids								TPH					TRHs (NEPC 2013)							TPH Silica Gel			TRH Silica Gel			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)	C16-C34	C6-C10	C10-C16	C34-C40	C10-C40 (Sum of Total)	F1 (C6-C10 minus BTEX)	F2 (C10-C16 less Naphthalene)	TPH C10 - C14 SG	TPH C15 - C28 SG	TPH C29 - C36 SG	TRH C10 - C16 SG	TRH C16 - C34 SG	TRH C34 - C40 SG	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Naphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b+j)fluoranthene	Benzo(b+k)fluoranthene
						mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg							mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil						3000	900	3600	240000	1500	730	6000	400000																																	
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay 0-<1m																								310	NL						4	NL	NL				NL	NL							
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay 1-<2m																								480	NL						6	NL	NL				NL	NL							
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay 2-<4m																								NL	NL						9	NL	NL				NL	NL							
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay 4+m																								NL	NL						20	NL	NL				NL	NL							
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand 0-<1m																								260							3						230								
NEPM 2013 Table 1B(1-5) EIL - Comm/Ind Site Specific (WSP, 2020b)						160		660	190	1800		460	280																								370								
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil																			2500			6600		215	170							95	135	185			95								
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Course Soil																			1700			3300		215	170							75	135	165			180					1.4			
CRC Care B(a)P Guidance																																									67			
Kansas Department of Health and Environment (2002)																																												
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Fine Soil																			5000			10000																								
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Course Soil																			3500	700	1000	10,000																								
NEPM 2013 Table 7 Comm/Ind D Soil HSL for Asbestos in Soil																																											
Field ID	**Sample Depth**	**Sample Date**	**Soil Description**	**Report Reference**																																									
TP049B	Stockpile	9/12/2009	Silty clay	JBS 2010		12	<0.5	29	-	1600	<0.1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP050	0-0.1	3/12/2009	Silty clay	JBS 2010		6	<0.5	20	-	25	<0.1	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP051	0-0.1	3/12/2009	Silty clay	JBS 2010		7	<0.5	20	-	26	<0.1	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP052	0-0.1	3/12/2009	Silty clay	JBS 2010		7	<0.5	20	-	48	<0.1	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP053	0-0.1	3/12/2009	Silty clay	JBS 2010		8	<0.5	20	-	27	<0.1	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP054	0-0.1	3/12/2009	Silty clay	JBS 2010		19	<0.5	23	-	23	<0.1	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP055	0-0.1	3/12/2009	Silty clay	JBS 2010		8	<0.5	19	-	34	<0.1	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP056	0-0.1	3/12/2009	Fill	JBS 2010		9	<0.5	18	-	66	<0.1	23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP057	0-0.1	3/12/2009	Silty clay	JBS 2010		8	<0.5	18	-	38	<0.1	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP058	0-0.1	3/12/2009	Silty clay	JBS 2010		9	<0.5	19	-	34	<0.1	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP059	0-0.15	3/12/2009	Silty clay	JBS 2010		8	<0.5	20	-	44	0.2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP060	0-0.15	3/12/2009	Silty clay	JBS 2010		7	<0.5	20	-	36	<0.1	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP061	0-0.15	3/12/2009	Silty clay	JBS 2010		7	<0.5	18	-	35	<0.1	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC1 (duplicate of TP061)	0-0.15	3/12/2009	Silty clay	JBS 2010		6	<0.5	12	-	24	<0.1	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP062	0-0.15	3/12/2009	Silty clay	JBS 2010		10	<0.5	16	-	56	<0.1	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP063	0-0.15	3/12/2009	Fill	JBS 2010		11	<0.5	20	41	74	0.2	12	300	<25	<50	<100	<100	<250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.2
M1 (Fragment fron TP063)	surface	3/12/2009	-	JBS 2010		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP063	0.2-0.3	3/12/2009	Fill	JBS 2010		12	<0.5	24	-	20	<0.1	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP064	0-0.15	3/12/2009	Silty clay	JBS 2010		11	<0.5	19	-	24	<0.1	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP065	0-0.15	3/12/2009	Silty clay	JBS 2010		6	<0.5	18	-	32	<0.1	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP066	0-0.15	3/12/2009	Silty clay	JBS 2010		8	<0.5	15	-	32	<0.1	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP067	0-0.1	3/12/2009	Silty clay	JBS 2010		8	<0.5	15	-	56	<0.1	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP068	0-0.1	3/12/2009	Silty clay	JBS 2010		7	<0.5	17	-	20	<0.1	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP069	0-0.15	3/12/2009	Fill	JBS 2010		7	<0.5	14	31	23	<0.1	11	59	<25	<50	<100	<100	<250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<1	<1	<2	<3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.2
TP069	0.5-0.6	3/12/2009	Fill	JBS 2010		6	<0.5	17	-	15	<0.1	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP070	0-0.15	3/12/2009	Silty clay	JBS 2010		8	<0.5	20	-	56	<0.1	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP071	0-0.1	3/12/2009	Silty clay	JBS 2010		9	<0.5	18	-	22	<0.1	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP072	0-0.1	3/12/2009	Silty clay	JBS 2010		11	<0.5	22	-	29	<0.1	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP073	0-0.1	3/12/2009	Silty clay	JBS 2010		9	<0.5	18	-	20	<0.1	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP074	0-0.1	3/12/2009	Silty clay	JBS 2010		7	<0.5	20	-	20	<0.1	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP075	0-0.1	3/12/2009	Silty clay	JBS 2010		7	<0.5	20	-	30	<0.1	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP076	0-0.1	3/12/2009	Silty clay	JBS 2010		5	<0.5	14	-	17	<0.1	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP077	0-0.15	3/12/2009	Silty clay	JBS 2010		12	<0.5	27	-	43	<0.1	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP078	0-0.15	3/12/2009	Silty clay	JBS 2010		10	<0.5	24	-	40	<0.1	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC3 (duplciate of TP078)	0-0.15	3/12/2009	Silty clay	JBS 2010		6	<0.5	15	-	21	<0.1	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP079	0-0.15	3/12/2009	Silty clay	JBS 2010		10	<0.5	14	-	25	<0.1	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC2 (duplicate of TP080)	0-0.15	3/12/2009	Silty clay	JBS 2010		6	<0.5	13	-	24	0.1	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP080	0-0.15	3/12/2009	Silty clay	JBS 2010		7	<0.5	16	-	30	<0.1	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP111	0-0.1	3/12/2009	Fill	JBS 2010		8	<0.5	29	22	56	<0.1	15	95	<25	<50	<100	<100	<250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<1	<1	<2	<3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.2
TP111-F1 (Frgment from TP111)	surface	4/12/2009	-	JBS 2010		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA112	0-0.1	7/04/2010	Silty clay	JBS 2010		-	-	-	-	43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA113	0-0.1	7/04/2010	Silty clay	JBS 2010		-	-	-	-	160	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA114	0-0.1	7/04/2010	Silty clay	JBS 2010		-	-	-	-	42	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA115	0-0.1	7/04/2010	Silty clay	JBS 2010		-	-	-	-	26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA116	0-0.1	7/04/2010	Silty clay	JBS 2010		-	-	-	-	31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA117	0-0.1	7/04/2010	Silty clay	JBS 2010		-	-	-	-	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA118	0-0.1	7/04/2010	Silty clay	JBS 2010		-	-	-	-	26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA119	0-0.1	7/04/2010	Silty clay	JBS 2010		-	-	-	-	36	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA120	0-0.1	7/04/2010	Silty clay	JBS 2010		-	-	-	-	48	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA121	0-0.1	7/04/2010	Silty clay	JBS 2010		-	-	-	-	51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA122	0-0.1	7/04/2010	Silty clay	JBS 2010		-	-	-	-	62	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA123	0-0.1	7/04/2010	Silty clay	JBS 2010		-	-	-	-	160	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA124	0-0.1	7/04/2010	Silty clay	JBS 2010		-	-	-	-	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA125	0-0.1	7/04/2010	Silty clay	JBS 2010		-	-	-	-	140	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA126	0-0.1	7/04/2010	Silty clay	JBS 2010		-	-	-	-	75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA127	0-0.1	7/04/2010	Silty clay	JBS 2010		-	-	-	-	190	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA128	0-0.1	7/04/2010	Silty clay	JBS 2010		-	-	-	-	330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA129	0-0.1	7/04/2010	Silty clay	JBS 2010		-	-	-	-	79	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA130	0-0.1	7/04/2010	Silty clay	JBS 2010		10	<0.5	18	30	180	<0.1	11	480	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA131	0-0.1	7/04/2010	Silty clay	JBS 2010		16	<0.5	25	87	130	<0.1	13	580	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Stockpile Samples																																																
TP081	0.4-0.6	4/12/2009	Fill	JBS 2010		9	<0.5	18	32	210	<0.1	10	290	<25	<50	<100	<100	<250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	0.06	-	<0.2
TP082	0.4-0.6	4/12/2009	Fill	JBS 2010		8	<0.5	14	45	42	<0.1	9	150	<25	<50	<100	<100	<250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	0.2	0.2	-	0.4
SP83	0.4-0.6	4/12/2009	Fill	JBS 2010		<4	<0.5	5	4	6	<0.1	2	13	<25	<50	<100	<100	<250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.2

Table C: Historical Soil Summary
Project Number: 62742
Project Name: Huntingwood - Augusta Street, Blacktown

	Metals & Metalloids								TPH					TRHs (NEPC 2013)							TPH Silica Gel			TRH Silica Gel			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)	C16-C34	C6-C10	C10-C16	C34-C40	C10-C40 (Sum of Total)	F1 (C6-C10 minus BTEX)	F2 (C10-C16 less Naphthalene)	TPH C10 - C14 SG	TPH C15 - C28 SG	TPH C29 - C36 SG	TRH C10 - C16 SG	TRH C16 - C34 SG	TRH C34 - C40 SG	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Naphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b+j)fluoranthene	Benzo(b+k)fluoranthene
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg							mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil	3000	900	3600	240000	1500	730	6000	400000																															
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay 0-<1m																			310	NL							4	NL	NL				NL	NL							
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay 1-<2m																			480	NL							6	NL	NL				NL	NL							
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay 2-<4m																			NL	NL							9	NL	NL				NL	NL							
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay 4+m																			NL	NL							20	NL	NL				NL	NL							
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand 0-<1m																			260								3						230								
NEPM 2013 Table 1B(1-5) EIL - Comm/Ind Site Specific (WSP, 2020b)	160		660	190	1800		460	280																									370							
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil														2500			6600		215	170							95	135	185				95								
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Course Soil														1700			3300		215	170							75	135	165				180					1.4			
CRC Care B(a)P Guidance																																						67			
Kansas Department of Health and Environment (2002)																																									
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Fine Soil														5000			10000																								
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Course Soil														3500	700	1000	10,000																								
NEPM 2013 Table 7 Comm/Ind D Soil HSL for Asbestos in Soil																																									

Field ID	Sample Depth	Sample Date	Soil Description	Report Reference																																						
M2 (Fragment from SP83)	-	4/12/2009	-	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP084	0.4-0.6	4/12/2009	Fill	JBS 2010	<4	<0.5	5	17	16	<0.1	4	54	<25	<50	<100	<100	<250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	0.06	-	<0.2
TP085	0.4-0.6	4/12/2009	Fill	JBS 2010	5	<0.5	17	25	21	<0.1	13	46	<25	<50	<100	<100	<250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.2
M4 (Fragment from TP085)	0.6	4/12/2009	-	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP086	0-0.15	4/12/2009	Fill	JBS 2010	7	<0.5	30	49	35	<0.1	26	200	<25	<50	<100	<100	<250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.2
TP087	0.4-0.6	4/12/2009	Fill	JBS 2010	<4	<0.5	32	50	11	<0.1	63	60	<25	<50	<100	<100	<250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.2
TP088	0.4-0.6	4/12/2009	Fill	JBS 2010	9	<0.5	17	34	24	<0.1	26	65	<25	<50	<100	<100	<250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.2
TP089	0.4-0.6	4/12/2009	Fill	JBS 2010	9	<0.5	19	25	40	<0.1	17	46	<25	<50	<100	<100	<250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.2
TP090	0.4-0.6	3/12/2009	Fill	JBS 2010	10	<0.5	24	16	28	<0.1	5	34	<25	<50	<100	<100	<250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.2
TP091	0.4-0.6	3/12/2009	Fill	JBS 2010	7	<0.5	21	24	33	<0.1	12	48	<25	<50	<100	<100	<250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<1	<1	<2	<3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.2
TP092	0.4-0.6	3/12/2009	Fill	JBS 2010	7	<0.5	17	26	38	<0.1	10	67	<25	<50	<100	<100	<250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<1	<1	<2	<3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.2
SP093	0.4-0.6	4/12/2009	Fill	JBS 2010	<4	<0.5	6	5	13	<0.1	2	14	<25	<50	<100	<100	<250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	0.1	0.1	-	0.2
SP095	0.4-0.6	3/12/2009	Fill	JBS 2010	6	<0.5	8	31	42	<0.1	9	52	<25	<50	450	430	905	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	0.2	1	1.5	7	13	-	16
SP096	0.4-0.6	3/12/2009	Fill	JBS 2010	21	<0.5	19	38	18	<0.1	17	64	<25	<50	<100	<100	<250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.2
TP097	0.4-0.6	3/12/2009	Fill	JBS 2010	6	<0.5	13	19	36	<0.1	6	210	<25	<50	<100	<100	<250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<1	<1	<2	<3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.2
F1 (Fragment from TP097)	-	3/12/2009	-	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP098	0.4-0.6	3/12/2009	Fill	JBS 2010	6	<0.5	24	14	29	<0.1	10	30	<25	<50	<100	<100	<250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.2
TP098a	0-0.15	3/12/2009	Fill	JBS 2010	7	<0.5	16	23	24	<0.1	10	47	<25	<50	<100	<100	<250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.2
TP099	0.4-0.6	3/12/2009	Fill	JBS 2010	6	<0.5	15	11	15	<0.1	4	13	<25	<50	<100	<100	<250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<1	<1	<2	<3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.2
TP100	0.4-0.6	3/12/2009	Fill	JBS 2010	6	<0.5	15	13	18	<0.1	5	24	<25	<50	<100	<100	<250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<1	<1	<2	<3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.2
SP101	0.4-0.6	3/12/2009	Fill	JBS 2010	9	<0.5	20	10	16	<0.1	3	10	<25	<50	<100	<100	<250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.2
SP102	0.4-0.6	3/12/2009	Fill	JBS 2010	5	<0.5	18	10	17	<0.1	4	15	<25	<50	<100	<100	<250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.2
TP103	0.4-0.6	3/12/2009	Fill	JBS 2010	5	<0.5	16	-	16	<0.1	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP104	0.4-0.6	3/12/2009	Fill	JBS 2010	<4	<0.5	3	4	20	<0.1	2	25	<25	<50	<100	<100	<250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.2
TP105	0.4-0.6	3/12/2009	Fill	JBS 2010	4	<0.5	12	15	38	<0.1	6	290	<25	<50	460	640	1125	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.2
TP110	0.4-0.6	3/12/2009	Fill	JBS 2010	9	<0.5	6	18	41	<0.1	3	66	<25	<50	<100	<100	<250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.2
WSP 2020																																											
In-situ Soil Samples																																											
MW01_0.5	0.5	22/04/2020	Fill - Sandy clay	WSP 2020	14	<0.4	17	27	21	<0.1	7.6	42	-	-	-	-	-	<100	< 20	< 50	<100	< 100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
MW01_3.0	3	22/04/2020	Natural - Clayey sand	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW02_0.0	0	22/04/2020	Natural - Sandy clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW02_4.0	4	22/04/2020	Natural - Shale	WSP 2020	7.1	<0.4	12	42	15	<0.1	18	57	-	-	-	-	-	<100	<20	<50	<100	< 100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
MW02_6.0	6	22/04/2020	Natural - Shale	WSP 2020	21	<0.4	16	50	17	<0.1	29	98	-	-	-	-	-	<100	<20	<50	<100	< 100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
MW03_0.0	0	22/04/2020	Natural - Silty clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW03_1.0	1	22/04/2020	Natural - Silty clay	WSP 2020	7.5	<0.4	21	22	19	<0.1	11	36	-	-	-	-	-	<100	<20	<50	<100	< 100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
MW03_2.0	2	22/04/2020	Natural - Silty clay	WSP 2020	6.9	<0.4	14	19	12	<0.1	<5	16	-	-	-	-	-	<100	< 20	< 50	<100	< 100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
TP01_0.5	0.5	22/04/2020	Natural - Clay	WSP 2020	13	<0.4	25	27	16	<0.1	<5	21	-	-	-	-	-	<100	< 20	< 50	<100	< 100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
TP02_0.5	0.5	22/04/2020	Natural - Sandy clay	WSP 2020	12	<0.4	29	21	21	<0.1	11	34	-	-	-	-	-	<100	< 20	< 50	<100	< 100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
TP03_0.8	0.8	22/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP04_0.1	0.1	22/04/2020	Natural - Silty clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP04_0.6	0.6	22/04/2020	Natural - Clay	WSP 2020	12	<0.4	29	24	19	<0.1	9.8	36	-	-	-	-	-	<100	< 20	< 50	<100	< 100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
TPS1_0.0	0	23/04/2020	Natural - Silty clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPS2_0.0	0	23/04/2020	Natural - Silty clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPS3_0.5	0.5	23/04/2020	Fill - Silty gravel	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPS4_0.0	0	23/04/2020	Natural - Silty clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPS5_0.0	0	23/04/2020	Natural - Silty clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPS6_0.5	0.5	23/04/2020	Natural - Silty clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPS7_0.5	0.5	23/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPS8_0.5	0.5	23/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Stockpile Samples																																											
SPA1_0.1	0.1	24/04/2020	Surface - Silty sand	WSP 2020	9.2	<0.4	27	42	32	<0.1	35	95	-	-	-	-	-	<100	<20	<50	<100	<100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
SPA1_0.5	0.5	24/04/2020	Fill - Silty sand	WSP 2020	2.9	<0.4	13	27	13	<0.1	22	61	-	-	-	-	-	<100	<20	<50	<100	<100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
SPA1_1.0	1	24/04/2020	Fill - Silty sand	WSP 2020	3.7	<0.4	13	32	15	<0.1	18	71	-	-	-	-	-	<100	<20	<50	<100	<100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
SPA1_2.0	2	24/04/2020	Natural - Silty clay	WSP 2020	8.8	<0.4	23	22	18	<0.1	11	40	-	-	-	-	-	<100	<20	<50	<100	<100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
SPA2_0.5	0.5	24/04/2020	Fill - Silty clay	WSP 2020	7	<0.4	22	52	27	<0.1	36	97	-	-	-	-	-	<100	<20	<50	<100	<100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
SPA2_2.0	2	24/04/2020	Natural - Clay	WSP 2020	8.9	<0.4	22	20	21	<0.1	13	37	-	-	-	-	-	<100	<20	<50	<100	<100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
SPA2_PACM	-	24/04/2020	-	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SPB1_0.1	0.1	24/04/2020	Fill - Silty sand	WSP 2020	4.5	<0.4	53	45	15	<0.1	60	79	-	-	-	-	-	<100	<20	<50	<100	<100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
SPB1_1.0	1	24/04/2020	Natural - Clay	WSP 2020	7.6	<0.4	20	25	22	<0.1	10	43	-	-	-	-	-	<100	<20	<50	<100	<100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
SPC1_0.5	0.5	24/04/2020	Fill - Silty sand	WSP 2020	13	<0.4	36	37	77	<0.1	19	240	-	-	-	-	-	<100	<20	<50	<100	<100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
SPC1_2.0	2	24/04/2020	Natural - Silty clay	WSP 2020	5.6	<0.4	12	19	21	<0.1	7	41	-	-	-	-	-	<100	<20	<50	<100	<100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
SP83_0.1	0.1	23/04/2020	Natural - Silty clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP83_0.5	0.5	23/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP84_0.3	0.3	23/04/2020	Fill - Silty clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table C: Historical Soil Summary
Project Number: 62742
Project Name: Huntingwood - Augusta Street, Blacktown

	Metals & Metalloids								TPH					TRHs (NEPC 2013)							TPH Silica Gel			TRH Silica Gel			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)	C16-C34	C6-C10	C10-C16	C34-C40	C10-C40 (Sum of Total)	F1 (C6-C10 minus BTEX)	F2 (C10-C16 less Naphthalene)	TPH C10 - C14 SG	TPH C15 - C28 SG	TPH C29 - C36 SG	TRH C10 - C16 SG	TRH C16 - C34 SG	TRH C34 - C40 SG	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Naphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b+j)fluoranthene	Benzo(b+k)fluoranthene
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg							mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil	3000	900	3600	240000	1500	730	6000	400000																															
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay 0-<1m																			310	NL							4	NL	NL				NL	NL							
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay 1-<2m																			480	NL							6	NL	NL				NL	NL							
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay 2-<4m																			NL	NL							9	NL	NL				NL	NL							
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay 4+m																			NL	NL							20	NL	NL				NL	NL							
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand 0-<1m																			260								3						230								
NEPM 2013 Table 1B(1-5) EIL - Comm/Ind Site Specific (WSP, 2020b)	160		660	190	1800		460	280																									370							
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil														2500			6600		215	170							95	135	185				95								
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Course Soil														1700			3300		215	170							75	135	165				180					1.4			
CRC Care B(a)P Guidance																																						67			
Kansas Department of Health and Environment (2002)																																									
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Fine Soil														5000			10000																								
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Course Soil														3500	700	1000	10,000																								
NEPM 2013 Table 7 Comm/Ind D Soil HSL for Asbestos in Soil																																									

Field ID	Sample Depth	Sample Date	Soil Description	Report Reference																																						
SP84_0.9	0.9	23/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP88_0.1 (A)	0.1	24/04/2020	Fill - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP88_1.0	1	24/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP104_1_0.1	0.1	24/04/2020	Natural - Silty clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP104_1_0.5	0.5	24/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP105_1_0.1	0.1	24/04/2020	Natural - Silty clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	<100	<20	<50	<100	<100	<20	<50	-	-	-	-	-	-	-	-	-	-	-	<0.5	-	-	-	-	-	-	-
SP105_1_0.5	0.5	24/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	<100	<20	<50	<100	<100	<20	<50	-	-	-	-	-	-	-	-	-	-	-	<0.5	-	-	-	-	-	-	-
SP105_1_1.0	1	24/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	<100	<20	<50	<100	<100	<20	<50	-	-	-	-	-	-	-	-	-	-	-	<0.5	-	-	-	-	-	-	-
TP14_0.1	0.1	24/04/2020	Fill - Gravelly sand	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP14_0.5	0.5	24/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP14_1.0	1	24/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP022_0.0	0	22/04/2020	Natural - Silty clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP111_0.0	0	22/04/2020	Fill - Silty clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP111_0.5	0.5	22/04/2020	Natural - Clay	WSP 2020	11	<0.4	22	25	13	<0.1	13	33	-	-	-	-	-	<100	< 20	< 50	<100	< 100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
F1_1_0.1	0.1	24/04/2020	-	WSP 2020	11	<0.4	26	18	33	<0.1	10	80	-	-	-	-	-	<100	< 20	< 50	<100	< 100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
F1_1_0.5	0.5	24/04/2020	-	WSP 2020	8.4	<0.4	20	17	17	<0.1	9.6	34	-	-	-	-	-	<100	< 20	< 50	<100	< 100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
F1_1_1.0	1	24/04/2020	-	WSP 2020	8.7	<0.4	21	20	19	<0.1	11	48	-	-	-	-	-	<100	< 20	< 50	<100	< 100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
F1_2_0.1	0.1	24/04/2020	-	WSP 2020	5.1	0.5	11	21	41	<0.1	7.7	110	-	-	-	-	-	120	< 20	< 50	<100	120	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
F1_2_0.5	0.5	24/04/2020	-	WSP 2020	10	<0.4	20	19	14	<0.1	6.3	26	-	-	-	-	-	<100	< 20	< 50	<100	<100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
F1_2_1.0	1	24/04/2020	-	WSP 2020	9.7	<0.4	23	22	15	<0.1	6.6	27	-	-	-	-	-	<100	< 20	< 50	<100	<100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
F1_3_0.1	0.1	24/04/2020	-	WSP 2020	11	<0.4	18	18	15	<0.1	5.8	33	-	-	-	-	-	<100	< 20	< 50	<100	<100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
F1_3_0.5	0.5	24/04/2020	-	WSP 2020	20	<0.4	17	28	12	<0.1	7.8	44	-	-	-	-	-	<100	< 20	< 50	<100	<100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
F1_4_0.1	0.1	24/04/2020	-	WSP 2020	9.5	<0.4	17	18	14	<0.1	6.6	34	-	-	-	-	-	<100	< 20	< 50	<100	<100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
F1_4_0.5	0.5	24/04/2020	-	WSP 2020	15	<0.4	18	22	15	<0.1	6.9	46	-	-	-	-	-	<100	< 20	< 50	<100	<100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
F1_5_0.5	0.5	24/04/2020	-	WSP 2020	16	<0.4	16	31	10	<0.1	7.1	47	-	-	-	-	-	<100	< 20	< 50	<100	<100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
F1_6_0.5	0.5	24/04/2020	-	WSP 2020	9.8	<0.4	23	25	14	<0.1	6.3	29	-	-	-	-	-	<100	< 20	< 50	<100	<100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
F2_1_0.1	0.1	24/04/2020	Fill - Silty sand	WSP 2020	9.5	<0.4	39	41	62	<0.1	36	160	-	-	-	-	-	170	< 20	< 50	<100	170	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
F2_1_0.5	0.5	24/04/2020	Natural - Clay	WSP 2020	7.3	<0.4	21	30	19	<0.1	<5	25	-	-	-	-	-	<100	< 20	< 50	<100	<100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
F2_2_0.1	0.1	24/04/2020	Fill - Silty sand	WSP 2020	6.9	<0.4	29	43	53	<0.1	21	280	-	-	-	-	-	140	< 20	< 50	<100	140	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
F2_2_0.3	0.3	24/04/2020	Fill - Silty sand	WSP 2020	14	<0.4	35	34	25	<0.1	22	93	-	-	-	-	-	<100	< 20	< 50	<100	<100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
F2_2_0.5	0.5	24/04/2020	Natural - Clay	WSP 2020	15	<0.4	38	31	33	<0.1	23	82	-	-	-	-	-	<100	< 20	< 50	<100	<100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
F2_2_1.0	1	24/04/2020	Natural - Clay	WSP 2020	6	<0.4	19	24	13	<0.1	6.7	35	-	-	-	-	-	<100	< 20	< 50	<100	<100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
F2_3_0.1	0.1	24/04/2020	Fill - Silty sand	WSP 2020	5	<0.4	38	30	51	<0.1	28	200	-	-	-	-	-	170	< 20	< 50	<100	170	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
F2_3_0.3	0.3	24/04/2020	Fill - Silty sand	WSP 2020	12	<0.4	29	28	34	<0.1	20	140	-	-	-	-	-	<100	< 20	< 50	<100	<100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
F2_3_0.5	0.5	24/04/2020	Natural - Clay	WSP 2020	9	<0.4	40	51	55	<0.1	25	350	-	-	-	-	-	<100	< 20	< 50	<100	<100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
F2_3_1.0	1	24/04/2020	Natural - Clay	WSP 2020	9.2	<0.4	32	34	38	<0.1	19	200	-	-	-	-	-	<100	< 20	< 50	<100	<100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
F2_4_0.1	0.1	24/04/2020	Fill - Silty clay	WSP 2020	5.7	<0.4	19	34	45	<0.1	14	200	-	-	-	-	-	<100	< 20	< 50	<100	<100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
F2_4_0.3	0.3	24/04/2020	Fill - Silty clay	WSP 2020	6.9	<0.4	18	26	35	<0.1	11	91	-	-	-	-	-	<100	< 20	< 50	<100	<100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
F2_4_0.5	0.5	24/04/2020	Fill - Silty clay	WSP 2020	12	0.7	56	110	83	<0.1	38	560	-	-	-	-	-	<100	< 20	< 50	<100	<100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
F2_4_1.0	1	24/04/2020	Natural - Clay	WSP 2020	9.1	<0.4	22	28	32	<0.1	13	100	-	-	-	-	-	<100	< 20	< 50	<100	<100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
F2_5_0.1	0.1	24/04/2020	Fill - Silty sand	WSP 2020	5.4	<0.4	23	40	360	<0.1	15	310	-	-	-	-	-	<100	< 20	< 50	<100	<100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
F2_5_0.5	0.5	24/04/2020	Natural - Clay	WSP 2020	14	0.6	49	92	76	<0.1	29	480	-	-	-	-	-	<100	< 20	< 50	<100	<100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
F2_6_0.1	0.1	24/04/2020	Fill - Silty sand	WSP 2020	13	<0.4	33	46	71	<0.1	19	400	-	-	-	-	-	<100	< 20	< 50	<100	<100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
F2_6_0.5	0.5	24/04/2020	Natural - Clay	WSP 2020	9.2	<0.4	28	39	27	<0.1	7.4	48	-	-	-	-	-	<100	< 20	< 50	<100	<100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
F2_7_0.5	0.5	24/04/2020	Natural - Clay	WSP 2020	14	<0.4	38	38	33	<0.1	13	55	-	-	-	-	-	<100	< 20	< 50	<100	<100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
F3_1_0.1	0.1	24/04/2020	Fill - Silty sand	WSP 2020	11	<0.4	26	20	43	<0.1	12	140	-	-	-	-	-	<100	< 20	< 50	<100	<100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
F3_1_0.5	0.5	24/04/2020	Natural - Silty clay	WSP 2020	11	<0.4	17	26	18	<0.1	6	50	-	-	-	-	-	<100	< 20	< 50	<100	<100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
F3_1_1.0	1	24/04/2020	Natural - sandstone	WSP 2020	6.6	<0.4	9.1	26	19	<0.1	9.7	55	-	-	-	-	-	<100	< 20	< 50	<100	<100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
F3_2_0.1	0.1	24/04/2020	Fill - Silty sand	WSP 2020	7.3	<0.4	41	42	60	<0.1	37	190	-	-	-	-	-	<100	< 20	< 50	<100	<100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
F3_2_0.5	0.5	24/04/2020	Natural - Clay	WSP 2020	9.3	<0.4	15	32	14	<0.1	6.9	37	-	-	-	-	-	<100	< 20	< 50	<100	<100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
F3_3_0.1	0.1	24/04/2020	Fill - Silty sand	WSP 2020	10	<0.4	28	27	49	<0.1	15	260	-	-	-	-	-	<100	< 20	< 50	<100	<100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
F3_3_0.5	0.5	24/04/2020	Natural - Clay	WSP 2020	23	<0.4	19	55	19	<0.1	7.2	54	-	-	-	-	-	<100	< 20	< 50	<100	<100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
F3_4_0.1	0.1	24/04/2020	Fill - Silty sand	WSP 2020	10	<0.4	25	23	38	<0.1	12	120	-	-	-	-	-	<100	< 20	< 50	<100	<100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
F3_4_0.5	0.5	24/04/2020	Natural - Clay	WSP 2020	5.9	<0.4	12	16	13	<0.1	<5	20	-	-	-	-	-	<100	< 20	< 50	<100	<100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
F3_5_0.5	0.5	24/04/2020	Natural - Clay	WSP 2020	4.5	<0.4	10	19	12	<0.1	<5	19	-	-	-	-	-	<100	< 20	< 50	<100	<100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
JBS&G 2021																																									
Stockpile Samples																																									
JSP01_01	-	26/10/2021	-	JBS&G 2021	8.8	<0.4	24	29	23	<0.1	9.6	70	<20	<20	<50	<50	<50	<100	<20	<50	<100	<100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
JSP02_01	-	26/10/2021	-	JBS&G 2021	11	<0.4	28	33	52	<0.1	9.9	170	<20	<20	<50	76	76	<100	<20	<50	<100	<100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SP02_01	-	27/10/2021	-	JBS&G 2021	5.5	<0.4	13	49	840	0.6	5.8	340	<20	<20	66	57	123	110	<20	<50	<100	110	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SP02_02	-	27/10/2021	-	JBS&G 2021	23	<0.4	27	40	170	<0.1	16	200	<20	<20	<50	<50	<50	<100	<20	<50	<100	<100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
QC02 (dupicate of SP02_02)	-	27/10/2021	-	JBS&G 2021	25	<0.4	25	44	170	<0.1	15	230	<20	<20	<50	<50	<50	<100	<20	<50	<100	<100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
QA02 (triplicate of SP02_02)	-	27/10/2021	-	JBS&G 2021	15	<0.4	22	39	90	<0.1	13	290	<25	<50	<100	<100	<50	<100	<25	<50	<100	<50	<25	<50	-	-	-	-	-	-	<0.2	<0.5	<1	<1	<2	<3	<0.1	<0.1	<0.1	0.1	<0.05	-	<0.1
SP05_01	-	27/10/2021	-	JBS&G 2021	8.3	<0.4	22	32	20	<0.1	14	150	<20	<20	<50	59	59	<100	<20	<50	<100	<100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Table C: Historical Soil Summary
Project Number: 62742
Project Name: Huntingwood - Augusta Street, Blacktown

					Metals & Metalloids								TPH					TRHs (NEPC 2013)							TPH Silica Gel			TRH Silica Gel			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)	C16-C34	C6-C10	C10-C16	C34-C40	C10-C40 (Sum of Total)	F1 (C6-C10 minus BTEX)	F2 (C10-C16 less Naphthalene)	TPH C10 - C14 SG	TPH C15 - C28 SG	TPH C29 - C36 SG	TRH C10 - C16 SG	TRH C16 - C34 SG	TRH C34 - C40 SG	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Naphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b+j)fluoranthene	Benzo(b+k)fluoranthene
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg							mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil					3000	900	3600	240000	1500	730	6000	400000																																	
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay 0-<1m																							310	NL							4	NL	NL				NL	NL							
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay 1-<2m																							480	NL							6	NL	NL				NL	NL							
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay 2-<4m																							NL	NL							9	NL	NL				NL	NL							
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay 4+m																							NL	NL							20	NL	NL				NL	NL							
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand 0-<1m																							260								3						230								
NEPM 2013 Table 1B(1-5) EIL - Comm/Ind Site Specific (WSP, 2020b)					160		660	190	1800		460	280																									370								
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil																		2500			6600		215	170							95	135	185			95								
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Course Soil																		1700			3300		215	170							75	135	165			180					1.4		
CRC Care B(a)P Guidance																																									67		
Kansas Department of Health and Environment (2002)																																											
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Fine Soil																		5000			10000																								
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Course Soil																		3500	700	1000	10,000																								
NEPM 2013 Table 7 Comm/Ind D Soil HSL for Asbestos in Soil																																											
Field ID	**Sample Depth**	**Sample Date**	**Soil Description**	**Report Reference**																																								
SP05_02	-	27/10/2021	-	JBS&G 2021	10	<0.4	21	28	100	<0.1	17	240	<20	<20	<50	70	70	<100	<20	<50	<100	<100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SP06_01	-	27/10/2021	-	JBS&G 2021	5.4	<0.4	10	15	13	<0.1	<5	27	<20	<20	<50	<50	<50	<100	<20	<50	<100	<100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SP06_02	-	27/10/2021	-	JBS&G 2021	12	<0.4	27	32	53	<0.1	15	180	<20	<20	<50	<50	<50	<100	<20	<50	<100	<100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SP06_03	-	27/10/2021	-	JBS&G 2021	7.5	<0.4	25	33	26	<0.1	7.6	90	<20	<20	<50	<50	<50	<100	<20	<50	<100	<100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SP06_04	-	27/10/2021	-	JBS&G 2021	8.8	<0.4	34	43	54	<0.1	17	270	<20	<20	<50	<50	<50	<100	<20	<50	<100	<100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SP06_05	-	27/10/2021	-	JBS&G 2021	7.5	<0.4	30	40	34	<0.1	21	190	<20	<20	<50	<50	<50	<100	<20	<50	<100	<100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SP06_06	-	27/10/2021	-	JBS&G 2021	7.2	<0.4	25	24	25	<0.1	16	95	<20	<20	<50	<50	<50	<100	<20	<50	<100	<100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SP14_01	-	26/10/2021	-	JBS&G 2021	<2	<0.4	6.6	<5	10	<0.1	<5	15	<20	<20	<50	<50	<50	<100	<20	<50	<100	<100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SP18_01	-	26/10/2021	-	JBS&G 2021	13	<0.4	19	35	37	<0.1	20	68	<20	<40	590	180	770	890	<20	<100	290	1180	<20	<100	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	1.2	0.7	2.4	5.7	9.8	6.8	5
SP18_02	-	26/10/2021	-	JBS&G 2021	6.3	<0.4	14	37	24	<0.1	20	78	<20	<100	660	500	1160	1000	<20	<250	<500	1000	<20	<250	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	0.8	3.3	11	19	15	9.8
SP18a_01	-	26/10/2021	-	JBS&G 2021	13	<0.4	21	20	25	<0.1	7.9	100	<20	<20	<50	<50	<50	<100	<20	<50	<100	<100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SP21_01	-	26/10/2021	-	JBS&G 2021	8.3	<0.4	24	11	24	<0.1	8.2	33	<20	<20	<50	<50	<50	<100	<20	<50	<100	<100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SP21_02	-	26/10/2021	-	JBS&G 2021	4.9	<0.4	12	27	15	<0.1	13	63	<20	<20	<50	<50	<50	<100	<20	<50	<100	<100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SP21_03	-	26/10/2021	-	JBS&G 2021	10	<0.4	20	24	18	<0.1	10	42	<20	<20	<50	<50	<50	<100	<20	<50	<100	<100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SP21_04	-	26/10/2021	-	JBS&G 2021	8.2	<0.4	18	22	22	<0.1	11	45	<20	<20	<50	<50	<50	<100	<20	<50	<100	<100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SP23_01	-	26/10/2021	-	JBS&G 2021	12	<0.4	27	47	33	<0.1	23	98	<20	<20	<50	<50	<50	<100	<20	<50	<100	<100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SP23_02	-	26/10/2021	-	JBS&G 2021	9.8	<0.4	24	24	18	<0.1	8.7	32	<20	<20	<50	<50	<50	<100	<20	<50	<100	<100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
In-situ Soil Samples																																												
SS02_01	0-0.1	26/10/2021	Fill - Silty clay	JBS&G 2021	9.8	<0.4	44	16	20	<0.1	21	33	<20	<20	<50	<50	<50	<100	<20	<50	<100	<100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SS03_01	0-0.1	26/10/2021	Fill - Clay	JBS&G 2021	6.7	<0.4	30	30	26	<0.1	9.2	68	<20	<20	<50	<50	<50	<100	<20	<50	<100	<100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
QC01 (duplicate of SS03_01)	0-0.1	26/10/2021	-	JBS&G 2021	4.7	<0.4	28	23	24	0.1	8	72	<20	<20	<50	62	62	<100	<25	<50	<100	<100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
QA01 (triplicate of SS03_01)	0-0.1	26/10/2021	-	JBS&G 2021	6	<0.4	30	22	21	<0.1	9	55	<25	<50	<100	<100	<50	<100	<25	<50	<100	<50	<25	<50	-	-	-	-	-	-	<0.2	<0.5	<1	<1	<2	<3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.1
SS04_01	0-0.1	26/10/2021	Fill - Silty clay	JBS&G 2021	5.2	<0.4	19	39	230	0.1	13	220	<20	<20	280	240	520	460	<20	<50	<100	460	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	0.7	3.8	6.2	3.7	3.2
SS05_01	0-0.1	26/10/2021	Fill - Clay	JBS&G 2021	5.3	<0.4	23	33	14	<0.1	22	90	<20	<20	<50	<50	<50	<100	<20	<50	<100	<100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SS09_01	0-0.1	26/10/2021	Fill - Silty clay	JBS&G 2021	8.9	<0.4	28	32	42	<0.1	15	150	<20	<20	<50	<50	<50	<100	<20	<50	<100	<100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SS10_01	0-0.1	27/10/2021	Fill Silty clay	JBS&G 2021	7.5	<0.4	24	23	19	<0.1	10	41	<20	<21	<50	<50	<50	<100	<20	<50	<100	<100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SS11_01	0-0.1	27/10/2021	Fill - Silty clay	JBS&G 2021	17	<0.4	27	23	44	<0.1	15	75	<20	<22	<50	<50	<50	<100	<20	<50	<100	<100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SS13_01	0-0.1	27/10/2021	Fill - Silty clay	JBS&G 2021	8.1	<0.4	43	26	41	<0.1	34	240	<20	<20	<50	<50	<50	<100	<20	<50	<100	<100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SS14_01	0-0.1	26/10/2021	Natural - Clay	JBS&G 2021	7.2	<0.4	15	13	21	<0.1	7.6	26	<20	<20	<50	<50	<50	<100	<20	<50	<100	<100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SS22_01	0-0.1	26/10/2021	-	JBS&G 2021	13	<0.4	31	35	24	<0.1	12	47	<20	<20	<50	<50	<50	<100	<20	<50	<100	<100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SS22_02	0-0.1	26/10/2021	-	JBS&G 2021	8	<0.4	24	25	27	<0.1	32	63	<20	<20	<50	<50	<50	<100	<20	<50	<100	<100	<20	<50	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Douglas Partners 2021																																											
In-situ Soil Samples																																											
TP1	0.1-0.2	28/10/2021	Top soil - Silty clay	DP 2021	6	<0.4	16	15	17	<0.1	7	26	<25	<50	<100	<100	<100	<100	<25	<50	<100	<50	<25	<50	-	-	-	-	-	-	<0.2	<0.5	<1	<1	<2	<3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	-
BH2	0.2-0.3	29/10/2021	Fill - Gravelly sand	DP 2021	<4	<0.4	7	55	2	<0.1	59	34	<25	<50	<100	<100	<100	<100	<25	<50	<100	<50	<25	<50	-	-	-	-	-	-	<0.2	<0.5	<1	<1	<2	<3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	-
BH2	0.5-0.6	29/10/2021	Natural - Clay	DP 2021	<4	<0.4	8	20	10	<0.1	4	22	<25	<50	<100	<100	<100	<100	<25	<50	<100	<50	<25	<50	-	-	-	-	-	-	<0.2	<0.5	<1	<1	<2	<3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	-
BH3	0.2-0.3	28/10/2021	Fill - Gravelly sand	DP 2021	<4	<0.4	15	15	11	<0.1	8	26	<25	<50	<100	<100	<100	<100	<25	<50	<100	<50	<25	<50	-	-	-	-	-	-	<0.2	<0.5	<1	<1	<2	<3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	-
TP4	0.1-0.15	28/10/2021	Top soil - Silty clay	DP 2021	7	<0.4	16	16	19	<0.1	7	26	<25	<50	<100	<100	<100	<100	<25	<50	<100	<50	<25	<50	-	-	-	-	-	-	<0.2	<0.5	<1	<1	<2	<3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	-
TP4	0.5-0.6	28/10/2021	Natural - Clay	DP 2021	<4	<0.4	11	23	8	<0.1	5	25	<25	<50	<100	<100	<100	<100	<25	<50	<100	<50	<25	<50	-	-	-	-	-	-	<0.2	<0.5	<1	<1	<2	<3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	-
BH5	0.2-0.3	28/10/2021	Fill - Gravelly sand	DP 2021	<4	<0.4	17	120	14	0.2	17	39	<25	<50	<100	<100	<100	<100	<25	<50	<100	<50	<25	<50	-	-	-	-	-	-	<0.2	<0.5	<1	<1	<2	<3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	-
BH6	0.4-0.5	29/10/2021	Fill - Clay	DP 2021	6	<0.4	17	21	12	<0.1	13	30	<25	<50	<100	<100	<100	<100	<25	<50	<100	<50	<25	<50	-	-	-	-	-	-	<0.2	<0.5	<1	<1	<2	<3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	-
BH6	0.9-1.0	29/10/2021	Natural - Clay	DP 2021	6	<0.4	14	19	12	<0.1	7	21	<25	<50	<100	<100	<100	<100	<25	<50	<100	<50	<25	<50	-	-	-	-	-	-	<0.2	<0.5	<1	<1	<2	<3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	-
BH6	2.9-3.0	29/10/2021	Natural - Clay	DP 2021	<4	<0.4	7	2	13	<0.1	6	40	<25	<50	<100	<100	<100	<100	<25	<50	<100	<50	<25	<50	-	-	-	-	-	-	<0.2	<0.5	<1	<1	<2	<3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	-
BH7	0.4-0.5	29/10/2021	Fill - Clay	DP 2021	6	<0.4	16	19	13	<0.1	13	27	<25	<50	120	<100	120	<100	<25	80	<100	80	<25	80	<50	<100	<100	56	<100	<100	<0.2	<0.5	<1	<1	<2	<3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	-
BD3JH/20211029 (duplicate pair BH7)	0.4-0.5	29/10/2021	Fill - Clay	DP 2021	7	<1	16	22	24	<0.1	23	34	<10	<50	<100	<100	<100	<100	<10	<50	<100	<50	<10	<50	-	-	-	-	-	-	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
BH7	0.9-1.0	29/10/2021	Fill - Clay	DP 2021	<4	<0.4	10	21	8	<0.1	7	28	<25	<50	<100	<100	<100	<100	<25	<50	<100	<50	<25	<50	-	-	-	-	-	-	<0.2	<0.5	<1	<1	<2	<3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	-
BH7	2.4-2.5	29/10/2021	Natural - Siltstone gravel	DP 2021	5	<0.4	8	44	18	<0.1	22	86	<25	<50	<100	<100	<100	<100	<25	<50	<100	<50	<25	<50	-	-	-	-	-	-	<0.2	<0.5	<1	<1	<2	<3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	-
BH8	0.2-0.3	29/10/2021	Fill - Gravelly sand	DP 2021	<4	<0.4	6	74	2	<0.1	70	28	<25	<50	<100	<100	<100	<100	<25	<50	<100	<50	<25	<50	-	-	-	-	-	-	<0.2	<0.5	<1	<1	<2	<3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	-
TP9	0.1-0.15	29/10/2021	Fill - Gravelly clay	DP 2021	5	<0.4	20	66	9	<0.1	45	48	<25	<50	<100	220	<100	180	<25	<50	290	470	<25	<50	<50	<100	<100	<50	<100	140	<0.2	<0.5	<1	<1	<2	<3	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.2	-
TP9	1.0-1.1	29/10/2021	Fill - Clay	DP 2021	<4	<0.4	10	34	13	<0.1	12	58	<25	<50	<100	<100	<100	<100	<25	<50	<100	<50	<25	<50	-	-	-	-	-	-	<0.2	<0.5	<1	<1	<2	<3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	-
TP9	2.0-2.1	29/10/2021	Fill - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP9	3.0-3.1	29/10/2021	Natural - Clay	DP 2021	5	<0.4	12	34	120	0.2	7	98	<25	<50	<100	<100	<100	<100	<25	<50	<100	<50	<25	<50	-	-	-	-	-	-	<0.2	<0.5	<1	<1	<2	<3	<0.1	<0.1	<0.1	<0.1	0.4	0.3	0.5	-
TP10	0.1-0.2	29/10/2021	Fill - Gravelly clay	DP 2021	<4	<0.4	12	29	14	<0.1	12	65	<25	<50	<100	<100	<100	<100	<25	<50	<100	<50	<25	<50	-	-	-	-	-	-	<0.2	<0.5	<1	<1	<2	<3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	-
TP10	1.0-1.1	29/10/2021	Fill - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP10	2.0-2.1	29/10/2021	Fill - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP10	2.5-2.6	29/10/2021	Natural - Clay	DP 2021	5	<0.4	16	17	11	<0.1	5	15	<25	<50	<100	<100	<100	<100	<25	<50	<100	<50	<25	<50	-	-	-	-	-	-	<0.2	<0.5	<1	<1	<2	<3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	-
TP11	0.1-0.2	29/10/2021	Fill - Gravelly clay	DP 2021	<4	<0.4	11	43	22	<0.1	13	69	<25	<50	130	330	460	350	<25	<50	370	720	<25	<50	<50	<100	180	<50	180	260	<0.2	<0.5	<1	<1	<2	<3	<0.1	<0.1	0.2	0.2	<0.1	1.4	2	-
TP11	0.5-0.6	29/10/2021	Fill - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP11	1.0-1.1	29/10/2021	Fill - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP11	2.0-2.1	29/10/2021	Fill - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP11	3.0-3.1	29/10/2021	Fill - Clay	DP 2021	5	<0.4	10	24	47	<0.1	13	60	<25	<50	<100	<100	<100	<100	<25	<50	<100	<50	<25	<50	-	-	-	-	-	-	<0.2	<0.5	<1	<1	<2	<3	<0.1	<0.1	<0.1	<0.1	<0.1	0.08	<0.2	-
TP12	0.1-0.2	29/10/2021	Fill - Gravelly clay	DP 2021	4	<0.4	14	33	15	<0.1	14	43	<25	<50	<100	<100	<100	<100	<25	<50	<100	<50	<25	<50	-	-	-	-	-	-	<0.2	<0.5	<1	<1	<2	<3	<0.1	<0.1	<0.1	<0.1	0.2	0.3	0.4	-
TP12	0.5-0.6	29/10/2021	Fill - Gravelly clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP12	1.0-1.1	29/10/2021	Fill - Clay	DP 2021	7	<0.4	16	25	16	<0.1	9	53	<25	<50	<100	<100	<100	<100	<25	<50	<100	<50	<25	<50	-	-	-	-	-	-	<0.2	<0.5	<1	<1	<2	<3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	-

Table C: Historical Soil Summary
Project Number: 62742
Project Name: Huntingwood - Augusta Street, Blacktown

	Metals & Metalloids								TPH					TRHs (NEPC 2013)							TPH Silica Gel			TRH Silica Gel			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)	C16-C34	C6-C10	C10-C16	C34-C40	C10-C40 (Sum of Total)	F1 (C6-C10 minus BTEX)	F2 (C10-C16 less Naphthalene)	TPH C10 - C14 SG	TPH C15 - C28 SG	TPH C29 - C36 SG	TRH C10 - C16 SG	TRH C16 - C34 SG	TRH C34 - C40 SG	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Naphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b+j)fluoranthene	Benzo(b+k)fluoranthene
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg							mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil	3000	900	3600	240000	1500	730	6000	400000																																
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay 0-<1m																			310	NL							4	NL	NL				NL	NL							
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay 1-<2m																			480	NL							6	NL	NL				NL	NL							
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay 2-<4m																			NL	NL							9	NL	NL				NL	NL							
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay 4+m																			NL	NL							20	NL	NL				NL	NL							
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand 0-<1m																			260								3						230								
NEPM 2013 Table 1B(1-5) EIL - Comm/Ind Site Specific (WSP, 2020b)	160		660	190	1800		460	280																										370						
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil														2500			6600		215	170							95	135	185			95								
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Course Soil														1700			3300		215	170							75	135	165			180					1.4		
CRC Care B(a)P Guidance																																					67		
Kansas Department of Health and Environment (2002)																																							
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Fine Soil														5000			10000																						
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Course Soil														3500	700	1000	10,000																						
NEPM 2013 Table 7 Comm/Ind D Soil HSL for Asbestos in Soil																																							

Field ID	Sample Depth	Sample Date	Soil Description	Report Reference																																					
TP12	2.0-2.1	29/10/2021	Fill - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP12	3.0-3.1	29/10/2021	Fill - Clay	DP 2021	5	<0.4	7	20	18	<0.1	14	45	<25	<50	<100	<100	<100	<100	<25	<50	<100	<50	<25	<50	-	-	-	-	-	-	<0.2	<0.5	<1	<1	<2	<3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	-
TP12	4.0-4.1	29/10/2021	Natural - Clay	DP 2021	<4	<0.4	11	17	12	<0.1	10	21	<25	<50	<100	<100	<100	<100	<25	<50	<100	<50	<25	<50	-	-	-	-	-	-	<0.2	<0.5	<1	<1	<2	<3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	-
TP13	0.1-0.2	28/10/2021	Fill - Clay	DP 2021	<4	<0.4	7	47	14	<0.1	16	41	<25	<50	150	250	400	310	<25	<50	230	540	<25	<50	<50	250	360	<50	510	360	<0.2	<0.5	<1	<1	<2	<3	<0.1	<0.1	0.5	0.6	2.2	3.3	4.6	-
TP13	1.0-1.1	28/10/2021	Natural - Clay	DP 2021	4	<0.4	15	31	11	<0.1	10	38	<25	<50	<100	<100	<100	<100	<25	<50	<100	<50	<25	<50	-	-	-	-	-	-	<0.2	<0.5	<1	<1	<2	<3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	-
BD1/281021 (triplicate pair TP13)	1.0-1.1	28/10/2021	Natural - Clay	DP 2021	7	<1	19	36	14	<0.1	11	44	<10	<50	<100	<100	<100	<100	<25	<50	<100	<50	<25	<50	-	-	-	-	-	-	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
TP14	0.1-0.2	28/10/2021	Fill - Sandy gravel	DP 2021	<4	<0.4	16	46	8	<0.1	40	30	<25	<50	<100	180	180	140	<25	<50	240	390	<25	<50	-	-	-	-	-	-	<0.2	<0.5	<1	<1	<2	<3	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	0.2	-
TP15	0.1-0.2	28/10/2021	Fill - Sandy gravel	DP 2021	7	<0.4	9	40	13	<0.1	35	110	<25	<50	190	<100	190	130	<25	91	<100	220	<25	91	-	-	-	-	-	-	<0.2	<0.5	<1	<1	<2	<3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	-
TP15	0.5-0.6	28/10/2021	Fill - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP15	1.0-1.1	28/10/2021	Fill - Clay	DP 2021	7	<0.4	23	21	60	<0.1	5	120	<25	<50	<100	<100	<100	<100	<25	<50	<100	<50	<25	<50	-	-	-	-	-	-	<0.2	<0.5	<1	<1	<2	<3	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	0.2	-
TP15	2.0-2.1	28/10/2021	Natural - Clay	DP 2021	<4	<0.4	11	10	12	<0.1	15	59	<25	<50	<100	<100	<100	<100	<25	<50	<100	<50	<25	<50	-	-	-	-	-	-	<0.2	<0.5	<1	<1	<2	<3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	-
BD2/281021 (triplicate pair TP15)	2.0-2.1	28/10/2021	Natural - Clay	DP 2021	<5	<1	11	12	21	0.2	15	67	<10	<50	<100	<100	<100	<100	<25	<50	<100	<50	<25	<50	-	-	-	-	-	-	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
TP16	0.1-0.2	28/10/2021	Fill - Sandy gravel	DP 2021	<4	<0.4	11	97	10	<0.1	16	40	<25	<50	210	530	740	560	<25	<50	570	1100	<25	<50	<50	150	430	<50	440	500	<0.2	<0.5	<1	<1	<2	<3	<0.1	<0.1	0.7	0.8	1.8	3.6	4.8	-
TP16	0.5-0.6	28/10/2021	Fill - Gravelly clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP16	1.0-1.1	28/10/2021	Fill - Gravelly clay	DP 2021	<4	<0.4	5	24	11	<0.1	5	42	<25	<50	<100	<100	<100	<100	<25	<50	<100	<50	<25	<50	-	-	-	-	-	-	<0.2	<0.5	<1	<1	<2	<3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	-
TP16	2.0-2.1	28/10/2021	Fill - Gravelly clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH16A	2.4-2.5	29/10/2021	Fill - Gravelly clay	DP 2021	6	<0.4	9	23	14	<0.1	6	71	<25	<50	<100	<100	<100	<100	<25	<50	<100	<50	<25	<50	-	-	-	-	-	-	<0.2	<0.5	<1	<1	<2	<3	<0.1	-	-	-	-	-	-	-
BH16A	3.1-3.2	29/10/2021	Natural - Clay	DP 2021	11	<0.4	15	19	13	<0.1	4	24	<25	<50	<100	<100	<100	<100	<25	<50	<100	<50	<25	<50	-	-	-	-	-	-	<0.2	<0.5	<1	<1	<2	<3	<0.1	-	-	-	-	-	-	-
TP17*	0.1-0.2	28/10/2021	Fill - Sandy gravel	DP 2021	4	<0.4	8	38	14	<0.1	10	47	<25	<50	<100	<100	<100	<100	<25	<50	<100	<50	<25	<50	-	-	-	-	-	-	<0.2	<0.5	<1	<1	<2	<3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	-
TP17	0.5-0.6	28/10/2021	Fill - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP17	1.0-1.1	28/10/2021	Fill - Clay	DP 2021	9	<0.4	16	23	16	<0.1	13	46	<25	<50	<100	<100	<100	<100	<25	<50	<100	<50	<25	<50	-	-	-	-	-	-	<0.2	<0.5	<1	<1	<2	<3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	-
TP17	2.0-2.1	28/10/2021	Fill - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP18	0.1-0.2	29/10/2021	Top soil - Silty clay	DP 2021	6	<0.4	16	21	22	<0.1	10	45	<25	<50	<100	<100	<100	<100	<25	<50	<100	<50	<25	<50	-	-	-	-	-	-	<0.2	<0.5	<1	<1	<2	<3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	-
TP19	0.1-0.2	29/10/2021	Top soil - Silty clay	DP 2021	6	<0.4	14	24	19	<0.1	6	42	<25	<50	<100	<100	<100	<100	<25	<50	<100	<50	<25	<50	-	-	-	-	-	-	<0.2	<0.5	<1	<1	<2	<3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	-
TP19	0.5-0.6	29/10/2021	Natural - Clay	DP 2021	5	<0.4	14	22	23	<0.1	4	21	<25	<50	<100	<100	<100	<100	<25	<50	<100	<50	<25	<50	-	-	-	-	-	-	<0.2	<0.5	<1	<1	<2	<3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	-
BD6/291021 (duplicate pair TP19)	0.5-0.6	29/10/2021	Natural - Clay	DP 2021	5	<0.4	15	17	15	<0.1	5	26	<25	<50	<100	<100	<100	<100	<25	<50	<100	<50	<25	<50	-	-	-	-	-	-	<0.2	<0.5	<1	<1	<2	<3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	-
TP20	0.1-0.15	29/10/2021	Top soil - Silty clay	DP 2021	<4	<0.4	14	39	62	<0.1	17	120	<25	<50	120	210	240	260	<25	<50	180	440	<25	<50	<50	<100	300	<50	250	450	<0.2	<0.5	<1	<1	<2	<3	<0.1	<0.1	0.3	0.8	1.2	2	-
BH21	0.2-0.3	28/10/2021	Fill - Gravelly clay	DP 2021	<4	<0.4	10	63	4	0.2	39	34	<25	<50	<100	<100	<100	<100	<25	<50	<100	<50	<25	<50	-	-	-	-	-	-	<0.2	<0.5	<1	<1	<2	<3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	-
BH22	0.1-0.2	28/10/2021	Fill - Gravelly sand	DP 2021	<4	<0.4	31	40	9	<0.1	38	73	<25	<50	260	430	690	560	<25	<50	360	920	<25	<50	<50	240	510	<50	600	560	<0.2	<0.5	<1	<1	<2	<3	<0.1	-	-	-	-	-	-	-
BH23	0.1-0.2	28/10/2021	Fill - Sand	DP 2021	6	<0.4	15	69	14	<0.1	24	54	<25	<50	160	350	510	400	<25	<50	390	800	<25	<50	<50	<100	350	<50	320	500	<0.2	<0.5	<1	<1	<2	<3	<0.1	<0.1	0.2	0.2	0.7	0.89	1	-
BH23	0.5-0.6	28/10/2021	Natural - Clay	DP 2021	11	<0.4	15	24	15	<0.1	6	25	<25	<50	<100	<100	<100	<100	<25	<50	<100	<50	<25	<50	-	-	-	-	-	-	<0.2	<0.5	<1	<1	<2	<3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	-
BH24	0.1-0.2	29/10/2021	Fill - Clay	DP 2021	<4	<0.4	13	26	18	<0.1	7	28	<25	<50	<100	<100	<100	<100	<25	<50	<100	<50	<25	<50	-	-	-	-	-	-	<0.2	<0.5	<1	<1	<2	<3	<0.1	<0.1	<0.1	<0.1	<0.1	0.05	<0.2	-
BD1JH/20211029 (triplicate pair BH24)	0.1-0.2	29/10/2021	Fill - Clay	DP 2021	10	<1	17	29	21	<0.1	10	37	<10	<50	<100	<100	<100	<100	<25	<50	<100	<50	<25	<50	-	-	-	-	-	-	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
BH24	0.9-1.0	29/10/2021	Fill - Clay	DP 2021	9	<0.4	17	24	13	<0.1	4	15	<25	<50	<100	<100	<100	<100	<25	<50	<100	<50	<25	<50	-	-	-	-	-	-	<0.2	<0.5	<1	<1	<2	<3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	-
BH24	1.0-1.2	29/10/2021	Natural - Clay	DP 2021	6	<0.4	12	25	13	<0.1	5	22	<25	<50	<100	<100	<100	<100	<25	<50	<100	<50	<25	<50	-	-	-	-	-	-	<0.2	<0.5	<1	<1	<2	<3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	-
BH25	0.1-0.2	29/10/2021	Fill - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH25	0.4-0.5	29/10/2021	Fill - Clay	DP 2021	6	<0.4	15	24	10	<0.1	4	18	<25	<50	<100	<100	<100	<100	<25	<50	<100	<50	<25	<50	-	-	-	-	-	-	<0.2	<0.5	<1	<1	<2	<3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	-
BH25	0.9-1.0	29/10/2021	Natural - Clay	DP 2021	5	<0.4	11	20	10	<0.1	3	14	<25	<50	<100	<100	<100	<100	<25	<50	<100	<50	<25	<50	-	-	-	-	-	-	<0.2	<0.5	<1	<1	<2	<3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	-
TP26	0.1-0.2	28/10/2021	Fill - Gravelly sand	DP 2021	<4	<0.4	16	31	17	<0.1	22	36	<25	<50	110	300	410	320	<25	<50	360	680	<25	<50	<50	<100	380	<50	320	540	<0.2	<0.5	<1	<1	<2	<3	<0.1	<0.1	0.5	0.3	0.6	0.99	1	-
TP26	0.5-0.6	28/10/2021	Fill - Gravelly sand	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP26	1.0-1.1	28/10/2021	Natural - Clay	DP 2021	<4	<0.4	8	17	9	<0.1	4	24	<25	<50	<100	<100	<100	<100	<25	<50	<100	<50	<25	<50	-	-	-	-	-	-	<0.2	<0.5	<1	<1	<2	<3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	-
TP26	1.5-1.6	28/10/2021	Natural - Clay	DP 2021	<4	<0.4	9	15	7	<0.1	4	18	<25	<50	<100	<100	<100	<100	<25	<50	<100	<50	<25	<50	-	-	-	-	-	-	<0.2	<0.5	<1	<1	<2	<3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	-
BD4/281021 (duplicate pair BH26)	1.5-1.6	28/10/2021	Natural - Clay	DP 2021	<4	<0.4	9	17	7	<0.1	3	18	<25	<50	<100	<100	<100	<100	<25	<50	<100	<50	<25	<50	-	-	-	-	-	-	<0.2	<0.5	<1	<1	<2	<3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	-
BH27	0.4-0.5	29/10/2021	Fill - Clay	DP 2021	<4	<0.4	15	8	5	<0.1	5	21	<25	<50	<100	<100	<100	<100	<25	<50	<100	<50	<25	<50	-	-	-	-	-	-	<0.2	<0.5	<1	<1	<2	<3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	-
BD2JH/202111029 (duplicate pair BH27)	0.4-0.5	29/10/2021	Fill - Clay	DP 2021	8	<0.4	17	21	16	<0.1	7	38	<25	<50	<100	<100	<100	<100	<25	<50	<100	<50	<25	<50	-	-	-	-	-	-	<0.2	<0.5	<1	<1	<2	<3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	-
BH27	1.4-1.5	29/10/2021	Natural - Clay	DP 2021	10	<0.4	15	24	14	<0.1	5	29	<25	<50	<100	<100	<100	<100	<25	<50	<100	<50	<25	<50	-	-	-	-	-	-	<0.2	<0.5	<1	<1	<2	<3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	-
SS1	Surface	27/10/2021	Fill - Sand	DP 2021	<4	<0.4	15	44	8	<0.1	58	39	<25	<50	<100	<100	<100	<100	<25	<50	<100	<50	<25	<50	-	-	-	-	-	-	<0.2	<0.5	<1	<1	<2	<3	<0.1	<0.1	<0.1	<0.1	0.1	<0.2	-	-
SS2	Surface	27/10/2021	Fill - Sand	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SS3	Surface	27/10/2021	Fill - Sand	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SS4	Surface	27/10/2021	Fill - Sand	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SS5*	Surface	27/10/2021	Fill - Sand	DP 2021	<4	<0.4	17	64	21	<0.1	18	53	<25	<50	220	450	670	520	<25	<50	470	980	25	<50	<50	150	490	<50	480	660	<0.2	<0.5	<1	<1	<2	<3	<0.1	<0.1	0.3	0.4	1.4	2.1	3	-
SS6	Surface	27/10/2021	Fill - Sand	DP 2021	<4	<0.4	23	95	14	<0.1	10	47	<25	880	9400	550	10,830	7700	25	2900	640	11000	<25	<50	830	4700	430	1400	4300	560	<0.2	<0.5	<1	<1	<2	<3	0.2	0.1	0.4	0.4	1.3	2	3	-

* Triplicate analysis undertaken by laboratory for metals on sample. The highest concentration recorded has been summarised in this table.

Table C: Historical Soil Summary
Project Number: 62742
Project Name: Huntingwood - Augusta Street, Blacktown

| | | | | | PAH | | | | | | | | | | Organochlorine Pesticides | | | | | | | | | |

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					Chlorinated Alkanes											Chlorinated Alkenes											Polychlorinated Biphenyls								MAH									
					1,2-dibromo-3-chloropropane	1,2-dichloroethane	1,2-dichloropropane	1,3-dichloropropane	2,2-dichloropropane	Bromochloromethane	Carbon tetrachloride	Chloroethane	Chloromethane	Dichlorodifluoromethane	Trichlorofluoromethane	1,1-dichloroethene	1,1-dichloropropene	2-chlorotoluene	4-chlorotoluene	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Tetrachloroethene	trans-1,2-dichloroethene	trans-1,3-dichloropropene	Trichloroethene	Vinyl Chloride	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	PCBs (Sum of total)	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	n-butylbenzene	n-propylbenzene	p-isopropyltoluene	sec-butylbenzene	Styrene	tert-butylbenzene	Bromobenzene	Isopropylbenzene
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil																																7											
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 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay 4+m																																											
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand 0-<1m																																											
NEPM 2013 Table 1B(1-5) EIL - Comm/Ind Site Specific (WSP, 2020b)																																											
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil																																											
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Course Soil																																											
CRC Care B(a)P Guidance																																											
Kansas Department of Health and Environment (2002)																																											
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Fine Soil																																											
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Course Soil																																											
NEPM 2013 Table 7 Comm/Ind D Soil HSL for Asbestos in Soil																																											
Field ID	**Sample Depth**	**Sample Date**	**Soil Description**	**Report Reference**																																							
JBS 2010																																											
In-situ Soil Samples																																											
TP1	0-0.15	4/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP002	0-0.1	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP003	0-0.15	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC4 (duplicate of TP003)	0-0.15	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP004	0-0.1	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP005	0-0.1	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP006	0-0.15	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP007	0-0.1	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP008	0-0.15	3/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP009	0-0.1	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP010	0-0.15	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP011	0-0.15	4/12/2009	Silty clay	JBS 2010	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.7	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
QC7 (duplicate of TP011)	0-0.15	4/12/2009	Silty clay	JBS 2010	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.7	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
TP012	0-0.15	4/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP013	0-0.1	4/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP014	0-0.1	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.7	-	-	-	-	-	-	-	-	-	-
M3 (fragment from TP014)	surface	4/12/2009	-	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
M3 (soil under M3)	0.1	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP015	0-0.15	4/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP017	0-0.1	4/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP018	0-0.15	4/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC9 (duplucate of TP018)	0-0.15	4/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP019	0-0.15	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP020	0-0.15	4/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP021	0-0.15	4/12/2009	Silty clay	JBS 2010	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	-	-	-	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
F1 (Fragment from TP022)	surface	9/12/2009	-	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FS1 (soil under F1)	0.1	9/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP022B	0-0.1	9/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP023	0-0.1	4/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP024B	0-0.1	9/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP025	0-0.1	4/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP026	0-0.1	4/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP027	0-0.15	4/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP028	0-0.1	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP029	0-0.15	4/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.7	-	-	-	-	-	-	-	-	-	-
TP029	0.5-0.7	4/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP030	0-0.15	4/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP031	0-0.1	4/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP032	0-0.1	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.7	-	-	-	-	-	-	-	-	-	-
TP032	0.3-0.4	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP033	0-0.15	4/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP034	0-0.1	4/12/2009	Fill	JBS 2010	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.7	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
TP035	0-0.1	4/12/2009	Fill	JBS 2010	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.7	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
TP035	1.6-1.8	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP036	0-0.1	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.7	-	-	-	-	-	-	-	-	-	-
TP037	0-0.1	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.7	-	-	-	-	-	-	-	-	-	-
TP038	0-0.15	4/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP039	0-0.15	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.7	-	-	-	-	-	-	-	-	-	-
TP039	0.5-0.6	4/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP40	0-0.15	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.7	-	-	-	-	-	-	-	-	-	-
QC6 (duplicate of TP040)	0-0.15	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.7	-	-	-	-	-	-	-	-	-	-
TP041	0-0.1	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.7	-	-	-	-	-	-	-	-	-	-
TP041	0.2-0.3	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP042	0-0.1	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.7	-	-	-	-	-	-	-	-	-	-
TP043	0-0.15	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.7	-	-	-	-	-	-	-	-	-	-
TP044	0-0.1	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.7	-	-	-	-	-	-	-	-	-	-
TP045	0-0.15	4/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC5 (duplicate of TP045)	0-0.15	4/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP046B	0-0.1	9/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP047	0-0.1	4/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP048	0-0.1	4/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP049	0.4-0.6	4/12/2009	Silty clay	JBS 2010	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.7	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

Table C: Historical Soil Summary
Project Number: 62742
Project Name: Huntingwood - Augusta Street, Blacktown

					Chlorinated Alkanes											Chlorinated Alkenes											Polychlorinated Biphenyls								MAH									
					1,2-dibromo-3-chloropropane	1,2-dichloroethane	1,2-dichloropropane	1,3-dichloropropane	2,2-dichloropropane	Bromochloromethane	Carbon tetrachloride	Chloroethane	Chloromethane	Dichlorodifluoromethane	Trichlorofluoromethane	1,1-dichloroethene	1,1-dichloropropene	2-chlorotoluene	4-chlorotoluene	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Tetrachloroethene	trans-1,2-dichloroethene	trans-1,3-dichloropropene	Trichloroethene	Vinyl Chloride	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	PCBs (Sum of total)	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	n-butylbenzene	n-propylbenzene	p-isopropyltoluene	sec-butylbenzene	Styrene	tert-butylbenzene	Bromobenzene	Isopropylbenzene
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil																																	7										
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 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay 4+m																																											
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand 0-<1m																																											
NEPM 2013 Table 1B(1-5) EIL - Comm/Ind Site Specific (WSP, 2020b)																																											
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil																																											
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Course Soil																																											
CRC Care B(a)P Guidance																																											
Kansas Department of Health and Environment (2002)																																											
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Fine Soil																																											
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Course Soil																																											
NEPM 2013 Table 7 Comm/Ind D Soil HSL for Asbestos in Soil																																											
Field ID	**Sample Depth**	**Sample Date**	**Soil Description**	**Report Reference**																																							
TP049B	Stockpile	9/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP050	0-0.1	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP051	0-0.1	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP052	0-0.1	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP053	0-0.1	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP054	0-0.1	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP055	0-0.1	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP056	0-0.1	3/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP057	0-0.1	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP058	0-0.1	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP059	0-0.15	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP060	0-0.15	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP061	0-0.15	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC1 (duplicate of TP061)	0-0.15	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP062	0-0.15	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP063	0-0.15	3/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.7	-	-	-	-	-	-	-	-	-	-
M1 (Fragment fron TP063)	surface	3/12/2009	-	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP063	0.2-0.3	3/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP064	0-0.15	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP065	0-0.15	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP066	0-0.15	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP067	0-0.1	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP068	0-0.1	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP069	0-0.15	3/12/2009	Fill	JBS 2010	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.7	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
TP069	0.5-0.6	3/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP070	0-0.15	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP071	0-0.1	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP072	0-0.1	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP073	0-0.1	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP074	0-0.1	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP075	0-0.1	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP076	0-0.1	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP077	0-0.15	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP078	0-0.15	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC3 (duplciate of TP078)	0-0.15	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP079	0-0.15	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC2 (duplicate of TP080)	0-0.15	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP080	0-0.15	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP111	0-0.1	3/12/2009	Fill	JBS 2010	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.7	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
TP111-F1 (Frgment from TP111)	surface	4/12/2009	-	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA112	0-0.1	7/04/2010	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA113	0-0.1	7/04/2010	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA114	0-0.1	7/04/2010	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA115	0-0.1	7/04/2010	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA116	0-0.1	7/04/2010	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA117	0-0.1	7/04/2010	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA118	0-0.1	7/04/2010	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA119	0-0.1	7/04/2010	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA120	0-0.1	7/04/2010	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA121	0-0.1	7/04/2010	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA122	0-0.1	7/04/2010	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA123	0-0.1	7/04/2010	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA124	0-0.1	7/04/2010	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA125	0-0.1	7/04/2010	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA126	0-0.1	7/04/2010	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA127	0-0.1	7/04/2010	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA128	0-0.1	7/04/2010	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA129	0-0.1	7/04/2010	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA130	0-0.1	7/04/2010	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA131	0-0.1	7/04/2010	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Stockpile Samples																																												
TP081	0.4-0.6	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.7	-	-	-	-	-	-	-	-	-	-
TP082	0.4-0.6	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.7	-	-	-	-	-	-	-	-	-	-
SP83	0.4-0.6	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.7	-	-	-	-	-	-	-	-	-	-

Table C: Historical Soil Summary
Project Number: 62742
Project Name: Huntingwood - Augusta Street, Blacktown

					Chlorinated Alkanes											Chlorinated Alkenes											Polychlorinated Biphenyls								MAH									
					1,2-dibromo-3-chloropropane	1,2-dichloroethane	1,2-dichloropropane	1,3-dichloropropane	2,2-dichloropropane	Bromochloromethane	Carbon tetrachloride	Chloroethane	Chloromethane	Dichlorodifluoromethane	Trichlorofluoromethane	1,1-dichloroethene	1,1-dichloropropene	2-chlorotoluene	4-chlorotoluene	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Tetrachloroethene	trans-1,2-dichloroethene	trans-1,3-dichloropropene	Trichloroethene	Vinyl Chloride	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	PCBs (Sum of total)	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	n-butylbenzene	n-propylbenzene	p-isopropyltoluene	sec-butylbenzene	Styrene	tert-butylbenzene	Bromobenzene	Isopropylbenzene
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil																																7											
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 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay 4+m																																											
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand 0-<1m																																											
NEPM 2013 Table 1B(1-5) EIL - Comm/Ind Site Specific (WSP, 2020b)																																											
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil																																											
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Course Soil																																											
CRC Care B(a)P Guidance																																											
Kansas Department of Health and Environment (2002)																																											
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Fine Soil																																											
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Course Soil																																											
NEPM 2013 Table 7 Comm/Ind D Soil HSL for Asbestos in Soil																																											
Field ID	**Sample Depth**	**Sample Date**	**Soil Description**	**Report Reference**																																							
M2 (Fragment from SP83)	-	4/12/2009	-	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP084	0.4-0.6	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.7	-	-	-	-	-	-	-	-	-	-
TP085	0.4-0.6	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.7	-	-	-	-	-	-	-	-	-	-
M4 (Fragment from TP085)	0.6	4/12/2009	-	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP086	0-0.15	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.7	-	-	-	-	-	-	-	-	-	-
TP087	0.4-0.6	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.7	-	-	-	-	-	-	-	-	-	-
TP088	0.4-0.6	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.7	-	-	-	-	-	-	-	-	-	-
TP089	0.4-0.6	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.7	-	-	-	-	-	-	-	-	-	-
TP090	0.4-0.6	3/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.7	-	-	-	-	-	-	-	-	-	-
TP091	0.4-0.6	3/12/2009	Fill	JBS 2010	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.7	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
TP092	0.4-0.6	3/12/2009	Fill	JBS 2010	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.7	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SP093	0.4-0.6	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.7	-	-	-	-	-	-	-	-	-	-
SP095	0.4-0.6	3/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.7	-	-	-	-	-	-	-	-	-	-
SP096	0.4-0.6	3/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.7	-	-	-	-	-	-	-	-	-	-
TP097	0.4-0.6	3/12/2009	Fill	JBS 2010	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.7	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
F1 (Fragment from TP097)	-	3/12/2009	-	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP098	0.4-0.6	3/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.7	-	-	-	-	-	-	-	-	-	-
TP098a	0-0.15	3/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.7	-	-	-	-	-	-	-	-	-	-
TP099	0.4-0.6	3/12/2009	Fill	JBS 2010	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.7	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
TP100	0.4-0.6	3/12/2009	Fill	JBS 2010	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.7	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SP101	0.4-0.6	3/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.7	-	-	-	-	-	-	-	-	-	-
SP102	0.4-0.6	3/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.7	-	-	-	-	-	-	-	-	-	-
TP103	0.4-0.6	3/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP104	0.4-0.6	3/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.7	-	-	-	-	-	-	-	-	-	-
TP105	0.4-0.6	3/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.7	-	-	-	-	-	-	-	-	-	-
TP110	0.4-0.6	3/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.7	-	-	-	-	-	-	-	-	-	-
WSP 2020																																												
In-situ Soil Samples																																											
MW01_0.5	0.5	22/04/2020	Fill - Sandy clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
MW01_3.0	3	22/04/2020	Natural - Clayey sand	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW02_0.0	0	22/04/2020	Natural - Sandy clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW02_4.0	4	22/04/2020	Natural - Shale	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
MW02_6.0	6	22/04/2020	Natural - Shale	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
MW03_0.0	0	22/04/2020	Natural - Silty clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW03_1.0	1	22/04/2020	Natural - Silty clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
MW03_2.0	2	22/04/2020	Natural - Silty clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
TP01_0.5	0.5	22/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
TP02_0.5	0.5	22/04/2020	Natural - Sandy clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
TP03_0.8	0.8	22/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP04_0.1	0.1	22/04/2020	Natural - Silty clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP04_0.6	0.6	22/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
TPS1_0.0	0	23/04/2020	Natural - Silty clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPS2_0.0	0	23/04/2020	Natural - Silty clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPS3_0.5	0.5	23/04/2020	Fill - Silty gravel	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPS4_0.0	0	23/04/2020	Natural - Silty clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPS5_0.0	0	23/04/2020	Natural - Silty clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPS6_0.5	0.5	23/04/2020	Natural - Silty clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPS7_0.5	0.5	23/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPS8_0.5	0.5	23/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Stockpile Samples																																											
SPA1_0.1	0.1	24/04/2020	Surface - Silty sand	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
SPA1_0.5	0.5	24/04/2020	Fill - Silty sand	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
SPA1_1.0	1	24/04/2020	Fill - Silty sand	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
SPA1_2.0	2	24/04/2020	Natural - Silty clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
SPA2_0.5	0.5	24/04/2020	Fill - Silty clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
SPA2_2.0	2	24/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
SPA2_PACM	-	24/04/2020	-	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SPB1_0.1	0.1	24/04/2020	Fill - Silty sand	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
SPB1_1.0	1	24/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
SPC1_0.5	0.5	24/04/2020	Fill - Silty sand	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
SPC1_2.0	2	24/04/2020	Natural - Silty clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
SP83_0.1	0.1	23/04/2020	Natural - Silty clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP83_0.5	0.5	23/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP84_0.3	0.3	23/04/2020	Fill - Silty clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table C: Historical Soil Summary
Project Number: 62742
Project Name: Huntingwood - Augusta Street, Blacktown

					Chlorinated Alkanes											Chlorinated Alkenes											Polychlorinated Biphenyls								MAH									
					1,2-dibromo-3-chloropropane	1,2-dichloroethane	1,2-dichloropropane	1,3-dichloropropane	2,2-dichloropropane	Bromochloromethane	Carbon tetrachloride	Chloroethane	Chloromethane	Dichlorodifluoromethane	Trichlorofluoromethane	1,1-dichloroethene	1,1-dichloropropene	2-chlorotoluene	4-chlorotoluene	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Tetrachloroethene	trans-1,2-dichloroethene	trans-1,3-dichloropropene	Trichloroethene	Vinyl Chloride	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	PCBs (Sum of total)	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	n-butylbenzene	n-propylbenzene	p-isopropyltoluene	sec-butylbenzene	Styrene	tert-butylbenzene	Bromobenzene	Isopropylbenzene
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil																																7											
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 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay	4+m																																									
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand	0-<1m																																									
NEPM 2013 Table 1B(1-5) EIL - Comm/Ind Site Specific (WSP, 2020b)																																										
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil																																										
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Course Soil																																										
CRC Care B(a)P Guidance																																										
Kansas Department of Health and Environment (2002)																																										
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Fine Soil																																										
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Course Soil																																										
NEPM 2013 Table 7 Comm/Ind D Soil HSL for Asbestos in Soil																																										
Field ID	**Sample Depth**	**Sample Date**	**Soil Description**	**Report Reference**																																							
SP84_0.9	0.9	23/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP88_0.1 (A)	0.1	24/04/2020	Fill - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP88_1.0	1	24/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP104_1_0.1	0.1	24/04/2020	Natural - Silty clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP104_1_0.5	0.5	24/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP105_1_0.1	0.1	24/04/2020	Natural - Silty clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP105_1_0.5	0.5	24/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP105_1_1.0	1	24/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP14_0.1	0.1	24/04/2020	Fill - Gravelly sand	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP14_0.5	0.5	24/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP14_1.0	1	24/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP022_0.0	0	22/04/2020	Natural - Silty clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP111_0.0	0	22/04/2020	Fill - Silty clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP111_0.5	0.5	22/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
F1_1_0.1	0.1	24/04/2020	-	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
F1_1_0.5	0.5	24/04/2020	-	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
F1_1_1.0	1	24/04/2020	-	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
F1_2_0.1	0.1	24/04/2020	-	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
F1_2_0.5	0.5	24/04/2020	-	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
F1_2_1.0	1	24/04/2020	-	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
F1_3_0.1	0.1	24/04/2020	-	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
F1_3_0.5	0.5	24/04/2020	-	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
F1_4_0.1	0.1	24/04/2020	-	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
F1_4_0.5	0.5	24/04/2020	-	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
F1_5_0.5	0.5	24/04/2020	-	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
F1_6_0.5	0.5	24/04/2020	-	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
F2_1_0.1	0.1	24/04/2020	Fill - Silty sand	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
F2_1_0.5	0.5	24/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
F2_2_0.1	0.1	24/04/2020	Fill - Silty sand	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
F2_2_0.3	0.3	24/04/2020	Fill - Silty sand	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
F2_2_0.5	0.5	24/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
F2_2_1.0	1	24/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
F2_3_0.1	0.1	24/04/2020	Fill - Silty sand	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
F2_3_0.3	0.3	24/04/2020	Fill - Silty sand	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
F2_3_0.5	0.5	24/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
F2_3_1.0	1	24/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
F2_4_0.1	0.1	24/04/2020	Fill - Silty clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
F2_4_0.3	0.3	24/04/2020	Fill - Silty clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
F2_4_0.5	0.5	24/04/2020	Fill - Silty clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
F2_4_1.0	1	24/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
F2_5_0.1	0.1	24/04/2020	Fill - Silty sand	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
F2_5_0.5	0.5	24/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
F2_6_0.1	0.1	24/04/2020	Fill - Silty sand	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
F2_6_0.5	0.5	24/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
F2_7_0.5	0.5	24/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
F3_1_0.1	0.1	24/04/2020	Fill - Silty sand	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
F3_1_0.5	0.5	24/04/2020	Natural - Silty clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
F3_1_1.0	1	24/04/2020	Natural - sandstone	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
F3_2_0.1	0.1	24/04/2020	Fill - Silty sand	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
F3_2_0.5	0.5	24/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
F3_3_0.1	0.1	24/04/2020	Fill - Silty sand	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
F3_3_0.5	0.5	24/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
F3_4_0.1	0.1	24/04/2020	Fill - Silty sand	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
F3_4_0.5	0.5	24/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
F3_5_0.5	0.5	24/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
JBS&G 2021																																											
Stockpile Samples																																										
JSP01_01	-	26/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-
JSP02_01	-	26/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP02_01	-	27/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP02_02	-	27/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-
QC02 (dupicate of SP02_02)	-	27/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-
QA02 (triplicate of SP02_02)	-	27/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-
SP05_01	-	27/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-

Table C: Historical Soil Summary
Project Number: 62742
Project Name: Huntingwood - Augusta Street, Blacktown

						Chlorinated Alkanes											Chlorinated Alkenes											Polychlorinated Biphenyls								MAH									
						1,2-dibromo-3-chloropropane	1,2-dichloroethane	1,2-dichloropropane	1,3-dichloropropane	2,2-dichloropropane	Bromochloromethane	Carbon tetrachloride	Chloroethane	Chloromethane	Dichlorodifluoromethane	Trichlorofluoromethane	1,1-dichloroethene	1,1-dichloropropene	2-chlorotoluene	4-chlorotoluene	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Tetrachloroethene	trans-1,2-dichloroethene	trans-1,3-dichloropropene	Trichloroethene	Vinyl Chloride	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	PCBs (Sum of total)	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	n-butylbenzene	n-propylbenzene	p-isopropyltoluene	sec-butylbenzene	Styrene	tert-butylbenzene	Bromobenzene	Isopropylbenzene
						mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil																																	7											
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 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay 4+m																																												
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand 0-<1m																																												
NEPM 2013 Table 1B(1-5) EIL - Comm/Ind Site Specific (WSP, 2020b)																																												
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil																																												
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Course Soil																																												
CRC Care B(a)P Guidance																																												
Kansas Department of Health and Environment (2002)																																												
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Fine Soil																																												
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Course Soil																																												
NEPM 2013 Table 7 Comm/Ind D Soil HSL for Asbestos in Soil																																												
Field ID	**Sample Depth**	**Sample Date**	**Soil Description**	**Report Reference**																																								
SP05_02	-	27/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP06_01	-	27/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-
SP06_02	-	27/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP06_03	-	27/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-
SP06_04	-	27/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP06_05	-	27/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-
SP06_06	-	27/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP14_01	-	26/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-	-
SP18_01	-	26/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-	-
SP18_02	-	26/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP18a_01	-	26/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-
SP21_01	-	26/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-
SP21_02	-	26/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP21_03	-	26/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP21_04	-	26/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP23_01	-	26/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-
SP23_02	-	26/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
In-situ Soil Samples																																												
SS02_01	0-0.1	26/10/2021	Fill - Silty clay	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SS03_01	0-0.1	26/10/2021	Fill - Clay	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC01 (duplicate of SS03_01)	0-0.1	26/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA01 (triplicate of SS03_01)	0-0.1	26/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SS04_01	0-0.1	26/10/2021	Fill - Silty clay	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-	-
SS05_01	0-0.1	26/10/2021	Fill - Clay	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SS09_01	0-0.1	26/10/2021	Fill - Silty clay	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-
SS10_01	0-0.1	27/10/2021	Fill Silty clay	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-
SS11_01	0-0.1	27/10/2021	Fill - Silty clay	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SS13_01	0-0.1	27/10/2021	Fill - Silty clay	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-
SS14_01	0-0.1	26/10/2021	Natural - Clay	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SS22_01	0-0.1	26/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-
SS22_02	0-0.1	26/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Douglas Partners 2021																																												
In-situ Soil Samples																																												
TP1	0.1-0.2	28/10/2021	Top soil - Silty clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH2	0.2-0.3	29/10/2021	Fill - Gravelly sand	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH2	0.5-0.6	29/10/2021	Natural - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH3	0.2-0.3	28/10/2021	Fill - Gravelly sand	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP4	0.1-0.15	28/10/2021	Top soil - Silty clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP4	0.5-0.6	28/10/2021	Natural - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH5	0.2-0.3	28/10/2021	Fill - Gravelly sand	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH6	0.4-0.5	29/10/2021	Fill - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH6	0.9-1.0	29/10/2021	Natural - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH6	2.9-3.0	29/10/2021	Natural - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH7	0.4-0.5	29/10/2021	Fill - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD3JH/20211029 (duplicate pair BH7)	0.4-0.5	29/10/2021	Fill - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH7	0.9-1.0	29/10/2021	Fill - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH7	2.4-2.5	29/10/2021	Natural - Siltstone gravel	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH8	0.2-0.3	29/10/2021	Fill - Gravelly sand	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP9	0.1-0.15	29/10/2021	Fill - Gravelly clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP9	1.0-1.1	29/10/2021	Fill - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP9	2.0-2.1	29/10/2021	Fill - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP9	3.0-3.1	29/10/2021	Natural - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP10	0.1-0.2	29/10/2021	Fill - Gravelly clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP10	1.0-1.1	29/10/2021	Fill - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP10	2.0-2.1	29/10/2021	Fill - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP10	2.5-2.6	29/10/2021	Natural - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP11	0.1-0.2	29/10/2021	Fill - Gravelly clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP11	0.5-0.6	29/10/2021	Fill - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP11	1.0-1.1	29/10/2021	Fill - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP11	2.0-2.1	29/10/2021	Fill - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP11	3.0-3.1	29/10/2021	Fill - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP12	0.1-0.2	29/10/2021	Fill - Gravelly clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP12	0.5-0.6	29/10/2021	Fill - Gravelly clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP12	1.0-1.1	29/10/2021	Fill - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table C: Historical Soil Summary
Project Number: 62742
Project Name: Huntingwood - Augusta Street, Blacktown

	Chlorinated Alkanes										
	1,2-dibromo-3-chloropropane	1,2-dichloroethane	1,2-dichloropropane	1,3-dichloropropane	2,2-dichloropropane	Bromochloromethane	Carbon tetrachloride	Chloroethane	Chloromethane	Dichlorodifluoromethane	Trichlorofluoromethane
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil											
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 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay 4+m											
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand 0-<1m											
NEPM 2013 Table 1B(1-5) EIL - Comm/Ind Site Specific (WSP, 2020b)											
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil											
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Course Soil											
CRC Care B(a)P Guidance											
Kansas Department of Health and Environment (2002)											
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Fine Soil											
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Course Soil											
NEPM 2013 Table 7 Comm/Ind D Soil HSL for Asbestos in Soil											

	Chlorinated Alkenes										
	1,1-dichloroethene	1,1-dichloropropene	2-chlorotoluene	4-chlorotoluene	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Tetrachloroethene	trans-1,2-dichloroethene	trans-1,3-dichloropropene	Trichloroethene	Vinyl Chloride
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil											
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 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay 4+m											
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand 0-<1m											
NEPM 2013 Table 1B(1-5) EIL - Comm/Ind Site Specific (WSP, 2020b)											
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil											
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Course Soil											
CRC Care B(a)P Guidance											
Kansas Department of Health and Environment (2002)											
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Fine Soil											
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Course Soil											
NEPM 2013 Table 7 Comm/Ind D Soil HSL for Asbestos in Soil											

	Polychlorinated Biphenyls							
	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	PCBs (Sum of total)
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil								7
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 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay 4+m								
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand 0-<1m								
NEPM 2013 Table 1B(1-5) EIL - Comm/Ind Site Specific (WSP, 2020b)								
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil								
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Course Soil								
CRC Care B(a)P Guidance								
Kansas Department of Health and Environment (2002)								
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Fine Soil								
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Course Soil								
NEPM 2013 Table 7 Comm/Ind D Soil HSL for Asbestos in Soil								

	MAH									
	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	n-butylbenzene	n-propylbenzene	p-isopropyltoluene	sec-butylbenzene	Styrene	tert-butylbenzene	Bromobenzene	Isopropylbenzene
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil										
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 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay 4+m										
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand 0-<1m										
NEPM 2013 Table 1B(1-5) EIL - Comm/Ind Site Specific (WSP, 2020b)										
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil										
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Course Soil										
CRC Care B(a)P Guidance										
Kansas Department of Health and Environment (2002)										
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Fine Soil										
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Course Soil										
NEPM 2013 Table 7 Comm/Ind D Soil HSL for Asbestos in Soil										

| Field ID | Sample Depth | Sample Date | Soil Description | Report Reference | | | | | | | | | | |

Table C: Historical Soil Summary
Project Number: 62742
Project Name: Huntingwood - Augusta Street, Blacktown

	Miscellaneous Hydrocarbons				Chlorinated Benzenes							Trihalomethanes				Organophosphorus Pesticides																											
	1,2-dibromoethane	Bromomethane	Cyclohexane	Dibromomethane	1,2,3-trichlorobenzene	1,2,4-trichlorobenzene	1,2-Dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	Chlorobenzene	Hexachlorobenzene	Dibromochloromethane	Chloroform	Tribromomethane	Bromodichloromethane	Azinophos methyl	Bolstar (Sulprofos)	Chlorfenvinphos	Chlorpyrifos	Chlorpyrifos-methyl	Coumaphos	Demeton-O	Demeton-S	Diazinon	Dichlorvos	Dimethoate	Disulfoton	EPN	Ethion	Ethoprop	Fenitrothion	Fensulfothion	Fenthion	Malathion	Merphos	Methyl parathion	Mevinphos (Phosdrin)	Monocrotophos	Naled (Dibrom)	Omethoate	Phorate
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil											80								2000																							
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 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay 4+m																																									
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand 0-<1m																																									
NEPM 2013 Table 1B(1-5) EIL - Comm/Ind Site Specific (WSP, 2020b)																																									
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil																																									
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Course Soil																																									
CRC Care B(a)P Guidance																																									
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NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Course Soil																																									
NEPM 2013 Table 7 Comm/Ind D Soil HSL for Asbestos in Soil																																									
Field ID	**Sample Depth**	**Sample Date**	**Soil Description**	**Report Reference**																																						
JBS 2010																																									
In-situ Soil Samples																																									
TP1	0-0.15	4/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP002	0-0.1	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP003	0-0.15	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC4 (duplicate of TP003)	0-0.15	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP004	0-0.1	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP005	0-0.1	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP006	0-0.15	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP007	0-0.1	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP008	0-0.15	3/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP009	0-0.1	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP010	0-0.15	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP011	0-0.15	4/12/2009	Silty clay	JBS 2010	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.1	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC7 (duplicate of TP011)	0-0.15	4/12/2009	Silty clay	JBS 2010	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.1	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP012	0-0.15	4/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP013	0-0.1	4/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP014	0-0.1	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
M3 (fragment from TP014)	surface	4/12/2009	-	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
M3 (soil under M3)	0.1	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP015	0-0.15	4/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP017	0-0.1	4/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP018	0-0.15	4/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC9 (duplucate of TP018)	0-0.15	4/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP019	0-0.15	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP020	0-0.15	4/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP021	0-0.15	4/12/2009	Silty clay	JBS 2010	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F1 (Fragment from TP022)	surface	9/12/2009	-	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FS1 (soil under F1)	0.1	9/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP022B	0-0.1	9/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP023	0-0.1	4/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP024B	0-0.1	9/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP025	0-0.1	4/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP026	0-0.1	4/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP027	0-0.15	4/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP028	0-0.1	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP029	0-0.15	4/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP029	0.5-0.7	4/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP030	0-0.15	4/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP031	0-0.1	4/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP032	0-0.1	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP032	0.3-0.4	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP033	0-0.15	4/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP034	0-0.1	4/12/2009	Fill	JBS 2010	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.1	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP035	0-0.1	4/12/2009	Fill	JBS 2010	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.1	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP035	1.6-1.8	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP036	0-0.1	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP037	0-0.1	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP038	0-0.15	4/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP039	0-0.15	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP039	0.5-0.6	4/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP40	0-0.15	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC6 (duplicate of TP040)	0-0.15	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP041	0-0.1	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP041	0.2-0.3	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP042	0-0.1	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP043	0-0.15	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP044	0-0.1	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP045	0-0.15	4/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC5 (duplicate of TP045)	0-0.15	4/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP046B	0-0.1	9/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP047	0-0.1	4/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP048	0-0.1	4/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP049	0.4-0.6	4/12/2009	Silty clay	JBS 2010	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.1	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table C: Historical Soil Summary
Project Number: 62742
Project Name: Huntingwood - Augusta Street, Blacktown

| | | | | | Miscellaneous Hydrocarbons | | | | Chlorinated Benzenes | | | | | | | Trihalomethanes | | | | Organophosphorus Pesticides | | | | | | |

Table C: Historical Soil Summary
Project Number: 62742
Project Name: Huntingwood - Augusta Street, Blacktown

	Miscellaneous Hydrocarbons				Chlorinated Benzenes							Trihalomethanes				Organophosphorus Pesticides																									
	1,2-dibromoethane	Bromomethane	Cyclohexane	Dibromomethane	1,2,3-trichlorobenzene	1,2,4-trichlorobenzene	1,2-Dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	Chlorobenzene	Hexachlorobenzene	Dibromochloromethane	Chloroform	Tribromomethane	Bromodichloromethane	Azinophos methyl	Bolstar (Sulprofos)	Chlorfenvinphos	Chlorpyrifos	Chlorpyrifos-methyl	Coumaphos	Demeton-O	Demeton-S	Diazinon	Dichlorvos	Dimethoate	Disulfoton	EPN	Ethion	Ethoprop	Fenitrothion	Fensulfothion	Fenthion	Malathion	Merphos	Methyl parathion	Mevinphos (Phosdrin)	Monocrotophos	Naled (Dibrom)	Omethoate	Phorate
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil											80								2000																						
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 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay 4+m																																								
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand 0-<1m																																								
NEPM 2013 Table 1B(1-5) EIL - Comm/Ind Site Specific (WSP, 2020b)																																								
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil																																								
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Course Soil																																								
CRC Care B(a)P Guidance																																								
Kansas Department of Health and Environment (2002)																																								
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Fine Soil																																								
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Course Soil																																								
NEPM 2013 Table 7 Comm/Ind D Soil HSL for Asbestos in Soil																																								

Field ID	Sample Depth	Sample Date	Soil Description	Report Reference																																						
M2 (Fragment from SP83)	-	4/12/2009	-	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP084	0.4-0.6	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP085	0.4-0.6	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
M4 (Fragment from TP085)	0.6	4/12/2009	-	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP086	0-0.15	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP087	0.4-0.6	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP088	0.4-0.6	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP089	0.4-0.6	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP090	0.4-0.6	3/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP091	0.4-0.6	3/12/2009	Fill	JBS 2010	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.1	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP092	0.4-0.6	3/12/2009	Fill	JBS 2010	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.1	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP093	0.4-0.6	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP095	0.4-0.6	3/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP096	0.4-0.6	3/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP097	0.4-0.6	3/12/2009	Fill	JBS 2010	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.1	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F1 (Fragment from TP097)	-	3/12/2009	-	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP098	0.4-0.6	3/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP098a	0-0.15	3/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP099	0.4-0.6	3/12/2009	Fill	JBS 2010	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.1	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP100	0.4-0.6	3/12/2009	Fill	JBS 2010	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.1	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP101	0.4-0.6	3/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP102	0.4-0.6	3/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP103	0.4-0.6	3/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP104	0.4-0.6	3/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP105	0.4-0.6	3/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP110	0.4-0.6	3/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WSP 2020																																									
In-situ Soil Samples																																									
MW01_0.5	0.5	22/04/2020	Fill - Sandy clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2
MW01_3.0	3	22/04/2020	Natural - Clayey sand	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW02_0.0	0	22/04/2020	Natural - Sandy clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW02_4.0	4	22/04/2020	Natural - Shale	WSP 2020	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2
MW02_6.0	6	22/04/2020	Natural - Shale	WSP 2020	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2
MW03_0.0	0	22/04/2020	Natural - Silty clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW03_1.0	1	22/04/2020	Natural - Silty clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2
MW03_2.0	2	22/04/2020	Natural - Silty clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2
TP01_0.5	0.5	22/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2
TP02_0.5	0.5	22/04/2020	Natural - Sandy clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2
TP03_0.8	0.8	22/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP04_0.1	0.1	22/04/2020	Natural - Silty clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP04_0.6	0.6	22/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2
TPS1_0.0	0	23/04/2020	Natural - Silty clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPS2_0.0	0	23/04/2020	Natural - Silty clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPS3_0.5	0.5	23/04/2020	Fill - Silty gravel	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPS4_0.0	0	23/04/2020	Natural - Silty clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPS5_0.0	0	23/04/2020	Natural - Silty clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPS6_0.5	0.5	23/04/2020	Natural - Silty clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPS7_0.5	0.5	23/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPS8_0.5	0.5	23/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Stockpile Samples																																									
SPA1_0.1	0.1	24/04/2020	Surface - Silty sand	WSP 2020	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2
SPA1_0.5	0.5	24/04/2020	Fill - Silty sand	WSP 2020	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2
SPA1_1.0	1	24/04/2020	Fill - Silty sand	WSP 2020	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2
SPA1_2.0	2	24/04/2020	Natural - Silty clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2
SPA2_0.5	0.5	24/04/2020	Fill - Silty clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2
SPA2_2.0	2	24/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2
SPA2_PACM	-	24/04/2020	-	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SPB1_0.1	0.1	24/04/2020	Fill - Silty sand	WSP 2020	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2
SPB1_1.0	1	24/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2
SPC1_0.5	0.5	24/04/2020	Fill - Silty sand	WSP 2020	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2
SPC1_2.0	2	24/04/2020	Natural - Silty clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2
SP83_0.1	0.1	23/04/2020	Natural - Silty clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP83_0.5	0.5	23/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP84_0.3	0.3	23/04/2020	Fill - Silty clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table C: Historical Soil Summary
Project Number: 62742
Project Name: Huntingwood - Augusta Street, Blacktown

	Miscellaneous Hydrocarbons				Chlorinated Benzenes							Trihalomethanes				Organophosphorus Pesticides																												
	1,2-dibromoethane	Bromomethane	Cyclohexane	Dibromomethane	1,2,3-trichlorobenzene	1,2,4-trichlorobenzene	1,2-Dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	Chlorobenzene	Hexachlorobenzene	Dibromochloromethane	Chloroform	Tribromomethane	Bromodichloromethane	Azinophos methyl	Bolstar (Sulprofos)	Chlorfenvinphos	Chlorpyrifos	Chlorpyrifos-methyl	Coumaphos	Demeton-O	Demeton-S	Diazinon	Dichlorvos	Dimethoate	Disulfoton	EPN	Ethion	Ethoprop	Fenitrothion	Fensulfothion	Fenthion	Malathion	Merphos	Methyl parathion	Mevinphos (Phosdrin)	Monocrotophos	Naled (Dibrom)	Omethoate	Phorate
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil											80								2000																								
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay 0-<1m																			2000																								
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay 1-<2m																			2000																								
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay 2-<4m																			2000																								
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay 4+m																			2000																								
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand 0-<1m																			2000																								
NEPM 2013 Table 1B(1-5) EIL - Comm/Ind Site Specific (WSP, 2020b)																																										
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil																																										
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Course Soil																																										
CRC Care B(a)P Guidance																																										
Kansas Department of Health and Environment (2002)																																										
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Fine Soil																																										
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Course Soil																																										
NEPM 2013 Table 7 Comm/Ind D Soil HSL for Asbestos in Soil																																										

Field ID	Sample Depth	Sample Date	Soil Description	Report Reference																																									
SP84_0.9	0.9	23/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP88_0.1 (A)	0.1	24/04/2020	Fill - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP88_1.0	1	24/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP104_1_0.1	0.1	24/04/2020	Natural - Silty clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP104_1_0.5	0.5	24/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP105_1_0.1	0.1	24/04/2020	Natural - Silty clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP105_1_0.5	0.5	24/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP105_1_1.0	1	24/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP14_0.1	0.1	24/04/2020	Fill - Gravelly sand	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP14_0.5	0.5	24/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP14_1.0	1	24/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP022_0.0	0	22/04/2020	Natural - Silty clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP111_0.0	0	22/04/2020	Fill - Silty clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP111_0.5	0.5	22/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2
F1_1_0.1	0.1	24/04/2020	-	WSP 2020	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2
F1_1_0.5	0.5	24/04/2020	-	WSP 2020	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2
F1_1_1.0	1	24/04/2020	-	WSP 2020	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2
F1_2_0.1	0.1	24/04/2020	-	WSP 2020	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2
F1_2_0.5	0.5	24/04/2020	-	WSP 2020	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2
F1_2_1.0	1	24/04/2020	-	WSP 2020	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2
F1_3_0.1	0.1	24/04/2020	-	WSP 2020	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.5	<2	<0.2	<2	<0.2
F1_3_0.5	0.5	24/04/2020	-	WSP 2020	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.5	<2	<0.2	<2	<0.2
F1_4_0.1	0.1	24/04/2020	-	WSP 2020	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.5	<2	<0.2	<2	<0.2
F1_4_0.5	0.5	24/04/2020	-	WSP 2020	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.5	<2	<0.2	<2	<0.2
F1_5_0.5	0.5	24/04/2020	-	WSP 2020	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2
F1_6_0.5	0.5	24/04/2020	-	WSP 2020	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2
F2_1_0.1	0.1	24/04/2020	Fill - Silty sand	WSP 2020	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2
F2_1_0.5	0.5	24/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2
F2_2_0.1	0.1	24/04/2020	Fill - Silty sand	WSP 2020	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2
F2_2_0.3	0.3	24/04/2020	Fill - Silty sand	WSP 2020	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2
F2_2_0.5	0.5	24/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2
F2_2_1.0	1	24/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2
F2_3_0.1	0.1	24/04/2020	Fill - Silty sand	WSP 2020	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2
F2_3_0.3	0.3	24/04/2020	Fill - Silty sand	WSP 2020	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2
F2_3_0.5	0.5	24/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2
F2_3_1.0	1	24/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2
F2_4_0.1	0.1	24/04/2020	Fill - Silty clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2
F2_4_0.3	0.3	24/04/2020	Fill - Silty clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2
F2_4_0.5	0.5	24/04/2020	Fill - Silty clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2
F2_4_1.0	1	24/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2
F2_5_0.1	0.1	24/04/2020	Fill - Silty sand	WSP 2020	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2
F2_5_0.5	0.5	24/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2
F2_6_0.1	0.1	24/04/2020	Fill - Silty sand	WSP 2020	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2
F2_6_0.5	0.5	24/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2
F2_7_0.5	0.5	24/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2
F3_1_0.1	0.1	24/04/2020	Fill - Silty sand	WSP 2020	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2
F3_1_0.5	0.5	24/04/2020	Natural - Silty clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2
F3_1_1.0	1	24/04/2020	Natural - sandstone	WSP 2020	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2
F3_2_0.1	0.1	24/04/2020	Fill - Silty sand	WSP 2020	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2
F3_2_0.5	0.5	24/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2
F3_3_0.1	0.1	24/04/2020	Fill - Silty sand	WSP 2020	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2
F3_3_0.5	0.5	24/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2
F3_4_0.1	0.1	24/04/2020	Fill - Silty sand	WSP 2020	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2
F3_4_0.5	0.5	24/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2
F3_5_0.5	0.5	24/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2
JBS&G 2021																																											
Stockpile Samples																																											
JSP01_01	-	26/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
JSP02_01	-	26/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP02_01	-	27/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP02_02	-	27/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC02 (dupicate of SP02_02)	-	27/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA02 (triplicate of SP02_02)	-	27/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP05_01	-	27/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table C: Historical Soil Summary
Project Number: 62742
Project Name: Huntingwood - Augusta Street, Blacktown

	Miscellaneous Hydrocarbons				Chlorinated Benzenes							Trihalomethanes				Organophosphorus Pesticides																							
	1,2-dibromoethane	Bromomethane	Cyclohexane	Dibromomethane	1,2,3-trichlorobenzene	1,2,4-trichlorobenzene	1,2-Dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	Chlorobenzene	Hexachlorobenzene	Dibromochloromethane	Chloroform	Tribromomethane	Bromodichloromethane	Azinophos methyl	Bolstar (Sulprofos)	Chlorfenvinphos	Chlorpyrifos	Chlorpyrifos-methyl	Coumaphos	Demeton-O	Demeton-S	Diazinon	Dichlorvos	Dimethoate	Disulfoton	EPN	Ethion	Ethoprop	Fenitrothion	Fensulfothion	Fenthion	Malathion	Merphos	Methyl parathion	Mevinphos (Phosdrin)	Monocrotophos	Naled (Dibrom)	Omethoate	Phorate
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil											80								2000																					
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 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay 4+m																																								
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand 0-<1m																																								
NEPM 2013 Table 1B(1-5) EIL - Comm/Ind Site Specific (WSP, 2020b)																																								
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil																																								
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Course Soil																																								
CRC Care B(a)P Guidance																																								
Kansas Department of Health and Environment (2002)																																								
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Fine Soil																																								
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Course Soil																																								
NEPM 2013 Table 7 Comm/Ind D Soil HSL for Asbestos in Soil																																								

Field ID	Sample Depth	Sample Date	Soil Description	Report Reference																																						
SP05_02	-	27/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP06_01	-	27/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP06_02	-	27/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP06_03	-	27/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP06_04	-	27/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP06_05	-	27/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP06_06	-	27/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP14_01	-	26/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP18_01	-	26/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP18_02	-	26/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP18a_01	-	26/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP21_01	-	26/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP21_02	-	26/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP21_03	-	26/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP21_04	-	26/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP23_01	-	26/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP23_02	-	26/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
In-situ Soil Samples																																								
SS02_01	0-0.1	26/10/2021	Fill - Silty clay	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SS03_01	0-0.1	26/10/2021	Fill - Clay	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC01 (duplicate of SS03_01)	0-0.1	26/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA01 (triplicate of SS03_01)	0-0.1	26/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SS04_01	0-0.1	26/10/2021	Fill - Silty clay	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SS05_01	0-0.1	26/10/2021	Fill - Clay	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SS09_01	0-0.1	26/10/2021	Fill - Silty clay	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SS10_01	0-0.1	27/10/2021	Fill Silty clay	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SS11_01	0-0.1	27/10/2021	Fill - Silty clay	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SS13_01	0-0.1	27/10/2021	Fill - Silty clay	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SS14_01	0-0.1	26/10/2021	Natural - Clay	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SS22_01	0-0.1	26/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SS22_02	0-0.1	26/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Douglas Partners 2021																																								
In-situ Soil Samples																																								
TP1	0.1-0.2	28/10/2021	Top soil - Silty clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.1	<0.1	-	-	-	<0.1	<0.1	<0.1	-	-	<0.1	-	-	-	-	-	-	-
BH2	0.2-0.3	29/10/2021	Fill - Gravelly sand	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.1	<0.1	-	-	-	<0.1	<0.1	<0.1	-	-	<0.1	-	-	-	-	-	-	-
BH2	0.5-0.6	29/10/2021	Natural - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH3	0.2-0.3	28/10/2021	Fill - Gravelly sand	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.1	<0.1	-	-	-	<0.1	<0.1	<0.1	-	-	<0.1	-	-	-	-	-	-	-
TP4	0.1-0.15	28/10/2021	Top soil - Silty clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.1	<0.1	-	-	-	<0.1	<0.1	<0.1	-	-	<0.1	-	-	-	-	-	-	-
TP4	0.5-0.6	28/10/2021	Natural - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH5	0.2-0.3	28/10/2021	Fill - Gravelly sand	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.1	<0.1	-	-	-	<0.1	<0.1	<0.1	-	-	<0.1	-	-	-	-	-	-	-
BH6	0.4-0.5	29/10/2021	Fill - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH6	0.9-1.0	29/10/2021	Natural - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH6	2.9-3.0	29/10/2021	Natural - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH7	0.4-0.5	29/10/2021	Fill - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.1	<0.1	-	-	-	<0.1	<0.1	<0.1	-	-	<0.1	-	-	-	-	-	-	-
BD3JH/20211029 (duplicate pair BH7)	0.4-0.5	29/10/2021	Fill - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH7	0.9-1.0	29/10/2021	Fill - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH7	2.4-2.5	29/10/2021	Natural - Siltstone gravel	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH8	0.2-0.3	29/10/2021	Fill - Gravelly sand	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.1	<0.1	-	-	-	<0.1	<0.1	<0.1	-	-	<0.1	-	-	-	-	-	-	-
TP9	0.1-0.15	29/10/2021	Fill - Gravelly clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.1	<0.1	-	-	-	<0.1	<0.1	<0.1	-	-	<0.1	-	-	-	-	-	-	-
TP9	1.0-1.1	29/10/2021	Fill - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP9	2.0-2.1	29/10/2021	Fill - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP9	3.0-3.1	29/10/2021	Natural - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP10	0.1-0.2	29/10/2021	Fill - Gravelly clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.1	<0.1	-	-	-	<0.1	<0.1	<0.1	-	-	<0.1	-	-	-	-	-	-	-
TP10	1.0-1.1	29/10/2021	Fill - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP10	2.0-2.1	29/10/2021	Fill - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP10	2.5-2.6	29/10/2021	Natural - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP11	0.1-0.2	29/10/2021	Fill - Gravelly clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.1	<0.1	-	-	-	<0.1	<0.1	<0.1	-	-	<0.1	-	-	-	-	-	-	-
TP11	0.5-0.6	29/10/2021	Fill - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP11	1.0-1.1	29/10/2021	Fill - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP11	2.0-2.1	29/10/2021	Fill - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP11	3.0-3.1	29/10/2021	Fill - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP12	0.1-0.2	29/10/2021	Fill - Gravelly clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.1	<0.1	-	-	-	<0.1	<0.1	<0.1	-	-	<0.1	-	-	-	-	-	-	-
TP12	0.5-0.6	29/10/2021	Fill - Gravelly clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP12	1.0-1.1	29/10/2021	Fill - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table C: Historical Soil Summary
Project Number: 62742
Project Name: Huntingwood - Augusta Street, Blacktown

	Miscellaneous Hydrocarbons				Chlorinated Benzenes							Trihalomethanes				Organophosphorus Pesticides																											
	1,2-dibromoethane	Bromomethane	Cyclohexane	Dibromomethane	1,2,3-trichlorobenzene	1,2,4-trichlorobenzene	1,2-Dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	Chlorobenzene	Hexachlorobenzene	Dibromochloromethane	Chloroform	Tribromomethane	Bromodichloromethane	Azinophos methyl	Bolstar (Sulprofos)	Chlorfenvinphos	Chlorpyrifos	Chlorpyrifos-methyl	Coumaphos	Demeton-O	Demeton-S	Diazinon	Dichlorvos	Dimethoate	Disulfoton	EPN	Ethion	Ethoprop	Fenitrothion	Fensulfothion	Fenthion	Malathion	Merphos	Methyl parathion	Mevinphos (Phosdrin)	Monocrotophos	Naled (Dibrom)	Omethoate	Phorate
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil											80								2000																							
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 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay 4+m																																									
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand 0-<1m																																									
NEPM 2013 Table 1B(1-5) EIL - Comm/Ind Site Specific (WSP, 2020b)																																									
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil																																									
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Course Soil																																									
CRC Care B(a)P Guidance																																									
Kansas Department of Health and Environment (2002)																																									
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Fine Soil																																									
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Course Soil																																									
NEPM 2013 Table 7 Comm/Ind D Soil HSL for Asbestos in Soil																																									

Field ID	Sample Depth	Sample Date	Soil Description	Report Reference																																								
TP12	2.0-2.1	29/10/2021	Fill - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP12	3.0-3.1	29/10/2021	Fill - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.1	<0.1	-	-	-	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-	-	<0.1	-	-	-	-	-	-
TP12	4.0-4.1	29/10/2021	Natural - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP13	0.1-0.2	28/10/2021	Fill - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.1	<0.1	-	-	-	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-	-	<0.1	-	-	-	-	-	-
TP13	1.0-1.1	28/10/2021	Natural - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD1/281021 (triplicate pair TP13)	1.0-1.1	28/10/2021	Natural - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP14	0.1-0.2	28/10/2021	Fill - Sandy gravel	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.1	<0.1	-	-	-	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-	-	<0.1	-	-	-	-	-	-
TP15	0.1-0.2	28/10/2021	Fill - Sandy gravel	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.1	<0.1	-	-	-	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-	-	<0.1	-	-	-	-	-	-
TP15	0.5-0.6	28/10/2021	Fill - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP15	1.0-1.1	28/10/2021	Fill - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP15	2.0-2.1	28/10/2021	Natural - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD2/281021 (triplicate pair TP15)	2.0-2.1	28/10/2021	Natural - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP16	0.1-0.2	28/10/2021	Fill - Sandy gravel	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.1	<0.1	-	-	-	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-	-	<0.1	-	-	-	-	-	-
TP16	0.5-0.6	28/10/2021	Fill - Gravelly clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP16	1.0-1.1	28/10/2021	Fill - Gravelly clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP16	2.0-2.1	28/10/2021	Fill - Gravelly clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH16A	2.4-2.5	29/10/2021	Fill - Gravelly clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.1	<0.1	-	-	-	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-	-	<0.1	-	-	-	-	-	-
BH16A	3.1-3.2	29/10/2021	Natural - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP17*	0.1-0.2	28/10/2021	Fill - Sandy gravel	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.1	<0.1	-	-	-	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-	-	<0.1	-	-	-	-	-	-
TP17	0.5-0.6	28/10/2021	Fill - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP17	1.0-1.1	28/10/2021	Fill - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP17	2.0-2.1	28/10/2021	Fill - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP18	0.1-0.2	29/10/2021	Top soil - Silty clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.1	<0.1	-	-	-	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-	-	<0.1	-	-	-	-	-	-
TP19	0.1-0.2	29/10/2021	Top soil - Silty clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP19	0.5-0.6	29/10/2021	Natural - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD6/291021 (duplicate pair TP19)	0.5-0.6	29/10/2021	Natural - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP20	0.1-0.15	29/10/2021	Top soil - Silty clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.1	<0.1	-	-	-	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-	-	<0.1	-	-	-	-	-	-
BH21	0.2-0.3	28/10/2021	Fill - Gravelly clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.1	<0.1	-	-	-	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-	-	<0.1	-	-	-	-	-	-
BH22	0.1-0.2	28/10/2021	Fill - Gravelly sand	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.1	<0.1	-	-	-	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-	-	<0.1	-	-	-	-	-	-
BH23	0.1-0.2	28/10/2021	Fill - Sand	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.1	<0.1	-	-	-	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-	-	<0.1	-	-	-	-	-	-
BH23	0.5-0.6	28/10/2021	Natural - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH24	0.1-0.2	29/10/2021	Fill - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.1	<0.1	-	-	-	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-	-	<0.1	-	-	-	-	-	-
BD1JH/20211029 (triplicate pair BH24)	0.1-0.2	29/10/2021	Fill - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH24	0.9-1.0	29/10/2021	Fill - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH24	1.0-1.2	29/10/2021	Natural - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH25	0.1-0.2	29/10/2021	Fill - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH25	0.4-0.5	29/10/2021	Fill - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.1	<0.1	-	-	-	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-	-	<0.1	-	-	-	-	-	-
BH25	0.9-1.0	29/10/2021	Natural - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP26	0.1-0.2	28/10/2021	Fill - Gravelly sand	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.1	<0.1	-	-	-	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-	-	<0.1	-	-	-	-	-	-
TP26	0.5-0.6	28/10/2021	Fill - Gravelly sand	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP26	1.0-1.1	28/10/2021	Natural - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP26	1.5-1.6	28/10/2021	Natural - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD4/281021 (duplicate pair BH26)	1.5-1.6	28/10/2021	Natural - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH27	0.4-0.5	29/10/2021	Fill - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.1	<0.1	-	-	-	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-	-	<0.1	-	-	-	-	-	-
BD2JH/202111029 (duplicate pair BH27)	0.4-0.5	29/10/2021	Fill - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH27	1.4-1.5	29/10/2021	Natural - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SS1	Surface	27/10/2021	Fill - Sand	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SS2	Surface	27/10/2021	Fill - Sand	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SS3	Surface	27/10/2021	Fill - Sand	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SS4	Surface	27/10/2021	Fill - Sand	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SS5*	Surface	27/10/2021	Fill - Sand	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SS6	Surface	27/10/2021	Fill - Sand	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

* Triplicate analysis undertaken by laboratory for metals on sample. The highest concentration recorded has been summarised in this table.

Table C: Historical Soil Summary
Project Number: 62742
Project Name: Huntingwood - Augusta Street, Blacktown

										Non-Metallic Inorganics						Major Anions			Asbestos		Asbesots ID
										Nitrate & Nitrite (as N)	Ammonia as N	Nitrate (as N)	Nitrite (as N)	Nitrogen (Total)	Kjeldahl Nitrogen Total	Phosphorus	Chloride	Sulphate	Asbestos from ACM in Soil	Asbestos FA & AF in Soil	Asbestos Reported Result
	Pirimiphos-methyl	Pyrazophos	Ronnel	Terbufos	Tetrachlorvinphos	Tokuthion	Trichloronate	Parathion														
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	% (w/w)	% (w/w)	Comment
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil																					
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 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay 4+m																					
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand 0-<1m																					
NEPM 2013 Table 1B(1-5) EIL - Comm/Ind Site Specific (WSP, 2020b)																					
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil																					
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Course Soil																					
CRC Care B(a)P Guidance																					
Kansas Department of Health and Environment (2002)													40								
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Fine Soil																					
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Course Soil																					
NEPM 2013 Table 7 Comm/Ind D Soil HSL for Asbestos in Soil																				0.05	0.001	

Field ID	Sample Depth	Sample Date	Soil Description	Report Reference																			
JBS 2010																							
In-situ Soil Samples																							
TP1	0-0.15	4/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP002	0-0.1	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP003	0-0.15	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC4 (duplicate of TP003)	0-0.15	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP004	0-0.1	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP005	0-0.1	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP006	0-0.15	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP007	0-0.1	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP008	0-0.15	3/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP009	0-0.1	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP010	0-0.15	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP011	0-0.15	4/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC7 (duplicate of TP011)	0-0.15	4/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP012	0-0.15	4/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP013	0-0.1	4/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP014	0-0.1	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
M3 (fragment from TP014)	surface	4/12/2009	-	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Chrysotile asbestos detected.
M3 (soil under M3)	0.1	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	-
TP015	0-0.15	4/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP017	0-0.1	4/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP018	0-0.15	4/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC9 (duplucate of TP018)	0-0.15	4/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP019	0-0.15	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP020	0-0.15	4/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP021	0-0.15	4/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F1 (Fragment from TP022)	surface	9/12/2009	-	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Chrysotile asbestos detected. Amosite asbestos detected.
FS1 (soil under F1)	0.1	9/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	-
TP022B	0-0.1	9/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP023	0-0.1	4/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP024B	0-0.1	9/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP025	0-0.1	4/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP026	0-0.1	4/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP027	0-0.15	4/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP028	0-0.1	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	-
TP029	0-0.15	4/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP029	0.5-0.7	4/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP030	0-0.15	4/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP031	0-0.1	4/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP032	0-0.1	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP032	0.3-0.4	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP033	0-0.15	4/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP034	0-0.1	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP035	0-0.1	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP035	1.6-1.8	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP036	0-0.1	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP037	0-0.1	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP038	0-0.15	4/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP039	0-0.15	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP039	0.5-0.6	4/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP40	0-0.15	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC6 (duplicate of TP040)	0-0.15	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP041	0-0.1	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP041	0.2-0.3	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP042	0-0.1	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	-
TP043	0-0.15	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP044	0-0.1	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP045	0-0.15	4/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC5 (duplicate of TP045)	0-0.15	4/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP046B	0-0.1	9/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP047	0-0.1	4/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP048	0-0.1	4/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP049	0.4-0.6	4/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	-

Table C: Historical Soil Summary
Project Number: 62742
Project Name: Huntingwood - Augusta Street, Blacktown

										Non-Metallic Inorganics						Major Anions			Asbestos		Asbesots ID
	Pirimiphos-methyl	Pyrazophos	Ronnel	Terbufos	Tetrachlorvinphos	Tokuthion	Trichloronate	Parathion	Nitrate & Nitrite (as N)	Ammonia as N	Nitrate (as N)	Nitrite (as N)	Nitrogen (Total)	Kjeldahl Nitrogen Total	Phosphorus	Chloride	Sulphate	Asbestos from ACM in Soil	Asbestos FA & AF in Soil	Asbestos Reported Result
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	% (w/w)	% (w/w)	Comment
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil																				
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 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay 4+m																				
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand 0-<1m																				
NEPM 2013 Table 1B(1-5) EIL - Comm/Ind Site Specific (WSP, 2020b)																				
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil																				
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Course Soil																				
CRC Care B(a)P Guidance																				
Kansas Department of Health and Environment (2002)											40									
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Fine Soil																				
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Course Soil																				
NEPM 2013 Table 7 Comm/Ind D Soil HSL for Asbestos in Soil																		0.05	0.001	

Field ID	Sample Depth	Sample Date	Soil Description	Report Reference																		
TP049B	Stockpile	9/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP050	0-0.1	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP051	0-0.1	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP052	0-0.1	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP053	0-0.1	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP054	0-0.1	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP055	0-0.1	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP056	0-0.1	3/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0
TP057	0-0.1	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP058	0-0.1	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP059	0-0.15	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP060	0-0.15	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP061	0-0.15	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC1 (duplicate of TP061)	0-0.15	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP062	0-0.15	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP063	0-0.15	3/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0
M1 (Fragment fron TP063)	surface	3/12/2009	-	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP063	0.2-0.3	3/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP064	0-0.15	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP065	0-0.15	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP066	0-0.15	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP067	0-0.1	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP068	0-0.1	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP069	0-0.15	3/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0
TP069	0.5-0.6	3/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP070	0-0.15	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP071	0-0.1	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP072	0-0.1	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP073	0-0.1	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP074	0-0.1	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP075	0-0.1	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP076	0-0.1	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP077	0-0.15	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP078	0-0.15	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC3 (duplciate of TP078)	0-0.15	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP079	0-0.15	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC2 (duplicate of TP080)	0-0.15	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP080	0-0.15	3/12/2009	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP111	0-0.1	3/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0
TP111-F1 (Frgment from TP111)	surface	4/12/2009	-	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA112	0-0.1	7/04/2010	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA113	0-0.1	7/04/2010	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA114	0-0.1	7/04/2010	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA115	0-0.1	7/04/2010	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA116	0-0.1	7/04/2010	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA117	0-0.1	7/04/2010	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA118	0-0.1	7/04/2010	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA119	0-0.1	7/04/2010	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA120	0-0.1	7/04/2010	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA121	0-0.1	7/04/2010	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA122	0-0.1	7/04/2010	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA123	0-0.1	7/04/2010	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA124	0-0.1	7/04/2010	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA125	0-0.1	7/04/2010	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA126	0-0.1	7/04/2010	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA127	0-0.1	7/04/2010	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA128	0-0.1	7/04/2010	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA129	0-0.1	7/04/2010	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA130	0-0.1	7/04/2010	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0
HA131	0-0.1	7/04/2010	Silty clay	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0
Stockpile Samples																						
TP081	0.4-0.6	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0
TP082	0.4-0.6	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0
SP83	0.4-0.6	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0

Table C: Historical Soil Summary
Project Number: 62742
Project Name: Huntingwood - Augusta Street, Blacktown

										Non-Metallic Inorganics						Major Anions			Asbestos		Asbesots ID
										Nitrate & Nitrite (as N)	Ammonia as N	Nitrate (as N)	Nitrite (as N)	Nitrogen (Total)	Kjeldahl Nitrogen Total	Phosphorus	Chloride	Sulphate	Asbestos from ACM in Soil	Asbestos FA & AF in Soil	Asbestos Reported Result
										Pirimiphos-methyl	Pyrazophos	Ronnel	Terbufos	Tetrachlorvinphos	Tokuthion	Trichloronate	Parathion												
										mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	% (w/w)	% (w/w)	Comment
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil																													
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 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay 4+m																													
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand 0-<1m																													
NEPM 2013 Table 1B(1-5) EIL - Comm/Ind Site Specific (WSP, 2020b)																													
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil																													
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Course Soil																													
CRC Care B(a)P Guidance																													
Kansas Department of Health and Environment (2002)														40															
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Fine Soil																													
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Course Soil																													
NEPM 2013 Table 7 Comm/Ind D Soil HSL for Asbestos in Soil																											0.05	0.001	
Field ID	**Sample Depth**	**Sample Date**	**Soil Description**	**Report Reference**																									
M2 (Fragment from SP83)	-	4/12/2009	-	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Chrysotile asbestos detected.
SP084	0.4-0.6	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	-
TP085	0.4-0.6	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	-
M4 (Fragment from TP085)	0.6	4/12/2009	-	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	Chrysotile asbestos detected.
TP086	0-0.15	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	-
TP087	0.4-0.6	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP088	0.4-0.6	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	-
TP089	0.4-0.6	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	-
TP090	0.4-0.6	3/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP091	0.4-0.6	3/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP092	0.4-0.6	3/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP093	0.4-0.6	4/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP095	0.4-0.6	3/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP096	0.4-0.6	3/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP097	0.4-0.6	3/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F1 (Fragment from TP097)	-	3/12/2009	-	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Chrysotile asbestos detected.
SP098	0.4-0.6	3/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP098a	0-0.15	3/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP099	0.4-0.6	3/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP100	0.4-0.6	3/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP101	0.4-0.6	3/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP102	0.4-0.6	3/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP103	0.4-0.6	3/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP104	0.4-0.6	3/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	-
TP105	0.4-0.6	3/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	-
TP110	0.4-0.6	3/12/2009	Fill	JBS 2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	-
WSP 2020																													
In-situ Soil Samples																													
MW01_0.5	0.5	22/04/2020	Fill - Sandy clay	WSP 2020	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<5	<5	<5	<5	-	1100	210	360	97	0	0	-
MW01_3.0	3	22/04/2020	Natural - Clayey sand	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	-
MW02_0.0	0	22/04/2020	Natural - Sandy clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1200	170	-	-	-
MW02_4.0	4	22/04/2020	Natural - Shale	WSP 2020	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<5	<5	<5	<5	950	950	430	-	-	0	0	-
MW02_6.0	6	22/04/2020	Natural - Shale	WSP 2020	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<5	<5	<5	<5	560	560	510	-	-	0	0	-
MW03_0.0	0	22/04/2020	Natural - Silty clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	250	57	-	-	-
MW03_1.0	1	22/04/2020	Natural - Silty clay	WSP 2020	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<5	<5	<5	<5	980	980	210	-	-	0	0	-
MW03_2.0	2	22/04/2020	Natural - Silty clay	WSP 2020	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<5	<5	<5	<5	-	880	93	-	-	0	0	-
TP01_0.5	0.5	22/04/2020	Natural - Clay	WSP 2020	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	-	270	43	0	0	-
TP02_0.5	0.5	22/04/2020	Natural - Sandy clay	WSP 2020	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	-	260	17	0	0	-
TP03_0.8	0.8	22/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	-
TP04_0.1	0.1	22/04/2020	Natural - Silty clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	210	<10	-	-	-
TP04_0.6	0.6	22/04/2020	Natural - Clay	WSP 2020	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	-	240	13	0	0	-
TPS1_0.0	0	23/04/2020	Natural - Silty clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	300	29	-	-	-
TPS2_0.0	0	23/04/2020	Natural - Silty clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	290	<10	-	-	-
TPS3_0.5	0.5	23/04/2020	Fill - Silty gravel	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	310	25	-	-	-
TPS4_0.0	0	23/04/2020	Natural - Silty clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	200	13	-	-	-
TPS5_0.0	0	23/04/2020	Natural - Silty clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	270	<10	-	-	-
TPS6_0.5	0.5	23/04/2020	Natural - Silty clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	250	16	-	-	-
TPS7_0.5	0.5	23/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	260	52	-	-	-
TPS8_0.5	0.5	23/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	290	21	-	-	-
Stockpile Samples																													
SPA1_0.1	0.1	24/04/2020	Surface - Silty sand	WSP 2020	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	-	-	-	0	0	-
SPA1_0.5	0.5	24/04/2020	Fill - Silty sand	WSP 2020	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	-	-	-	0	0	-
SPA1_1.0	1	24/04/2020	Fill - Silty sand	WSP 2020	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	-	-	-	0	0	-
SPA1_2.0	2	24/04/2020	Natural - Silty clay	WSP 2020	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	-	-	-	0	0	-
SPA2_0.5	0.5	24/04/2020	Fill - Silty clay	WSP 2020	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	-	-	-	0	0	-
SPA2_2.0	2	24/04/2020	Natural - Clay	WSP 2020	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	-	-	-	0	0	-
SPA2_PACM	-	24/04/2020	-	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	-
SPB1_0.1	0.1	24/04/2020	Fill - Silty sand	WSP 2020	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	-	-	-	0	0	-
SPB1_1.0	1	24/04/2020	Natural - Clay	WSP 2020	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	-	-	-	0	0	-
SPC1_0.5	0.5	24/04/2020	Fill - Silty sand	WSP 2020	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	-	-	-	0	0	-
SPC1_2.0	2	24/04/2020	Natural - Silty clay	WSP 2020	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	-	-	-	0	0	-
SP83_0.1	0.1	23/04/2020	Natural - Silty clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	-
SP83_0.5	0.5	23/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	-
SP84_0.3	0.3	23/04/2020	Fill - Silty clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	-

Table C: Historical Soil Summary
Project Number: 62742
Project Name: Huntingwood - Augusta Street, Blacktown

										Non-Metallic Inorganics						Major Anions			Asbestos		Asbesots ID
				Pirimiphos-methyl	Pyrazophos	Ronnel	Terbufos	Tetrachlorvinphos	Tokuthion	Trichloronate	Parathion	Nitrate & Nitrite (as N)	Ammonia as N	Nitrate (as N)	Nitrite (as N)	Nitrogen (Total)	Kjeldahl Nitrogen Total	Phosphorus	Chloride	Sulphate	Asbestos from ACM in Soil	Asbestos FA & AF in Soil	Asbestos Reported Result
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	% (w/w)	% (w/w)	Comment
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil																							
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 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay 4+m																							
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand 0-<1m																							
NEPM 2013 Table 1B(1-5) EIL - Comm/Ind Site Specific (WSP, 2020b)																							
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil																							
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Course Soil																							
CRC Care B(a)P Guidance																							
Kansas Department of Health and Environment (2002)														40									
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Fine Soil																							
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Course Soil																							
NEPM 2013 Table 7 Comm/Ind D Soil HSL for Asbestos in Soil																					0.05	0.001	
Field ID	**Sample Depth**	**Sample Date**	**Soil Description**	**Report Reference**																			
SP84_0.9	0.9	23/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	-
SP88_0.1 (A)	0.1	24/04/2020	Fill - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	-
SP88_1.0	1	24/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	-
SP104_1_0.1	0.1	24/04/2020	Natural - Silty clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	-
SP104_1_0.5	0.5	24/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	-
SP105_1_0.1	0.1	24/04/2020	Natural - Silty clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP105_1_0.5	0.5	24/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP105_1_1.0	1	24/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP14_0.1	0.1	24/04/2020	Fill - Gravelly sand	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	-
TP14_0.5	0.5	24/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	350	290	-	-	-
TP14_1.0	1	24/04/2020	Natural - Clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	-
TP022_0.0	0	22/04/2020	Natural - Silty clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	310	10	0	0	-
TP111_0.0	0	22/04/2020	Fill - Silty clay	WSP 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	-
TP111_0.5	0.5	22/04/2020	Natural - Clay	WSP 2020	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	-	240	18	0	0	-
F1_1_0.1	0.1	24/04/2020	-	WSP 2020	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	-	-	-	0	0	-
F1_1_0.5	0.5	24/04/2020	-	WSP 2020	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	-	-	-	0	0	-
F1_1_1.0	1	24/04/2020	-	WSP 2020	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	-	-	-	0	0	-
F1_2_0.1	0.1	24/04/2020	-	WSP 2020	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	-	-	-	0	0	-
F1_2_0.5	0.5	24/04/2020	-	WSP 2020	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	-	-	-	0	0	-
F1_2_1.0	1	24/04/2020	-	WSP 2020	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	-	-	-	0	0	-
F1_3_0.1	0.1	24/04/2020	-	WSP 2020	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	-	-	-	0	0	-
F1_3_0.5	0.5	24/04/2020	-	WSP 2020	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	-	-	-	0	0	-
F1_4_0.1	0.1	24/04/2020	-	WSP 2020	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	-	-	-	0	0	-
F1_4_0.5	0.5	24/04/2020	-	WSP 2020	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	-	-	-	0	0	-
F1_5_0.5	0.5	24/04/2020	-	WSP 2020	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	-	-	-	0	0	-
F1_6_0.5	0.5	24/04/2020	-	WSP 2020	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	-	-	-	0	0	-
F2_1_0.1	0.1	24/04/2020	Fill - Silty sand	WSP 2020	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	-	-	-	0	0	-
F2_1_0.5	0.5	24/04/2020	Natural - Clay	WSP 2020	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	-	-	-	0	0	-
F2_2_0.1	0.1	24/04/2020	Fill - Silty sand	WSP 2020	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	-	-	-	0	0	-
F2_2_0.3	0.3	24/04/2020	Fill - Silty sand	WSP 2020	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	-	-	-	0	0	-
F2_2_0.5	0.5	24/04/2020	Natural - Clay	WSP 2020	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	-	-	-	0	0	-
F2_2_1.0	1	24/04/2020	Natural - Clay	WSP 2020	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	-	-	-	0	0	-
F2_3_0.1	0.1	24/04/2020	Fill - Silty sand	WSP 2020	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	-	-	-	0	0	-
F2_3_0.3	0.3	24/04/2020	Fill - Silty sand	WSP 2020	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	-	-	-	0	0	-
F2_3_0.5	0.5	24/04/2020	Natural - Clay	WSP 2020	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	-	-	-	0	0	-
F2_3_1.0	1	24/04/2020	Natural - Clay	WSP 2020	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	-	-	-	0	0	-
F2_4_0.1	0.1	24/04/2020	Fill - Silty clay	WSP 2020	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	-	-	-	0	0	-
F2_4_0.3	0.3	24/04/2020	Fill - Silty clay	WSP 2020	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	-	-	-	0	0	-
F2_4_0.5	0.5	24/04/2020	Fill - Silty clay	WSP 2020	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	-	-	-	0	0	-
F2_4_1.0	1	24/04/2020	Natural - Clay	WSP 2020	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	-	-	-	0	0	-
F2_5_0.1	0.1	24/04/2020	Fill - Silty sand	WSP 2020	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	-	-	-	0	0	-
F2_5_0.5	0.5	24/04/2020	Natural - Clay	WSP 2020	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	-	-	-	0	0	-
F2_6_0.1	0.1	24/04/2020	Fill - Silty sand	WSP 2020	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	-	-	-	0	0	-
F2_6_0.5	0.5	24/04/2020	Natural - Clay	WSP 2020	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	-	-	-	0	0	-
F2_7_0.5	0.5	24/04/2020	Natural - Clay	WSP 2020	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	-	-	-	0	0	-
F3_1_0.1	0.1	24/04/2020	Fill - Silty sand	WSP 2020	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	-	-	-	0	0	-
F3_1_0.5	0.5	24/04/2020	Natural - Silty clay	WSP 2020	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	-	-	-	0	0	-
F3_1_1.0	1	24/04/2020	Natural - sandstone	WSP 2020	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	-	-	-	0	0	-
F3_2_0.1	0.1	24/04/2020	Fill - Silty sand	WSP 2020	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	-	-	-	0	0	-
F3_2_0.5	0.5	24/04/2020	Natural - Clay	WSP 2020	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	-	-	-	0	0	-
F3_3_0.1	0.1	24/04/2020	Fill - Silty sand	WSP 2020	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	-	-	-	0	0	-
F3_3_0.5	0.5	24/04/2020	Natural - Clay	WSP 2020	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	-	-	-	0	0	-
F3_4_0.1	0.1	24/04/2020	Fill - Silty sand	WSP 2020	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	-	-	-	0	0	-
F3_4_0.5	0.5	24/04/2020	Natural - Clay	WSP 2020	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	-	-	-	0	0	-
F3_5_0.5	0.5	24/04/2020	Natural - Clay	WSP 2020	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	-	-	-	0	0	-
JBS&G 2021																							
Stockpile Samples																							
JSP01_01	-	26/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	-
JSP02_01	-	26/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	-
SP02_01	-	27/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	-
SP02_02	-	27/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	-
QC02 (dupicate of SP02_02)	-	27/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	-
QA02 (triplicate of SP02_02)	-	27/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP05_01	-	27/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.1393	0	Chrysotile asbestos detected.

Table C: Historical Soil Summary
Project Number: 62742
Project Name: Huntingwood - Augusta Street, Blacktown

										Non-Metallic Inorganics						Major Anions			Asbestos		Asbesots ID
										Nitrate & Nitrite (as N)	Ammonia as N	Nitrate (as N)	Nitrite (as N)	Nitrogen (Total)	Kjeldahl Nitrogen Total	Phosphorus	Chloride	Sulphate	Asbestos from ACM in Soil	Asbestos FA & AF in Soil	Asbestos Reported Result
	Pirimiphos-methyl	Pyrazophos	Ronnel	Terbufos	Tetrachlorvinphos	Tokuthion	Trichloronate	Parathion														
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	% (w/w)	% (w/w)	Comment
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil																					
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 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay 4+m																					
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand 0-<1m																					
NEPM 2013 Table 1B(1-5) EIL - Comm/Ind Site Specific (WSP, 2020b)																					
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil																					
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Course Soil																					
CRC Care B(a)P Guidance																					
Kansas Department of Health and Environment (2002)													40								
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Fine Soil																					
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Course Soil																					
NEPM 2013 Table 7 Comm/Ind D Soil HSL for Asbestos in Soil																			0.05	0.001	

Field ID	Sample Depth	Sample Date	Soil Description	Report Reference																		
SP05_02	-	27/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0074	0.0003	Chrysotile asbestos detected.
SP06_01	-	27/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	-
SP06_02	-	27/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	-
SP06_03	-	27/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	-
SP06_04	-	27/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	-
SP06_05	-	27/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	-
SP06_06	-	27/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	-
SP14_01	-	26/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	-
SP18_01	-	26/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	-
SP18_02	-	26/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	-
SP18a_01	-	26/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	-
SP21_01	-	26/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	-
SP21_02	-	26/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	-
SP21_03	-	26/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	-
SP21_04	-	26/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	-
SP23_01	-	26/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	-
SP23_02	-	26/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	-
In-situ Soil Samples																						
SS02_01	0-0.1	26/10/2021	Fill - Silty clay	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	-
SS03_01	0-0.1	26/10/2021	Fill - Clay	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	-
QC01 (duplicate of SS03_01)	0-0.1	26/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	-
QA01 (triplicate of SS03_01)	0-0.1	26/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SS04_01	0-0.1	26/10/2021	Fill - Silty clay	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	-
SS05_01	0-0.1	26/10/2021	Fill - Clay	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	-
SS09_01	0-0.1	26/10/2021	Fill - Silty clay	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	-
SS10_01	0-0.1	27/10/2021	Fill Silty clay	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	-
SS11_01	0-0.1	27/10/2021	Fill - Silty clay	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	-
SS13_01	0-0.1	27/10/2021	Fill - Silty clay	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	-
SS14_01	0-0.1	26/10/2021	Natural - Clay	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	-
SS22_01	0-0.1	26/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	-
SS22_02	0-0.1	26/10/2021	-	JBS&G 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	-
Douglas Partners 2021																						
In-situ Soil Samples																						
TP1	0.1-0.2	28/10/2021	Top soil - Silty clay	DP 2021	-	-	<0.1	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	<0.001	-
BH2	0.2-0.3	29/10/2021	Fill - Gravelly sand	DP 2021	-	-	<0.1	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	<0.001	-
BH2	0.5-0.6	29/10/2021	Natural - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH3	0.2-0.3	28/10/2021	Fill - Gravelly sand	DP 2021	-	-	<0.1	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	<0.001	-
TP4	0.1-0.15	28/10/2021	Top soil - Silty clay	DP 2021	-	-	<0.1	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	<0.001	-
TP4	0.5-0.6	28/10/2021	Natural - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH5	0.2-0.3	28/10/2021	Fill - Gravelly sand	DP 2021	-	-	<0.1	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	<0.001	-
BH6	0.4-0.5	29/10/2021	Fill - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH6	0.9-1.0	29/10/2021	Natural - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH6	2.9-3.0	29/10/2021	Natural - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH7	0.4-0.5	29/10/2021	Fill - Clay	DP 2021	-	-	<0.1	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	<0.001	-
BD3JH/20211029 (duplicate pair BH7)	0.4-0.5	29/10/2021	Fill - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH7	0.9-1.0	29/10/2021	Fill - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.001	-
BH7	2.4-2.5	29/10/2021	Natural - Siltstone gravel	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH8	0.2-0.3	29/10/2021	Fill - Gravelly sand	DP 2021	-	-	<0.1	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	<0.001	-
TP9	0.1-0.15	29/10/2021	Fill - Gravelly clay	DP 2021	-	-	<0.1	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	<0.001	-
TP9	1.0-1.1	29/10/2021	Fill - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.001	-
TP9	2.0-2.1	29/10/2021	Fill - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.001	-
TP9	3.0-3.1	29/10/2021	Natural - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.001	-
TP10	0.1-0.2	29/10/2021	Fill - Gravelly clay	DP 2021	-	-	<0.1	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	<0.001	-
TP10	1.0-1.1	29/10/2021	Fill - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.001	-
TP10	2.0-2.1	29/10/2021	Fill - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.001	-
TP10	2.5-2.6	29/10/2021	Natural - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP11	0.1-0.2	29/10/2021	Fill - Gravelly clay	DP 2021	-	-	<0.1	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	<0.001	-
TP11	0.5-0.6	29/10/2021	Fill - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.001	-
TP11	1.0-1.1	29/10/2021	Fill - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.001	-
TP11	2.0-2.1	29/10/2021	Fill - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.001	-
TP11	3.0-3.1	29/10/2021	Fill - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.001	-
TP12	0.1-0.2	29/10/2021	Fill - Gravelly clay	DP 2021	-	-	<0.1	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	<0.001	-
TP12	0.5-0.6	29/10/2021	Fill - Gravelly clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.001	-
TP12	1.0-1.1	29/10/2021	Fill - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0366	Chrysotile asbestos

Table C: Historical Soil Summary
Project Number: 62742
Project Name: Huntingwood - Augusta Street, Blacktown

										Non-Metallic Inorganics						Major Anions			Asbestos		Asbesots ID
	Pirimiphos-methyl	Pyrazophos	Ronnel	Terbufos	Tetrachlorvinphos	Tokuthion	Trichloronate	Parathion	Nitrate & Nitrite (as N)	Ammonia as N	Nitrate (as N)	Nitrite (as N)	Nitrogen (Total)	Kjeldahl Nitrogen Total	Phosphorus	Chloride	Sulphate	Asbestos from ACM in Soil	Asbestos FA & AF in Soil	Asbestos Reported Result
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	% (w/w)	% (w/w)	Comment
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil																				
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 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay 4+m																				
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand 0-<1m																				
NEPM 2013 Table 1B(1-5) EIL - Comm/Ind Site Specific (WSP, 2020b)																				
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil																				
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Course Soil																				
CRC Care B(a)P Guidance																				
Kansas Department of Health and Environment (2002)											40									
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Fine Soil																				
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Course Soil																				
NEPM 2013 Table 7 Comm/Ind D Soil HSL for Asbestos in Soil																		0.05	0.001	

Field ID	Sample Depth	Sample Date	Soil Description	Report Reference																		
TP12	2.0-2.1	29/10/2021	Fill - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.001	-
TP12	3.0-3.1	29/10/2021	Fill - Clay	DP 2021	-	-	<0.1	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	<0.001	-
TP12	4.0-4.1	29/10/2021	Natural - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP13	0.1-0.2	28/10/2021	Fill - Clay	DP 2021	-	-	<0.1	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	<0.001	-
TP13	1.0-1.1	28/10/2021	Natural - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD1/281021 (triplicate pair TP13)	1.0-1.1	28/10/2021	Natural - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP14	0.1-0.2	28/10/2021	Fill - Sandy gravel	DP 2021	-	-	<0.1	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	<0.001	-
TP15	0.1-0.2	28/10/2021	Fill - Sandy gravel	DP 2021	-	-	<0.1	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	<0.001	-
TP15	0.5-0.6	28/10/2021	Fill - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.001	-
TP15	1.0-1.1	28/10/2021	Fill - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.001	-
TP15	2.0-2.1	28/10/2021	Natural - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD2/281021 (triplicate pair TP15)	2.0-2.1	28/10/2021	Natural - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP16	0.1-0.2	28/10/2021	Fill - Sandy gravel	DP 2021	-	-	<0.1	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	<0.001	-
TP16	0.5-0.6	28/10/2021	Fill - Gravelly clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.001	-
TP16	1.0-1.1	28/10/2021	Fill - Gravelly clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.001	-
TP16	2.0-2.1	28/10/2021	Fill - Gravelly clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.001	-
BH16A	2.4-2.5	29/10/2021	Fill - Gravelly clay	DP 2021	-	-	<0.1	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	<0.001	-
BH16A	3.1-3.2	29/10/2021	Natural - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP17*	0.1-0.2	28/10/2021	Fill - Sandy gravel	DP 2021	-	-	<0.1	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	<0.001	Chrysotile asbestos
TP17	0.5-0.6	28/10/2021	Fill - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.001	-
TP17	1.0-1.1	28/10/2021	Fill - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.001	-
TP17	2.0-2.1	28/10/2021	Fill - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.001	-
TP18	0.1-0.2	29/10/2021	Top soil - Silty clay	DP 2021	-	-	<0.1	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	<0.001	-
TP19	0.1-0.2	29/10/2021	Top soil - Silty clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.001	-
TP19	0.5-0.6	29/10/2021	Natural - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD6/291021 (duplicate pair TP19)	0.5-0.6	29/10/2021	Natural - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP20	0.1-0.15	29/10/2021	Top soil - Silty clay	DP 2021	-	-	<0.1	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	0.0053	Chrysotile asbestos
BH21	0.2-0.3	28/10/2021	Fill - Gravelly clay	DP 2021	-	-	<0.1	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	<0.001	-
BH22	0.1-0.2	28/10/2021	Fill - Gravelly sand	DP 2021	-	-	<0.1	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	<0.001	-
BH23	0.1-0.2	28/10/2021	Fill - Sand	DP 2021	-	-	<0.1	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	<0.001	-
BH23	0.5-0.6	28/10/2021	Natural - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH24	0.1-0.2	29/10/2021	Fill - Clay	DP 2021	-	-	<0.1	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	<0.001	-
BD1JH/20211029 (triplicate pair BH24)	0.1-0.2	29/10/2021	Fill - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH24	0.9-1.0	29/10/2021	Fill - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.001	Chrysotile asbestos
BH24	1.0-1.2	29/10/2021	Natural - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH25	0.1-0.2	29/10/2021	Fill - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.001	-
BH25	0.4-0.5	29/10/2021	Fill - Clay	DP 2021	-	-	<0.1	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	<0.001	-
BH25	0.9-1.0	29/10/2021	Natural - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP26	0.1-0.2	28/10/2021	Fill - Gravelly sand	DP 2021	-	-	<0.1	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	<0.001	-
TP26	0.5-0.6	28/10/2021	Fill - Gravelly sand	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.001	-
TP26	1.0-1.1	28/10/2021	Natural - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP26	1.5-1.6	28/10/2021	Natural - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD4/281021 (duplicate pair BH26)	1.5-1.6	28/10/2021	Natural - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH27	0.4-0.5	29/10/2021	Fill - Clay	DP 2021	-	-	<0.1	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-
BD2JH/202111029 (duplicate pair BH27)	0.4-0.5	29/10/2021	Fill - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH27	1.4-1.5	29/10/2021	Natural - Clay	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SS1	Surface	27/10/2021	Fill - Sand	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.001	Chrysotile asbestos
SS2	Surface	27/10/2021	Fill - Sand	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.001	Chrysotile asbestos
SS3	Surface	27/10/2021	Fill - Sand	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.001	-
SS4	Surface	27/10/2021	Fill - Sand	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0018	Chrysotile asbestos
SS5*	Surface	27/10/2021	Fill - Sand	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.001	-
SS6	Surface	27/10/2021	Fill - Sand	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

* Triplicate analysis undertaken by laboratory for metals on sample. The highest concentration recorded has been summarised in this table.

Table D: Groundwater Gauging Parameters May 2022
Project Number: 62742
Project Name: Huntingwood - Western Portion

Well ID	Samples Date	Depth to Water	Depth to LNAPL	Electrical Conductivity	pH	Dissolved Oxygen	Temp	Redox	TDS	Comments
		m TOC	m TOC	µs/cm	-	%	˚C	mV	mg/L	
MWA	11/05/2022	4.566	-	26188	6.81	0.69	20.3	-20.2	18716	No odour, no sheen, very low turbidity, colourless. Hydrosleeve set at 5m.
MWB	11/05/2022	2.970	-	17618	6.49	0.49	20.9	-46.6	12420	No odour, no sheen, very low turbidity, colourless. Hydrosleeve set at 5m.
MWC	12/05/2022	2.581	-	18359	6.39	0.28	21.2	-132.9	12844	Very slight odour, no sheen, very low turbidity, colourless. Hydrosleeve set at 5m.
MWD	11/05/2022	2.230	-	21332	6.64	0.30	19.6	-20.4	15466	No odour, no sheen, low turbidity, brown colour. Hydrosleeve set at 5m.
MWE	11/05/2022	0.666		19889	6.38	0.26	20.8	-17.4	14066	No odour, no sheen, low turbidity, brown colour. Hydrosleeve set at 5m.
MW1	11/05/2022	2.073	-	16141	6.81	4.12	19.0	18.6	11855	No odour, no sheen, very low turbidity, colourless. Hydrosleeve set at 5m.
MW2	11/05/2022	4.914	-	12249	6.08	2.22	20.2	22.8	9016	No odour, no sheen, low turbidity, colourless. Hydrosleeve set at 10m.
MW3	11/05/2022	4.921	-	20085	6.67	4.40	20.8	18.5	14207	No odour, no sheen, low turbidity, brown colour. Hydrosleeve set at 8m.
MW4	11/05/2022	3.921	-	16557	6.72	3.80	20.4	1.4	11793	No odour, no sheen, moderate turbidity, brown colour. Hydrosleeve set at 6m.

Notes:
[1] mAHD levels based on survey data from top of pipe. Datum - MGA Zone 55 AHD

Table E: Groundwater Analytical Results Western Portion
Project Number: 62742
Project Name: Huntingwood

			Metals & Metalloids								TPHs (NEPC 1999)					TRHs (NEPC 2013)							BTEXN						PAH												
			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	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
			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	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	0.001	0.001	0.001	0.001	0.001	0.0005	0.001	0.0002	0.001	0.001	0.001
ADWG (2011) Health x 10 (Recreational) - Updated March-2021			0.1	0.02	0.5	20	0.1	0.01	0.2														0.01	8	3	6	6	6					0.0001						
ANZG (2018) Freshwater 95% toxicant DGVs			0.013	0.0002	0.001	0.0014	0.0034	0.0006	0.011	0.008													0.95	0.18	0.08	0.35	0.075				0.0004		0.0002						
NEPM 2013 Table 1A(4) Comm/Ind HSL D GW for Vapour Intrusion, Clay 2-4m																					NL	NL	30	NL	NL			NL												
NEPM 2013 Table 1A(4) Comm/Ind HSL D GW for Vapour Intrusion, Clay 4-8m																					NL	NL	30	NL	NL			NL												
NEPM 2013 Table 1A(4) Comm/Ind HSL D GW for Vapour Intrusion, Clay >8m																					NL	NL	35	NL	NL			NL												
NEPM 2013 Table 1A(4) Comm/Ind HSL D GW for Vapour Intrusion, Sand 2-4m																					6	NL	5	NL	NL			NL												
NEPM 2013 Table 1A(4) Comm/Ind HSL D GW for Vapour Intrusion, Sand 4-8m																					6	NL	5	NL	NL			NL												
NEPM 2013 Table 1A(4) Comm/Ind HSL D GW for Vapour Intrusion, Sand >8m																					7	NL	5	NL	NL			NL												
NEPM 2013 Table 1C GILs, Drinking Water			0.01	0.002	0.05	2	0.01	0.001	0.02														0.001	0.8	0.3			0.6					0.00001						
Recreational: NEMP (2020)																																							
Drinking water: NEMP (2020)																																							
Freshwater Ecosystems: NEMP (2020) Interim freshwater 95 %																																							
Field_ID	**Date**	**Lab Report**																																					
MW01	12/05/2022	890110	0.002	<0.0002	<0.001	<0.001	<0.001	<0.0001	0.002	<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	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	-	<0.001	<0.001	<0.001
MW02	12/05/2022	890110	0.009	<0.0002	0.014	0.019	0.011	<0.0001	0.012	0.05	<0.02	0.08	0.2	<0.1	0.28	<0.02	0.1	0.2	<0.1	0.3	<0.02	0.1	<0.001	<0.001	<0.001	<0.001	<0.002	<0.003	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	-	<0.001	<0.001	<0.001
MW03	12/05/2022	890110	0.006	<0.0002	0.002	0.001	<0.001	<0.0001	0.006	0.008	<0.02	0.14	<0.1	<0.1	0.14	<0.02	0.13	<0.1	<0.1	0.13	<0.02	0.13	<0.001	<0.001	<0.001	<0.001	<0.002	<0.003	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	-	<0.001	<0.001	<0.001
MW04	12/05/2022	890110	0.003	<0.0002	0.003	0.005	0.001	<0.0001	0.004	0.009	<0.02	0.22	<0.1	<0.1	0.22	<0.02	0.23	<0.1	<0.1	0.23	<0.02	0.23	<0.001	<0.001	<0.001	<0.001	<0.002	<0.003	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	-	<0.001	<0.001	<0.001
QC-GW02 (duplicate pair MW04)	12/05/2022	890110	0.002	<0.0002	<0.001	0.001	<0.001	<0.0001	0.002	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	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	-	<0.001	<0.001	<0.001
QA-GW02 (triplicate pair MW04)	12/05/2022	295527	0.002	<0.0001	<0.001	<0.001	<0.001	<0.00005	0.002	0.005	<0.01	<0.05	<0.1	<0.1	<0.05	<0.01	<0.05	<0.1	<0.1	<0.05	-	-	<0.001	<0.001	<0.001	<0.001	<0.002	-	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0005	-	<0.0002	<0.0001	-	<0.0001
MWA	12/05/2022	890110	<0.001	0.0005	<0.001	0.003	<0.001	<0.0001	0.012	0.033	<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	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	-	<0.001	<0.001	<0.001
MWB	12/05/2022	890110	<0.001	0.0004	0.001	0.002	0.002	<0.0001	0.013	0.021	<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	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	-	<0.001	<0.001	<0.001
MWC	12/05/2022	890110	0.002	<0.0002	0.001	0.002	0.002	<0.0001	0.017	0.009	0.03	<0.05	<0.1	<0.1	<0.1	0.04	<0.05	<0.1	<0.1	<0.1	0.04	<0.05	<0.001	<0.001	<0.001	<0.001	<0.002	<0.003	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	-	<0.001	<0.001	<0.001
MWD	12/05/2022	890110	<0.001	<0.0002	<0.001	0.001	<0.001	<0.0001	0.002	<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	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	-	<0.001	<0.001	<0.001
MWE	12/05/2022	890110	<0.001	<0.0002	0.001	0.005	0.002	<0.0001	0.005	0.01	<0.02	<0.05	0.2	<0.1	0.2	<0.02	0.18	<0.1	<0.1	0.18	<0.02	0.18	<0.001	<0.001	<0.001	<0.001	<0.002	<0.003	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	-	<0.001	<0.001	<0.001
Statistical Summary																																							
Number of Results			11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	10	10	11	11	11	11	11	10	11	11	11	11	11	1	10	1	11	10	11
Number of Detects			7	2	6	9	5	0	11	9	1	4	2	0	4	1	4	1	0	4	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration			<0.001	<0.0001	<0.001	<0.001	<0.001	<0.00005	0.002	<0.005	<0.01	<0.05	<0.1	<0.1	<0.05	<0.01	<0.05	<0.1	<0.1	<0.05	<0.02	<0.05	<0.001	<0.001	<0.001	<0.001	<0.002	<0.003	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0005	<0.001	<0.0002	<0.0001	<0.001	<0.0001
Minimum Detect			0.002	0.0004	0.001	0.001	0.001	ND	0.002	0.005	0.03	0.05	0.2	ND	0.14	0.04	0.1	0.2	ND	0.13	0.04	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration			0.009	0.0005	0.014	0.019	0.011	<0.0001	0.017	0.05	0.03	0.22	0.2	<0.1	0.28	0.04	0.23	0.2	<0.1	0.3	0.04	0.23	<0.001	<0.001	<0.001	<0.001	<0.002	<0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.0002	<0.001	<0.001	<0.001
Maximum Detect			0.009	0.0005	0.014	0.019	0.011	ND	0.017	0.05	0.03	0.22	0.2	ND	0.28	0.04	0.23	0.2	ND	0.3	0.04	0.23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration			0.0025	0.00016	0.0022	0.0036	0.0019	0.000048	0.007	0.014	0.011	0.06	0.077	0.05	0.11	0.012	0.074	0.064	0.05	0.11	0.013	0.079	0.0005	0.0005	0.0005	0.0005	0.001	0.0015	0.00046	0.00046	0.00046	0.00046	0.00046		0.0005		0.00046	0.0005	0.00046
Median Concentration			0.002	0.0001	0.001	0.002	0.0005	0.00005	0.005	0.009	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	0.0015	0.0005	0.0005	0.0005	0.0005	0.0005	0.00025	0.0005	0.0001	0.0005	0.0005	0.0005
Standard Deviation			0.0027	0.00015	0.004	0.0053	0.0031	0.0000075	0.0055	0.015	0.0064	0.064	0.061	0	0.089	0.0093	0.075	0.045	0	0.092	0.01	0.077	0	0	0	0	0	0	0.00014	0.00014	0.00014	0.00014	0.00014		0		0.00014	0	0.00014
Number of Guideline Exceedances			0	0	0	4	1	0	1	2	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)			0	0	0	4	1	0	1	2	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table E: Groundwater Analytical Results Western Portion
Project Number: 62742
Project Name: Huntingwood

									Chlorinated Alkanes																		Chlorinated Alkenes								
	Dibenz[a,h]anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	PAHs (Sum of total)	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	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
	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	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.005	0.005	0.005	0.005	0.005	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
ADWG (2011) Health x 10 (Recreational) - Updated March-2021																0.03					0.03				0.04		0.3							0.5	
ANZG (2018) Freshwater 95% toxicant DGVs		0.0014			0.016	0.002				0.27	0.4	6.5				1.9	0.9	1.1			0.24				4		0.7							0.07	
NEPM 2013 Table 1A(4) Comm/Ind HSL D GW for Vapour Intrusion, Clay 2-4m					NL																													
NEPM 2013 Table 1A(4) Comm/Ind HSL D GW for Vapour Intrusion, Clay 4-8m					NL																													
NEPM 2013 Table 1A(4) Comm/Ind HSL D GW for Vapour Intrusion, Clay >8m					NL																													
NEPM 2013 Table 1A(4) Comm/Ind HSL D GW for Vapour Intrusion, Sand 2-4m					NL																													
NEPM 2013 Table 1A(4) Comm/Ind HSL D GW for Vapour Intrusion, Sand 4-8m					NL																													
NEPM 2013 Table 1A(4) Comm/Ind HSL D GW for Vapour Intrusion, Sand >8m					NL																													
NEPM 2013 Table 1C GILs, Drinking Water																0.003					0.003				0.004		0.03							0.05	
Recreational: NEMP (2020)																																			
Drinking water: NEMP (2020)																																			
Freshwater Ecosystems: NEMP (2020) Interim freshwater 95 %																																			

Field_ID	Date	Lab Report																																		
MW01	12/05/2022	890110	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW02	12/05/2022	890110	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW03	12/05/2022	890110	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW04	12/05/2022	890110	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
QC-GW02 (duplicate pair MW04)	12/05/2022	890110	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
QA-GW02 (triplicate pair MW04)	12/05/2022	295527	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.006	<0.001	<0.01	<0.01	<0.01	-	<0.01	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	<0.001	<0.001
MWA	12/05/2022	890110	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MWB	12/05/2022	890110	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MWC	12/05/2022	890110	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MWD	12/05/2022	890110	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MWE	12/05/2022	890110	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

Statistical Summary

Number of Results	11	11	11	11	11	11	11	11	11	11	11	11	11	11	1	11	11	11	1	11	11	11	11	11	10	11	11	1	1	10	11	11	11	11	11
Number of Detects	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Minimum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration	<0.001	<0.001	<0.001	<0.001	<0.0002	<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	0.006	<0.001	<0.01	<0.01	<0.01	<0.005	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Maximum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration	0.00046	0.00046	0.00046	0.00046	0.00046	0.00046	0.00046	0.00046	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005		0.0005	0.0005	0.0005		0.001	0.0005	0.0027	0.0027	0.0027	0.0025	0.0027	0.0005			0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
Median Concentration	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	0.0005	0.0005	0.0005	0.0005	0.0025	0.0025	0.0025	0.0025	0.0025	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
Standard Deviation	0.00014	0.00014	0.00014	0.00014	0.00012	0.00014	0.00014	0.00014	0	0	0	0	0	0		0	0	0		0.0017	0	0.00075	0.00075	0.00075	0	0.00075	0			0	0	0	0	0	0
Number of Guideline Exceedances	0	0	0	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	10	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	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table E: Groundwater Analytical Results Western Portion
Project Number: 62742
Project Name: Huntingwood

				Solvents	PFAS																																		
	trans-1,3-dichloropropene	Trichloroethene	Vinyl Chloride	Acetone	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorooctanoic acid (PFOA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)	Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (NMeFOSA)	N-Ethyl perfluorooctane sulfonamide (NEtFOSA)	N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE)	N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	N-methylperfluorooctane sulfonamidoacetic acid (NMeFOSAA)	N-ethyl-perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	Perfluoropropanesulfonic acid (PFPrS)	Perfluorobutanesulfonic acid (PFBS)	Perfluoropentanesulfonic acid (PFPeS)	Perfluorohexanesulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorooctanesulfonic acid (PFOS)	Perfluorononanesulfonic acid (PFNS)	Perfluorodecanesulfonic acid (PFDS)	1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2 FTSA)	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2 FTSA)	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2 FTSA)	1H,1H,2H,2H-perfluorododecanesulfonic acid (10:2 FTSA)	Sum of PFHxS and PFOS	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	Sum of US EPA PFAS (PFOS + PFOA)*	Sum of PFAS (WA DER list)
	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL	0.001	0.001	0.005	0.005	0.05	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.01	0.01	0.01	0.01	0.05
ADWG (2011) Health x 10 (Recreational) - Updated March-2021			0.003	140					5.6																	0.7		0.7							0.7				
ANZG (2018) Freshwater 95% toxicant DGVs		0.33																																					
NEPM 2013 Table 1A(4) Comm/Ind HSL D GW for Vapour Intrusion, Clay 2-4m																																							
NEPM 2013 Table 1A(4) Comm/Ind HSL D GW for Vapour Intrusion, Clay 4-8m																																							
NEPM 2013 Table 1A(4) Comm/Ind HSL D GW for Vapour Intrusion, Clay >8m																																							
NEPM 2013 Table 1A(4) Comm/Ind HSL D GW for Vapour Intrusion, Sand 2-4m																																							
NEPM 2013 Table 1A(4) Comm/Ind HSL D GW for Vapour Intrusion, Sand 4-8m																																							
NEPM 2013 Table 1A(4) Comm/Ind HSL D GW for Vapour Intrusion, Sand >8m																																							
NEPM 2013 Table 1C GILs, Drinking Water			0.0003																																				
Recreational: NEMP (2020)									0.01																	0.002		0.002							0.002				
Drinking water: NEMP (2020)									0.00056																	0.00007		0.00007											
Freshwater Ecosystems: NEMP (2020) Interim freshwater 95 %									220																			0.13											
Field_ID	**Date**	**Lab Report**																																						
MW01	12/05/2022	890110	<0.001	<0.001	<0.005	<0.005	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.05
MW02	12/05/2022	890110	<0.001	<0.001	<0.005	<0.005	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.05
MW03	12/05/2022	890110	<0.001	<0.001	<0.005	<0.005	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.05
MW04	12/05/2022	890110	<0.001	<0.001	<0.005	<0.005	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.05
QC-GW02 (duplicate pair MW04)	12/05/2022	890110	<0.001	<0.001	<0.005	<0.005	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.05
QA-GW02 (triplicate pair MW04)	12/05/2022	295527	<0.001	<0.001	<0.01	-	<0.02	<0.02	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.05	<0.1	<0.5	<0.1	<0.05	<0.1	<0.05	<0.5	<0.02	<0.02	-	<0.01	<0.01	<0.01	<0.01	<0.01	-	<0.02	<0.01	<0.01	<0.02	<0.02	<0.01	-	<0.01	-
MWA	12/05/2022	890110	<0.001	<0.001	<0.005	<0.005	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.05
MWB	12/05/2022	890110	<0.001	<0.001	<0.005	<0.005	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.05
MWC	12/05/2022	890110	<0.001	<0.001	<0.005	<0.005	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.05
MWD	12/05/2022	890110	<0.001	<0.001	<0.005	<0.005	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.05
MWE	12/05/2022	890110	<0.001	<0.001	<0.005	<0.005	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.05
Statistical Summary																																							
Number of Results				10	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	10	11	11	11	11	11	10	11	11	11	11	11	10	11	10
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
Minimum Concentration				<0.005	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<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
Maximum Concentration				<0.005	<0.05	<0.02	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.05	<0.1	<0.5	<0.1	<0.05	<0.1	<0.05	<0.5	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.01	<0.05	<0.02	<0.02	<0.01	<0.01	<0.01	<0.01	<0.05
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
Average Concentration				0.0025	0.024	0.0055	0.005	0.005	0.005	0.005	0.0055	0.0055	0.0068	0.0091	0.027	0.027	0.025	0.027	0.025	0.045	0.024	0.024	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.0055	0.005	0.023	0.0055	0.0055	0.005	0.005	0.005	0.005	0.025
Median Concentration				0.0025	0.025	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.025	0.005	0.005	0.005	0.005	0.005	0.005	0.025
Standard Deviation				0	0.0045	0.0015	0	0	0	0	0.0015	0.0015	0.006	0.014	0.074	0.0075	0	0.0075	0	0.068	0.0045	0.0045	0	0	0	0	0	0	0	0.0015	0	0.006	0.0015	0.0015	0	0	0	0	0
Number of Guideline Exceedances				0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0	11	0	0	0	0	0	11	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

Table E: Groundwater Analytical Results Western Portion
Project Number: 62742
Project Name: Huntingwood

		MAH											Miscellaneous Hydrocarbons							Chlorinated Benzenes							Trihalomethanes					
	Sum of PFAS	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	Dibromochloromethane	Chloroform	Tribromomethane	Bromodichloromethane	Carbon disulfide	Hexachlorobutadiene
	µg/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	mg/L	mg/L	mg/L	mg/L
EQL	0.1	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.003	0.001	0.001	0.001	0.005	0.001	0.001	0.001	0.005	0.005	0.001	0.001	0.001	0.001	0.001	0.001	0.0002	0.001	0.005	0.001	0.001	0.001	0.001
ADWG (2011) Health x 10 (Recreational) - Updated March-2021								0.3					0.01	0.01								15		0.4	3							0.007
ANZG (2018) Freshwater 95% toxicant DGVs												0.03								0.01	0.17	0.16	0.26	0.06	0.055	0.0001		0.77				
NEPM 2013 Table 1A(4) Comm/Ind HSL D GW for Vapour Intrusion, Clay 2-4m																																
NEPM 2013 Table 1A(4) Comm/Ind HSL D GW for Vapour Intrusion, Clay 4-8m																																
NEPM 2013 Table 1A(4) Comm/Ind HSL D GW for Vapour Intrusion, Clay >8m																																
NEPM 2013 Table 1A(4) Comm/Ind HSL D GW for Vapour Intrusion, Sand 2-4m																																
NEPM 2013 Table 1A(4) Comm/Ind HSL D GW for Vapour Intrusion, Sand 4-8m																																
NEPM 2013 Table 1A(4) Comm/Ind HSL D GW for Vapour Intrusion, Sand >8m																																
NEPM 2013 Table 1C GILs, Drinking Water								0.03						0.001						0.03	0.03	1.5		0.04	0.3							0.0007
Recreational: NEMP (2020)																																
Drinking water: NEMP (2020)																																
Freshwater Ecosystems: NEMP (2020) Interim freshwater 95 %																																
Field_ID **Date** **Lab Report**																																
MW01 12/05/2022 890110	<0.1	<0.001	<0.001	-	-	-	-	<0.001	-	<0.003	<0.001	<0.001	<0.001	<0.005	-	<0.001	<0.001	<0.005	<0.005	-	-	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.005	<0.001	<0.001	<0.001	-
MW02 12/05/2022 890110	<0.1	<0.001	<0.001	-	-	-	-	<0.001	-	<0.003	<0.001	<0.001	<0.001	<0.005	-	<0.001	<0.001	<0.005	<0.005	-	-	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.005	<0.001	<0.001	<0.001	-
MW03 12/05/2022 890110	<0.1	<0.001	<0.001	-	-	-	-	<0.001	-	<0.003	<0.001	<0.001	<0.001	<0.005	-	<0.001	<0.001	<0.005	<0.005	-	-	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.005	<0.001	<0.001	<0.001	-
MW04 12/05/2022 890110	<0.1	<0.001	<0.001	-	-	-	-	<0.001	-	<0.003	<0.001	<0.001	<0.001	<0.005	-	<0.001	<0.001	<0.005	<0.005	-	-	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.005	<0.001	<0.001	<0.001	-
QC-GW02 (duplicate pair MW04) 12/05/2022 890110	<0.1	<0.001	<0.001	-	-	-	-	<0.001	-	<0.003	<0.001	<0.001	<0.001	<0.005	-	<0.001	<0.001	<0.005	<0.005	-	-	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.005	<0.001	<0.001	<0.001	-
QA-GW02 (triplicate pair MW04) 12/05/2022 295527	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	<0.01	<0.001	<0.001	-	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	<0.001	-	<0.001
MWA 12/05/2022 890110	<0.1	<0.001	<0.001	-	-	-	-	<0.001	-	<0.003	<0.001	<0.001	<0.001	<0.005	-	<0.001	<0.001	<0.005	<0.005	-	-	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.005	<0.001	<0.001	<0.001	-
MWB 12/05/2022 890110	<0.1	<0.001	<0.001	-	-	-	-	<0.001	-	<0.003	<0.001	<0.001	<0.001	<0.005	-	<0.001	<0.001	<0.005	<0.005	-	-	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.005	<0.001	<0.001	<0.001	-
MWC 12/05/2022 890110	<0.1	<0.001	<0.001	-	-	-	-	<0.001	-	<0.003	<0.001	<0.001	<0.001	<0.005	-	<0.001	<0.001	<0.005	<0.005	-	-	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.005	<0.001	<0.001	<0.001	-
MWD 12/05/2022 890110	<0.1	<0.001	<0.001	-	-	-	-	<0.001	-	<0.003	<0.001	<0.001	<0.001	<0.005	-	<0.001	<0.001	<0.005	<0.005	-	-	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.005	<0.001	<0.001	<0.001	-
MWE 12/05/2022 890110	<0.1	<0.001	<0.001	-	-	-	-	<0.001	-	<0.003	<0.001	<0.001	<0.001	<0.005	-	<0.001	<0.001	<0.005	<0.005	-	-	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.005	<0.001	<0.001	<0.001	-
Statistical Summary																																
Number of Results	11	11	11	1	1	1	1	11	1	10	11	11	11	11	1	11	10	10	10	1	1	11	11	11	11	0	11	11	11	11	10	1
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
Minimum Concentration	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	99999	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
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
Maximum Concentration	<0.1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	<0.001	<0.001	<0.01	<0.001	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001
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
Average Concentration	0.046	0.0005	0.0005					0.0005		0.0015	0.0005	0.0005	0.0005	0.0027		0.0005	0.0005	0.0025	0.0025			0.0005	0.0005	0.0005	0.0005		0.0005	0.0023	0.0005	0.0005	0.0005	
Median Concentration	0.05	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0015	0.0005	0.0005	0.0005	0.0025	0.0005	0.0005	0.0005	0.0025	0.0025	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005		0.0005	0.0025	0.0005	0.0005	0.0005	0.0005
Standard Deviation	0.014	0	0					0		0	0	0	0	0.00075		0	0	0	0			0	0	0	0		0	0.0006	0	0	0	
Number of Guideline Exceedances	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
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

Table F: Historical Groundwater Analytical Results
Project Number: 62742
Project Name: Augusta Street, Blacktown

			Metals & Metalloids								TRHs (NEPC 2013)				BTEXN					PAH												
			Arsenic (Filtered)	Cadmium (Filtered)	Chromium (III+VI) (Filtered)	Copper (Filtered)	Lead (Filtered)	Mercury (Filtered)	Nickel (Filtered)	Zinc (Filtered)	C16-C34	C34-C40	F1 (C6-C10 minus BTEX)	F2 (C10-C16 less Naphthalene)	Benzene	Toluene	Ethylbenzene	Xylene Total	Naphthalene	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	Phenanthrene
			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	mg/L	mg/L	mg/L
ADWG (2011) Health x 10 (Recreational)			0.1	0.02	0.5	20	0.1	0.01	0.2						0.01	8	3	6						0.0001									
ANZG (2018) Freshwater 95% toxicant DGVs			0.013	0.0002	0.001	0.0014	0.0034	0.0006	0.011	0.008					0.95	0.18	0.08		0.016			0.0004		0.0002						0.0014			0.002
NEPM 2013 Table 1A(4) Comm/Ind HSL D GW for Vapour Intrusion, Clay 2-4m													NL	NL	30	NL	NL	NL	NL														
NEPM 2013 Table 1A(4) Comm/Ind HSL D GW for Vapour Intrusion, Clay 4-8m													NL	NL	30	NL	NL	NL	NL														
NEPM 2013 Table 1A(4) Comm/Ind HSL D GW for Vapour Intrusion, Clay >8m													NL	NL	35	NL	NL	NL	NL														
NEPM 2013 Table 1C GILs, Drinking Water			0.01	0.002	0.05	2	0.01	0.001	0.02						0.001	0.8	0.3	0.6						0.00001									
Recreational: NEMP (2020)																																	
Drinking water: NEMP (2020)																																	
Freshwater Ecosystems: NEMP (2020) Interim freshwater 95 %																																	
WSP 2020																																	
MW1	5/08/2020	WSP 2020	0.004	0.0004	<0.001	0.002	<0.001	<0.0001	0.03	0.03	<0.1	<0.1	<0.02	<0.05	<0.001	<0.001	<0.001	<0.003	<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
QA01 (duplicate of MW1)	5/08/2020	WSP 2020	0.004	0.0009	<0.001	0.003	<0.001	<0.0001	0.033	0.023	<0.1	<0.1	<0.02	<0.05	<0.001	<0.001	<0.001	<0.003	<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
Douglas Partners 2021																																	
MWB	29/10/2021	DP 2021	0.001	0.0004	<0.001	0.002	<0.001	<0.00005	0.006	0.003	<0.1	<0.1	<0.01	<0.05	<0.001	<0.001	<0.001	<0.002	<0.0002	<0.0001	-	<0.0001	-	<0.0001	-	-	-	-	-	<0.0001	-	-	<0.0001
MWC	29/10/2021	DP 2021	0.001	0.0007	<0.001	<0.001	<0.001	<0.00005	0.007	0.003	<0.1	<0.1	0.023	<0.05	<0.001	<0.001	<0.001	<0.002	<0.0002	<0.0001	-	<0.0001	-	<0.0001	-	-	-	-	-	<0.0001	-	-	<0.0001
MWD	29/10/2021	DP 2021	<0.001	0.0001	<0.001	<0.001	<0.001	<0.00005	0.003	<0.001	<0.1	<0.1	<0.01	<0.05	<0.001	<0.001	<0.001	<0.002	<0.0002	<0.0001	-	<0.0001	-	<0.0001	-	-	-	-	-	<0.0001	-	-	<0.0001
BD1/20211029	29/10/2021	DP 2021	<0.001	0.0001	<0.001	<0.001	<0.001	<0.00005	0.002	<0.001	<0.1	<0.1	<0.01	<0.05	<0.001	<0.001	<0.001	<0.002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MWE	29/10/2021	DP 2021	<0.001	0.0008	<0.001	<0.001	<0.001	<0.00005	0.003	<0.001	<0.1	<0.1	<0.01	<0.05	<0.001	<0.001	<0.001	<0.002	<0.0002	<0.0001	-	<0.0001	-	<0.0001	-	-	-	-	-	<0.0001	-	-	<0.0001

Table F: Historical Groundwater Analytical Results
Project Number: 62742
Project Name: Augusta Street, Blacktown

			Organophosphorus Pesticides																																							
			Azinophos methyl	Bolstar (Sulprofos)	Chlorfenvinphos	Chlorpyrifos	Chlorpyrifos-methyl	Coumaphos	Demeton-O	Demeton-S	Diazinon	Dichlorvos	Dimethoate	Disulfoton	EPN	Ethion	Ethoprop	Fenitrothion	Fensulfothion	Fenthion	Malathion	Merphos	Methyl parathion	Mevinphos (Phosdrin)	Monocrotophos	Naled (Dibrom)	Omethoate	Phorate	Pirimiphos-methyl	Pyrazophos	Ronnel	Terbufos	Tetrachlorvinphos	Tokuthion	Trichloronate	Parathion	Total OCP
			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	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
ADWG (2011) Health x 10 (Recreational)			0.3	0.1	0.02	0.1					0.04	0.05	0.07	0.04		0.04	0.01	0.07	0.1	0.07	0.7		0.007	0.05	0.02		0.01		0.9	0.2		0.009	1			0.2	
ANZG (2018) Freshwater 95% toxicant DGVs			0.00002			0.00001					0.00001		0.00015					0.0002			0.00005															0.000004	
NEPM 2013 Table 1A(4) Comm/Ind HSL D GW for Vapour Intrusion, Clay 2-4m																																									
NEPM 2013 Table 1A(4) Comm/Ind HSL D GW for Vapour Intrusion, Clay 4-8m																																								
NEPM 2013 Table 1A(4) Comm/Ind HSL D GW for Vapour Intrusion, Clay >8m																																								
NEPM 2013 Table 1C GILs, Drinking Water			0.03	0.01	0.002	0.01					0.004	0.005	0.007	0.004		0.004	0.001	0.007		0.007	0.07		0.0007	0.006			0.001		0.09	0.02		0.0009				0.02	
Recreational: NEMP (2020)																																									
Drinking water: NEMP (2020)																																									
Freshwater Ecosystems: NEMP (2020) Interim freshwater 95 %																																									
Filed ID	**Sample Date**	**Report Reference**																																								
WSP 2020																																									
MW1	5/08/2020	WSP 2020	<0.002	<0.002	<0.002	<0.02	<0.002	<0.02	<0.002	<0.02	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.02	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	-
QA01 (duplicate of MW1)	5/08/2020	WSP 2020	<0.002	<0.002	<0.002	<0.02	<0.002	<0.02	<0.002	<0.02	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.02	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	-
Douglas Partners 2021																																									
MWB	29/10/2021	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MWC	29/10/2021	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<LOR
MWD	29/10/2021	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<LOR
BD1/20211029	29/10/2021	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MWE	29/10/2021	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table F: Historical Groundwater Analytical Results
Project Number: 62742
Project Name: Augusta Street, Blacktown

	Organochlorine Pesticides																					PFAS			Non-Metallic Inorganics											Other
	a-BHC	b-BHC	d-BHC	g-BHC (Lindane)	Aldrin + Dieldrin	Chlordane	DDT+DDE+DDD	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	Endrin ketone	Heptachlor	Heptachlor Epoxide	Methoxychlor	Toxaphene	Total OPP	Hexachlorobenzene	Total PCB	Total VOC	PFOS	PFOA	Total Phenols	Nitrate & Nitrite (as N)	Ammonia as N	Calcium	Magmesium	Hardness	Nitrate (as N)	Nitrite (as N)	Nitrogen (Total)	Kjeldahl Nitrogen Total	Phosphate total (P)	Low Molecular Weight PAHss
	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			µg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mgCaCO3/L	MG/L	mg/L	mg/L	mg/L	mg/L	mg/L
ADWG (2011) Health x 10 (Recreational)				0.1	0.003	0.02								0.003		3														112.9	9.1				
ANZG (2018) Freshwater 95% toxicant DGVs				0.0002		0.00008					0.00002			0.00009			0.0002		0.0001							0.9									
NEPM 2013 Table 1A(4) Comm/Ind HSL D GW for Vapour Intrusion, Clay 2-4m																																				
NEPM 2013 Table 1A(4) Comm/Ind HSL D GW for Vapour Intrusion, Clay 4-8m																																				
NEPM 2013 Table 1A(4) Comm/Ind HSL D GW for Vapour Intrusion, Clay >8m																																				
NEPM 2013 Table 1C GILs, Drinking Water				0.01	0.0003	0.002									0.0003															11.29	0.91				
Recreational: NEMP (2020)																						0.002	0.01													
Drinking water: NEMP (2020)																						0.00007	0.00056													
Freshwater Ecosystems: NEMP (2020) Interim freshwater 95 %																						0.13	220													
Filed ID	**Sample Date**	**Report Reference**																																		
WSP 2020																																				
MW1	5/08/2020	WSP 2020	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.01	-	<0.0001	-	-	-	-	-	0.1	1.5	-	-	-	0.08	0.02	2.1	2	0.39	<0.001
QA01 (duplicate of MW1)	5/08/2020	WSP 2020	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.01	-	<0.0001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.001
Douglas Partners 2021																																				
MWB	29/10/2021	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	90	720	3200	-	-	-	-	-	-
MWC	29/10/2021	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<LOR	-	<LOR	<LOR	<0.001	<0.001	<0.05	-	-	140	690	4300	-	-	-	-	-	-
MWD	29/10/2021	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<LOR	-	<LOR	<LOR	<0.001	<0.001	<0.05	-	-	170	1000	4600	-	-	-	-	-	-
BD1/20211029	29/10/2021	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MWE	29/10/2021	DP 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	160	800	3700	-	-	-	-	-	-

TABLE G - Soil Vapour Field Measured Parameters May 2022 - Western Portion
Project Number: 62742
Project Name: Huntingwood

Well ID	Date	Oxygen	CO2	PID	Methane	LEL	H2S	CO
		%	%	ppm	%	%	ppm	ppm
SV1	4/05/2022	18.6	0.76	1.3	0.023	0.0	0.0	0.0
SV2	4/05/2022	15.3	2.16	0.8	0.023	0.0	0.0	0.0
SV3	4/05/2022	15.3	2.41	1.1	0.023	0.0	0.0	0.0
SV4	4/05/2022	12.6	5.00	0.7	0.031	0.0	0.0	0.0
SV5	4/05/2022	19.4	0.29	1.3	0.056	0.0	0.0	0.0
SV6	4/05/2022	15.9	1.15	0.8	0.016	0.0	0.0	0.0
SV7	4/05/2022	14.6	1.15	1.4	0.000	0.0	0.0	0.0

Table H: Soil Vapour Analytical Results Western Portion
Project Number: 62742
Project Name: Huntingwood

				TRHs (NEPC 2013)				BTEXN					Chlorinated Alkanes																	
				C6-C10	C10-C16	F1 (C6-C10 minus BTEX)	F2 (C10-C16 less Naphthalene)	Benzene	Toluene	Ethylbenzene	Xylene Total	Naphthalene	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	Trichlorofluoromethane	1,1-dichloroethene	1,1-dichloropropene	2-chlorotoluene	4-chlorotoluene
				mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3
EQL				2.85714	2.85714	2.85714	2.85714	0.07143	0.07143	0.07143	0.21429	0.07143	0.07143	0.07143	0.07143	0.07143	0.07143	0.07143	0.07143	0.07143	0.07143	0.07143	0.07143	0.07143	0.07143	0.07143	0.07143	0.07143	0.07143	0.07143
NEPM 2013 Table 1A(2) Comm/Ind D Soil Vap VOCC HILs														230																
NEPM 2013 Table 1A(5) Comm/Ind D Soil Vapour HSL for Vapour Intrusion, Sand 0-1m						680	500	4	4800	1300	840	3																		
Sample ID	**Sampled Date**	**Sampled Volume**	**Lab Report**																											
SV1	9/05/2022	7L	890110	**11**	<2.86	**5.57**	<2.86	<0.0714	<0.0714	**0.914**	**4.57**	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714
QV01 (Duplicate pair of SV1)	9/05/2022	7L	890110	**8.71**	<2.86	**4.57**	<2.86	<0.0714	<0.0714	**0.657**	**3.43**	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714
SV3	9/05/2022	7L	890110	<2.86	<2.86	<2.86	<2.86	<0.0714	<0.0714	<0.0714	<0.214	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714
SV4	9/05/2022	7L	890110	<2.86	<2.86	<2.86	<2.86	<0.0714	<0.0714	<0.0714	<0.214	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714
SV5	9/05/2022	7L	890110	<2.86	<2.86	<2.86	<2.86	<0.0714	<0.0714	<0.0714	<0.214	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714
SV7	9/05/2022	7L	890110	**3.14**	<2.86	**3.14**	<2.86	<0.0714	<0.0714	<0.0714	<0.214	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714

Table H: Soil Vapour Analytical Results Western Portion
Project Number: 62742
Project Name: Huntingwood

				Chlorinated Alkenes						MAH									scellaneous Hydrocarbc		Chlorinated Benzenes						Trihalomethanes			
				cis-1,2-dichloroethene	cis-1,3-dichloropropene	Tetrachloroethene	trans-1,3-dichloropropene	Trichloroethene	Vinyl Chloride	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	n-butylbenzene	n-propylbenzene	p-isopropyltoluene	sec-butylbenzene	Styrene	tert-butylbenzene	Isopropylbenzene	1,2-dibromoethane	Dibromomethane	1,2,3-trichlorobenzene	1,2,4-trichlorobenzene	1,2-Dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	Chlorobenzene	Dibromochloromethane	Chloroform	Tribromomethane	Bromodichloromethane
				mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3
EQL				0.07143	0.07143	0.07143	0.07143	0.07143	0.07143	0.07143	0.07143	0.07143	0.07143	0.07143	0.07143	0.71429	0.07143	0.07143	0.07143	0.07143	0.07143	0.07143	0.07143	0.07143	0.07143	0.07143	0.07143	0.07143	0.07143	0.07143
NEPM 2013 Table 1A(2) Comm/Ind D Soil Vap VOCC HILs				0.3		8		0.08	0.1																					
NEPM 2013 Table 1A(5) Comm/Ind D Soil Vapour HSL for Vapour Intrusion, Sand 0-1m																														
Sample ID	**Sampled Date**	**Sampled Volume**	**Lab Report**																											
SV1	9/05/2022	7L	890110	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.71429	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714
QV01 (Duplicate pair of SV1)	9/05/2022	7L	890110	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.71429	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714
SV3	9/05/2022	7L	890110	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.71429	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714
SV4	9/05/2022	7L	890110	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.71429	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714
SV5	9/05/2022	7L	890110	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.71429	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714
SV7	9/05/2022	7L	890110	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.71429	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714

Table H: Soil Vapour Analytical Results Western Portion
Project Number: 62742
Project Name: Huntingwood

				2-Propanol	Hexachlorobutadiene
				mg/m3	mg/m3
EQL				1.42857	0.07143
NEPM 2013 Table 1A(2) Comm/Ind D Soil Vap VOCC HILs					
NEPM 2013 Table 1A(5) Comm/Ind D Soil Vapour HSL for Vapour Intrusion, Sand 0-1m					
Sample ID	**Sampled Date**	**Sampled Volume**	**Lab Report**		
SV1	9/05/2022	7L	890110	<1.43	<0.0714
QV01 (Duplicate pair of SV1)	9/05/2022	7L	890110	<1.43	<0.0714
SV3	9/05/2022	7L	890110	<1.43	<0.0714
SV4	9/05/2022	7L	890110	<1.43	<0.0714
SV5	9/05/2022	7L	890110	<1.43	<0.0714
SV7	9/05/2022	7L	890110	<1.43	<0.0714

Appendix B Photographic Log

PHOTOGRAPH 1: TYPICAL SITE SURFACE



PHOTOGRAPH 2: TYPICAL SITE SURFACE (BLACKBERRY BUSH ON THE LEFT)



PHOTOGRAPH 3: SITE ACCESS FROM AUGUSTA STREET



PHOTOGRAPH 4: BLACKTOWN CREEK



JBS&G

Job No: 61769

Client: Logos

Version: R03 Rev A	Date: 1 Sep 2021
Drawn By: EH	Checked By: SM

Not to Scale

Coord. Sys n/a

Augusta Street, Blacktown NSW

APPENDIX B

PHOTOGRAPH 5: BACKFILLED TRENCHES IN WESTERN PORTION OF SITE



PHOTOGRAPH 6: POTENTIAL ACM IN WESTERN PORTION OF SITE



PHOTOGRAPH 7: BUILDING RUBBLE IN WESTERN PORTION OF SITE



PHOTOGRAPH 8: STOCKPILE TYRES AND TWO SMALL STOCKPILES IN CENTRAL PORTION OF THE SITE



JBS&G

Job No: 61769

Client: Logos

Version: R03 Rev A | Date: 1 Sep 2021

Drawn By: EH | Checked By: SM

Not to Scale

Coord. Sys n/a

Augusta Street, Blacktown NSW

APPENDIX B

PHOTOGRAPH 9: TRENCHES AND MOUNDS IN CENTRAL PORTION OF THE SITE



PHOTOGRAPH 10: BUILT UP LAND IN THE CENTRAL NORTH PORTION OF THE SITE



PHOTOGRAPH 11: SMALL STOCKPILE IN EASTERN PORTION OF THE SITE



PHOTOGRAPH 12: POTENTIAL ACM IN EASTERN PORTION OF THE SITE



JBS&G

Job No: 61769

Client: Logos

Version: R03 Rev A	Date: 1 Sep 2021
Drawn By: EH	Checked By: SM

Not to Scale

Coord. Sys n/a

Augusta Street, Blacktown NSW

APPENDIX B

PHOTOGRAPH 13: NORTH WESTERN PORTION – LOT 1 DP 835264 – MECHANIC, SHOWING USTS



PHOTOGRAPH 14: NORTH WESTERN PORTION - LOT 1 DP 835264 – MECHANIC WAREHOUSE



PHOTOGRAPH 15: NORTH WESTERN PORTION - LOT 1 DP 835264 – DRUM STORAGE WITH STAINED SOILS



PHOTOGRAPH 16: NORTH WESTERN PORTION - LOT 1 DP 835264 – SURFACE STAINING



JBS&G

Job No: 62742	
Client: Logos	
Version: R01 Rev A	Date: 24-June-2022
Drawn By: JN	Checked By: GD
Not to Scale	
Coord. Sys n/a	
Augusta St, Blacktown NSW	

APPENDIX B: PHOTOLOG

PHOTOGRAPH 17: NORTH WESTERN PORTION - LOT 1 DP 835264 – TYRE STORAGE



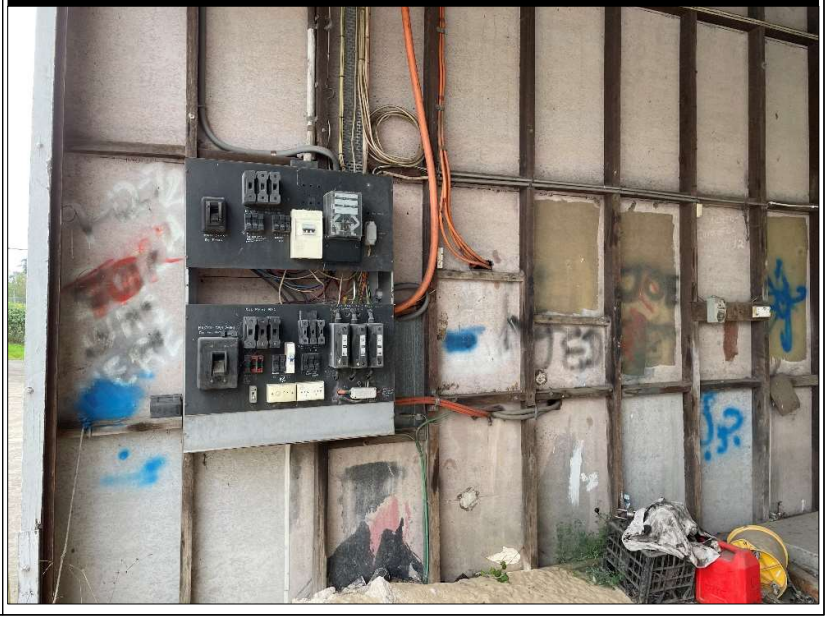
PHOTOGRAPH 18: NORTH WESTERN PORTION - LOT 1 DP 835264 – INSIDE MECHANIC WAREHOUSE



PHOTOGRAPH 19: ACM FRAGMENTS IN STORAGE YARD – LOT 183 DP 8716



PHOTOGRAPH 20 – ASBESTOS SHEETING - LOT 183 DP 8716



JBS&G

Job No: 62742

Client: Logos

Version: R01 Rev A	Date: 24-June-2022
Drawn By: JN	Checked By: GD

Not to Scale

Coord. Sys n/a

Augusta St, Blacktown NSW

APPENDIX B: PHOTOLOG

PHOTOGRAPH 21: AST - LOT 183 DP 8716



PHOTOGRAPH 22: STORAGE YARD - LOT 183 DP 8716



PHOTOGRAPH 23: TRUCK DEPOT – SOUTH WESTERN PORTION – LOT 184 TO 187 DP 8716



PHOTOGRAPH 24: STORAGE CONTAINER WITH IBCS – LOT 184 DP 8716



JBS&G

Job No: 62742	
Client: Logos	
Version: R01 Rev A	Date: 24-June-2022
Drawn By: JN	Checked By: GD
Not to Scale	
Coord. Sys n/a	
Augusta St, Blacktown NSW	

APPENDIX B: PHOTOLOG

PHOTOGRAPH 25: ABANDONED HOUSE – LOT 183 DP 8716



PHOTOGRAPH 26: ABANDONED HOUSE – LOT 188 DP 8716



PHOTOGRAPH 27: FLUSHCOMBE RD AND LOT 187 DP 8716 SITE BOUNDARY



PHOTOGRAPH 28: MOUNDED AREA IN THE EASTERN PORTION OF LOT 1 DP 835264



JBS&G

Job No: 62742	
Client: Logos	
Version: R01 Rev A	Date: 24-June-2022
Drawn By: JN	Checked By: GD
Not to Scale	
Coord. Sys n/a	
Augusta St, Blacktown NSW	
APPENDIX B: PHOTOLOG	

Appendix C Aerial Imagery 2011 – 2021

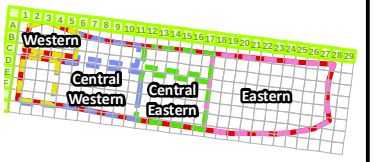


Legend

- Approximate Site Boundary

Assessment Areas

- Western Assessment Area
- Central Western Assessment Area
- Central Eastern Assessment Area
- Eastern Assessment Area



JBS&G

Job No: 62742

Client: Logos Australia

Version: Aerials	Date 21/07/2022
Drawn By: YY	Checked By: JN

Scale 1:5,500

0 50 100
metres

Coord. Sys. GDA 1994 MGA Zone 56

Huntington East
Augusta Street
Blacktown, NSW

AERIAL PHOTOGRAPH - 2022

FIGURE 2022

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Reference: www.nearmap.com - Imagery 20220519

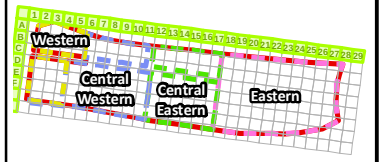


Legend

- Approximate Site Boundary

Assessment Areas

- Western Assessment Area
- Central Western Assessment Area
- Central Eastern Assessment Area
- Eastern Assessment Area



JBS&G

Job No: 62742	
Client: Logos Australia	
Version: Aerials	Date 21/07/2022
Drawn By: YY	Checked By: JN
Scale 1:2,500	

0 25 50
metres

Coord. Sys. GDA 1994 MGA Zone 56

Huntington East
Augusta Street
Blacktown, NSW

AERIAL PHOTOGRAPH - 2011
(Western Assessment Area)

FIGURE 2011

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Reference: www.nearmap.com - Imagery 20110917

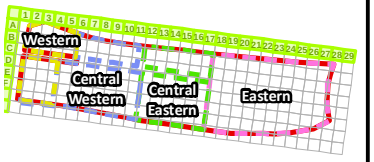


Legend

- Approximate Site Boundary

Assessment Areas

- Western Assessment Area
- Central Western Assessment Area
- Central Eastern Assessment Area
- Eastern Assessment Area



JBS&G

Job No: 62742	
Client: Logos Australia	
Version: Aerials	Date 21/07/2022
Drawn By: YY	Checked By: JN
Scale 1:2,500	

0 25 50
metres

Coord. Sys. GDA 1994 MGA Zone 56

Huntington East
Augusta Street
Blacktown, NSW

AERIAL PHOTOGRAPH - 2011
(Central Western Assessment Area)

FIGURE 2011

File Name: N:\Projects\Logos\62742 Huntingwood SEARs\GIS\Maps\Aerials\62742_2011.mxd
Reference: www.nearmap.com - Imagery 20110917



Legend

Approximate Site Boundary

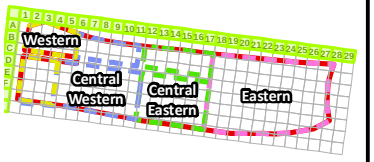
Assessment Areas

Western Assessment Area

Central Western Assessment Area

Central Eastern Assessment Area

Eastern Assessment Area



JBS&G

Job No: 62742

Client: Logos Australia

Version: Aerials	Date 21/07/2022
Drawn By: YY	Checked By: JN

Scale 1:2,500

0 25 50

metres

Coord. Sys. GDA 1994 MGA Zone 56

Huntington East
Augusta Street
Blacktown, NSW

AERIAL PHOTOGRAPH - 2011
(Central Eastern Assessment Area)

FIGURE 2011

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Reference: www.nearmap.com - Imagery 20110917

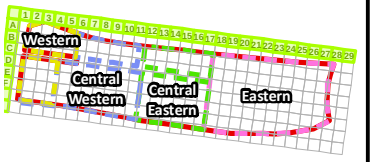


Legend

- Approximate Site Boundary

Assessment Areas

- Western Assessment Area
- Central Western Assessment Area
- Central Eastern Assessment Area
- Eastern Assessment Area



JBS&G

Job No: 62742

Client: Logos Australia

Version: Aerials	Date 21/07/2022
Drawn By: YY	Checked By: JN

Scale 1:2,500

0 25 50

metres

Coord. Sys. GDA 1994 MGA Zone 56

Huntington East
Augusta Street
Blacktown, NSW

AERIAL PHOTOGRAPH - 2011
(Eastern Assessment Area)

FIGURE 2011

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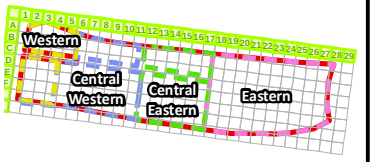


Legend

- Approximate Site Boundary

Assessment Areas

- Western Assessment Area
- Central Western Assessment Area
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- Eastern Assessment Area



JBS&G

Job No: 62742	
Client: Logos Australia	
Version: Aerials	Date 21/07/2022
Drawn By: YY	Checked By: JN

Scale 1:2,500

0 25 50
metres

Coord. Sys. GDA 1994 MGA Zone 56

Huntington East
Augusta Street
Blacktown, NSW

AERIAL PHOTOGRAPH - 2012
(Western Assessment Area)

FIGURE 2012

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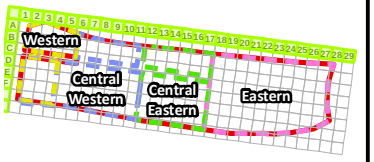


Legend

- Approximate Site Boundary

Assessment Areas

- Western Assessment Area
- Central Western Assessment Area
- Central Eastern Assessment Area
- Eastern Assessment Area



JBS&G

Job No: 62742	
Client: Logos Australia	
Version: Aerials	Date 21/07/2022
Drawn By: YY	Checked By: JN
Scale 1:2,500	

0 25 50
metres

Coord. Sys. GDA 1994 MGA Zone 56

Huntington East
Augusta Street
Blacktown, NSW

AERIAL PHOTOGRAPH - 2012
(Central Western Assessment Area)

FIGURE 2012

File Name: \\JBSG-NSW-FS01\Company Data\Projects\Logos\62742 Huntingwood SEARs\GIS\Maps\Aerials\62742_2012.mxd
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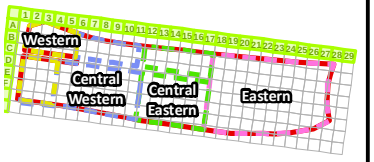


Legend

- Approximate Site Boundary

Assessment Areas

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JBS&G

Job No: 62742

Client: Logos Australia

Version: Aerials	Date 21/07/2022
Drawn By: YY	Checked By: JN

Scale 1:2,500

0 25 50

metres

Coord. Sys. GDA 1994 MGA Zone 56

Huntington East
Augusta Street
Blacktown, NSW

AERIAL PHOTOGRAPH - 2012
(Central Eastern Assessment Area)

FIGURE 2012

File Name: \\JBSG-NSW-FS01\Company Data\Projects\Logos\62742 Huntingwood SEARs\GIS\Maps\Aerials\62742_2012.mxd
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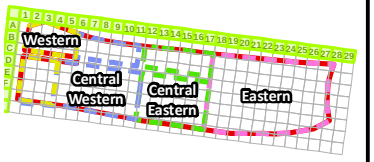


Legend

- Approximate Site Boundary

Assessment Areas

- Western Assessment Area
- Central Western Assessment Area
- Central Eastern Assessment Area
- Eastern Assessment Area



JBS&G

Job No: 62742	
Client: Logos Australia	
Version: Aerials	Date 21/07/2022
Drawn By: YY	Checked By: JN
Scale 1:2,500	

0 25 50
metres

Coord. Sys. GDA 1994 MGA Zone 56

Huntington East
Augusta Street
Blacktown, NSW

AERIAL PHOTOGRAPH - 2012
(Eastern Assessment Area)

FIGURE 2012

File Name: \\JBSG-NSW-FS01\Company Data\Projects\Logos\62742 Huntingwood SEARs\GIS\Maps\Aerials\62742_2012.mxd
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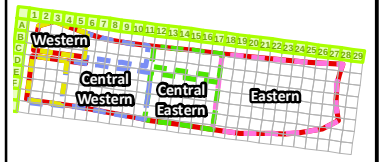


Legend

- Approximate Site Boundary

Assessment Areas

- Western Assessment Area
- Central Western Assessment Area
- Central Eastern Assessment Area
- Eastern Assessment Area



JBS&G

Job No: 62742	
Client: Logos Australia	
Version: Aerials	Date 21/07/2022
Drawn By: YY	Checked By: JN
Scale 1:2,500	

0 25 50
metres

Coord. Sys. GDA 1994 MGA Zone 56

Huntington East
Augusta Street
Blacktown, NSW

AERIAL PHOTOGRAPH - 2013
(Western Assessment Area)

FIGURE 2013

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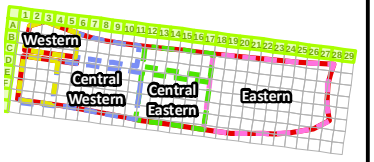


Legend

- Approximate Site Boundary

Assessment Areas

- Western Assessment Area
- Central Western Assessment Area
- Central Eastern Assessment Area
- Eastern Assessment Area



JBS&G

Job No: 62742	
Client: Logos Australia	
Version: Aerials	Date 21/07/2022
Drawn By: YY	Checked By: JN
Scale 1:2,500	

0 25 50
metres

Coord. Sys. GDA 1994 MGA Zone 56

Huntington East
Augusta Street
Blacktown, NSW

AERIAL PHOTOGRAPH - 2013
(Central Western Assessment Area)

FIGURE 2013

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Reference: www.nearmap.com - Imagery 20130919



Legend

Approximate Site Boundary

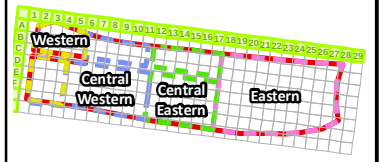
Assessment Areas

Western Assessment Area

Central Western Assessment Area

Central Eastern Assessment Area

Eastern Assessment Area



JBS&G

Job No: 62742

Client: Logos Australia

Version: Aerials	Date 21/07/2022
Drawn By: YY	Checked By: JN

Scale 1:2,500

0 25 50

metres

Coord. Sys. GDA 1994 MGA Zone 56

Huntington East
Augusta Street
Blacktown, NSW

AERIAL PHOTOGRAPH - 2013
(Central Eastern Assessment Area)

FIGURE 2013

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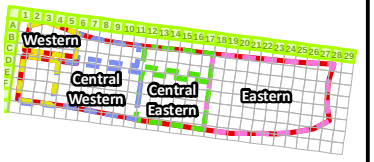


Legend

- Approximate Site Boundary

Assessment Areas

- Western Assessment Area
- Central Western Assessment Area
- Central Eastern Assessment Area
- Eastern Assessment Area



JBS&G

Job No: 62742	
Client: Logos Australia	
Version: Aerials	Date 21/07/2022
Drawn By: YY	Checked By: JN
Scale 1:2,500	

0 25 50
metres

Coord. Sys. GDA 1994 MGA Zone 56

Huntington East
Augusta Street
Blacktown, NSW

AERIAL PHOTOGRAPH - 2013
(Eastern Assessment Area)

FIGURE 2013

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Reference: www.nearmap.com - Imagery 20130919

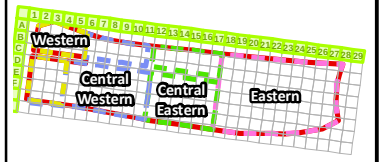


Legend

- Approximate Site Boundary

Assessment Areas

- Western Assessment Area
- Central Western Assessment Area
- Central Eastern Assessment Area
- Eastern Assessment Area



JBS&G

Job No: 62742	
Client: Logos Australia	
Version: Aerials	Date 21/07/2022
Drawn By: YY	Checked By: JN
Scale 1:2,500	

0 25 50
metres

Coord. Sys. GDA 1994 MGA Zone 56

Huntington East
Augusta Street
Blacktown, NSW

AERIAL PHOTOGRAPH - 2014
(Western Assessment Area)

FIGURE 2014

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Reference: www.nearmap.com - Imagery 20141121

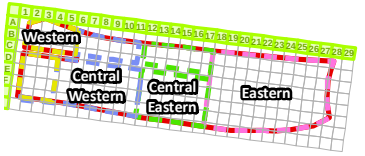


Legend

- Approximate Site Boundary

Assessment Areas

- Western Assessment Area
- Central Western Assessment Area
- Central Eastern Assessment Area
- Eastern Assessment Area



JBS&G

Job No: 62742	
Client: Logos Australia	
Version: Aerials	Date 21/07/2022
Drawn By: YY	Checked By: JN
Scale 1:2,500	

0 25 50
metres

Coord. Sys. GDA 1994 MGA Zone 56

Huntington East
Augusta Street
Blacktown, NSW

AERIAL PHOTOGRAPH - 2014
(Central Western Assessment Area)

FIGURE 2014

File Name: N:\Projects\Logos\62742 Huntingwood SEARs\GIS\Maps\Aerials\62742_2014.mxd
Reference: www.nearmap.com - Imagery 20141121



Legend

Approximate Site Boundary

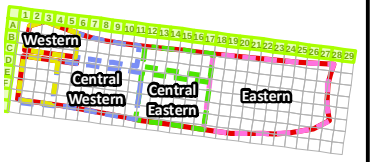
Assessment Areas

Western Assessment Area

Central Western Assessment Area

Central Eastern Assessment Area

Eastern Assessment Area



JBS&G

Job No: 62742

Client: Logos Australia

Version: Aerials	Date 21/07/2022
Drawn By: YY	Checked By: JN

Scale 1:2,500

0 25 50

metres

Coord. Sys. GDA 1994 MGA Zone 56

Huntington East
Augusta Street
Blacktown, NSW

AERIAL PHOTOGRAPH - 2014
(Central Eastern Assessment Area)

FIGURE 2014

File Name: N:\Projects\Logos\62742 Huntingwood SEARs\GIS\Maps\Aerials\62742_2014.mxd
Reference: www.nearmap.com - Imagery 20141121

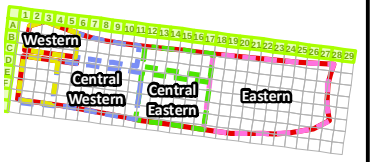


Legend

- Approximate Site Boundary

Assessment Areas

- Western Assessment Area
- Central Western Assessment Area
- Central Eastern Assessment Area
- Eastern Assessment Area



JBS&G

Job No: 62742	
Client: Logos Australia	
Version: Aerials	Date 21/07/2022
Drawn By: YY	Checked By: JN
Scale 1:2,500	

0 25 50
metres

Coord. Sys. GDA 1994 MGA Zone 56

Huntington East
Augusta Street
Blacktown, NSW

AERIAL PHOTOGRAPH - 2014
(Eastern Assessment Area)

FIGURE 2014

File Name: N:\Projects\Logos\62742 Huntingwood SEARs\GIS\Maps\Aerials\62742_2014.mxd
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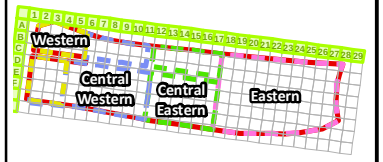


Legend

- Approximate Site Boundary

Assessment Areas

- Western Assessment Area
- Central Western Assessment Area
- Central Eastern Assessment Area
- Eastern Assessment Area



JBS&G

Job No: 62742	
Client: Logos Australia	
Version: Aerials	Date 21/07/2022
Drawn By: YY	Checked By: JN
Scale 1:2,500	

0 25 50
metres

Coord. Sys. GDA 1994 MGA Zone 56

Huntington East
Augusta Street
Blacktown, NSW

AERIAL PHOTOGRAPH - 2015
(Western Assessment Area)

FIGURE 2015

File Name: N:\Projects\Logos\62742 Huntingwood SEARs\GIS\Maps\Aerials\62742_2015.mxd
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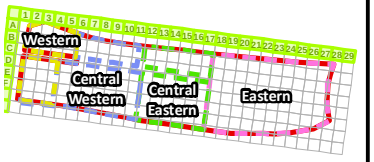


Legend

- Approximate Site Boundary

Assessment Areas

- Western Assessment Area
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JBS&G

Job No: 62742	
Client: Logos Australia	
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Drawn By: YY	Checked By: JN
Scale 1:2,500	

0 25 50
metres

Coord. Sys. GDA 1994 MGA Zone 56

Huntington East
Augusta Street
Blacktown, NSW

AERIAL PHOTOGRAPH - 2015
(Central Western Assessment Area)

FIGURE 2015

File Name: N:\Projects\Logos\62742 Huntingwood SEARs\GIS\Maps\Aerials\62742_2015.mxd
Reference: www.nearmap.com - Imagery 20151006



Legend

Approximate Site Boundary

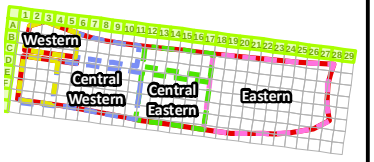
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Version: Aerials	Date 21/07/2022
Drawn By: YY	Checked By: JN

Scale 1:2,500

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metres

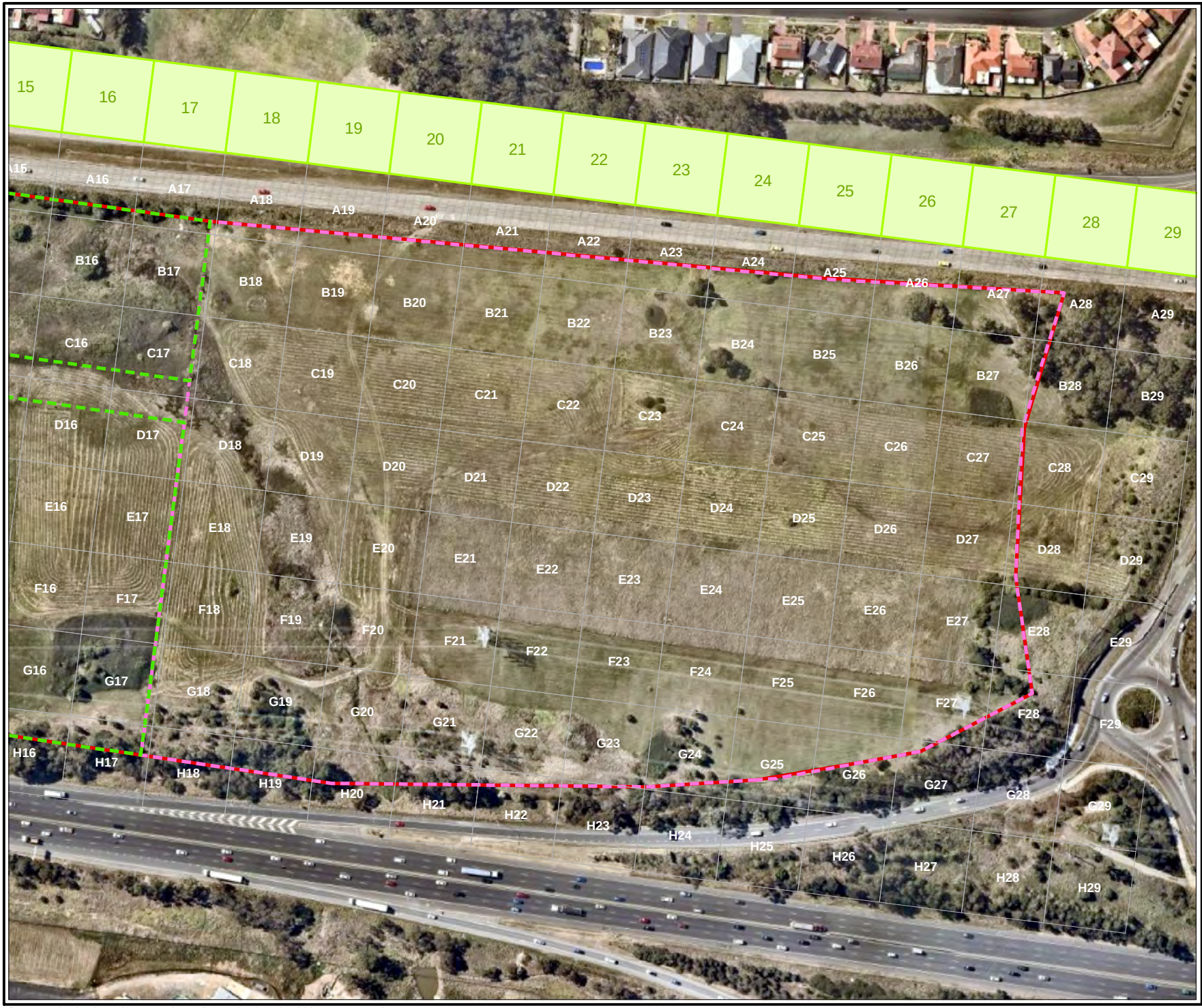
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Huntington East
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(Central Eastern Assessment Area)

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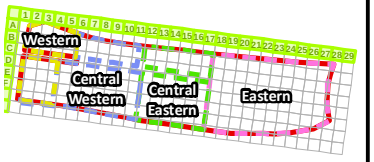


Legend

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Assessment Areas

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JBS&G

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metres

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Huntington East
Augusta Street
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(Eastern Assessment Area)

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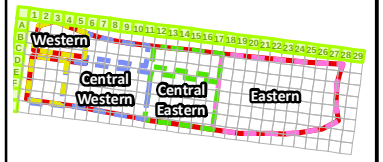


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Assessment Areas

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0 25 50
metres

Coord. Sys. GDA 1994 MGA Zone 56

Huntington East
Augusta Street
Blacktown, NSW

AERIAL PHOTOGRAPH - 2016
(Western Assessment Area)

FIGURE 2016

File Name: N:\Projects\Logos\62742 Huntingwood SEARs\GIS\Maps\Aerials\62742_2016.mxd
Reference: www.nearmap.com - Imagery 20160909

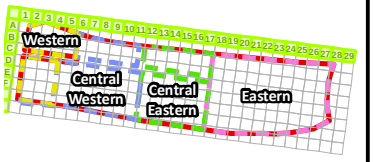


Legend

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metres

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Huntington East
Augusta Street
Blacktown, NSW

AERIAL PHOTOGRAPH - 2016
(Central Western Assessment Area)

FIGURE 2016

File Name: N:\Projects\Logos\62742 Huntingwood SEARs\GIS\Maps\Aerials\62742_2016.mxd
Reference: www.nearmap.com - Imagery 20160909



Legend

Approximate Site Boundary

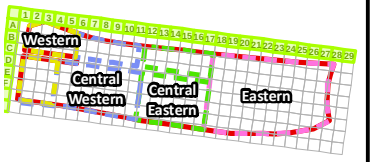
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0 25 50

metres

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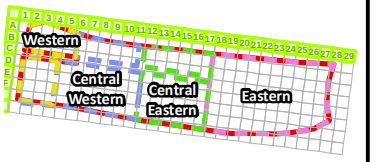


Legend

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Assessment Areas

- Western Assessment Area
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Version: Aerials	Date 21/07/2022
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metres

Coord. Sys. GDA 1994 MGA Zone 56

Huntington East
Augusta Street
Blacktown, NSW

AERIAL PHOTOGRAPH - 2016
(Eastern Assessment Area)

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File Name: N:\Projects\Logos\62742 Huntingwood SEARs\GIS\Maps\Aerials\62742_2016.mxd
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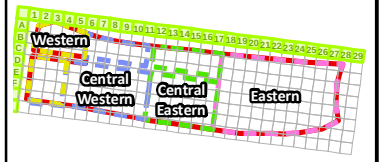


Legend

- Approximate Site Boundary

Assessment Areas

- Western Assessment Area
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JBS&G

Job No: 62742	
Client: Logos Australia	
Version: Aerials	Date 21/07/2022
Drawn By: YY	Checked By: JN
Scale 1:2,500	

0 25 50
metres

Coord. Sys. GDA 1994 MGA Zone 56

Huntington East
Augusta Street
Blacktown, NSW

AERIAL PHOTOGRAPH - 2017
(Western Assessment Area)

FIGURE 2017

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Reference: www.nearmap.com - Imagery 20170822

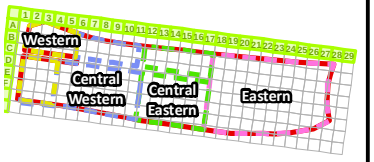


Legend

- Approximate Site Boundary

Assessment Areas

- Western Assessment Area
- Central Western Assessment Area
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JBS&G

Job No: 62742	
Client: Logos Australia	
Version: Aerials	Date 21/07/2022
Drawn By: YY	Checked By: JN
Scale 1:2,500	

0 25 50
metres

Coord. Sys. GDA 1994 MGA Zone 56

Huntington East
Augusta Street
Blacktown, NSW

AERIAL PHOTOGRAPH - 2017
(Central Western Assessment Area)

FIGURE 2017

File Name: N:\Projects\Logos\62742 Huntingwood SEARs\GIS\Maps\Aerials\62742_2017.mxd
Reference: www.nearmap.com - Imagery 20170822



Legend

Approximate Site Boundary

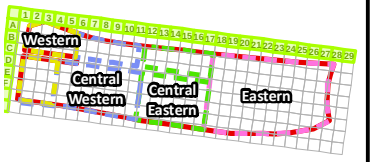
Assessment Areas

Western Assessment Area

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JBS&G

Job No: 62742

Client: Logos Australia

Version: Aerials	Date 21/07/2022
Drawn By: YY	Checked By: JN

Scale 1:2,500

0 25 50

metres

Coord. Sys. GDA 1994 MGA Zone 56

Huntington East
Augusta Street
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AERIAL PHOTOGRAPH - 2017
(Central Eastern Assessment Area)

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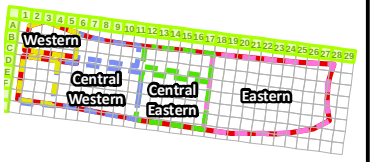


Legend

- Approximate Site Boundary

Assessment Areas

- Western Assessment Area
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JBS&G

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Drawn By: YY	Checked By: JN

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metres

Coord. Sys. GDA 1994 MGA Zone 56

Huntington East
Augusta Street
Blacktown, NSW

AERIAL PHOTOGRAPH - 2017
(Eastern Assessment Area)

FIGURE 2017

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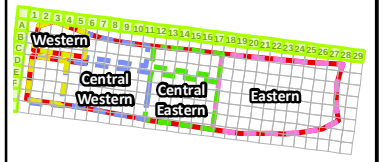


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Assessment Areas

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JBS&G

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Drawn By: YY	Checked By: JN
Scale 1:2,500	

0 25 50
metres

Coord. Sys. GDA 1994 MGA Zone 56

Huntington East
Augusta Street
Blacktown, NSW

AERIAL PHOTOGRAPH - 2018
(Western Assessment Area)

FIGURE 2018

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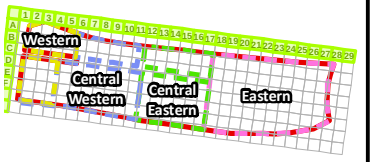


Legend

- Approximate Site Boundary

Assessment Areas

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JBS&G

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0 25 50
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Coord. Sys. GDA 1994 MGA Zone 56

Huntington East
Augusta Street
Blacktown, NSW

AERIAL PHOTOGRAPH - 2018
(Central Western Assessment Area)

FIGURE 2018

File Name: N:\Projects\Logos\62742 Huntingwood SEARs\GIS\Maps\Aerials\62742_2018.mxd
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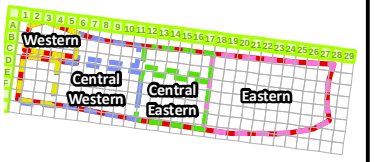


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Huntington East
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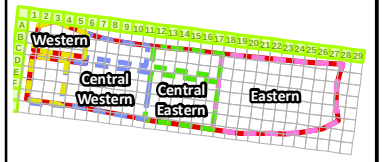


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Huntington East
Augusta Street
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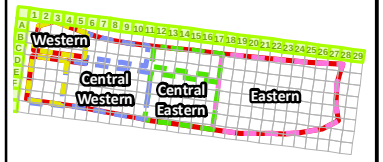


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Scale 1:2,500

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Coord. Sys. GDA 1994 MGA Zone 56

Huntington East
Augusta Street
Blacktown, NSW

AERIAL PHOTOGRAPH - 2019
(Western Assessment Area)

FIGURE 2019

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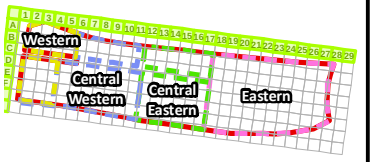


Legend

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Assessment Areas

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JBS&G

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Drawn By: YY	Checked By: JN
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metres

Coord. Sys. GDA 1994 MGA Zone 56

Huntington East
Augusta Street
Blacktown, NSW

AERIAL PHOTOGRAPH - 2019
(Central Western Assessment Area)

FIGURE 2019

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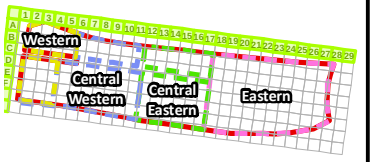


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(Central Eastern Assessment Area)

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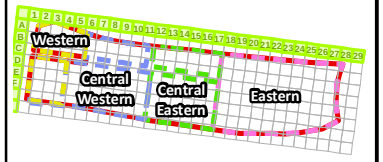


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Coord. Sys. GDA 1994 MGA Zone 56

Huntington East
Augusta Street
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AERIAL PHOTOGRAPH - 2019
(Eastern Assessment Area)

FIGURE 2019

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Reference: www.nearmap.com - Imagery 20191027

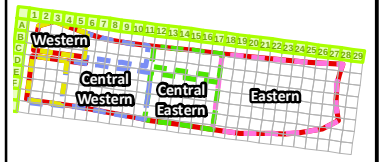


Legend

- Approximate Site Boundary

Assessment Areas

- Western Assessment Area
- Central Western Assessment Area
- Central Eastern Assessment Area
- Eastern Assessment Area



JBS&G

Job No: 62742	
Client: Logos Australia	
Version: Aerials	Date 21/07/2022
Drawn By: YY	Checked By: JN
Scale 1:2,500	

0 25 50
metres

Coord. Sys. GDA 1994 MGA Zone 56

Huntington East
Augusta Street
Blacktown, NSW

AERIAL PHOTOGRAPH - 2020
(Western Assessment Area)

FIGURE 2020

File Name: N:\Projects\Logos\62742 Huntingwood SEARs\GIS\Maps\Aerials\62742_2020.mxd
Reference: www.nearmap.com - Imagery 20201217

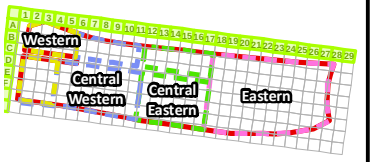


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FIGURE 2020

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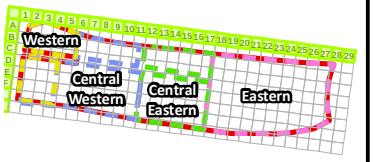
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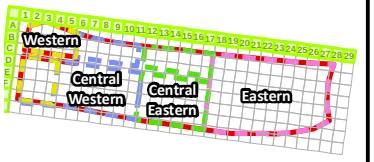


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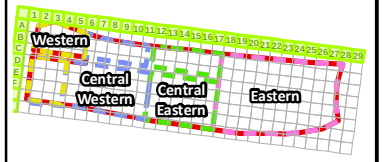


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AERIAL PHOTOGRAPH - 2021
(Western Assessment Area)

FIGURE 2021

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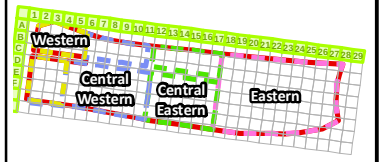


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(Central Western Assessment Area)

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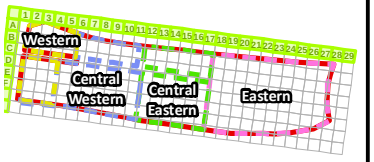
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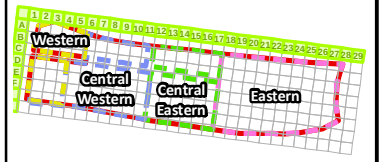


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AERIAL PHOTOGRAPH - 2021
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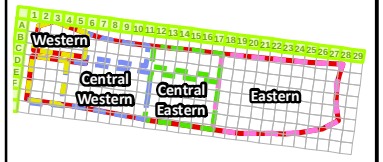


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Huntington East
Augusta Street
Blacktown, NSW

AERIAL PHOTOGRAPH - 2022
(Western Assessment Area)

FIGURE 2022

File Name: N:\Projects\Logos\62742 Huntingwood SEARs\GIS\Maps\Aerials\62742_2022.mxd
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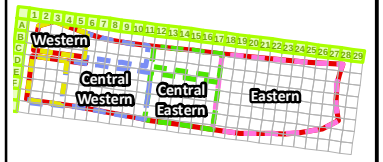


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FIGURE 2022

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Reference: www.nearmap.com - Imagery 20220519



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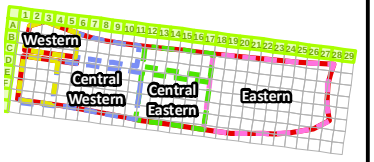
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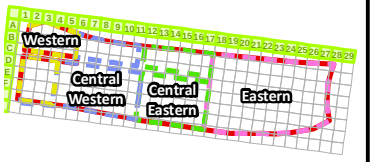


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AERIAL PHOTOGRAPH - 2022
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FIGURE 2022

File Name: N:\Projects\Logos\62742 Huntingwood SEARs\GIS\Maps\Aerials\62742_2022.mxd
Reference: www.nearmap.com - Imagery 20220519

Appendix D Section 10.7 Certificate

Applicant Details

Your reference 61653

E JBS&G
286 KIERA STREET
WOLLONGONG NSW 2500

Certificate Details

Certificate no. PL2021/14252 **Fee: $133.00**

Date issued 31 August 2021 **Urgency fee: N/A**

Receipt no. ePay Ref 164976

Property information

Property ID 305965 **Land ID** 356218

Legal description LOT 51 DP 1144623

Address PROSPECT HIGHWAY PROSPECT NSW 2148

County CUMBERLAND **Parish** PROSPECT

PLANNING CERTIFICATE (Section 10.7(2 & 5))

Blacktown City Council prepared this Planning Certificate under Section 10.7 of the *Environmental Planning and Assessment Act 1979*. The form and content of the Certificate is consistent with *Environmental Planning and Assessment Regulation 2000*.

Disclaimer

Blacktown City Council gives notice and points out to all users of the information supplied herein, that the information herein has been compiled by Council from sources outside of Council's control. While the information herein is provided with all due care and in good faith, it is provided on the basis that Council will not accept any responsibility for and will not be liable for its contents or for any consequence arising from its use, and every user of such information is advised to make all necessary enquiries from the appropriate organisations, institutions and the like.

Blacktown City Council also gives notice to all users of the information supplied herein, wherever any particular enquiry herein remains unanswered or has not been elaborated upon, such silence should not be interpreted as meaning or inferring either a negative or a positive response as the case may be.

Section 10.7(2)

The following information is provided under Section 10.7(2) of the *Environmental Planning and Assessment Act 1979*. The information relates to the subject land at the date of this Certificate.

---

1. Names of relevant planning instruments and development control plans

1.1 Environmental Planning Instrument

As at the date of this certificate the abovementioned land is not affected by Blacktown Local Environmental Plan 2015.

The land is affected by the *State Environmental Planning Policy (Western Sydney Employment Area) 2009.*

1.2 Proposed Local Environmental Plans

On 16 August 2021, Council placed a housekeeping amendment Planning Proposal to amend Blacktown Local Environmental Plan 2015.

The proposal amends:

- Clause 4.1AA Minimum subdivision lot size for community title schemes, and Clause 4.1A Minimum subdivision lot size for strata plan schemes, to remove inconsistency with Clause 4.1(4) Minimum subdivision lot size,
- Clause 4.1 C relating to the subdivision of a lawfully erected dual occupancy development on a corner lot, by including an objective and clarifying what is defined as a corner lot, and
- Schedule 1 – Additional permitted uses to update the legal description of No 22 John Hines Avenue, Minchinbury

A copy of the Planning Proposal is available on the NSW Planning Portal: https://pp.planningportal.nsw.gov.au/ppr/pre-exhibition/housekeeping-amendment-no2-blacktown-local-environmental-plan-2015

1.3 Other Applicable State Environmental Planning Policies

Attachment 1 contains a list of State Environmental Planning Policies that may apply to the carrying out of development on the subject land.

1.4 Proposed State Environmental Planning Policies

The following draft State Environmental Planning Policies (SEPPs) or Explanation of Intended Effects (EIE) are currently on exhibition or have been exhibited. For further information refer to https://www.planningportal.nsw.gov.au/draftplans

- The NSW Department of Planning, Industry and Environment has placed on exhibition the draft State Environmental Planning Policy (Housing) 2021 (SEPP). The draft SEPP proposes to consolidate five existing housing-related SEPPs:
    - State Environmental Planning Policy (Affordable Rental Housing) 2009 (ARHSEPP);
    - State Environmental Planning Policy (Housing for Seniors and People with a Disability) 2004 (Seniors SEPP);
    - State Environmental Planning Policy No 70 – Affordable Housing (Revised Schemes) (SEPP 70);
    - State Environmental Planning Policy No 21—Caravan Parks; and
    - State Environmental Planning Policy No 36—Manufactured Home Estates.

  The draft State Environmental Planning Policy (Housing) 2021 is on exhibition from 31 July to 29 August 2021. For more information visit: https://www.planningportal.nsw.gov.au/housing-sepp

- The NSW Department of Planning, Industry and Environment exhibited an Explanation of Intended Effect from 31 March to 9 May 2021 to amend State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 (Building Business Back Better).

- The NSW Department of Planning, Industry and Environment exhibited an Explanation of Intended Effect between 26 February and 28 April 2021 for the Design and Place SEPP.

- The NSW Department of Planning, Industry and Environment exhibited an Explanation of Intended Effect between 31 March and 12 May 2021 to review Clause 4.6 of the Standard Instrument Local Environmental Plan

- The NSW Department of Planning, Industry and Environment exhibited an Explanation of Intended Effect from 2 March to 16 March 2020 to amend State Environmental Planning Policy (State and Regional Development) 2011 to facilitate the efficient delivery of upgrades to existing water treatment facilities in NSW

- The NSW Department of Planning, Industry and Environment exhibited and Explanation of Intended Effect from 20 November to 17 December 2020 to amend the Infrastructure SEPP related to health services facilities.

- The NSW Department of Planning, Industry and Environment exhibited and Explanation of Intended Effect from 20 November to 17 December 2020 to amend the State Environmental Planning Policy (Educational Establishments and Child Care Facilities) 2017

- The NSW Department of Planning, Industry and Environment exhibited and Explanation of Intended Effect from 26 August to 2 November 2020 to recommend the creation of a new State Environmental Planning Policy for strategic conservation planning
- The NSW Department of Planning, Industry and Environment exhibited a Flood Prone Land Package from the 30 April to 25 June 2020
- The NSW Department of Planning, Industry and Environment exhibited an Explanation of Intended Effect from 7 September to 28 September 2018 to amend State Environmental Planning Policy (Sydney Region Growth Centres) 2006
- The NSW Department of Planning, Industry and Environment exhibited an Explanation of Intended Effect between 31 October 2017 and 31 January 2018 for the proposed Environment SEPP.

1.5 Development control plans

The *Huntingwood Precinct Development Control Plan 2011* outlines the provisions relating to development within the Huntingwood Precinct under *State Environmental Planning Policy (Western Sydney Employment Area*) 2009 (WSEA SEPP). The DCP was adopted by Blacktown City Council under delegation from the Director-General of the Department of Planning and Infrastructure on 10 August 2011 and came into force on 23 August 2011.

2. Zoning and land use under relevant environmental planning instruments

The following information will assist in determining how the subject land may be developed. It is recommended that you read this section in conjunction with a full copy of any relevant environmental planning instrument as there may be additional provisions that affect how the land may be developed.

2.1 Zoning

Under *State Environmental Planning Policy (Western Sydney Employment Area) 2009,* the land is zoned:

IN1 General Industrial

For information about the types of development that may or may not be carried out on the land, please refer to a full copy of the Environmental Planning Instrument identified above.

2.2 Minimum land dimensions for the erection of a dwelling house

Not applicable

2.3 Critical habitat

The land does not include or comprise a critical habitat.

Note: Critical habitat registers are kept by the National Parks and Wildlife Service under the *Threatened Species Conservation Act 1995* and the Department of Fisheries under the *Fisheries Management Act 1994*.

2.4 Conservation areas

The land is not within a conservation area.

2.5 Environmental Heritage

The land does not contain an item of environmental heritage under the protection of State Environmental Planning Policy (Western Sydney Employment Area) 2009

3. Complying development

Complying development may or may not be carried out on the subject land under an Environmental Planning Policy. Council does not have sufficient information to determine the extent to which specific complying development may or may not be carried out.

4. Coastal protection

The subject land is not affected by the operation of Sections 38 or 39 of the *Coastal Protection Act, 1979*.

5. Mine subsidence

The subject land has not been 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 subject land is not affected by road widening or road realignment under an environmental planning instrument.

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

7.1 Contaminated Lands Policy and Asbestos Policy Schedule 6

Council has adopted a Contaminated Lands Policy and an Asbestos Policy which may restrict development on the subject land.

The Land Contamination Policy applies when zoning or land use changes are proposed on land which has previously been used for certain purposes or has the potential to be affected by such purposes undertaken on nearby lands. The Asbestos Policy applies where land contains, or is likely to have contained in the past, buildings or structures that were erected prior to the banning of asbestos. Both policies should be considered in the context of relevant State legislation and guidelines.

Council's records may not be sufficient to determine all previous uses on the land, or determine activities that may have taken place on this land.

7.2 Other policies on hazard risk restrictions

Council has not adopted any other policies to restrict the development of the subject land by reason of the likelihood of landslip, bushfire, tidal inundation, subsidence or the occurrence of acid sulphate soils.

Note: Although Council has not adopted a specific policy to restrict development bushfire prone land, it is bound by state-wide bushfire legislation that may restrict development on the subject land. Additional information relating to bushfire prone land is provided at point 11 below.

7a. Flood related development controls information

The Flood Inundation maps prepared by Council are based on results of Engineering flood studies commissioned by Government authorities or Council. The information provided in this section is general advice based on Council's current adopted flood mapping. For more detailed flood information, please contact Council's Flooding Section and/or email Floodadvice@blacktown.nsw.gov.au

8. Land reserved for acquisition

State Environmental Planning Policy (Western Sydney Employment Area) 2009 makes provision for land included on the Land Reservation Acquisition Map to be acquired by a public authority.

9. Contributions plans

Council currently levies contributions under Section 7.11 of the *Environmental Planning & Assessment Act 1979* for facilities and services. The further development of the subject land may incur such contributions.

9a. Biodiversity certified land

The land is not biodiversity certified land as defined by Part 7AA of the *Threatened Species Conservation Act 1995*.

10. Biobanking agreements

The land is not subject to any biobanking agreement under Part 7A of the *Threatened Species Conservation Act 1995*.

11. Bushfire prone land

The Rural Fires and Environmental Assessment Legislation Amendment Act 2002, which came into force on 1 August 2002, introduced development provisions for bush fire prone land as shown on a Bush Fire Prone Land Map. "Bush fire prone land" is land that has been designated by the Commissioner of the NSW Rural Fire Service as being bush fire prone due to characteristics of vegetation and topography. The land the subject of this certificate has been identified on Council's Bush Fire Prone Land Map as being:

Clear of any bush fire prone land

On land that is bush fire prone, certain development may require further consideration under Section 4.14 or Section 4.46 of the *Environmental Planning & Assessment Act 1979* and under Section 100B of the *Rural Fires Act 1997*.

12. Property vegetation plans

The subject land is not affected by a property vegetation plan under the *Native Vegetation Act 2003*. The Blacktown local government area is excluded from the operation of the *Native Vegetation Act 2003* (refer Schedule 1 Part 3 of that Act).

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

No. Council has not been notified of any order made under the *Trees (Disputes Between Neighbours) Act 2006* in relation to the subject land.

14. Site compatibility certificates and conditions for seniors housing

Land to which this Certificate applies is not subject to the above.

15. Site compatibility certificates for infrastructure

Land to which this Certificate applies is not subject to the above.

16. Site compatibility certificates and conditions for affordable rental housing

Land to which this Certificate applies is not subject to the above.

17. Paper subdivision information

Not applicable

18. Site verification certificates

Council is not aware of any site verification certificate applying to the subject land.

Under the *Contaminated Land Management Act 1997* and *Contaminated Land Management Amendment Act 2008*

(a) The land to which this certificate relates has not been declared to be significantly contaminated land at the date when the certificate was issued

(b) The land to which the certificate relates is not subject to a management order at the date when the certificate was issued

(c) The land to which this certificate relates is not the subject of an approved voluntary management proposal at the date when the certificate was issued

(d) The land to which this certificate relates is not subject to an ongoing maintenance order as at the date when the certificate was issued

(e) The land to which this certificate relates is not the subject of a site audit statement provided to the Council.

19. Affected building notices and building product rectification orders

19.1 Affected building notices

Council is not aware of any affected building notice in force for the subject land.

19.2 Building product rectification orders

(a) Council is not aware of any building product rectification order in force for the subject land.

(b) Council is not aware of any notice of intention to make a building product rectification order being given for the subject land.

Section 10.7(5)

The following information is provided under Section 10.7(5) of the *Environmental Planning & Assessment Act 1979*. As per section 10.7(6) of the Act, Council shall not incur any liability in respect of any advice provided in good faith under section 10.7(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.

Planning Instruments and Covenants

The provisions of any covenant, agreement or instrument applying to this land that restrict or prohibit certain development may be inconsistent with the provisions of an environmental planning instrument. In such cases, the provisions of any such covenant, agreement or instrument may be overridden.

Loose-filled Asbestos Insulation

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

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

Contact NSW Fair Trading for further information

Biodiversity and Threatened Species Conservation

The land is affected by a tree preservation control under Clause 5.9 of the Blacktown Local Environmental Plan 2015. A person shall not ringbark, cut down, lop, top, remove, injure or wilfully destroy any tree, or cause any tree to be ringbarked, cut down, topped, lopped, injured or wilfully destroyed, except with the consent of the Council.

The provisions of any covenant, agreement or instrument applying to this land purporting to restrict or prohibit certain development may be inconsistent with the provisions of a Regional Environmental Plan, State Environmental Planning Policy or Blacktown Local Environmental Plan 2015, in which case the provisions of any such covenant, agreement or instrument may be overridden.

The *Threatened Species Conservation Act 1995* provides for the conservation of threatened species, populations and ecological communities of animals and plants.

The *Threatened Species Conservation Act 1995* amended the *Environmental Planning and Assessment Act 1979* to require, amongst other things, that:

(a) A critical habitat (as defined in the *Threatened Species Conservation Act 1995*) be identified in environmental planning instruments, and

(b) Consent authorities and determining authorities must, when considering proposed development or an activity, assess whether it is likely to significantly affect threatened species, populations and ecological communities, or their habitats, and, if a significant effect is likely, to require the preparation of a species impact statement in accordance with the requirements of the *Threatened Species Conservation Act 1995*, and

(c) Consent authorities and determining authorities must, when considering proposed development or an activity, have regard to the relevant recovery plans and threat abatement plans.

The *Environment Protection and Biodiversity Conservation Act 1999* provides protection for items of national significance. Items of national environmental significance include nationally threatened animal and plant species and ecological communities.

The Act requires a separate Commonwealth approval to be obtained where an action is likely to have significant impacts on items of national environmental significance.

For further information on this matter, please contact the Australian Government's Department of the Environment.

Attachment 1 – State Environmental Planning Policies

In addition to the principal environmental planning instrument identified in section 2.1 of this Certificate, the following State Environmental Planning Policies may also affect development on the subject land.

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Authorised by Blacktown City Council
Proforma ID: 1012930

End of Certificate

Applicant Details

Your reference P0036077

URBIS PTY LTD
123 ANGEL PLACE
SYDNEY NSW 2000

Certificate Details

Certificate no. PL2022/01173 **Fee: $133.00**

Date issued 31 January 2022 **Urgency fee: N/A**

Receipt no. ePay Ref 192972

Property information

Property ID 316157 **Land ID** 316157

Legal description LOT 1 DP 835264

Address 3 AUGUSTA STREET BLACKTOWN NSW 2148

County CUMBERLAND **Parish** PROSPECT

PLANNING CERTIFICATE (Section 10.7(2 & 5))

Blacktown City Council prepared this Planning Certificate under Section 10.7 of the *Environmental Planning and Assessment Act 1979*. The form and content of the Certificate is consistent with *Environmental Planning and Assessment Regulation 2000*.

Disclaimer

Blacktown City Council gives notice and points out to all users of the information supplied herein, that the information herein has been compiled by Council from sources outside of Council's control. While the information herein is provided with all due care and in good faith, it is provided on the basis that Council will not accept any responsibility for and will not be liable for its contents or for any consequence arising from its use, and every user of such information is advised to make all necessary enquiries from the appropriate organisations, institutions and the like.

Blacktown City Council also gives notice to all users of the information supplied herein, wherever any particular enquiry herein remains unanswered or has not been elaborated upon, such silence should not be interpreted as meaning or inferring either a negative or a positive response as the case may be.

Section 10.7(2)

The following information is provided under Section 10.7(2) of the *Environmental Planning and Assessment Act 1979*. The information relates to the subject land at the date of this Certificate.

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1. Names of relevant planning instruments and development control plans

1.1 Environmental Planning Instrument

As at the date of this certificate the abovementioned land is not affected by Blacktown Local Environmental Plan 2015.

The land is affected by the *State Environmental Planning Policy (Western Sydney Employment Area) 2009.*

1.2 Proposed Local Environmental Plans

On 16 August 2021, Council placed a housekeeping amendment Planning Proposal to amend Blacktown Local Environmental Plan 2015.

The proposal amends:

- Clause 4.1AA Minimum subdivision lot size for community title schemes, and Clause 4.1A Minimum subdivision lot size for strata plan schemes, to remove inconsistency with Clause 4.1(4) Minimum subdivision lot size,
- Clause 4.1 C relating to the subdivision of a lawfully erected dual occupancy development on a corner lot, by including an objective and clarifying what is defined as a corner lot, and
- Schedule 1 – Additional permitted uses to update the legal description of No 22 John Hines Avenue, Minchinbury

A copy of the Planning Proposal is available on the NSW Planning Portal: https://pp.planningportal.nsw.gov.au/ppr/pre-exhibition/housekeeping-amendment-no2-blacktown-local-environmental-plan-2015

1.3 Other Applicable State Environmental Planning Policies

Attachment 1 contains a list of State Environmental Planning Policies that may apply to the carrying out of development on the subject land.

1.4 Proposed State Environmental Planning Policies

The following draft State Environmental Planning Policies (SEPPs) or Explanation of Intended Effects (EIE) are currently on exhibition or have been exhibited. For further information refer to https://www.planningportal.nsw.gov.au/draftplans

- The draft State Environmental Planning Policy (Design and Place) 2021 and supporting guides were placed on exhibition on 10 December 2021. The draft State Environmental Planning Policy (Design and Place) 2021 will supersede the existing State Environmental Planning Policy No 65 – Design Quality of Residential Apartment Development, and State Environmental Planning Policy (Building Sustainability Index: BASIX) 2004, with relevant provisions transferred across.

- The NSW Department of Planning, Industry and Environment exhibited an Explanation of Intended Effect from 29 October 2021 to 30 November 2021 to amend State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 (Fun SEPP).

- The amendment proposes to support hospitality, events and arts industries through the use of exempt and complying development. For more information visit https://www.planningportal.nsw.gov.au/the-fun-SEPP

- The NSW Department of Planning, Industry and Environment exhibited an Explanation of Intended Effect from 31 March to 9 May 2021 to amend State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 (Building Business Back Better).

- The NSW Department of Planning, Industry and Environment exhibited an Explanation of Intended Effect between 31 March and 12 May 2021 to review Clause 4.6 of the Standard Instrument Local Environmental Plan

- The NSW Department of Planning, Industry and Environment exhibited an Explanation of Intended Effect from 2 March to 16 March 2020 to amend State Environmental Planning Policy (State and Regional Development) 2011 to facilitate the efficient delivery of upgrades to existing water treatment facilities in NSW

- The NSW Department of Planning, Industry and Environment exhibited and Explanation of Intended Effect from 20 November to 17 December 2020 to amend the Infrastructure SEPP related to health services facilities.

- The NSW Department of Planning, Industry and Environment exhibited and Explanation of Intended Effect from 20 November to 17 December 2020 to amend the State Environmental Planning Policy (Educational Establishments and Child Care Facilities) 2017

- The NSW Department of Planning, Industry and Environment exhibited and Explanation of Intended Effect from 26 August to 2 November 2020 to recommend the creation of a new State Environmental Planning Policy for strategic conservation planning

- The NSW Department of Planning, Industry and Environment exhibited a Flood Prone Land Package from the 30 April to 25 June 2020

- The NSW Department of Planning, Industry and Environment exhibited an Explanation of Intended Effect from 7 September to 28 September 2018 to amend State Environmental Planning Policy (Sydney Region Growth Centres) 2006
- The NSW Department of Planning, Industry and Environment exhibited an Explanation of Intended Effect between 31 October 2017 and 31 January 2018 for the proposed Environment SEPP.

1.5 Development control plans

The *Huntingwood Precinct Development Control Plan 2011* outlines the provisions relating to development within the Huntingwood Precinct under *State Environmental Planning Policy (Western Sydney Employment Area*) 2009 (WSEA SEPP). The DCP was adopted by Blacktown City Council under delegation from the Director-General of the Department of Planning and Infrastructure on 10 August 2011 and came into force on 23 August 2011.

2. Zoning and land use under relevant environmental planning instruments

The following information will assist in determining how the subject land may be developed. It is recommended that you read this section in conjunction with a full copy of any relevant environmental planning instrument as there may be additional provisions that affect how the land may be developed.

2.1 Zoning

Under *State Environmental Planning Policy (Western Sydney Employment Area) 2009,* the land is zoned:

IN1 General Industrial

For information about the types of development that may or may not be carried out on the land, please refer to a full copy of the Environmental Planning Instrument identified above.

2.2 Minimum land dimensions for the erection of a dwelling house

Not applicable

2.3 Critical habitat

The land does not include or comprise a critical habitat.

Note: Critical habitat registers are kept by the National Parks and Wildlife Service under the *Threatened Species Conservation Act 1995* and the Department of Fisheries under the *Fisheries Management Act 1994*.

2.4 Conservation areas

The land is not within a conservation area.

2.5 Environmental Heritage

The land does not contain an item of environmental heritage under the protection of State Environmental Planning Policy (Western Sydney Employment Area) 2009

3. Complying development

Complying development may or may not be carried out on the subject land under an Environmental Planning Policy. Council does not have sufficient information to determine the extent to which specific complying development may or may not be carried out.

4. Coastal protection

The subject land is not affected by the operation of Sections 38 or 39 of the *Coastal Protection Act, 1979*.

5. Mine subsidence

The subject land has not been 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 subject land is not affected by road widening or road realignment under an environmental planning instrument.

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

7.1 Contaminated Lands Policy and Asbestos Policy Schedule 6

Council has adopted a Contaminated Lands Policy and an Asbestos Policy which may restrict development on the subject land.

The Land Contamination Policy applies when zoning or land use changes are proposed on land which has previously been used for certain purposes or has the potential to be affected by such purposes undertaken on nearby lands. The Asbestos Policy applies where land contains, or is likely to have contained in the past, buildings or structures that were erected prior to the banning of asbestos. Both policies should be considered in the context of relevant State legislation and guidelines.

Council's records may not be sufficient to determine all previous uses on the land, or determine activities that may have taken place on this land.

7.2 Other policies on hazard risk restrictions

Council has not adopted any other policies to restrict the development of the subject land by reason of the likelihood of landslip, bushfire, tidal inundation, subsidence or the occurrence of acid sulphate soils.

Note: Although Council has not adopted a specific policy to restrict development bushfire prone land, it is bound by state-wide bushfire legislation that may restrict development on the subject land. Additional information relating to bushfire prone land is provided at point 11 below.

7a. Flood related development controls information

The Flood Inundation maps prepared by Council are based on results of Engineering flood studies commissioned by Government authorities or Council. The information provided in this section is general advice based on Council's current adopted flood mapping. For more detailed flood information, please contact Council's Flooding Section and/or email Floodadvice@blacktown.nsw.gov.au

8. Land reserved for acquisition

State Environmental Planning Policy (Western Sydney Employment Area) 2009 makes provision for land included on the Land Reservation Acquisition Map to be acquired by a public authority.

9. Contributions plans

Council currently levies contributions under Section 7.11 of the *Environmental Planning & Assessment Act 1979* for facilities and services. The further development of the subject land may incur such contributions.

9a. Biodiversity certified land

The land is not biodiversity certified land as defined by Part 7AA of the *Threatened Species Conservation Act 1995*.

10. Biobanking agreements

The land is not subject to any biobanking agreement under Part 7A of the *Threatened Species Conservation Act 1995*.

11. Bushfire prone land

The Rural Fires and Environmental Assessment Legislation Amendment Act 2002, which came into force on 1 August 2002, introduced development provisions for bush fire prone land as shown on a Bush Fire Prone Land Map. "Bush fire prone land" is land that has been designated by the Commissioner of the NSW Rural Fire Service as being bush fire prone due to characteristics of vegetation and topography. The land the subject of this certificate has been identified on Council's Bush Fire Prone Land Map as being:

Clear of any bush fire prone land

On land that is bush fire prone, certain development may require further consideration under Section 4.14 or Section 4.46 of the *Environmental Planning & Assessment Act 1979* and under Section 100B of the *Rural Fires Act 1997*.

12. Property vegetation plans

The subject land is not affected by a property vegetation plan under the *Native Vegetation Act 2003*. The Blacktown local government area is excluded from the operation of the *Native Vegetation Act 2003* (refer Schedule 1 Part 3 of that Act).

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

No. Council has not been notified of any order made under the *Trees (Disputes Between Neighbours) Act 2006* in relation to the subject land.

14. Site compatibility certificates and conditions for seniors housing

Land to which this Certificate applies is not subject to the above.

15. Site compatibility certificates for infrastructure

Land to which this Certificate applies is not subject to the above.

16. Site compatibility certificates and conditions for affordable rental housing

Land to which this Certificate applies is not subject to the above.

17. Paper subdivision information

Not applicable

18. Site verification certificates

Council is not aware of any site verification certificate applying to the subject land.

Under the *Contaminated Land Management Act 1997* and *Contaminated Land Management Amendment Act 2008*

(a) The land to which this certificate relates has not been declared to be significantly contaminated land at the date when the certificate was issued

(b) The land to which the certificate relates is not subject to a management order at the date when the certificate was issued

(c) The land to which this certificate relates is not the subject of an approved voluntary management proposal at the date when the certificate was issued

(d) The land to which this certificate relates is not subject to an ongoing maintenance order as at the date when the certificate was issued

(e) The land to which this certificate relates is not the subject of a site audit statement provided to the Council.

19. Affected building notices and building product rectification orders

19.1 Affected building notices

Council is not aware of any affected building notice in force for the subject land.

19.2 Building product rectification orders

(a) Council is not aware of any building product rectification order in force for the subject land.

(b) Council is not aware of any notice of intention to make a building product rectification order being given for the subject land.

Section 10.7(5)

The following information is provided under Section 10.7(5) of the *Environmental Planning & Assessment Act 1979*. As per section 10.7(6) of the Act, Council shall not incur any liability in respect of any advice provided in good faith under section 10.7(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.

Planning Instruments and Covenants

The provisions of any covenant, agreement or instrument applying to this land that restrict or prohibit certain development may be inconsistent with the provisions of an environmental planning instrument. In such cases, the provisions of any such covenant, agreement or instrument may be overridden.

Loose-filled Asbestos Insulation

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

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

Contact NSW Fair Trading for further information

Biodiversity and Threatened Species Conservation

The land is affected by a tree preservation control under Clause 5.9 of the Blacktown Local Environmental Plan 2015. A person shall not ringbark, cut down, lop, top, remove, injure or wilfully destroy any tree, or cause any tree to be ringbarked, cut down, topped, lopped, injured or wilfully destroyed, except with the consent of the Council.

The provisions of any covenant, agreement or instrument applying to this land purporting to restrict or prohibit certain development may be inconsistent with the provisions of a Regional Environmental Plan, State Environmental Planning Policy or Blacktown Local Environmental Plan 2015, in which case the provisions of any such covenant, agreement or instrument may be overridden.

The *Threatened Species Conservation Act 1995* provides for the conservation of threatened species, populations and ecological communities of animals and plants.

The *Threatened Species Conservation Act 1995* amended the *Environmental Planning and Assessment Act 1979* to require, amongst other things, that:

(a) A critical habitat (as defined in the *Threatened Species Conservation Act 1995*) be identified in environmental planning instruments, and

(b) Consent authorities and determining authorities must, when considering proposed development or an activity, assess whether it is likely to significantly affect threatened species, populations and ecological communities, or their habitats, and, if a significant effect is likely, to require the preparation of a species impact statement in accordance with the requirements of the *Threatened Species Conservation Act 1995*, and

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Authorised by Blacktown City Council
Proforma ID: 1077692

End of Certificate

Applicant Details

Your reference P0036077

URBIS PTY LTD
123 ANGEL PLACE
SYDNEY NSW 2000

Certificate Details

Certificate no. PL2022/01174 **Fee: $133.00**

Date issued 31 January 2022 **Urgency fee: N/A**

Receipt no. ePay Ref 192972

Property information

Property ID 158470 **Land ID** 158474

Legal description LOT 184 DP 8716

Address FLUSHCOMBE ROAD BLACKTOWN NSW 2148

County CUMBERLAND **Parish** PROSPECT

PLANNING CERTIFICATE (Section 10.7(2 & 5))

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Section 10.7(2)

The following information is provided under Section 10.7(2) of the *Environmental Planning and Assessment Act 1979*. The information relates to the subject land at the date of this Certificate.

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1. Names of relevant planning instruments and development control plans

1.1 Environmental Planning Instrument

As at the date of this certificate the abovementioned land is not affected by Blacktown Local Environmental Plan 2015.

The land is affected by the *State Environmental Planning Policy (Western Sydney Employment Area) 2009.*

1.2 Proposed Local Environmental Plans

On 16 August 2021, Council placed a housekeeping amendment Planning Proposal to amend Blacktown Local Environmental Plan 2015.

The proposal amends:

- Clause 4.1AA Minimum subdivision lot size for community title schemes, and Clause 4.1A Minimum subdivision lot size for strata plan schemes, to remove inconsistency with Clause 4.1(4) Minimum subdivision lot size,
- Clause 4.1 C relating to the subdivision of a lawfully erected dual occupancy development on a corner lot, by including an objective and clarifying what is defined as a corner lot, and
- Schedule 1 – Additional permitted uses to update the legal description of No 22 John Hines Avenue, Minchinbury

A copy of the Planning Proposal is available on the NSW Planning Portal: https://pp.planningportal.nsw.gov.au/ppr/pre-exhibition/housekeeping-amendment-no2-blacktown-local-environmental-plan-2015

1.3 Other Applicable State Environmental Planning Policies

Attachment 1 contains a list of State Environmental Planning Policies that may apply to the carrying out of development on the subject land.

1.4 Proposed State Environmental Planning Policies

The following draft State Environmental Planning Policies (SEPPs) or Explanation of Intended Effects (EIE) are currently on exhibition or have been exhibited. For further information refer to https://www.planningportal.nsw.gov.au/draftplans

- The draft State Environmental Planning Policy (Design and Place) 2021 and supporting guides were placed on exhibition on 10 December 2021. The draft State Environmental Planning Policy (Design and Place) 2021 will supersede the existing State Environmental Planning Policy No 65 – Design Quality of Residential Apartment Development, and State Environmental Planning Policy (Building Sustainability Index: BASIX) 2004, with relevant provisions transferred across.

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- The NSW Department of Planning, Industry and Environment exhibited an Explanation of Intended Effect from 7 September to 28 September 2018 to amend State Environmental Planning Policy (Sydney Region Growth Centres) 2006
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1.5 Development control plans

The *Huntingwood Precinct Development Control Plan 2011* outlines the provisions relating to development within the Huntingwood Precinct under *State Environmental Planning Policy (Western Sydney Employment Area*) 2009 (WSEA SEPP). The DCP was adopted by Blacktown City Council under delegation from the Director-General of the Department of Planning and Infrastructure on 10 August 2011 and came into force on 23 August 2011.

2. Zoning and land use under relevant environmental planning instruments

The following information will assist in determining how the subject land may be developed. It is recommended that you read this section in conjunction with a full copy of any relevant environmental planning instrument as there may be additional provisions that affect how the land may be developed.

2.1 Zoning

Under *State Environmental Planning Policy (Western Sydney Employment Area) 2009,* the land is zoned:

IN1 General Industrial

For information about the types of development that may or may not be carried out on the land, please refer to a full copy of the Environmental Planning Instrument identified above.

2.2 Minimum land dimensions for the erection of a dwelling house

Not applicable

2.3 Critical habitat

The land does not include or comprise a critical habitat.

Note: Critical habitat registers are kept by the National Parks and Wildlife Service under the *Threatened Species Conservation Act 1995* and the Department of Fisheries under the *Fisheries Management Act 1994*.

2.4 Conservation areas

The land is not within a conservation area.

2.5 Environmental Heritage

The land does not contain an item of environmental heritage under the protection of State Environmental Planning Policy (Western Sydney Employment Area) 2009

3. Complying development

Complying development may or may not be carried out on the subject land under an Environmental Planning Policy. Council does not have sufficient information to determine the extent to which specific complying development may or may not be carried out.

4. Coastal protection

The subject land is not affected by the operation of Sections 38 or 39 of the *Coastal Protection Act, 1979*.

5. Mine subsidence

The subject land has not been 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 subject land is not affected by road widening or road realignment under an environmental planning instrument.

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

7.1 Contaminated Lands Policy and Asbestos Policy Schedule 6

Council has adopted a Contaminated Lands Policy and an Asbestos Policy which may restrict development on the subject land.

The Land Contamination Policy applies when zoning or land use changes are proposed on land which has previously been used for certain purposes or has the potential to be affected by such purposes undertaken on nearby lands. The Asbestos Policy applies where land contains, or is likely to have contained in the past, buildings or structures that were erected prior to the banning of asbestos. Both policies should be considered in the context of relevant State legislation and guidelines.

Council's records may not be sufficient to determine all previous uses on the land, or determine activities that may have taken place on this land.

7.2 Other policies on hazard risk restrictions

Council has not adopted any other policies to restrict the development of the subject land by reason of the likelihood of landslip, bushfire, tidal inundation, subsidence or the occurrence of acid sulphate soils.

Note: Although Council has not adopted a specific policy to restrict development bushfire prone land, it is bound by state-wide bushfire legislation that may restrict development on the subject land. Additional information relating to bushfire prone land is provided at point 11 below.

7a. Flood related development controls information

The Flood Inundation maps prepared by Council are based on results of Engineering flood studies commissioned by Government authorities or Council. The information provided in this section is general advice based on Council's current adopted flood mapping. For more detailed flood information, please contact Council's Flooding Section and/or email Floodadvice@blacktown.nsw.gov.au

8. Land reserved for acquisition

State Environmental Planning Policy (Western Sydney Employment Area) 2009 makes provision for land included on the Land Reservation Acquisition Map to be acquired by a public authority.

9. Contributions plans

Council currently levies contributions under Section 7.11 of the *Environmental Planning & Assessment Act 1979* for facilities and services. The further development of the subject land may incur such contributions.

9a. Biodiversity certified land

The land is not biodiversity certified land as defined by Part 7AA of the *Threatened Species Conservation Act 1995*.

10. Biobanking agreements

The land is not subject to any biobanking agreement under Part 7A of the *Threatened Species Conservation Act 1995*.

11. Bushfire prone land

The Rural Fires and Environmental Assessment Legislation Amendment Act 2002, which came into force on 1 August 2002, introduced development provisions for bush fire prone land as shown on a Bush Fire Prone Land Map. "Bush fire prone land" is land that has been designated by the Commissioner of the NSW Rural Fire Service as being bush fire prone due to characteristics of vegetation and topography. The land the subject of this certificate has been identified on Council's Bush Fire Prone Land Map as being:

Clear of any bush fire prone land

On land that is bush fire prone, certain development may require further consideration under Section 4.14 or Section 4.46 of the *Environmental Planning & Assessment Act 1979* and under Section 100B of the *Rural Fires Act 1997*.

12. Property vegetation plans

The subject land is not affected by a property vegetation plan under the *Native Vegetation Act 2003*. The Blacktown local government area is excluded from the operation of the *Native Vegetation Act 2003* (refer Schedule 1 Part 3 of that Act).

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

No. Council has not been notified of any order made under the *Trees (Disputes Between Neighbours) Act 2006* in relation to the subject land.

14. Site compatibility certificates and conditions for seniors housing

Land to which this Certificate applies is not subject to the above.

15. Site compatibility certificates for infrastructure

Land to which this Certificate applies is not subject to the above.

16. Site compatibility certificates and conditions for affordable rental housing

Land to which this Certificate applies is not subject to the above.

17. Paper subdivision information

Not applicable

18. Site verification certificates

Council is not aware of any site verification certificate applying to the subject land.

Under the *Contaminated Land Management Act 1997* and *Contaminated Land Management Amendment Act 2008*

(a) The land to which this certificate relates has not been declared to be significantly contaminated land at the date when the certificate was issued

(b) The land to which the certificate relates is not subject to a management order at the date when the certificate was issued

(c) The land to which this certificate relates is not the subject of an approved voluntary management proposal at the date when the certificate was issued

(d) The land to which this certificate relates is not subject to an ongoing maintenance order as at the date when the certificate was issued

(e) The land to which this certificate relates is not the subject of a site audit statement provided to the Council.

19. Affected building notices and building product rectification orders

19.1 Affected building notices

Council is not aware of any affected building notice in force for the subject land.

19.2 Building product rectification orders

(a) Council is not aware of any building product rectification order in force for the subject land.

(b) Council is not aware of any notice of intention to make a building product rectification order being given for the subject land.

Section 10.7(5)

The following information is provided under Section 10.7(5) of the *Environmental Planning & Assessment Act 1979*. As per section 10.7(6) of the Act, Council shall not incur any liability in respect of any advice provided in good faith under section 10.7(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.

Planning Instruments and Covenants

The provisions of any covenant, agreement or instrument applying to this land that restrict or prohibit certain development may be inconsistent with the provisions of an environmental planning instrument. In such cases, the provisions of any such covenant, agreement or instrument may be overridden.

Loose-filled Asbestos Insulation

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

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

Contact NSW Fair Trading for further information

Biodiversity and Threatened Species Conservation

The land is affected by a tree preservation control under Clause 5.9 of the Blacktown Local Environmental Plan 2015. A person shall not ringbark, cut down, lop, top, remove, injure or wilfully destroy any tree, or cause any tree to be ringbarked, cut down, topped, lopped, injured or wilfully destroyed, except with the consent of the Council.

The provisions of any covenant, agreement or instrument applying to this land purporting to restrict or prohibit certain development may be inconsistent with the provisions of a Regional Environmental Plan, State Environmental Planning Policy or Blacktown Local Environmental Plan 2015, in which case the provisions of any such covenant, agreement or instrument may be overridden.

The *Threatened Species Conservation Act 1995* provides for the conservation of threatened species, populations and ecological communities of animals and plants.

The *Threatened Species Conservation Act 1995* amended the *Environmental Planning and Assessment Act 1979* to require, amongst other things, that:

(a) A critical habitat (as defined in the *Threatened Species Conservation Act 1995*) be identified in environmental planning instruments, and

(b) Consent authorities and determining authorities must, when considering proposed development or an activity, assess whether it is likely to significantly affect threatened species, populations and ecological communities, or their habitats, and, if a significant effect is likely, to require the preparation of a species impact statement in accordance with the requirements of the *Threatened Species Conservation Act 1995*, and

(c) Consent authorities and determining authorities must, when considering proposed development or an activity, have regard to the relevant recovery plans and threat abatement plans.

The *Environment Protection and Biodiversity Conservation Act 1999* provides protection for items of national significance. Items of national environmental significance include nationally threatened animal and plant species and ecological communities.

The Act requires a separate Commonwealth approval to be obtained where an action is likely to have significant impacts on items of national environmental significance.

For further information on this matter, please contact the Australian Government's Department of the Environment.

Attachment 1 – State Environmental Planning Policies

In addition to the principal environmental planning instrument identified in section 2.1 of this Certificate, the following State Environmental Planning Policies may also affect development on the subject land.

SEPP (Affordable Rental Housing) 2009

This policy aims to facilitate the increased supply and diversity of affordable rental and social housing in NSW and covers housing types including in-fill affordable housing, along with secondary dwellings (granny flats), boarding houses, group homes, social housing and supportive accommodation. Part 3 of the policy provides for the retention of existing affordable rental housing stock. Development applications to demolish, alter or add, change the use of, or strata subdivide existing low cost rental dwellings may require a contribution towards the provision of alternative affordable housing.

SEPP (Building Sustainability Index: BASIX) 2004

This policy aims to ensure consistency in the implementation of the BASIX scheme throughout the State by overriding provisions of other environmental planning instruments and development control plans that would otherwise add to, subtract from or modify any obligations arising under the BASIX scheme.

SEPP (Exempt and Complying Development Codes) 2008

This policy is also known as the Codes SEPP and includes a number of Codes that allow for certain types of development to be undertaken without the need for council approval as either Exempt Development or approved under a fast track system known as Complying Development, if the relevant standards are met.

SEPP (Sydney Region Growth Centres) 2006

This policy provides for the coordinated release of land for residential, employment and other urban development in the North West Growth Centre, the South West Growth Centre and the Wilton Growth Area. It provides development controls to enable the establishment of vibrant, sustainable and liveable neighbourhoods that provide for community well-being and high quality local amenity.

SEPP (Housing for Seniors or People with a Disability) 2004

This policy is also known as Seniors Housing SEPP and encourages the development of high quality and well-designed housing for older people and people with disabilities, while ensuring that it is in keeping with neighbourhood character. In October 2018, an amendment was made to change some

rules for site compatibility certificates and to make the relevant planning panel the determining authority for site compatibility certificates issued under the Seniors Housing SEPP.

SEPP (Infrastructure) 2007

This policy assists the NSW Government, private infrastructure providers, local councils and the communities they support by simplifying the process for providing infrastructure like hospitals, roads, railways, emergency services, water supply and electricity delivery, while ensuring appropriate levels of environmental assessment and consultation are undertaken. Recent changes introduce new provisions for correctional services, emergency and police services facilities and bushfire hazard reduction, ports and roads infrastructure, including facilities for electric vehicles, and other operational and housekeeping improvements.

SEPP (Miscellaneous Consent Provisions) 2007

This policy contains provisions for the erection of temporary structures, subdivision, the demolition of a building or work, certain change of use and fire alarm communication links.

SEPP (State Significant Precincts) 2005

The purpose of this Policy is to facilitate the development, redevelopment or protection of important urban, coastal and regional sites of economic, environmental or social significance to the State so as to facilitate the orderly use, development or conservation of those State significant precincts for the benefit of the State. It also aims to facilitate service delivery outcomes for a range of public services and to provide for the development of major sites for a public purpose or redevelopment of major sites no longer appropriate or suitable for public purposes.

SEPP (Mining, Petroleum Production and Extractive Industries) 2007

This policy is also known as the Mining SEPP and governs the way that mining, petroleum production and extractive material resource proposals are assessed and developed in NSW.

SEPP No 1 - Development Standards

This policy provides flexibility in the application of development standards and allows Council to approve a development that does not comply with a development standard where it can be shown that the development standard is unreasonable or unnecessary.

SEPP No 19 - Bushland in Urban Areas

This policy protects and preserves bushland within urban areas because of its natural heritage, its aesthetic value and its value for recreational, educational or scientific purposes. The policy aims to protect bushland areas in public open space zones and reservations and ensures that bushland

preservation is given priority when local environmental plans are prepared.

SEPP No 21 - Caravan Parks

This policy applies to development for the purpose of caravan parks and camping grounds. The policy ensures that development consent is required for new caravan parks and camping grounds and for additional long term sites in existing caravan parks. It also requires that development consent be obtained from Council for the subdivision of land for lease purposes under the Local Government Act.

SEPP No. 30 - Intensive Agriculture
Requires development consent for cattle feedlots having a capacity of 50 or more cattle or piggeries having a capacity of 200 or more pigs. The policy sets out information and public notification requirements to ensure there are effective planning control over this export-driven rural industry. The policy does not alter if, and where, such development is permitted, or the functions of the consent authority.

SEPP No. 32 - Urban Consolidation
States the Government's intention to ensure that urban consolidation objectives are met in all urban areas throughout the State. The policy focuses on the redevelopment of urban land that is no longer required for the purpose it is currently zoned or used, and encourages local councils to pursue their own urban consolidation strategies to help implement the aims and objectives of the policy. Councils will continue to be responsible for the majority of rezonings. The policy sets out guidelines for the Minister to follow when considering whether to initiate a regional environmental plan (REP) to make particular sites available for consolidated urban redevelopment. Where a site is rezoned by an REP, the Minister will be the consent authority.

SEPP No 33 - Hazardous and Offensive Development

This policy applies to development defined as ‘potentially hazardous industry’ or ‘potentially offensive industry’. The policy ensures that in determining whether a development is a hazardous or offensive industry, any measures proposed to be employed to reduce the impact of the development are taken into account.

SEPP No 55 - Remediation of Land

This policy promotes the remediation of contaminated land for the purpose of reducing risk of harm to human health. The policy includes considerations that are relevant in rezoning land and in determining development applications where remediation of land is required.

SEPP No. 62 - Sustainable Aquaculture
Encourages the sustainable expansion of the industry in NSW. The policy implements the regional strategies already developed by creating a simple approach to identity and categorise aquaculture development on the basis of its potential environmental impact. The SEPP also identifies aquaculture development as a designated development only where there are potential environmental risks.

SEPP No 64 - Advertising and Signage

This policy sets out planning controls for advertising and signage in NSW and requires signage to be compatible with the future character of an area, provide effective communication in suitable locations and be of high quality design and finish. The policy also bans advertisements on parked trailers on roads, road shoulders, footpaths and nature strips, excluding advertising associated with the primary use of the trailer.

SEPP No 65 - Design Quality of Residential Apartment Development

This policy aims to improve the design quality of residential apartment development through the application of 9 design quality principles. The policy also provides requirements for a constituted design review panel to provide independent expert advice to council on the merit of residential flat developments. A design review panel is not mandatory.

Sydney Regional Environmental Plan No 30 - St Marys

This plan provides the planning framework for the planning and development of land known as Australian Defence Industries (ADI) site at St Marys.

SEPP (Western Sydney Employment Area) 2009

This policy aims to protect and enhance land in the Western Sydney Employment Area for employment purposes and to promote economic development and the creations of employment opportunities in Western Sydney. The policy provides for a coordinated approach to the planning, development and rezoning of land within the Western Sydney Employment Area and includes controls to ensure that development occurs in a logical, environmentally sensitive and cost-effective manner.

SEPP (Western Sydney Parklands) 2009

This policy provides the framework to enable the Western Sydney Parklands Trust to develop the Western Parklands into a multi-use urban parkland to meet a range of community needs and interests, including those that promote health and well-being in the community for Western Sydney.

SEPP (Western Sydney Recreation Area)
This policy enables development to be carried out for recreational, sporting and cultural purposes within the Western Sydney Recreation Area, including the development of a recreation area of state significance.

Authorised by Blacktown City Council
Proforma ID: 1077696

End of Certificate

Applicant Details

Your reference P0036077

URBIS PTY LTD
123 ANGEL PLACE
SYDNEY NSW 2000

Certificate Details

Certificate no. PL2022/01175 **Fee: $133.00**

Date issued 31 January 2022 **Urgency fee: N/A**

Receipt no. ePay Ref 192972

Property information

Property ID 158470 **Land ID** 158473

Legal description LOT 185 DP 8716

Address FLUSHCOMBE ROAD BLACKTOWN NSW 2148

County CUMBERLAND **Parish** PROSPECT

PLANNING CERTIFICATE (Section 10.7(2 & 5))

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2.2 Minimum land dimensions for the erection of a dwelling house

Not applicable

2.3 Critical habitat

The land does not include or comprise a critical habitat.

Note: Critical habitat registers are kept by the National Parks and Wildlife Service under the *Threatened Species Conservation Act 1995* and the Department of Fisheries under the *Fisheries Management Act 1994*.

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The subject land is not affected by road widening or road realignment under an environmental planning instrument.

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

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Council has adopted a Contaminated Lands Policy and an Asbestos Policy which may restrict development on the subject land.

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Council has not adopted any other policies to restrict the development of the subject land by reason of the likelihood of landslip, bushfire, tidal inundation, subsidence or the occurrence of acid sulphate soils.

Note: Although Council has not adopted a specific policy to restrict development bushfire prone land, it is bound by state-wide bushfire legislation that may restrict development on the subject land. Additional information relating to bushfire prone land is provided at point 11 below.

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The Rural Fires and Environmental Assessment Legislation Amendment Act 2002, which came into force on 1 August 2002, introduced development provisions for bush fire prone land as shown on a Bush Fire Prone Land Map. "Bush fire prone land" is land that has been designated by the Commissioner of the NSW Rural Fire Service as being bush fire prone due to characteristics of vegetation and topography. The land the subject of this certificate has been identified on Council's Bush Fire Prone Land Map as being:

Clear of any bush fire prone land

On land that is bush fire prone, certain development may require further consideration under Section 4.14 or Section 4.46 of the *Environmental Planning & Assessment Act 1979* and under Section 100B of the *Rural Fires Act 1997*.

12. Property vegetation plans

The subject land is not affected by a property vegetation plan under the *Native Vegetation Act 2003*. The Blacktown local government area is excluded from the operation of the *Native Vegetation Act 2003* (refer Schedule 1 Part 3 of that Act).

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

No. Council has not been notified of any order made under the *Trees (Disputes Between Neighbours) Act 2006* in relation to the subject land.

14. Site compatibility certificates and conditions for seniors housing

Land to which this Certificate applies is not subject to the above.

15. Site compatibility certificates for infrastructure

Land to which this Certificate applies is not subject to the above.

16. Site compatibility certificates and conditions for affordable rental housing

Land to which this Certificate applies is not subject to the above.

17. Paper subdivision information

Not applicable

18. Site verification certificates

Council is not aware of any site verification certificate applying to the subject land.

Under the *Contaminated Land Management Act 1997* and *Contaminated Land Management Amendment Act 2008*

(a) The land to which this certificate relates has not been declared to be significantly contaminated land at the date when the certificate was issued

(b) The land to which the certificate relates is not subject to a management order at the date when the certificate was issued

(c) The land to which this certificate relates is not the subject of an approved voluntary management proposal at the date when the certificate was issued

(d) The land to which this certificate relates is not subject to an ongoing maintenance order as at the date when the certificate was issued

(e) The land to which this certificate relates is not the subject of a site audit statement provided to the Council.

19. Affected building notices and building product rectification orders

19.1 Affected building notices

Council is not aware of any affected building notice in force for the subject land.

19.2 Building product rectification orders

(a) Council is not aware of any building product rectification order in force for the subject land.

(b) Council is not aware of any notice of intention to make a building product rectification order being given for the subject land.

Section 10.7(5)

The following information is provided under Section 10.7(5) of the *Environmental Planning & Assessment Act 1979*. As per section 10.7(6) of the Act, Council shall not incur any liability in respect of any advice provided in good faith under section 10.7(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.

Planning Instruments and Covenants

The provisions of any covenant, agreement or instrument applying to this land that restrict or prohibit certain development may be inconsistent with the provisions of an environmental planning instrument. In such cases, the provisions of any such covenant, agreement or instrument may be overridden.

Loose-filled Asbestos Insulation

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

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

Contact NSW Fair Trading for further information

Biodiversity and Threatened Species Conservation

The land is affected by a tree preservation control under Clause 5.9 of the Blacktown Local Environmental Plan 2015. A person shall not ringbark, cut down, lop, top, remove, injure or wilfully destroy any tree, or cause any tree to be ringbarked, cut down, topped, lopped, injured or wilfully destroyed, except with the consent of the Council.

The provisions of any covenant, agreement or instrument applying to this land purporting to restrict or prohibit certain development may be inconsistent with the provisions of a Regional Environmental Plan, State Environmental Planning Policy or Blacktown Local Environmental Plan 2015, in which case the provisions of any such covenant, agreement or instrument may be overridden.

The *Threatened Species Conservation Act 1995* provides for the conservation of threatened species, populations and ecological communities of animals and plants.

The *Threatened Species Conservation Act 1995* amended the *Environmental Planning and Assessment Act 1979* to require, amongst other things, that:

(a) A critical habitat (as defined in the *Threatened Species Conservation Act 1995*) be identified in environmental planning instruments, and

(b) Consent authorities and determining authorities must, when considering proposed development or an activity, assess whether it is likely to significantly affect threatened species, populations and ecological communities, or their habitats, and, if a significant effect is likely, to require the preparation of a species impact statement in accordance with the requirements of the *Threatened Species Conservation Act 1995*, and

(c) Consent authorities and determining authorities must, when considering proposed development or an activity, have regard to the relevant recovery plans and threat abatement plans.

The *Environment Protection and Biodiversity Conservation Act 1999* provides protection for items of national significance. Items of national environmental significance include nationally threatened animal and plant species and ecological communities.

The Act requires a separate Commonwealth approval to be obtained where an action is likely to have significant impacts on items of national environmental significance.

For further information on this matter, please contact the Australian Government's Department of the Environment.

Attachment 1 – State Environmental Planning Policies

In addition to the principal environmental planning instrument identified in section 2.1 of this Certificate, the following State Environmental Planning Policies may also affect development on the subject land.

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The purpose of this Policy is to facilitate the development, redevelopment or protection of important urban, coastal and regional sites of economic, environmental or social significance to the State so as to facilitate the orderly use, development or conservation of those State significant precincts for the benefit of the State. It also aims to facilitate service delivery outcomes for a range of public services and to provide for the development of major sites for a public purpose or redevelopment of major sites no longer appropriate or suitable for public purposes.

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This policy protects and preserves bushland within urban areas because of its natural heritage, its aesthetic value and its value for recreational, educational or scientific purposes. The policy aims to protect bushland areas in public open space zones and reservations and ensures that bushland

preservation is given priority when local environmental plans are prepared.

SEPP No 21 - Caravan Parks

This policy applies to development for the purpose of caravan parks and camping grounds. The policy ensures that development consent is required for new caravan parks and camping grounds and for additional long term sites in existing caravan parks. It also requires that development consent be obtained from Council for the subdivision of land for lease purposes under the Local Government Act.

SEPP No. 30 - Intensive Agriculture
Requires development consent for cattle feedlots having a capacity of 50 or more cattle or piggeries having a capacity of 200 or more pigs. The policy sets out information and public notification requirements to ensure there are effective planning control over this export-driven rural industry. The policy does not alter if, and where, such development is permitted, or the functions of the consent authority.

SEPP No. 32 - Urban Consolidation
States the Government's intention to ensure that urban consolidation objectives are met in all urban areas throughout the State. The policy focuses on the redevelopment of urban land that is no longer required for the purpose it is currently zoned or used, and encourages local councils to pursue their own urban consolidation strategies to help implement the aims and objectives of the policy. Councils will continue to be responsible for the majority of rezonings. The policy sets out guidelines for the Minister to follow when considering whether to initiate a regional environmental plan (REP) to make particular sites available for consolidated urban redevelopment. Where a site is rezoned by an REP, the Minister will be the consent authority.

SEPP No 33 - Hazardous and Offensive Development

This policy applies to development defined as ‘potentially hazardous industry’ or ‘potentially offensive industry’. The policy ensures that in determining whether a development is a hazardous or offensive industry, any measures proposed to be employed to reduce the impact of the development are taken into account.

SEPP No 55 - Remediation of Land

This policy promotes the remediation of contaminated land for the purpose of reducing risk of harm to human health. The policy includes considerations that are relevant in rezoning land and in determining development applications where remediation of land is required.

SEPP No. 62 - Sustainable Aquaculture
Encourages the sustainable expansion of the industry in NSW. The policy implements the regional strategies already developed by creating a simple approach to identity and categorise aquaculture development on the basis of its potential environmental impact. The SEPP also identifies aquaculture development as a designated development only where there are potential environmental risks.

SEPP No 64 - Advertising and Signage

This policy sets out planning controls for advertising and signage in NSW and requires signage to be compatible with the future character of an area, provide effective communication in suitable locations and be of high quality design and finish. The policy also bans advertisements on parked trailers on roads, road shoulders, footpaths and nature strips, excluding advertising associated with the primary use of the trailer.

SEPP No 65 - Design Quality of Residential Apartment Development

This policy aims to improve the design quality of residential apartment development through the application of 9 design quality principles. The policy also provides requirements for a constituted design review panel to provide independent expert advice to council on the merit of residential flat developments. A design review panel is not mandatory.

Sydney Regional Environmental Plan No 30 - St Marys

This plan provides the planning framework for the planning and development of land known as Australian Defence Industries (ADI) site at St Marys.

SEPP (Western Sydney Employment Area) 2009

This policy aims to protect and enhance land in the Western Sydney Employment Area for employment purposes and to promote economic development and the creations of employment opportunities in Western Sydney. The policy provides for a coordinated approach to the planning, development and rezoning of land within the Western Sydney Employment Area and includes controls to ensure that development occurs in a logical, environmentally sensitive and cost-effective manner.

SEPP (Western Sydney Parklands) 2009

This policy provides the framework to enable the Western Sydney Parklands Trust to develop the Western Parklands into a multi-use urban parkland to meet a range of community needs and interests, including those that promote health and well-being in the community for Western Sydney.

SEPP (Western Sydney Recreation Area)
This policy enables development to be carried out for recreational, sporting and cultural purposes within the Western Sydney Recreation Area, including the development of a recreation area of state significance.

Authorised by Blacktown City Council
Proforma ID: 1077700

End of Certificate

Applicant Details

Your reference P0036077

URBIS PTY LTD
123 ANGEL PLACE
SYDNEY NSW 2000

Certificate Details

Certificate no. PL2022/01176 **Fee: $133.00**

Date issued 01 February 2022 **Urgency fee: N/A**

Receipt no. ePay Ref 192972

Property information

Property ID 158470 **Land ID** 158472

Legal description LOT 186 DP 8716

Address FLUSHCOMBE ROAD BLACKTOWN NSW 2148

County CUMBERLAND **Parish** PROSPECT

PLANNING CERTIFICATE (Section 10.7(2 & 5))

Blacktown City Council prepared this Planning Certificate under Section 10.7 of the *Environmental Planning and Assessment Act 1979*. The form and content of the Certificate is consistent with *Environmental Planning and Assessment Regulation 2000*.

Disclaimer

Blacktown City Council gives notice and points out to all users of the information supplied herein, that the information herein has been compiled by Council from sources outside of Council's control. While the information herein is provided with all due care and in good faith, it is provided on the basis that Council will not accept any responsibility for and will not be liable for its contents or for any consequence arising from its use, and every user of such information is advised to make all necessary enquiries from the appropriate organisations, institutions and the like.

Blacktown City Council also gives notice to all users of the information supplied herein, wherever any particular enquiry herein remains unanswered or has not been elaborated upon, such silence should not be interpreted as meaning or inferring either a negative or a positive response as the case may be.

Section 10.7(2)

The following information is provided under Section 10.7(2) of the *Environmental Planning and Assessment Act 1979*. The information relates to the subject land at the date of this Certificate.

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1. Names of relevant planning instruments and development control plans

1.1 Environmental Planning Instrument

As at the date of this certificate the abovementioned land is not affected by Blacktown Local Environmental Plan 2015.

The land is affected by the *State Environmental Planning Policy (Western Sydney Employment Area) 2009.*

1.2 Proposed Local Environmental Plans

On 16 August 2021, Council placed a housekeeping amendment Planning Proposal to amend Blacktown Local Environmental Plan 2015.

The proposal amends:

- Clause 4.1AA Minimum subdivision lot size for community title schemes, and Clause 4.1A Minimum subdivision lot size for strata plan schemes, to remove inconsistency with Clause 4.1(4) Minimum subdivision lot size,
- Clause 4.1 C relating to the subdivision of a lawfully erected dual occupancy development on a corner lot, by including an objective and clarifying what is defined as a corner lot, and
- Schedule 1 – Additional permitted uses to update the legal description of No 22 John Hines Avenue, Minchinbury

A copy of the Planning Proposal is available on the NSW Planning Portal: https://pp.planningportal.nsw.gov.au/ppr/pre-exhibition/housekeeping-amendment-no2-blacktown-local-environmental-plan-2015

1.3 Other Applicable State Environmental Planning Policies

Attachment 1 contains a list of State Environmental Planning Policies that may apply to the carrying out of development on the subject land.

1.4 Proposed State Environmental Planning Policies

The following draft State Environmental Planning Policies (SEPPs) or Explanation of Intended Effects (EIE) are currently on exhibition or have been exhibited. For further information refer to https://www.planningportal.nsw.gov.au/draftplans

- The draft State Environmental Planning Policy (Design and Place) 2021 and supporting guides were placed on exhibition on 10 December 2021. The draft State Environmental Planning Policy (Design and Place) 2021 will supersede the existing State Environmental Planning Policy No 65 – Design Quality of Residential Apartment Development, and State Environmental Planning Policy (Building Sustainability Index: BASIX) 2004, with relevant provisions transferred across.

- The NSW Department of Planning, Industry and Environment exhibited an Explanation of Intended Effect from 29 October 2021 to 30 November 2021 to amend State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 (Fun SEPP).

- The amendment proposes to support hospitality, events and arts industries through the use of exempt and complying development. For more information visit https://www.planningportal.nsw.gov.au/the-fun-SEPP

- The NSW Department of Planning, Industry and Environment exhibited an Explanation of Intended Effect from 31 March to 9 May 2021 to amend State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 (Building Business Back Better).

- The NSW Department of Planning, Industry and Environment exhibited an Explanation of Intended Effect between 31 March and 12 May 2021 to review Clause 4.6 of the Standard Instrument Local Environmental Plan

- The NSW Department of Planning, Industry and Environment exhibited an Explanation of Intended Effect from 2 March to 16 March 2020 to amend State Environmental Planning Policy (State and Regional Development) 2011 to facilitate the efficient delivery of upgrades to existing water treatment facilities in NSW

- The NSW Department of Planning, Industry and Environment exhibited and Explanation of Intended Effect from 20 November to 17 December 2020 to amend the Infrastructure SEPP related to health services facilities.

- The NSW Department of Planning, Industry and Environment exhibited and Explanation of Intended Effect from 20 November to 17 December 2020 to amend the State Environmental Planning Policy (Educational Establishments and Child Care Facilities) 2017

- The NSW Department of Planning, Industry and Environment exhibited and Explanation of Intended Effect from 26 August to 2 November 2020 to recommend the creation of a new State Environmental Planning Policy for strategic conservation planning

- The NSW Department of Planning, Industry and Environment exhibited a Flood Prone Land Package from the 30 April to 25 June 2020

- The NSW Department of Planning, Industry and Environment exhibited an Explanation of Intended Effect from 7 September to 28 September 2018 to amend State Environmental Planning Policy (Sydney Region Growth Centres) 2006
- The NSW Department of Planning, Industry and Environment exhibited an Explanation of Intended Effect between 31 October 2017 and 31 January 2018 for the proposed Environment SEPP.

1.5 Development control plans

The *Huntingwood Precinct Development Control Plan 2011* outlines the provisions relating to development within the Huntingwood Precinct under *State Environmental Planning Policy (Western Sydney Employment Area*) 2009 (WSEA SEPP). The DCP was adopted by Blacktown City Council under delegation from the Director-General of the Department of Planning and Infrastructure on 10 August 2011 and came into force on 23 August 2011.

2. Zoning and land use under relevant environmental planning instruments

The following information will assist in determining how the subject land may be developed. It is recommended that you read this section in conjunction with a full copy of any relevant environmental planning instrument as there may be additional provisions that affect how the land may be developed.

2.1 Zoning

Under *State Environmental Planning Policy (Western Sydney Employment Area) 2009,* the land is zoned:

IN1 General Industrial

For information about the types of development that may or may not be carried out on the land, please refer to a full copy of the Environmental Planning Instrument identified above.

2.2 Minimum land dimensions for the erection of a dwelling house

Not applicable

2.3 Critical habitat

The land does not include or comprise a critical habitat.

Note: Critical habitat registers are kept by the National Parks and Wildlife Service under the *Threatened Species Conservation Act 1995* and the Department of Fisheries under the *Fisheries Management Act 1994*.

2.4 Conservation areas

The land is not within a conservation area.

2.5 Environmental Heritage

The land does not contain an item of environmental heritage under the protection of State Environmental Planning Policy (Western Sydney Employment Area) 2009

3. Complying development

Complying development may or may not be carried out on the subject land under an Environmental Planning Policy. Council does not have sufficient information to determine the extent to which specific complying development may or may not be carried out.

4. Coastal protection

The subject land is not affected by the operation of Sections 38 or 39 of the *Coastal Protection Act, 1979*.

5. Mine subsidence

The subject land has not been 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 subject land is not affected by road widening or road realignment under an environmental planning instrument.

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

7.1 Contaminated Lands Policy and Asbestos Policy Schedule 6

Council has adopted a Contaminated Lands Policy and an Asbestos Policy which may restrict development on the subject land.

The Land Contamination Policy applies when zoning or land use changes are proposed on land which has previously been used for certain purposes or has the potential to be affected by such purposes undertaken on nearby lands. The Asbestos Policy applies where land contains, or is likely to have contained in the past, buildings or structures that were erected prior to the banning of asbestos. Both policies should be considered in the context of relevant State legislation and guidelines.

Council's records may not be sufficient to determine all previous uses on the land, or determine activities that may have taken place on this land.

7.2 Other policies on hazard risk restrictions

Council has not adopted any other policies to restrict the development of the subject land by reason of the likelihood of landslip, bushfire, tidal inundation, subsidence or the occurrence of acid sulphate soils.

Note: Although Council has not adopted a specific policy to restrict development bushfire prone land, it is bound by state-wide bushfire legislation that may restrict development on the subject land. Additional information relating to bushfire prone land is provided at point 11 below.

7a. Flood related development controls information

The Flood Inundation maps prepared by Council are based on results of Engineering flood studies commissioned by Government authorities or Council. The information provided in this section is general advice based on Council's current adopted flood mapping. For more detailed flood information, please contact Council's Flooding Section and/or email Floodadvice@blacktown.nsw.gov.au

8. Land reserved for acquisition

State Environmental Planning Policy (Western Sydney Employment Area) 2009 makes provision for land included on the Land Reservation Acquisition Map to be acquired by a public authority.

9. Contributions plans

Council currently levies contributions under Section 7.11 of the *Environmental Planning & Assessment Act 1979* for facilities and services. The further development of the subject land may incur such contributions.

9a. Biodiversity certified land

The land is not biodiversity certified land as defined by Part 7AA of the *Threatened Species Conservation Act 1995*.

10. Biobanking agreements

The land is not subject to any biobanking agreement under Part 7A of the *Threatened Species Conservation Act 1995*.

11. Bushfire prone land

The Rural Fires and Environmental Assessment Legislation Amendment Act 2002, which came into force on 1 August 2002, introduced development provisions for bush fire prone land as shown on a Bush Fire Prone Land Map. "Bush fire prone land" is land that has been designated by the Commissioner of the NSW Rural Fire Service as being bush fire prone due to characteristics of vegetation and topography. The land the subject of this certificate has been identified on Council's Bush Fire Prone Land Map as being:

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Land to which this Certificate applies is not subject to the above.

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Authorised by Blacktown City Council
Proforma ID: 1077899

End of Certificate

Applicant Details

Your reference P0036077

URBIS PTY LTD
123 ANGEL PLACE
SYDNEY NSW 2000

Certificate Details

Certificate no. PL2022/01177 **Fee: $133.00**

Date issued 01 February 2022 **Urgency fee: N/A**

Receipt no. ePay Ref 192972

Property information

Property ID 158495 **Land ID** 158495

Legal description LOT 183 DP 8716

Address 14 AUGUSTA STREET BLACKTOWN NSW 2148

County CUMBERLAND **Parish** PROSPECT

PLANNING CERTIFICATE (Section 10.7(2 & 5))

Blacktown City Council prepared this Planning Certificate under Section 10.7 of the *Environmental Planning and Assessment Act 1979*. The form and content of the Certificate is consistent with *Environmental Planning and Assessment Regulation 2000*.

Disclaimer

Blacktown City Council gives notice and points out to all users of the information supplied herein, that the information herein has been compiled by Council from sources outside of Council's control. While the information herein is provided with all due care and in good faith, it is provided on the basis that Council will not accept any responsibility for and will not be liable for its contents or for any consequence arising from its use, and every user of such information is advised to make all necessary enquiries from the appropriate organisations, institutions and the like.

Blacktown City Council also gives notice to all users of the information supplied herein, wherever any particular enquiry herein remains unanswered or has not been elaborated upon, such silence should not be interpreted as meaning or inferring either a negative or a positive response as the case may be.

Section 10.7(2)

The following information is provided under Section 10.7(2) of the *Environmental Planning and Assessment Act 1979*. The information relates to the subject land at the date of this Certificate.

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1. Names of relevant planning instruments and development control plans

1.1 Environmental Planning Instrument

As at the date of this certificate the abovementioned land is not affected by Blacktown Local Environmental Plan 2015.

The land is affected by the *State Environmental Planning Policy (Western Sydney Employment Area) 2009.*

1.2 Proposed Local Environmental Plans

On 16 August 2021, Council placed a housekeeping amendment Planning Proposal to amend Blacktown Local Environmental Plan 2015.

The proposal amends:

- Clause 4.1AA Minimum subdivision lot size for community title schemes, and Clause 4.1A Minimum subdivision lot size for strata plan schemes, to remove inconsistency with Clause 4.1(4) Minimum subdivision lot size,
- Clause 4.1 C relating to the subdivision of a lawfully erected dual occupancy development on a corner lot, by including an objective and clarifying what is defined as a corner lot, and
- Schedule 1 – Additional permitted uses to update the legal description of No 22 John Hines Avenue, Minchinbury

A copy of the Planning Proposal is available on the NSW Planning Portal: https://pp.planningportal.nsw.gov.au/ppr/pre-exhibition/housekeeping-amendment-no2-blacktown-local-environmental-plan-2015

1.3 Other Applicable State Environmental Planning Policies

Attachment 1 contains a list of State Environmental Planning Policies that may apply to the carrying out of development on the subject land.

1.4 Proposed State Environmental Planning Policies

The following draft State Environmental Planning Policies (SEPPs) or Explanation of Intended Effects (EIE) are currently on exhibition or have been exhibited. For further information refer to https://www.planningportal.nsw.gov.au/draftplans

- The draft State Environmental Planning Policy (Design and Place) 2021 and supporting guides were placed on exhibition on 10 December 2021. The draft State Environmental Planning Policy (Design and Place) 2021 will supersede the existing State Environmental Planning Policy No 65 – Design Quality of Residential Apartment Development, and State Environmental Planning Policy (Building Sustainability Index: BASIX) 2004, with relevant provisions transferred across.

- The NSW Department of Planning, Industry and Environment exhibited an Explanation of Intended Effect from 29 October 2021 to 30 November 2021 to amend State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 (Fun SEPP).

- The amendment proposes to support hospitality, events and arts industries through the use of exempt and complying development. For more information visit https://www.planningportal.nsw.gov.au/the-fun-SEPP

- The NSW Department of Planning, Industry and Environment exhibited an Explanation of Intended Effect from 31 March to 9 May 2021 to amend State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 (Building Business Back Better).

- The NSW Department of Planning, Industry and Environment exhibited an Explanation of Intended Effect between 31 March and 12 May 2021 to review Clause 4.6 of the Standard Instrument Local Environmental Plan

- The NSW Department of Planning, Industry and Environment exhibited an Explanation of Intended Effect from 2 March to 16 March 2020 to amend State Environmental Planning Policy (State and Regional Development) 2011 to facilitate the efficient delivery of upgrades to existing water treatment facilities in NSW

- The NSW Department of Planning, Industry and Environment exhibited and Explanation of Intended Effect from 20 November to 17 December 2020 to amend the Infrastructure SEPP related to health services facilities.

- The NSW Department of Planning, Industry and Environment exhibited and Explanation of Intended Effect from 20 November to 17 December 2020 to amend the State Environmental Planning Policy (Educational Establishments and Child Care Facilities) 2017

- The NSW Department of Planning, Industry and Environment exhibited and Explanation of Intended Effect from 26 August to 2 November 2020 to recommend the creation of a new State Environmental Planning Policy for strategic conservation planning

- The NSW Department of Planning, Industry and Environment exhibited a Flood Prone Land Package from the 30 April to 25 June 2020

- The NSW Department of Planning, Industry and Environment exhibited an Explanation of Intended Effect from 7 September to 28 September 2018 to amend State Environmental Planning Policy (Sydney Region Growth Centres) 2006
- The NSW Department of Planning, Industry and Environment exhibited an Explanation of Intended Effect between 31 October 2017 and 31 January 2018 for the proposed Environment SEPP.

1.5 Development control plans

The *Huntingwood Precinct Development Control Plan 2011* outlines the provisions relating to development within the Huntingwood Precinct under *State Environmental Planning Policy (Western Sydney Employment Area*) 2009 (WSEA SEPP). The DCP was adopted by Blacktown City Council under delegation from the Director-General of the Department of Planning and Infrastructure on 10 August 2011 and came into force on 23 August 2011.

2. Zoning and land use under relevant environmental planning instruments

The following information will assist in determining how the subject land may be developed. It is recommended that you read this section in conjunction with a full copy of any relevant environmental planning instrument as there may be additional provisions that affect how the land may be developed.

2.1 Zoning

Under *State Environmental Planning Policy (Western Sydney Employment Area) 2009,* the land is zoned:

IN1 General Industrial

For information about the types of development that may or may not be carried out on the land, please refer to a full copy of the Environmental Planning Instrument identified above.

2.2 Minimum land dimensions for the erection of a dwelling house

Not applicable

2.3 Critical habitat

The land does not include or comprise a critical habitat.

Note: Critical habitat registers are kept by the National Parks and Wildlife Service under the *Threatened Species Conservation Act 1995* and the Department of Fisheries under the *Fisheries Management Act 1994*.

2.4 Conservation areas

The land is not within a conservation area.

2.5 Environmental Heritage

The land does not contain an item of environmental heritage under the protection of State Environmental Planning Policy (Western Sydney Employment Area) 2009

3. Complying development

Complying development may or may not be carried out on the subject land under an Environmental Planning Policy. Council does not have sufficient information to determine the extent to which specific complying development may or may not be carried out.

4. Coastal protection

The subject land is not affected by the operation of Sections 38 or 39 of the *Coastal Protection Act, 1979*.

5. Mine subsidence

The subject land has not been 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 subject land is not affected by road widening or road realignment under an environmental planning instrument.

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

7.1 Contaminated Lands Policy and Asbestos Policy Schedule 6

Council has adopted a Contaminated Lands Policy and an Asbestos Policy which may restrict development on the subject land.

The Land Contamination Policy applies when zoning or land use changes are proposed on land which has previously been used for certain purposes or has the potential to be affected by such purposes undertaken on nearby lands. The Asbestos Policy applies where land contains, or is likely to have contained in the past, buildings or structures that were erected prior to the banning of asbestos. Both policies should be considered in the context of relevant State legislation and guidelines.

Council's records may not be sufficient to determine all previous uses on the land, or determine activities that may have taken place on this land.

7.2 Other policies on hazard risk restrictions

Council has not adopted any other policies to restrict the development of the subject land by reason of the likelihood of landslip, bushfire, tidal inundation, subsidence or the occurrence of acid sulphate soils.

Note: Although Council has not adopted a specific policy to restrict development bushfire prone land, it is bound by state-wide bushfire legislation that may restrict development on the subject land. Additional information relating to bushfire prone land is provided at point 11 below.

7a. Flood related development controls information

The Flood Inundation maps prepared by Council are based on results of Engineering flood studies commissioned by Government authorities or Council. The information provided in this section is general advice based on Council's current adopted flood mapping. For more detailed flood information, please contact Council's Flooding Section and/or email Floodadvice@blacktown.nsw.gov.au

8. Land reserved for acquisition

State Environmental Planning Policy (Western Sydney Employment Area) 2009 makes provision for land included on the Land Reservation Acquisition Map to be acquired by a public authority.

9. Contributions plans

Council currently levies contributions under Section 7.11 of the *Environmental Planning & Assessment Act 1979* for facilities and services. The further development of the subject land may incur such contributions.

9a. Biodiversity certified land

The land is not biodiversity certified land as defined by Part 7AA of the *Threatened Species Conservation Act 1995*.

10. Biobanking agreements

The land is not subject to any biobanking agreement under Part 7A of the *Threatened Species Conservation Act 1995*.

11. Bushfire prone land

The Rural Fires and Environmental Assessment Legislation Amendment Act 2002, which came into force on 1 August 2002, introduced development provisions for bush fire prone land as shown on a Bush Fire Prone Land Map. "Bush fire prone land" is land that has been designated by the Commissioner of the NSW Rural Fire Service as being bush fire prone due to characteristics of vegetation and topography. The land the subject of this certificate has been identified on Council's Bush Fire Prone Land Map as being:

Clear of any bush fire prone land

On land that is bush fire prone, certain development may require further consideration under Section 4.14 or Section 4.46 of the *Environmental Planning & Assessment Act 1979* and under Section 100B of the *Rural Fires Act 1997*.

12. Property vegetation plans

The subject land is not affected by a property vegetation plan under the *Native Vegetation Act 2003*. The Blacktown local government area is excluded from the operation of the *Native Vegetation Act 2003* (refer Schedule 1 Part 3 of that Act).

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

No. Council has not been notified of any order made under the *Trees (Disputes Between Neighbours) Act 2006* in relation to the subject land.

14. Site compatibility certificates and conditions for seniors housing

Land to which this Certificate applies is not subject to the above.

15. Site compatibility certificates for infrastructure

Land to which this Certificate applies is not subject to the above.

16. Site compatibility certificates and conditions for affordable rental housing

Land to which this Certificate applies is not subject to the above.

17. Paper subdivision information

Not applicable

18. Site verification certificates

Council is not aware of any site verification certificate applying to the subject land.

Under the *Contaminated Land Management Act 1997* and *Contaminated Land Management Amendment Act 2008*

(a) The land to which this certificate relates has not been declared to be significantly contaminated land at the date when the certificate was issued

(b) The land to which the certificate relates is not subject to a management order at the date when the certificate was issued

(c) The land to which this certificate relates is not the subject of an approved voluntary management proposal at the date when the certificate was issued

(d) The land to which this certificate relates is not subject to an ongoing maintenance order as at the date when the certificate was issued

(e) The land to which this certificate relates is not the subject of a site audit statement provided to the Council.

19. Affected building notices and building product rectification orders

19.1 Affected building notices

Council is not aware of any affected building notice in force for the subject land.

19.2 Building product rectification orders

(a) Council is not aware of any building product rectification order in force for the subject land.

(b) Council is not aware of any notice of intention to make a building product rectification order being given for the subject land.

Section 10.7(5)

The following information is provided under Section 10.7(5) of the *Environmental Planning & Assessment Act 1979*. As per section 10.7(6) of the Act, Council shall not incur any liability in respect of any advice provided in good faith under section 10.7(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.

Planning Instruments and Covenants

The provisions of any covenant, agreement or instrument applying to this land that restrict or prohibit certain development may be inconsistent with the provisions of an environmental planning instrument. In such cases, the provisions of any such covenant, agreement or instrument may be overridden.

Loose-filled Asbestos Insulation

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

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

Contact NSW Fair Trading for further information

Biodiversity and Threatened Species Conservation

The land is affected by a tree preservation control under Clause 5.9 of the Blacktown Local Environmental Plan 2015. A person shall not ringbark, cut down, lop, top, remove, injure or wilfully destroy any tree, or cause any tree to be ringbarked, cut down, topped, lopped, injured or wilfully destroyed, except with the consent of the Council.

The provisions of any covenant, agreement or instrument applying to this land purporting to restrict or prohibit certain development may be inconsistent with the provisions of a Regional Environmental Plan, State Environmental Planning Policy or Blacktown Local Environmental Plan 2015, in which case the provisions of any such covenant, agreement or instrument may be overridden.

The *Threatened Species Conservation Act 1995* provides for the conservation of threatened species, populations and ecological communities of animals and plants.

The *Threatened Species Conservation Act 1995* amended the *Environmental Planning and Assessment Act 1979* to require, amongst other things, that:

(a) A critical habitat (as defined in the *Threatened Species Conservation Act 1995*) be identified in environmental planning instruments, and

(b) Consent authorities and determining authorities must, when considering proposed development or an activity, assess whether it is likely to significantly affect threatened species, populations and ecological communities, or their habitats, and, if a significant effect is likely, to require the preparation of a species impact statement in accordance with the requirements of the *Threatened Species Conservation Act 1995*, and

(c) Consent authorities and determining authorities must, when considering proposed development or an activity, have regard to the relevant recovery plans and threat abatement plans.

The *Environment Protection and Biodiversity Conservation Act 1999* provides protection for items of national significance. Items of national environmental significance include nationally threatened animal and plant species and ecological communities.

The Act requires a separate Commonwealth approval to be obtained where an action is likely to have significant impacts on items of national environmental significance.

For further information on this matter, please contact the Australian Government's Department of the Environment.

Attachment 1 – State Environmental Planning Policies

In addition to the principal environmental planning instrument identified in section 2.1 of this Certificate, the following State Environmental Planning Policies may also affect development on the subject land.

SEPP (Affordable Rental Housing) 2009

This policy aims to facilitate the increased supply and diversity of affordable rental and social housing in NSW and covers housing types including in-fill affordable housing, along with secondary dwellings (granny flats), boarding houses, group homes, social housing and supportive accommodation. Part 3 of the policy provides for the retention of existing affordable rental housing stock. Development applications to demolish, alter or add, change the use of, or strata subdivide existing low cost rental dwellings may require a contribution towards the provision of alternative affordable housing.

SEPP (Building Sustainability Index: BASIX) 2004

This policy aims to ensure consistency in the implementation of the BASIX scheme throughout the State by overriding provisions of other environmental planning instruments and development control plans that would otherwise add to, subtract from or modify any obligations arising under the BASIX scheme.

SEPP (Exempt and Complying Development Codes) 2008

This policy is also known as the Codes SEPP and includes a number of Codes that allow for certain types of development to be undertaken without the need for council approval as either Exempt Development or approved under a fast track system known as Complying Development, if the relevant standards are met.

SEPP (Sydney Region Growth Centres) 2006

This policy provides for the coordinated release of land for residential, employment and other urban development in the North West Growth Centre, the South West Growth Centre and the Wilton Growth Area. It provides development controls to enable the establishment of vibrant, sustainable and liveable neighbourhoods that provide for community well-being and high quality local amenity.

SEPP (Housing for Seniors or People with a Disability) 2004

This policy is also known as Seniors Housing SEPP and encourages the development of high quality and well-designed housing for older people and people with disabilities, while ensuring that it is in keeping with neighbourhood character. In October 2018, an amendment was made to change some

rules for site compatibility certificates and to make the relevant planning panel the determining authority for site compatibility certificates issued under the Seniors Housing SEPP.

SEPP (Infrastructure) 2007

This policy assists the NSW Government, private infrastructure providers, local councils and the communities they support by simplifying the process for providing infrastructure like hospitals, roads, railways, emergency services, water supply and electricity delivery, while ensuring appropriate levels of environmental assessment and consultation are undertaken. Recent changes introduce new provisions for correctional services, emergency and police services facilities and bushfire hazard reduction, ports and roads infrastructure, including facilities for electric vehicles, and other operational and housekeeping improvements.

SEPP (Miscellaneous Consent Provisions) 2007

This policy contains provisions for the erection of temporary structures, subdivision, the demolition of a building or work, certain change of use and fire alarm communication links.

SEPP (State Significant Precincts) 2005

The purpose of this Policy is to facilitate the development, redevelopment or protection of important urban, coastal and regional sites of economic, environmental or social significance to the State so as to facilitate the orderly use, development or conservation of those State significant precincts for the benefit of the State. It also aims to facilitate service delivery outcomes for a range of public services and to provide for the development of major sites for a public purpose or redevelopment of major sites no longer appropriate or suitable for public purposes.

SEPP (Mining, Petroleum Production and Extractive Industries) 2007

This policy is also known as the Mining SEPP and governs the way that mining, petroleum production and extractive material resource proposals are assessed and developed in NSW.

SEPP No 1 - Development Standards

This policy provides flexibility in the application of development standards and allows Council to approve a development that does not comply with a development standard where it can be shown that the development standard is unreasonable or unnecessary.

SEPP No 19 - Bushland in Urban Areas

This policy protects and preserves bushland within urban areas because of its natural heritage, its aesthetic value and its value for recreational, educational or scientific purposes. The policy aims to protect bushland areas in public open space zones and reservations and ensures that bushland

preservation is given priority when local environmental plans are prepared.

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Authorised by Blacktown City Council
Proforma ID: 1077900

End of Certificate

Appendix E EPA Searches

Number	Name	Location	Type	Status	Issued date
1603253		9 Bessemer Street, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	27-Nov-20
7030	AAB HOLDINGS PTY LIMITED	1A BESSEMER STREET - BUILDING 'B', BLACKTOWN, NSW 2148	POEO licence	No longer in force	16-Nov-00
1044177	AAB HOLDINGS PTY LIMITED	1A BESSEMER STREET - BUILDING 'B', BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	8-Feb-05
11875	ACCIONA INFRASTRUCTURE PROJECTS AUSTRALIA PTY LTD	FROM CONNECTION WITH M5 AT CAMDEN VALLEY WAY TO CONNECTION WITH M2 AT BAULKHAM HILLS, BLACKTOWN, NSW 2148	POEO licence	Surrendered	10-Apr-03
1026877	ACCIONA INFRASTRUCTURE PROJECTS AUSTRALIA PTY LTD	FROM CONNECTION WITH M5 AT CAMDEN VALLEY WAY TO CONNECTION WITH M2 AT BAULKHAM HILLS, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	28-Apr-03
1027013	ACCIONA INFRASTRUCTURE PROJECTS AUSTRALIA PTY LTD	FROM CONNECTION WITH M5 AT CAMDEN VALLEY WAY TO CONNECTION WITH M2 AT BAULKHAM HILLS, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	7-May-03
1027878	ACCIONA INFRASTRUCTURE PROJECTS AUSTRALIA PTY LTD	FROM CONNECTION WITH M5 AT CAMDEN VALLEY WAY TO CONNECTION WITH M2 AT BAULKHAM HILLS, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	16-Jun-03
1028538	ACCIONA INFRASTRUCTURE PROJECTS AUSTRALIA PTY LTD	FROM CONNECTION WITH M5 AT CAMDEN VALLEY WAY TO CONNECTION WITH M2 AT BAULKHAM HILLS, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	3-Jul-03
1029183	ACCIONA INFRASTRUCTURE PROJECTS AUSTRALIA PTY LTD	FROM CONNECTION WITH M5 AT CAMDEN VALLEY WAY TO CONNECTION WITH M2 AT BAULKHAM HILLS, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	17-Jul-03
1029323	ACCIONA INFRASTRUCTURE PROJECTS AUSTRALIA PTY LTD	FROM CONNECTION WITH M5 AT CAMDEN VALLEY WAY TO CONNECTION WITH M2 AT BAULKHAM HILLS, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	22-Jul-03
1030146	ACCIONA INFRASTRUCTURE PROJECTS AUSTRALIA PTY LTD	FROM CONNECTION WITH M5 AT CAMDEN VALLEY WAY TO CONNECTION WITH M2 AT BAULKHAM HILLS, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	1-Sep-03
1031401	ACCIONA INFRASTRUCTURE PROJECTS AUSTRALIA PTY LTD	FROM CONNECTION WITH M5 AT CAMDEN VALLEY WAY TO CONNECTION WITH M2 AT BAULKHAM HILLS, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	30-Sep-03
1031609	ACCIONA INFRASTRUCTURE PROJECTS AUSTRALIA PTY LTD	FROM CONNECTION WITH M5 AT CAMDEN VALLEY WAY TO CONNECTION WITH M2 AT BAULKHAM HILLS, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	10-Oct-03
1031731	ACCIONA INFRASTRUCTURE PROJECTS AUSTRALIA PTY LTD	FROM CONNECTION WITH M5 AT CAMDEN VALLEY WAY TO CONNECTION WITH M2 AT BAULKHAM HILLS, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	15-Oct-03
1032452	ACCIONA INFRASTRUCTURE PROJECTS AUSTRALIA PTY LTD	FROM CONNECTION WITH M5 AT CAMDEN VALLEY WAY TO CONNECTION WITH M2 AT BAULKHAM HILLS, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	27-Nov-03
1032915	ACCIONA INFRASTRUCTURE PROJECTS AUSTRALIA PTY LTD	FROM CONNECTION WITH M5 AT CAMDEN VALLEY WAY TO CONNECTION WITH M2 AT BAULKHAM HILLS, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	8-Dec-03
1033263	ACCIONA INFRASTRUCTURE PROJECTS AUSTRALIA PTY LTD	FROM CONNECTION WITH M5 AT CAMDEN VALLEY WAY TO CONNECTION WITH M2 AT BAULKHAM HILLS, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	16-Dec-03
1033375	ACCIONA INFRASTRUCTURE PROJECTS AUSTRALIA PTY LTD	FROM CONNECTION WITH M5 AT CAMDEN VALLEY WAY TO CONNECTION WITH M2 AT BAULKHAM HILLS, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	19-Dec-03
1034385	ACCIONA INFRASTRUCTURE PROJECTS AUSTRALIA PTY LTD	FROM CONNECTION WITH M5 AT CAMDEN VALLEY WAY TO CONNECTION WITH M2 AT BAULKHAM HILLS, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	5-Feb-04

1034551	ACCIONA INFRASTRUCTURE PROJECTS AUSTRALIA PTY LTD	FROM CONNECTION WITH M5 AT CAMDEN VALLEY WAY TO CONNECTION WITH M2 AT BAULKHAM HILLS, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	13-Feb-04
1034668	ACCIONA INFRASTRUCTURE PROJECTS AUSTRALIA PTY LTD	FROM CONNECTION WITH M5 AT CAMDEN VALLEY WAY TO CONNECTION WITH M2 AT BAULKHAM HILLS, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	25-Feb-04
1035070	ACCIONA INFRASTRUCTURE PROJECTS AUSTRALIA PTY LTD	FROM CONNECTION WITH M5 AT CAMDEN VALLEY WAY TO CONNECTION WITH M2 AT BAULKHAM HILLS, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	5-Mar-04
1035691	ACCIONA INFRASTRUCTURE PROJECTS AUSTRALIA PTY LTD	FROM CONNECTION WITH M5 AT CAMDEN VALLEY WAY TO CONNECTION WITH M2 AT BAULKHAM HILLS, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	26-Mar-04
1035966	ACCIONA INFRASTRUCTURE PROJECTS AUSTRALIA PTY LTD	FROM CONNECTION WITH M5 AT CAMDEN VALLEY WAY TO CONNECTION WITH M2 AT BAULKHAM HILLS, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	6-Apr-04
1036176	ACCIONA INFRASTRUCTURE PROJECTS AUSTRALIA PTY LTD	FROM CONNECTION WITH M5 AT CAMDEN VALLEY WAY TO CONNECTION WITH M2 AT BAULKHAM HILLS, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	4-May-04
1037125	ACCIONA INFRASTRUCTURE PROJECTS AUSTRALIA PTY LTD	FROM CONNECTION WITH M5 AT CAMDEN VALLEY WAY TO CONNECTION WITH M2 AT BAULKHAM HILLS, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	27-May-04
1037848	ACCIONA INFRASTRUCTURE PROJECTS AUSTRALIA PTY LTD	FROM CONNECTION WITH M5 AT CAMDEN VALLEY WAY TO CONNECTION WITH M2 AT BAULKHAM HILLS, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	11-Jun-04
1038049	ACCIONA INFRASTRUCTURE PROJECTS AUSTRALIA PTY LTD	FROM CONNECTION WITH M5 AT CAMDEN VALLEY WAY TO CONNECTION WITH M2 AT BAULKHAM HILLS, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	21-Jun-04
1038257	ACCIONA INFRASTRUCTURE PROJECTS AUSTRALIA PTY LTD	FROM CONNECTION WITH M5 AT CAMDEN VALLEY WAY TO CONNECTION WITH M2 AT BAULKHAM HILLS, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	24-Jun-04
1038701	ACCIONA INFRASTRUCTURE PROJECTS AUSTRALIA PTY LTD	FROM CONNECTION WITH M5 AT CAMDEN VALLEY WAY TO CONNECTION WITH M2 AT BAULKHAM HILLS, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	2-Jul-04
1038953	ACCIONA INFRASTRUCTURE PROJECTS AUSTRALIA PTY LTD	FROM CONNECTION WITH M5 AT CAMDEN VALLEY WAY TO CONNECTION WITH M2 AT BAULKHAM HILLS, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	14-Jul-04
1039025	ACCIONA INFRASTRUCTURE PROJECTS AUSTRALIA PTY LTD	FROM CONNECTION WITH M5 AT CAMDEN VALLEY WAY TO CONNECTION WITH M2 AT BAULKHAM HILLS, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	20-Jul-04
1039429	ACCIONA INFRASTRUCTURE PROJECTS AUSTRALIA PTY LTD	FROM CONNECTION WITH M5 AT CAMDEN VALLEY WAY TO CONNECTION WITH M2 AT BAULKHAM HILLS, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	3-Aug-04
1039597	ACCIONA INFRASTRUCTURE PROJECTS AUSTRALIA PTY LTD	FROM CONNECTION WITH M5 AT CAMDEN VALLEY WAY TO CONNECTION WITH M2 AT BAULKHAM HILLS, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	6-Aug-04
1039910	ACCIONA INFRASTRUCTURE PROJECTS AUSTRALIA PTY LTD	FROM CONNECTION WITH M5 AT CAMDEN VALLEY WAY TO CONNECTION WITH M2 AT BAULKHAM HILLS, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	16-Aug-04
1040169	ACCIONA INFRASTRUCTURE PROJECTS AUSTRALIA PTY LTD	FROM CONNECTION WITH M5 AT CAMDEN VALLEY WAY TO CONNECTION WITH M2 AT BAULKHAM HILLS, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	2-Sep-04

1040545	ACCIONA INFRASTRUCTURE PROJECTS AUSTRALIA PTY LTD	FROM CONNECTION WITH M5 AT CAMDEN VALLEY WAY TO CONNECTION WITH M2 AT BAULKHAM HILLS, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	10-Sep-04
1040722	ACCIONA INFRASTRUCTURE PROJECTS AUSTRALIA PTY LTD	FROM CONNECTION WITH M5 AT CAMDEN VALLEY WAY TO CONNECTION WITH M2 AT BAULKHAM HILLS, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	24-Sep-04
1041089	ACCIONA INFRASTRUCTURE PROJECTS AUSTRALIA PTY LTD	FROM CONNECTION WITH M5 AT CAMDEN VALLEY WAY TO CONNECTION WITH M2 AT BAULKHAM HILLS, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	1-Oct-04
1041907	ACCIONA INFRASTRUCTURE PROJECTS AUSTRALIA PTY LTD	FROM CONNECTION WITH M5 AT CAMDEN VALLEY WAY TO CONNECTION WITH M2 AT BAULKHAM HILLS, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	9-Nov-04
1042347	ACCIONA INFRASTRUCTURE PROJECTS AUSTRALIA PTY LTD	FROM CONNECTION WITH M5 AT CAMDEN VALLEY WAY TO CONNECTION WITH M2 AT BAULKHAM HILLS, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	18-Nov-04
1043230	ACCIONA INFRASTRUCTURE PROJECTS AUSTRALIA PTY LTD	FROM CONNECTION WITH M5 AT CAMDEN VALLEY WAY TO CONNECTION WITH M2 AT BAULKHAM HILLS, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	20-Dec-04
1043356	ACCIONA INFRASTRUCTURE PROJECTS AUSTRALIA PTY LTD	FROM CONNECTION WITH M5 AT CAMDEN VALLEY WAY TO CONNECTION WITH M2 AT BAULKHAM HILLS, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	14-Jan-05
1044581	ACCIONA INFRASTRUCTURE PROJECTS AUSTRALIA PTY LTD	FROM CONNECTION WITH M5 AT CAMDEN VALLEY WAY TO CONNECTION WITH M2 AT BAULKHAM HILLS, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	17-Feb-05
1044942	ACCIONA INFRASTRUCTURE PROJECTS AUSTRALIA PTY LTD	FROM CONNECTION WITH M5 AT CAMDEN VALLEY WAY TO CONNECTION WITH M2 AT BAULKHAM HILLS, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	1-Mar-05
1045027	ACCIONA INFRASTRUCTURE PROJECTS AUSTRALIA PTY LTD	FROM CONNECTION WITH M5 AT CAMDEN VALLEY WAY TO CONNECTION WITH M2 AT BAULKHAM HILLS, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	3-Mar-05
1046060	ACCIONA INFRASTRUCTURE PROJECTS AUSTRALIA PTY LTD	FROM CONNECTION WITH M5 AT CAMDEN VALLEY WAY TO CONNECTION WITH M2 AT BAULKHAM HILLS, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	30-Mar-05
1046491	ACCIONA INFRASTRUCTURE PROJECTS AUSTRALIA PTY LTD	FROM CONNECTION WITH M5 AT CAMDEN VALLEY WAY TO CONNECTION WITH M2 AT BAULKHAM HILLS, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	15-Apr-05
1047273	ACCIONA INFRASTRUCTURE PROJECTS AUSTRALIA PTY LTD	FROM CONNECTION WITH M5 AT CAMDEN VALLEY WAY TO CONNECTION WITH M2 AT BAULKHAM HILLS, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	6-May-05
1047725	ACCIONA INFRASTRUCTURE PROJECTS AUSTRALIA PTY LTD	FROM CONNECTION WITH M5 AT CAMDEN VALLEY WAY TO CONNECTION WITH M2 AT BAULKHAM HILLS, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	1-Jun-05
1048606	ACCIONA INFRASTRUCTURE PROJECTS AUSTRALIA PTY LTD	FROM CONNECTION WITH M5 AT CAMDEN VALLEY WAY TO CONNECTION WITH M2 AT BAULKHAM HILLS, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	16-Jun-05
1049696	ACCIONA INFRASTRUCTURE PROJECTS AUSTRALIA PTY LTD	FROM CONNECTION WITH M5 AT CAMDEN VALLEY WAY TO CONNECTION WITH M2 AT BAULKHAM HILLS, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	14-Jul-05
1050193	ACCIONA INFRASTRUCTURE PROJECTS AUSTRALIA PTY LTD	FROM CONNECTION WITH M5 AT CAMDEN VALLEY WAY TO CONNECTION WITH M2 AT BAULKHAM HILLS, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	8-Aug-05

1050659	ACCIONA INFRASTRUCTURE PROJECTS AUSTRALIA PTY LTD	FROM CONNECTION WITH M5 AT CAMDEN VALLEY WAY TO CONNECTION WITH M2 AT BAULKHAM HILLS, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	10-Aug-05
1050951	ACCIONA INFRASTRUCTURE PROJECTS AUSTRALIA PTY LTD	FROM CONNECTION WITH M5 AT CAMDEN VALLEY WAY TO CONNECTION WITH M2 AT BAULKHAM HILLS, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	6-Sep-05
1053100	ACCIONA INFRASTRUCTURE PROJECTS AUSTRALIA PTY LTD	FROM CONNECTION WITH M5 AT CAMDEN VALLEY WAY TO CONNECTION WITH M2 AT BAULKHAM HILLS, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	21-Nov-05
1053958	ACCIONA INFRASTRUCTURE PROJECTS AUSTRALIA PTY LTD	FROM CONNECTION WITH M5 AT CAMDEN VALLEY WAY TO CONNECTION WITH M2 AT BAULKHAM HILLS, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	7-Dec-05
1054427	ACCIONA INFRASTRUCTURE PROJECTS AUSTRALIA PTY LTD	FROM CONNECTION WITH M5 AT CAMDEN VALLEY WAY TO CONNECTION WITH M2 AT BAULKHAM HILLS, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	14-Dec-05
1060875	ACCIONA INFRASTRUCTURE PROJECTS AUSTRALIA PTY LTD	FROM CONNECTION WITH M5 AT CAMDEN VALLEY WAY TO CONNECTION WITH M2 AT BAULKHAM HILLS, BLACKTOWN, NSW 2148	s.80 Surrender of a Licence	Issued	25-May-06
4248	ASHLAR GOLF CLUB LTD	SPRINGFIELD AVE, BLACKTOWN, NSW 2148	POEO licence	Surrendered	13-Jul-00
1015003	ASHLAR GOLF CLUB LTD	SPRINGFIELD AVE, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	14-Feb-02
1022249	ASHLAR GOLF CLUB LTD	SPRINGFIELD AVE, BLACKTOWN, NSW 2148	s.80 Surrender of a Licence	Issued	11-Nov-02
6197	BLACKTOWN CUSTOM PACKERS PTY LIMITED	3-5 ROMFORD ROAD, BLACKTOWN, NSW 2148	POEO licence	Surrendered	30-May-00
1032991	BLACKTOWN CUSTOM PACKERS PTY LIMITED	3-5 ROMFORD ROAD, BLACKTOWN, NSW 2148	s.80 Surrender of a Licence	Issued	5-Dec-03
1182	BORAL RESOURCES (NSW) PTY LTD	FOURTH AVE, BLACKTOWN, NSW 2148	POEO licence	No longer in force	22-Aug-00
1015819	BORAL RESOURCES (NSW) PTY LTD	FOURTH AVE, BLACKTOWN, NSW 2148	s.91 Clean Up Notice	Issued	15-Mar-02
21244	CLEANAWAY PTY LTD	9 Bessemer Street, BLACKTOWN, NSW 2148	POEO licence	Issued	18-Feb-20
1612905	CLEANAWAY PTY LTD	9 Bessemer Street, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	18-Oct-21
7404	HANS CONTINENTAL SMALL GOODS PTY LTD C/- KORDAMENTHA	25 BESSEMER STREET, BLACKTOWN, NSW 2148	POEO licence	Surrendered	26-Jul-00
1055875	HANS CONTINENTAL SMALL GOODS PTY LTD C/- KORDAMENTHA	25 BESSEMER STREET, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	3-Apr-06
1107820	HANS CONTINENTAL SMALL GOODS PTY LTD C/- KORDAMENTHA	25 BESSEMER STREET, BLACKTOWN, NSW 2148	s.80 Surrender of a Licence	Issued	20-Oct-09
7682	HOWDEN BLOWER COMPANY PTY LTD	20 CHICAGO AVE, BLACKTOWN, NSW 2148	POEO licence	Surrendered	27-Jun-00
1014473	HOWDEN BLOWER COMPANY PTY LTD	20 CHICAGO AVE, BLACKTOWN, NSW 2148	s.80 Surrender of a Licence	Issued	23-Jan-02
1013854	JBS AUSTRALIA PTY LIMITED	11 BESSEMER ST, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	7-Feb-02
20913	JOHN HOLLAND PTY LTD	Blacktown Railway, BLACKTOWN, NSW 2148	POEO licence	Surrendered	20-Apr-17
1566844	JOHN HOLLAND PTY LTD	Blacktown Railway, BLACKTOWN, NSW 2148	s.80 Surrender of a Licence	Issued	1-Aug-18
5960	KACKELL PTY. LTD.	110 SUNNYHOLT ROAD, BLACKTOWN, NSW 2148	POEO licence	No longer in force	22-Dec-99
1044344	KACKELL PTY. LTD.	110 SUNNYHOLT ROAD, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	8-Feb-05
10674	ORLC 92 PTY LTD	14 Augusta Street, BLACKTOWN, NSW 2148	POEO licence	Surrendered	26-Jun-00
1007564	ORLC 92 PTY LTD	14 Augusta Street, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	30-Oct-01
1007566	ORLC 92 PTY LTD	421-427 FLUSHCOMBE ROAD, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	30-Oct-01
1031406	ORLC 92 PTY LTD	421-427 FLUSHCOMBE ROAD, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	11-Nov-03
1077369	ORLC 92 PTY LTD	421-427 FLUSHCOMBE ROAD, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	5-Sep-07

1078918	ORLC 92 PTY LTD	14 Augusta Street, BLACKTOWN, NSW 2148	s.80 Surrender of a Licence	Issued	11-Oct-07
1527496	ORLC 92 PTY LTD	421-427 FLUSHCOMBE ROAD, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	9-Mar-15
1535768	ORLC 92 PTY LTD	421-427 FLUSHCOMBE ROAD, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	8-Dec-15
1538555	ORLC 92 PTY LTD	421-427 FLUSHCOMBE ROAD, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	1-Mar-16
1540973	ORLC 92 PTY LTD	421-427 FLUSHCOMBE ROAD, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	6-Jun-16
1545327	ORLC 92 PTY LTD	421-427 FLUSHCOMBE ROAD, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	10-Aug-17
7005	OSI INTERNATIONAL FOODS (AUSTRALIA) PTY LIMITED	11 BESSEMER ST, BLACKTOWN, NSW 2148	POEO licence	Surrendered	26-Jun-00
1012874	OSI INTERNATIONAL FOODS (AUSTRALIA) PTY LIMITED	25 BESSEMER STREET, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	23-Jan-02
1525374	OSI INTERNATIONAL FOODS (AUSTRALIA) PTY LIMITED	11 BESSEMER ST, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	14-Oct-14
3085779712	OSI INTERNATIONAL FOODS (AUSTRALIA) PTY LIMITED	11 BESSEMER ST, BLACKTOWN, NSW 2148	Penalty Notice	Issued	29-Jun-16
3173525695	OSI INTERNATIONAL FOODS (AUSTRALIA) PTY LIMITED	11 BESSEMER ST, BLACKTOWN, NSW 2148	Penalty Notice	Issued	28-May-18
1585527	OSI INTERNATIONAL FOODS (AUSTRALIA) PTY LIMITED	11 BESSEMER ST, BLACKTOWN, NSW 2148	s.80 Surrender of a Licence	Issued	2-Oct-19
5069	Red Lea Chickens Pty Ltd	421-427 FLUSHCOMBE ROAD, BLACKTOWN, NSW 2148	POEO licence	Revoked	24-Aug-00
1559965	Red Lea Chickens Pty Ltd	421-427 FLUSHCOMBE ROAD, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	24-Jan-18
1574597	Red Lea Chickens Pty Ltd	421-427 FLUSHCOMBE ROAD, BLACKTOWN, NSW 2148	s.79 Revocation of a Licence	Issued	3-Sep-19
21243	SNACK BRANDS INDUSTRIES PTY LTD	30 BESSEMER STREET, BLACKTOWN, NSW 2148	POEO licence	Issued	28-Jan-21
6987	SYDNEY WEST AREA HEALTH SERVICE	BLACKTOWN ROAD, BLACKTOWN, NSW 2148	POEO licence	No longer in force	15-Aug-00
1041629	SYDNEY WEST AREA HEALTH SERVICE	BLACKTOWN ROAD, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	20-Oct-04
1270	VALSPAR PAINT (AUSTRALIA) PTY LIMITED	4 STEEL STREET, BLACKTOWN, NSW 2148	POEO licence	Surrendered	28-Jun-00
1015843	VALSPAR PAINT (AUSTRALIA) PTY LIMITED	4 STEEL STREET, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	19-Nov-03
1057365	VALSPAR PAINT (AUSTRALIA) PTY LIMITED	4 STEEL STREET, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	7-Apr-06
1072475	VALSPAR PAINT (AUSTRALIA) PTY LIMITED	4 STEEL STREET, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	31-Aug-07
1093661	VALSPAR PAINT (AUSTRALIA) PTY LIMITED	4 STEEL STREET, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	15-Dec-08
1097487	VALSPAR PAINT (AUSTRALIA) PTY LIMITED	4 STEEL STREET, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	5-Feb-09
1106310	VALSPAR PAINT (AUSTRALIA) PTY LIMITED	4 STEEL STREET, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	2-Mar-10
1524616	VALSPAR PAINT (AUSTRALIA) PTY LIMITED	4 STEEL STREET, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	17-Oct-14
1529984	VALSPAR PAINT (AUSTRALIA) PTY LIMITED	4 STEEL STREET, BLACKTOWN, NSW 2148	s.80 Surrender of a Licence	Issued	6-May-15
5157	VISY PAPER PTY LIMITED	9 BESSEMER STREET, BLACKTOWN, NSW 2148	POEO licence	Surrendered	11-Jul-00
1021922	VISY PAPER PTY LIMITED	9 BESSEMER STREET, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	9-Jan-03
1095617	VISY PAPER PTY LIMITED	9 BESSEMER STREET, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	19-Dec-08
1117210	VISY PAPER PTY LIMITED	9 BESSEMER STREET, BLACKTOWN, NSW 2148	s.80 Surrender of a Licence	Issued	13-Jul-10
1019125	WESTERN SYDNEY AREA HEALTH SERVICE	BLACKTOWN ROAD, BLACKTOWN, NSW 2148	s.58 Licence Variation	Issued	25-Jul-02

Number	Name	Location	Type	Status	Issued date
4664	AUSTRAL MASONRY (NSW) PTY LTD	CLUNIES ROSS STREET, PROSPECT, NSW 2148	POEO licence	Surrendered	9-Jun-00
1534725	AUSTRAL MASONRY (NSW) PTY LTD	CLUNIES ROSS STREET, PROSPECT, NSW 2148	s.58 Licence Variation	Issued	15-Oct-15
1534773	AUSTRAL MASONRY (NSW) PTY LTD	CLUNIES ROSS STREET, PROSPECT, NSW 2148	s.58 Licence Variation	Issued	15-Oct-15
1603657	AUSTRAL MASONRY (NSW) PTY LTD	CLUNIES ROSS STREET, PROSPECT, NSW 2148	s.80 Surrender of a Licence	Issued	22-Dec-20
1006588	BORAL MASONRY LTD	CLUNIES ROSS STREET, PROSPECT, NSW 2148	s.58 Licence Variation	Issued	21-May-01
11769	BORAL RECYCLING PTY LIMITED	CLUNIES ROSS STREET, PROSPECT, NSW 2148	POEO licence	Surrendered	12-Nov-02
11887	BORAL RECYCLING PTY LIMITED	CLUNIES ROSS STREET, PROSPECT, NSW 2148	POEO licence	Surrendered	17-Apr-03
1030591	BORAL RECYCLING PTY LIMITED	CLUNIES ROSS STREET, PROSPECT, NSW 2148	s.58 Licence Variation	Issued	4-Sep-03
1036924	BORAL RECYCLING PTY LIMITED	CLUNIES ROSS STREET, PROSPECT, NSW 2148	s.58 Licence Variation	Issued	20-May-04
1041594	BORAL RECYCLING PTY LIMITED	CLUNIES ROSS STREET, PROSPECT, NSW 2148	s.80 Surrender of a Licence	Issued	19-Oct-04
1503688	BORAL RECYCLING PTY LIMITED	CLUNIES ROSS STREET, PROSPECT, NSW 2148	s.80 Surrender of a Licence	Issued	23-May-12
2200	BORAL RESOURCES (NSW) PTY LTD	RECONCILIATION ROAD, PROSPECT, NSW 2148	POEO licence	Surrendered	17-Aug-00
1009739	BORAL RESOURCES (NSW) PTY LTD	RECONCILIATION ROAD, PROSPECT, NSW 2148	s.58 Licence Variation	Issued	8-Aug-02
1023587	BORAL RESOURCES (NSW) PTY LTD	RECONCILIATION ROAD, PROSPECT, NSW 2148	s.58 Licence Variation	Issued	23-Dec-02
1027809	BORAL RESOURCES (NSW) PTY LTD	RECONCILIATION ROAD, PROSPECT, NSW 2148	s.58 Licence Variation	Issued	6-Jun-03
1033234	BORAL RESOURCES (NSW) PTY LTD	RECONCILIATION ROAD, PROSPECT, NSW 2148	s.58 Licence Variation	Issued	15-Dec-03
1037533	BORAL RESOURCES (NSW) PTY LTD	RECONCILIATION ROAD, PROSPECT, NSW 2148	s.58 Licence Variation	Issued	11-Jun-04
1054009	BORAL RESOURCES (NSW) PTY LTD	RECONCILIATION ROAD, PROSPECT, NSW 2148	s.58 Licence Variation	Issued	19-Dec-05
1063345	BORAL RESOURCES (NSW) PTY LTD	RECONCILIATION ROAD, PROSPECT, NSW 2148	s.58 Licence Variation	Issued	26-Jul-06
1093640	BORAL RESOURCES (NSW) PTY LTD	RECONCILIATION ROAD, PROSPECT, NSW 2148	s.58 Licence Variation	Issued	11-Feb-09
1104859	BORAL RESOURCES (NSW) PTY LTD	RECONCILIATION ROAD, PROSPECT, NSW 2148	s.58 Licence Variation	Issued	11-Aug-09
1117930	BORAL RESOURCES (NSW) PTY LTD	RECONCILIATION ROAD, PROSPECT, NSW 2148	s.58 Licence Variation	Issued	25-Aug-10
1119700	BORAL RESOURCES (NSW) PTY LTD	RECONCILIATION ROAD, PROSPECT, NSW 2148	s.58 Licence Variation	Issued	8-Oct-10
3085769152	BORAL RESOURCES (NSW) PTY LTD	RECONCILIATION ROAD, PROSPECT, NSW 2148	Penalty Notice	Issued	18-Mar-13
1515038	BORAL RESOURCES (NSW) PTY LTD	RECONCILIATION ROAD, PROSPECT, NSW 2148	s.58 Licence Variation	Issued	2-Jul-13
1525063	BORAL RESOURCES (NSW) PTY LTD	RECONCILIATION ROAD, PROSPECT, NSW 2148	s.58 Licence Variation	Issued	15-May-15
1534965	BORAL RESOURCES (NSW) PTY LTD	RECONCILIATION ROAD, PROSPECT, NSW 2148	s.80 Surrender of a Licence	Issued	3-Dec-15
21295	FULTON HOGAN CONSTRUCTION PTY LTD	Between Reservoir Road, Prospect and St Martins Crescent, Blacktown, PROSPECT, NSW 2148	POEO licence	Issued	12-Sep-19
6250	SCHERING-PLOUGH PTY LIMITED	CLUNIES ROSS STREET , PROSPECT, NSW 2148	POEO licence	Surrendered	9-Feb-00
1021804	SCHERING-PLOUGH PTY LIMITED	CLUNIES ROSS STREET , PROSPECT, NSW 2148	s.80 Surrender of a Licence	Issued	30-Oct-02
6630	SYDNEY WEED & PEST MANAGEMENT PTY LTD	-, PROSPECT, NSW 2148	POEO licence	Surrendered	9-Nov-00
1009599	SYDNEY WEED & PEST MANAGEMENT PTY LTD	-, PROSPECT, NSW 2148	s.58 Licence Variation	Issued	6-Aug-01
1074553	SYDNEY WEED & PEST MANAGEMENT PTY LTD	-, PROSPECT, NSW 2148	s.58 Licence Variation	Issued	29-Jun-07

1507582	SYDNEY WEED & PEST MANAGEMENT PTY LTD	-, PROSPECT, NSW 2148	s.80 Surrender of a Licence	Issued	1-Aug-12
1597240	TRANSPORT FOR NSW	Between Reservoir Road, Prospect and St Martins Crescent, Blacktown, PROSPECT, NSW 2148	s.58 Licence Variation	Issued	9-Oct-20

Environment Protection Licence

Licence - 5069

Licence Details	
Number:	5069
Anniversary Date:	24-May

Licensee

RED LEA CHICKENS PTY LTD

PO BOX 882

BLACKTOWN NSW 2148

Premises

RED LEA CHICKENS PTY LTD

421-427 FLUSHCOMBE ROAD

BLACKTOWN NSW 2148

Scheduled Activity

Livestock processing activities

Fee Based Activity	Scale
Slaughtering or processing animals	> 30000 T annual processing capacity

Region

Metropolitan - Sydney Industry

Level 13, 10 Valentine Ave
PARRAMATTA NSW 2150

Phone: (02) 9995 5000

Fax: (02) 9995 6900

PO Box 668

PARRAMATTA NSW 2124

Environment Protection Licence

Licence - 5069

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Environment Protection Licence

Licence - 5069

Information about this licence

Dictionary

A definition of terms used in the licence can be found in the dictionary at the end of this licence.

Responsibilities of licensee

Separate to the requirements of this licence, general obligations of licensees are set out in the Protection of the Environment Operations Act 1997 ("the Act") and the Regulations made under the Act. These include obligations to:

- ensure persons associated with you comply with this licence, as set out in section 64 of the Act;
- control the pollution of waters and the pollution of air (see for example sections 120 - 132 of the Act);
- report incidents causing or threatening material environmental harm to the environment, as set out in Part 5.7 of the Act.

Variation of licence conditions

The licence holder can apply to vary the conditions of this licence. An application form for this purpose is available from the EPA.

The EPA may also vary the conditions of the licence at any time by written notice without an application being made.

Where a licence has been granted in relation to development which was assessed under the Environmental Planning and Assessment Act 1979 in accordance with the procedures applying to integrated development, the EPA may not impose conditions which are inconsistent with the development consent conditions until the licence is first reviewed under Part 3.6 of the Act.

Duration of licence

This licence will remain in force until the licence is surrendered by the licence holder or until it is suspended or revoked by the EPA or the Minister. A licence may only be surrendered with the written approval of the EPA.

Licence review

The Act requires that the EPA review your licence at least every 5 years after the issue of the licence, as set out in Part 3.6 and Schedule 5 of the Act. You will receive advance notice of the licence review.

Fees and annual return to be sent to the EPA

For each licence fee period you must pay:

- an administrative fee; and
- a load-based fee (if applicable).

Environment Protection Licence

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The EPA publication “A Guide to Licensing” contains information about how to calculate your licence fees. The licence requires that an Annual Return, comprising a Statement of Compliance and a summary of any monitoring required by the licence (including the recording of complaints), be submitted to the EPA. The Annual Return must be submitted within 60 days after the end of each reporting period. See condition R1 regarding the Annual Return reporting requirements.

Usually the licence fee period is the same as the reporting period.

Transfer of licence

The licence holder can apply to transfer the licence to another person. An application form for this purpose is available from the EPA.

Public register and access to monitoring data

Part 9.5 of the Act requires the EPA to keep a public register of details and decisions of the EPA in relation to, for example:

- licence applications;
- licence conditions and variations;
- statements of compliance;
- load based licensing information; and
- load reduction agreements.

Under s320 of the Act application can be made to the EPA for access to monitoring data which has been submitted to the EPA by licensees.

This licence is issued to:

RED LEA CHICKENS PTY LTD
PO BOX 882
BLACKTOWN NSW 2148

subject to the conditions which follow.

Environment Protection Licence

Licence - 5069

1 Administrative Conditions

A1 What the licence authorises and regulates

A1.1 This licence authorises the carrying out of the scheduled activities listed below at the premises specified in A2. The activities are listed according to their scheduled activity classification, fee-based activity classification and the scale of the operation.

Unless otherwise further restricted by a condition of this licence, the scale at which the activity is carried out must not exceed the maximum scale specified in this condition.

Scheduled Activity	Fee Based Activity	Scale
Livestock processing activities	Slaughtering or processing animals	> 30000 T annual processing capacity

A2 Premises or plant to which this licence applies

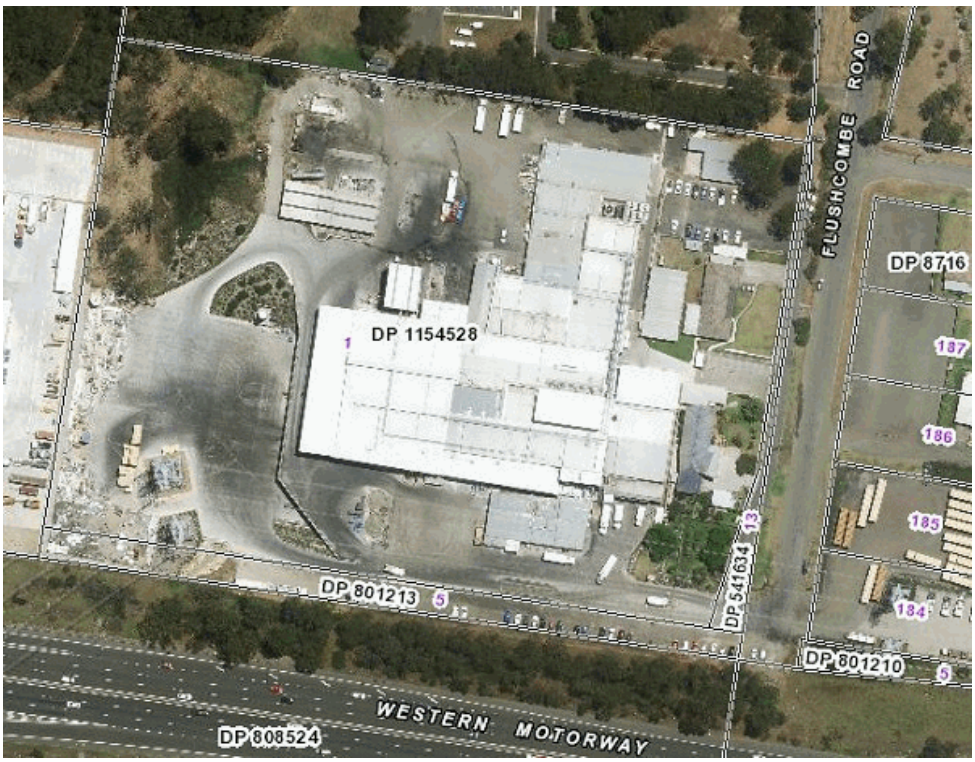
A2.1 The licence applies to the following premises:

Premises Details
RED LEA CHICKENS PTY LTD
421-427 FLUSHCOMBE ROAD
BLACKTOWN
NSW 2148
LOT 12 DP 541634, LOT 13 DP 541634, LOT 5 DP 801213, LOT 1 DP 1154528

A2.2 The premises location is shown on the map below.

Environment Protection Licence

Licence - 5069



A3 Information supplied to the EPA

A3.1 Works and activities must be carried out in accordance with the proposal contained in the licence application, except as expressly provided by a condition of this licence.

In this condition the reference to "the licence application" includes a reference to:
a) the applications for any licences (including former pollution control approvals) which this licence replaces under the Protection of the Environment Operations (Savings and Transitional) Regulation 1998; and
b) the licence information form provided by the licensee to the EPA to assist the EPA in connection with the issuing of this licence.

2 Discharges to Air and Water and Applications to Land

P1 Location of monitoring/discharge points and areas

P1.1 The following utilisation areas referred to in the table below are identified in this licence for the purposes of the monitoring and/or the setting of limits for any application of solids or liquids to the utilisation area.

Environment Protection Licence

Licence - 5069

3 Limit Conditions

L1 Pollution of waters

L1.1 Except as may be expressly provided in any other condition of this licence, the licensee must comply with section 120 of the Protection of the Environment Operations Act 1997.

L2 Waste

L2.1 The licensee must not cause, permit or allow any waste generated outside the premises to be received at the premises for storage, treatment, processing, reprocessing or disposal or any waste generated at the premises to be disposed of at the premises, except as expressly permitted by the licence.

L2.2 This condition only applies to the storage, treatment, processing, reprocessing or disposal of waste at the premises if those activities require an environment protection licence.

L3 Potentially offensive odour

L3.1 No condition of this licence identifies a potentially offensive odour for the purposes of section 129 of the Protection of the Environment Operations Act 1997.

Note: Section 129 of the Protection of the Environment Operations Act 1997, provides that the licensee must not cause or permit the emission of any offensive odour from the premises but provides a defence if the emission is identified in the relevant environment protection licence as a potentially offensive odour and the odour was emitted in accordance with the conditions of a licence directed at minimising odour.

4 Operating Conditions

O1 Activities must be carried out in a competent manner

O1.1 Licensed activities must be carried out in a competent manner.
This includes:
a) the processing, handling, movement and storage of materials and substances used to carry out the activity; and
b) the treatment, storage, processing, reprocessing, transport and disposal of waste generated by the activity.

O2 Maintenance of plant and equipment

O2.1 All plant and equipment installed at the premises or used in connection with the licensed activity:
a) must be maintained in a proper and efficient condition; and
b) must be operated in a proper and efficient manner.

O3 Dust

O3.1 The premises must be maintained in a condition which minimises or prevents the emission of dust from the premises.

5 Monitoring and Recording Conditions

M1 Monitoring records

M1.1 The results of any monitoring required to be conducted by this licence or a load calculation protocol must be recorded and retained as set out in this condition.

M1.2 All records required to be kept by this licence must be:
a) in a legible form, or in a form that can readily be reduced to a legible form;
b) kept for at least 4 years after the monitoring or event to which they relate took place; and
c) produced in a legible form to any authorised officer of the EPA who asks to see them.

M1.3 The following records must be kept in respect of any samples required to be collected for the purposes of this licence:
a) the date(s) on which the sample was taken;
b) the time(s) at which the sample was collected;
c) the point at which the sample was taken; and
d) the name of the person who collected the sample.

M2 Recording of pollution complaints

M2.1 The licensee must keep a legible record of all complaints made to the licensee or any employee or agent of the licensee in relation to pollution arising from any activity to which this licence applies.

M2.2 The record must include details of the following:
a) the date and time of the complaint;
b) the method by which the complaint was made;
c) any personal details of the complainant which were provided by the complainant or, if no such details were provided, a note to that effect;
d) the nature of the complaint;
e) the action taken by the licensee in relation to the complaint, including any follow-up contact with the complainant; and
f) if no action was taken by the licensee, the reasons why no action was taken.

M2.3 The record of a complaint must be kept for at least 4 years after the complaint was made.

M2.4 The record must be produced to any authorised officer of the EPA who asks to see them.

M3 Telephone complaints line

M3.1 The licensee must operate during its operating hours a telephone complaints line for the purpose of receiving any complaints from members of the public in relation to activities conducted at the premises or by the vehicle or mobile plant, unless otherwise specified in the licence.

M3.2 The licensee must notify the public of the complaints line telephone number and the fact that it is a complaints line so that the impacted community knows how to make a complaint.

M3.3 The preceding two conditions do not apply until 3 months after: the date of the issue of this licence.

6 Reporting Conditions

R1 Annual return documents

R1.1 The licensee must complete and supply to the EPA an Annual Return in the approved form comprising:

1. a Statement of Compliance,
2. a Monitoring and Complaints Summary,
3. a Statement of Compliance - Licence Conditions,
4. a Statement of Compliance - Load based Fee,
5. a Statement of Compliance - Requirement to Prepare Pollution Incident Response Management Plan,
6. a Statement of Compliance - Requirement to Publish Pollution Monitoring Data; and
7. a Statement of Compliance - Environmental Management Systems and Practices.

At the end of each reporting period, the EPA will provide to the licensee a copy of the form that must be completed and returned to the EPA.

R1.2 An Annual Return must be prepared in respect of each reporting period, except as provided below.

R1.3 Where this licence is transferred from the licensee to a new licensee:
a) the transferring licensee must prepare an Annual Return for the period commencing on the first day of the reporting period and ending on the date the application for the transfer of the licence to the new licensee is granted; and
b) the new licensee must prepare an Annual Return for the period commencing on the date the application for the transfer of the licence is granted and ending on the last day of the reporting period.

R1.4 Where this licence is surrendered by the licensee or revoked by the EPA or Minister, the licensee must prepare an Annual Return in respect of the period commencing on the first day of the reporting period and ending on:
a) in relation to the surrender of a licence - the date when notice in writing of approval of the surrender is given; or
b) in relation to the revocation of the licence - the date from which notice revoking the licence operates.

R1.5 The Annual Return for the reporting period must be supplied to the EPA via eConnect *EPA* or by registered post not later than 60 days after the end of each reporting period or in the case of a transferring licence not later than 60 days after the date the transfer was granted (the 'due date').

R1.6 The licensee must retain a copy of the Annual Return supplied to the EPA for a period of at least 4 years

after the Annual Return was due to be supplied to the EPA.

R1.7 Within the Annual Return, the Statements of Compliance must be certified and the Monitoring and Complaints Summary must be signed by:
a) the licence holder; or
b) by a person approved in writing by the EPA to sign on behalf of the licence holder.

Note: The term "reporting period" is defined in the dictionary at the end of this licence. Do not complete the Annual Return until after the end of the reporting period.

Note: An application to transfer a licence must be made in the approved form for this purpose.

R2 Notification of environmental harm

R2.1 Notifications must be made by telephoning the Environment Line service on 131 555.

R2.2 The licensee must provide written details of the notification to the EPA within 7 days of the date on which the incident occurred.

Note: The licensee or its employees must notify all relevant authorities of incidents causing or threatening material harm to the environment immediately after the person becomes aware of the incident in accordance with the requirements of Part 5.7 of the Act.

R3 Written report

R3.1 Where an authorised officer of the EPA suspects on reasonable grounds that:
a) where this licence applies to premises, an event has occurred at the premises; or
b) where this licence applies to vehicles or mobile plant, an event has occurred in connection with the carrying out of the activities authorised by this licence,
and the event has caused, is causing or is likely to cause material harm to the environment (whether the harm occurs on or off premises to which the licence applies), the authorised officer may request a written report of the event.

R3.2 The licensee must make all reasonable inquiries in relation to the event and supply the report to the EPA within such time as may be specified in the request.

R3.3 The request may require a report which includes any or all of the following information:
a) the cause, time and duration of the event;
b) the type, volume and concentration of every pollutant discharged as a result of the event;
c) the name, address and business hours telephone number of employees or agents of the licensee, or a specified class of them, who witnessed the event;
d) the name, address and business hours telephone number of every other person (of whom the licensee is aware) who witnessed the event, unless the licensee has been unable to obtain that information after making reasonable effort;
e) action taken by the licensee in relation to the event, including any follow-up contact with any complainants;
f) details of any measure taken or proposed to be taken to prevent or mitigate against a recurrence of

such an event; and
g) any other relevant matters.

R3.4 The EPA may make a written request for further details in relation to any of the above matters if it is not satisfied with the report provided by the licensee. The licensee must provide such further details to the EPA within the time specified in the request.

7 General Conditions

G1 Copy of licence kept at the premises or plant

G1.1 A copy of this licence must be kept at the premises to which the licence applies.

G1.2 The licence must be produced to any authorised officer of the EPA who asks to see it.

G1.3 The licence must be available for inspection by any employee or agent of the licensee working at the premises.

G2 Other general conditions

G2.1 **Completed Programs**

Program	Description	Completed Date
Nutrient removal plan	Assessment of the nutrient removal efficiency of the constructed wetland. Recommendations for the optimisation of the stormwater management system.	24-May-2016
Optimisation of the stormwater management system	Action plan to address high priority areas. Modified piping to divert untreated flows to the GPT and flows from the M4 around the system. Assessment of the suitability of first flush devices to allow the majority of clean roof runoff to be discharged rather than directed to the main system.	01-July-2017

8 Pollution Studies and Reduction Programs

U1 Stormwater Management Improvement Plan

U1.1 The objective of this Pollution Reduction Program is to improve the stormwater quality from the premises.

U1.2 By no later than Friday, 8th December 2017, the Licensee must prepare and submit to the EPA a Stormwater Management Improvement Plan ("the Plan") detailing the actions and timeframes that will be

implemented to improve the stormwater quality at the premises.

U1.3 The Licensee must commence implementation of the Plan only after written approval of the Plan is provided to the Licensee by the EPA.

U1.4 Once written approval by the EPA of the Plan is received, the Licensee must implement the Plan in accordance with the timeframes outlined.

U1.5 By COB Friday, 29th June 2018, the Licensee must submit an electronic report to the EPA's Director, Sydney Industry Section by email to metro.regulation@epa.nsw.gov.au detailing and providing evidence of the completed stormwater management improvement plan.

Environment Protection Licence

Licence - 5069

Dictionary

General Dictionary

3DGM [in relation to a concentration limit]	Means the three day geometric mean, which is calculated by multiplying the results of the analysis of three samples collected on consecutive days and then taking the cubed root of that amount. Where one or more of the samples is zero or below the detection limit for the analysis, then 1 or the detection limit respectively should be used in place of those samples
Act	Means the Protection of the Environment Operations Act 1997
activity	Means a scheduled or non-scheduled activity within the meaning of the Protection of the Environment Operations Act 1997
actual load	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
AM	Together with a number, means an ambient air monitoring method of that number prescribed by the *Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales*.
AMG	Australian Map Grid
anniversary date	The anniversary date is the anniversary each year of the date of issue of the licence. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act.
annual return	Is defined in R1.1
Approved Methods Publication	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
assessable pollutants	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
BOD	Means biochemical oxygen demand
CEM	Together with a number, means a continuous emission monitoring method of that number prescribed by the *Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales*.
COD	Means chemical oxygen demand
composite sample	Unless otherwise specifically approved in writing by the EPA, a sample consisting of 24 individual samples collected at hourly intervals and each having an equivalent volume.
cond.	Means conductivity
environment	Has the same meaning as in the Protection of the Environment Operations Act 1997
environment protection legislation	Has the same meaning as in the Protection of the Environment Administration Act 1991
EPA	Means Environment Protection Authority of New South Wales.
fee-based activity classification	Means the numbered short descriptions in Schedule 1 of the Protection of the Environment Operations (General) Regulation 2009.
general solid waste (non-putrescible)	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997

Environment Protection Licence

Licence - 5069

flow weighted composite sample	Means a sample whose composites are sized in proportion to the flow at each composites time of collection.
general solid waste (putrescible)	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environmen t Operations Act 1997
grab sample	Means a single sample taken at a point at a single time
hazardous waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
licensee	Means the licence holder described at the front of this licence
load calculation protocol	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
local authority	Has the same meaning as in the Protection of the Environment Operations Act 1997
material harm	Has the same meaning as in section 147 Protection of the Environment Operations Act 1997
MBAS	Means methylene blue active substances
Minister	Means the Minister administering the Protection of the Environment Operations Act 1997
mobile plant	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
motor vehicle	Has the same meaning as in the Protection of the Environment Operations Act 1997
O&G	Means oil and grease
percentile [in relation to a concentration limit of a sample]	Means that percentage [eg.50%] of the number of samples taken that must meet the concentration limit specified in the licence for that pollutant over a specified period of time. In this licence, the specified period of time is the Reporting Period unless otherwise stated in this licence.
plant	Includes all plant within the meaning of the Protection of the Environment Operations Act 1997 as well as motor vehicles.
pollution of waters [or water pollution]	Has the same meaning as in the Protection of the Environment Operations Act 1997
premises	Means the premises described in condition A2.1
public authority	Has the same meaning as in the Protection of the Environment Operations Act 1997
regional office	Means the relevant EPA office referred to in the Contacting the EPA document accompanying this licence
reporting period	For the purposes of this licence, the reporting period means the period of 12 months after the issue of the licence, and each subsequent period of 12 mo nths. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act.
restricted solid waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
scheduled activity	Means an activity listed in Schedule 1 of the Protection of the Environment Operations Act 1997
special waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
TM	Together with a number, means a test method of that number prescribed by the *Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales*.

Environment Protection Licence

Licence - 5069

TSP	Means total suspended particles
TSS	Means total suspended solids
Type 1 substance	Means the elements antimony, arsenic, cadmium, lead or mercury or any compound containing one or more of those elements
Type 2 substance	Means the elements beryllium, chromium, cobalt, manganese, nickel, selenium, tin or vanadium or any compound containing one or more of those elements
utilisation area	Means any area shown as a utilisation area on a map submitted with the application for this licence
waste	Has the same meaning as in the Protection of the Environment Operations Act 1997
waste type	Means liquid, restricted solid waste, general solid waste (putrescible), general solid waste (non-putrescible), special waste or hazardous waste

Mr David Cook

Environment Protection Authority

(By Delegation)

Date of this edition: 24-August-2000

Environment Protection Licence

Licence - 5069

End Notes

1	Licence varied by notice 1007566, issued on 30-Oct-2001, which came into effect on 24-Nov-2001.
2	Licence varied by correction to EPA Sub Region data record, issued on 18-Sep-2002, which came into effect on 18-Sep-2002.
3	Licence varied by notice 1031406, issued on 12-Nov-2003, which came into effect on 07-Dec-2003.
4	Licence varied by notice 1077369, issued on 05-Sep-2007, which came into effect on 05-Sep-2007.
5	Condition A1.3 Not applicable varied by notice issued on <issue date> which came into effect on <effective date>
6	Licence varied by notice 1527496 issued on 09-Mar-2015
7	Licence varied by notice 1535768 issued on 08-Dec-2015
8	Licence varied by notice 1538555 issued on 01-Mar-2016
9	Licence varied by notice 1540973 issued on 06-Jun-2016
10	Licence varied by notice 1545327 issued on 10-Aug-2017
11	Licence transferred through application 1555252 approved on 11-Aug-2017 , which came into effect on 11-Aug-2017
12	Licence varied by notice 1559965 issued on 24-Jan-2018

Section 55 Protection of the Environment Operations Act 1997

Environment Protection Licence

Licence - 10674

Department of **Environment & Climate Change** NSW

Licence Details	
Number:	10674
Anniversary Date:	26-June
Review Due Date:	21-Jan-2009

Licensee

RED LEA CHICKENS PTY LTD
PO BOX 6565
BLACKTOWN NSW 2148

Licence Type

Premises

Premises

14 Augusta Street
BLACKTOWN NSW 2148

Scheduled Activity

Livestock Processing Industries - other

Fee Based Activity	**Scale**
Other Livestock Processing (50)	0 - 100000 T produced

Region

Metropolitan
Level 3, NSW Govt Offices, 84 Crown Street
WOLLONGONG NSW 2500
Phone: 02 4224 4100
Fax: 02 4224 4110

PO Box 513 WOLLONGONG EAST
NSW 2520

Environment Protection Licence

Licence - 10674

Department of **Environment & Climate Change** NSW



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Information about this licence

Dictionary

A definition of terms used in the licence can be found in the dictionary at the end of this licence.

Responsibilities of licensee

Separate to the requirements of this licence, general obligations of licensees are set out in the Protection of the Environment Operations Act 1997 ("the Act") and the Regulations made under the Act. These include obligations to:

- ensure persons associated with you comply with this licence, as set out in section 64 of the Act;
- control the pollution of waters and the pollution of air (see for example sections 120 - 132 of the Act); and
- report incidents causing or threatening material environmental harm to the environment, as set out in Part 5.7 of the Act.

Variation of licence conditions

The licence holder can apply to vary the conditions of this licence. An application form for this purpose is available from the EPA.

The EPA may also vary the conditions of the licence at any time by written notice without an application being made.

Where a licence has been granted in relation to development which was assessed under the Environmental Planning and Assessment Act 1979 in accordance with the procedures applying to integrated development, the EPA may not impose conditions which are inconsistent with the development consent conditions until the licence is first reviewed under Part 3.6 of the Act.

Duration of licence

This licence will remain in force until the licence is surrendered by the licence holder or until it is suspended or revoked by the EPA or the Minister. A licence may only be surrendered with the written approval of the EPA.

Licence review

The Act requires that the EPA review your licence at least every 5 years after the issue of the licence, as set out in Part 3.6 and Schedule 5 of the Act. You will receive advance notice of the licence review.

Fees and annual return to be sent to the EPA

For each licence fee period you must pay:

- an administrative fee; and
- a load-based fee (if applicable).

The EPA publication "A Guide to Licensing" contains information about how to calculate your licence fees.

The licence requires that an Annual Return, comprising a Statement of Compliance and a summary of any monitoring required by the licence (including the recording of complaints), be submitted to the EPA. The Annual Return must be submitted within 60 days after the end of each reporting period. See condition R1 regarding the Annual Return reporting requirements.

Usually the licence fee period is the same as the reporting period.

Transfer of licence

The licence holder can apply to transfer the licence to another person. An application form for this purpose is available from the EPA.

Public register and access to monitoring data

Part 9.5 of the Act requires the EPA to keep a public register of details and decisions of the EPA in relation to, for example:

- licence applications;
- licence conditions and variations;
- statements of compliance;
- load based licensing information; and
- load reduction agreements.

Under s320 of the Act application can be made to the EPA for access to monitoring data which has been submitted to the EPA by licensees.

This licence is issued to:

RED LEA CHICKENS PTY LTD
PO BOX 6565
BLACKTOWN NSW 2148

subject to the conditions which follow.

1 Administrative conditions

A1 What the licence authorises and regulates

A1.1 Not applicable.

A1.2 This licence authorises the carrying out of the scheduled activities listed below at the premises specified in A2. The activities are listed according to their scheduled activity classification, fee-based activity classification and the scale of the operation.

Unless otherwise further restricted by a condition of this licence, the scale at which the activity is carried out must not exceed the maximum scale specified in this condition.

Scheduled Activity
Livestock Processing Industries - other

Fee Based Activity	Scale
Other Livestock Processing (50)	0 - 100000 T produced

A1.3 Not applicable.

A2 Premises to which this licence applies

A2.1 The licence applies to the following premises:

Premises Details
14 Augusta Street
BLACKTOWN
NSW
2148
TORRENS TITLE FOLIO ID 1838716

A3 Other activities

A3.1 This licence applies to all other activities carried on at the premises, including:

Waste Activities

A4 Information supplied to the EPA

A4.1 Works and activities must be carried out in accordance with the proposal contained in the licence application, except as expressly provided by a condition of this licence.

In this condition the reference to "the licence application" includes a reference to:
(a) the applications for any licences (including former pollution control approvals) which this licence replaces under the Protection of the Environment Operations (Savings and Transitional) Regulation 1998; and
(b) the licence information form provided by the licensee to the EPA to assist the EPA in connection with the issuing of this licence.

2 Discharges to air and water and applications to land

P1 Location of monitoring/discharge points and areas

P1.1 Not applicable.

P1.2 Not applicable.

P1.3 Not applicable.

3 Limit conditions

L1 Pollution of waters

L1.1 Except as may be expressly provided in any other condition of this licence, the licensee must comply with section 120 of the Protection of the Environment Operations Act 1997.

L2 Load limits

L2.1 Not applicable.

L2.2 Not applicable.

L3 Concentration limits

L3.1 Not applicable.

L3.2 Not applicable.

L3.3 Not applicable.

L4 Volume and mass limits

L4.1 Not applicable.

L5 Waste

L5.1 Not applicable.

L6 Noise Limits

L7 Not applicable.

4 Operating conditions

O1 Activities must be carried out in a competent manner

O1.1 Licensed activities must be carried out in a competent manner.

This includes:
(a) the processing, handling, movement and storage of materials and substances used to carry out the activity; and
(b) the treatment, storage, processing, reprocessing, transport and disposal of waste generated by the activity.

O2 Maintenance of plant and equipment

O2.1 All plant and equipment installed at the premises or used in connection with the licensed activity:
(a) must be maintained in a proper and efficient condition; and

(b) must be operated in a proper and efficient manner.

O3 Potentially offensive odour

O3.1 No condition of this licence identifies a potentially offensive odour for the purposes of section 129 of the Protection of the Environment Operations Act 1997.

Note: Section 129 of the Protection of the Environment Operations Act 1997, provides that the licensee must not cause or permit the emission of any offensive odour from the premises but provides a defence if the emission is identified in the relevant environment protection licence as a potentially offensive odour and the odour was emitted in accordance with the conditions of a licence directed at minimising odour.

O4 Dust

O4.1 The premises must be maintained in a condition which minimises or prevents the emission of dust from the premises.

5 Monitoring and recording conditions

M1 Monitoring records

M1.1 The results of any monitoring required to be conducted by this licence or a load calculation protocol must be recorded and retained as set out in this condition.

M1.2 All records required to be kept by this licence must be:
(a) in a legible form, or in a form that can readily be reduced to a legible form;
(b) kept for at least 4 years after the monitoring or event to which they relate took place; and
(c) produced in a legible form to any authorised officer of the EPA who asks to see them.

M1.3 The following records must be kept in respect of any samples required to be collected for the purposes of this licence:
(a) the date(s) on which the sample was taken;
(b) the time(s) at which the sample was collected;
(c) the point at which the sample was taken; and
(d) the name of the person who collected the sample.

M2 Requirement to monitor concentration of pollutants discharged

M2.1 Not applicable.

M3 Testing methods - concentration limits

M3.1 Not applicable.

M3.2 Not applicable.

M4 Recording of pollution complaints

M4.1 The licensee must keep a legible record of all complaints made to the licensee or any employee or agent of the licensee in relation to pollution arising from any activity to which this licence applies.

M4.2 The record must include details of the following:
(a) the date and time of the complaint;
(b) the method by which the complaint was made;
(c) any personal details of the complainant which were provided by the complainant or, if no such details were provided, a note to that effect;
(d) the nature of the complaint;
(e) the action taken by the licensee in relation to the complaint, including any follow-up contact with the complainant; and
(f) if no action was taken by the licensee, the reasons why no action was taken.

M4.3 The record of a complaint must be kept for at least 4 years after the complaint was made.

M4.4 The record must be produced to any authorised officer of the EPA who asks to see them.

M5 Telephone complaints line

M5.1 The licensee must operate during its operating hours a telephone complaints line for the purpose of receiving any complaints from members of the public in relation to activities conducted at the premises or by the vehicle or mobile plant, unless otherwise specified in the licence.

M5.2 The licensee must notify the public of the complaints line telephone number and the fact that it is a complaints line so that the impacted community knows how to make a complaint.

M5.3 Conditions M5.1 and M5.2 do not apply until 3 months after:
(a) the date of the issue of this licence or
(b) if this licence is a replacement licence within the meaning of the Protection of the Environment Operations (Savings and Transitional) Regulation 1998, the date on which a copy of the licence was served on the licensee under clause 10 of that regulation.

M6 Requirement to monitor volume or mass

M6.1 Not applicable.

M6.2 Not applicable.

6 Reporting conditions

R1 Annual return documents

What documents must an Annual Return contain?

R1.1 The licensee must complete and supply to the EPA an Annual Return in the approved form comprising:
(a) a Statement of Compliance; and
(b) a Monitoring and Complaints Summary.
A copy of the form in which the Annual Return must be supplied to the EPA accompanies this licence. Before the end of each reporting period, the EPA will provide to the licensee a copy of the form that must be completed and returned to the EPA.

Period covered by Annual Return

R1.2 An Annual Return must be prepared in respect of each reporting period, except as provided below.

Note: The term "reporting period" is defined in the dictionary at the end of this licence. Do not complete the Annual Return until after the end of the reporting period.

R1.3 Where this licence is transferred from the licensee to a new licensee:
(a) the transferring licensee must prepare an Annual Return for the period commencing on the first day of the reporting period and ending on the date the application for the transfer of the licence to the new licensee is granted; and
(b) the new licensee must prepare an Annual Return for the period commencing on the date the application for the transfer of the licence is granted and ending on the last day of the reporting period.

Note: An application to transfer a licence must be made in the approved form for this purpose.

R1.4 Where this licence is surrendered by the licensee or revoked by the EPA or Minister, the licensee must prepare an Annual Return in respect of the period commencing on the first day of the reporting period and ending on:
(a) in relation to the surrender of a licence - the date when notice in writing of approval of the surrender is given; or
(b) in relation to the revocation of the licence - the date from which notice revoking the licence operates.

Deadline for Annual Return

R1.5 The Annual Return for the reporting period must be supplied to the EPA by registered post not later than 60 days after the end of each reporting period or in the case of a transferring licence not later than 60 days after the date the transfer was granted (the 'due date').

Notification where actual load can not be calculated

R1.6 Not applicable.

Licensee must retain copy of Annual Return

R1.7 The licensee must retain a copy of the Annual Return supplied to the EPA for a period of at least 4 years after the Annual Return was due to be supplied to the EPA.

Certifying of Statement of Compliance and signing of Monitoring and Complaints Summary

R1.8 Within the Annual Return, the Statement of Compliance must be certified and the Monitoring and Complaints Summary must be signed by:
(a) the licence holder; or
(b) by a person approved in writing by the EPA to sign on behalf of the licence holder.

R1.9 A person who has been given written approval to certify a certificate of compliance under a licence issued under the Pollution Control Act 1970 is taken to be approved for the purpose of this condition until the date of first review of this licence.

R2 Notification of environmental harm

Note: The licensee or its employees must notify the EPA of incidents causing or threatening material harm to the environment as soon as practicable after the person becomes aware of the incident in accordance with the requirements of Part 5.7 of the Act.

R2.1 Notifications must be made by telephoning the EPA's Pollution Line service on 131 555.

R2.2 The licensee must provide written details of the notification to the EPA within 7 days of the date on which the incident occurred.

R3 Written report

R3.1 Where an authorised officer of the EPA suspects on reasonable grounds that:
(a) where this licence applies to premises, an event has occurred at the premises; or
(b) where this licence applies to vehicles or mobile plant, an event has occurred in connection with the carrying out of the activities authorised by this licence,
and the event has caused, is causing or is likely to cause material harm to the environment (whether the harm occurs on or off premises to which the licence applies), the authorised officer may request a written report of the event.

R3.2 The licensee must make all reasonable inquiries in relation to the event and supply the report to the EPA within such time as may be specified in the request.

R3.3 The request may require a report which includes any or all of the following information:
(a) the cause, time and duration of the event;
(b) the type, volume and concentration of every pollutant discharged as a result of the event;
(c) the name, address and business hours telephone number of employees or agents of the licensee, or a specified class of them, who witnessed the event;
(d) the name, address and business hours telephone number of every other person (of whom the licensee is aware) who witnessed the event, unless the licensee has been unable to obtain that information after making reasonable effort;
(e) action taken by the licensee in relation to the event, including any follow-up contact with any complainants;
(f) details of any measure taken or proposed to be taken to prevent or mitigate against a recurrence of such an event; and
(g) any other relevant matters.

R3.4 The EPA may make a written request for further details in relation to any of the above matters if it is not satisfied with the report provided by the licensee. The licensee must provide such further details to the EPA within the time specified in the request.

General conditions

G1 Copy of licence kept at the premises

G1.1 A copy of this licence must be kept at the premises to which the licence applies.

G1.2 The licence must be produced to any authorised officer of the EPA who asks to see it.

G1.3 The licence must be available for inspection by any employee or agent of the licensee working at the premises.

Pollution studies and reduction programs

U1 Not applicable.

Special conditions

E1 Not applicable.

Dictionary

General Dictionary

In this licence, unless the contrary is indicated, the terms below have the following meanings:

3DGM [in relation to a concentration limit]	Means the three day geometric mean, which is calculated by multiplying the results of the analysis of three samples collected on consecutive days and then taking the cubed root of that amount. Where one or more of the samples is zero or below the detection limit for the analysis, then 1 or the detection limit respectively should be used in place of those samples
Act	Means the Protection of the Environment Operations Act 1997
activity	Means a scheduled or non-scheduled activity within the meaning of the Protection of the Environment Operations Act 1997
actual load	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 1998
AM	Together with a number, means an ambient air monitoring method of that number prescribed by the *Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales*.
AMG	Australian Map Grid
anniversary date	The anniversary date is the anniversary each year of the date of issue of the licence. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act.
annual return	Is defined in R1.1
Approved Methods Publication	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 1998
assessable pollutants	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 1998
BOD	Means biochemical oxygen demand
CEM	Together with a number, means a continuous emission monitoring method of that number prescribed by the *Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales*.
COD	Means chemical oxygen demand
composite sample	Unless otherwise specifically approved in writing by the EPA, a sample consisting of 24 individual samples collected at hourly intervals and each having an equivalent volume.
cond.	Means conductivity
environment	Has the same meaning as in the Protection of the Environment Operations Act 1997
environment protection legislation	Has the same meaning as in the Protection of the Environment Administration Act 1991
EPA	Means Environment Protection Authority of New South Wales.
fee-based activity classification	Means the numbered short descriptions in Schedule 1 of the Protection of the Environment Operations (General) Regulation 1998.

flow weighted composite sample	Means a sample whose composites are sized in proportion to the flow at each composites time of collection.
grab sample	Means a single sample taken at a point at a single time
hazardous waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
industrial waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
inert waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
licensee	Means the licence holder described at the front of this licence
load calculation protocol	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 1998
local authority	Has the same meaning as in the Protection of the Environment Operations Act 1997
material harm	Has the same meaning as in section 147 Protection of the Environment Operations Act 1997
MBAS	Means methylene blue active substances
Minister	Means the Minister administering the Protection of the Environment Operations Act 1997
mobile plant	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
motor vehicle	Has the same meaning as in the Protection of the Environment Operations Act 1997
O&G	Means oil and grease
percentile [in relation to a concentration limit of a sample]	Means that percentage [eg.50%] of the number of samples taken that must meet the concentration limit specified in the licence for that pollutant over a specified period of time. In this licence, the specified period of time is the Reporting Period unless otherwise stated in this licence.
plant	Includes all plant within the meaning of the Protection of the Environment Operations Act 1997 as well as motor vehicles.
pollution of waters [or water pollution]	Has the same meaning as in the Protection of the Environment Operations Act 1997
premises	Means the premises described in condition A2.1
public authority	Has the same meaning as in the Protection of the Environment Operations Act 1997
regional office	Means the relevant EPA office referred to in the Contacting the EPA document accompanying this licence
reporting period	For the purposes of this licence, the reporting period means the period of 12 months after the issue of the licence, and each subsequent period of 12 months. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act.
reprocessing of waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
scheduled activity	Means an activity listed in Schedule 1 of the Protection of the Environment Operations Act 1997
solid waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997

TM	Together with a number, means a test method of that number prescribed by the *Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales*.
treatment of waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
TSP	Means total suspended particles
TSS	Means total suspended solids
Type 1 substance	Means the elements antimony, arsenic, cadmium, lead or mercury or any compound containing one or more of those elements
Type 2 substance	Means the elements beryllium, chromium, cobalt, manganese, nickel, selenium, tin or vanadium or any compound containing one or more of those elements
utilisation area	Means any area shown as a utilisation area on a map submitted with the application for this licence
waste	Has the same meaning as in the Protection of the Environment Operations Act 1997
waste code	Means the waste codes listed in Appendix 5 of the EPA document A Guide to Licensing Part B.
waste type	Means Group A, Group B, Group C, inert, solid, industrial or hazardous waste

Mr Mark Gifford

Environment Protection Authority

(By Delegation)

Date of this edition - 11-Oct-2007

End Notes

1	Licence varied by notice Prem. Change, issued on 09-Mar-2001, which came into effect on 09-Mar-2001.
2	Licence transferred through application 140209, approved on 22-Mar-2001, which came into effect on 05-Mar-2001.
3	Licence varied by notice 1007564, issued on 30-Oct-2001, which came into effect on 24-Nov-2001.
4	Licence transferred through application 141402, approved on 19-Aug-2002, which came into effect on 26-Jun-2002.

End Notes

5	Licence transferred through application 145094, approved on 31-Aug-2007, which came into effect on 25-Jun-2007.
6	This licence was surrendered by notice 1078918 on 11-Oct-2007.

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
BEROWRA	Caltex Berowra Service Station	12-14 Berowra Waters ROAD	Service Station	Regulation under CLM Act not required	-33.6233827	151.1505554
BEROWRA	7-Eleven Berowra Service Station	965-969 Pacific (Cnr Waratah Rd) HIGHWAY	Service Station	Regulation under CLM Act not required	-33.62673163	151.1479171
BEROWRA	Shell Coles Express Berowra	955 Pacific (Cnr Yallambee Rd) HIGHWAY	Service Station	Regulation under CLM Act not required	-33.62818015	151.1475736
BEROWRA	42 Berowra Waters Road	42 Berowra Waters ROAD	Unclassified	Regulation under CLM Act not required	-33.6203823	151.1481246
BERRIGAN	Caltex Service Station Berrigan	155-165 Chanter STREET	Service Station	Regulation under CLM Act not required	-35.6557616	145.8015557
BERRY	Berry Service Centre - Shell Branded	88 Queen STREET	Service Station	Regulation under CLM Act not required	-34.77571634	150.6961713
BERRY	BP branded service station Berry (Formerly Shell)	75 Queen STREET	Service Station	Contamination currently regulated under POEO Act	-34.77500516	150.695167
BEXLEY	7-Eleven Bexley	474 Forest ROAD	Service Station	Regulation under CLM Act not required	-33.95160096	151.1252355
BEXLEY	7-Eleven (former Mobil) Service Station Bexley	613 Forest ROAD	Service Station	Regulation under CLM Act not required	-33.95539246	151.118447
BILAMBIL HEIGHTS	Former Banana Plantation Land	38 McAllisters ROAD	Other Industry	Regulation under CLM Act not required	-28.21218056	153.4778762
BILLINUDGEL	CSR Readymix	Mogo PLACE	Other Industry	Regulation under CLM Act not required	-28.50210255	153.5278161
BILLINUDGEL	Billinudgel General Store	2A Wilfred STREET	Service Station	Under assessment	-28.50210255	153.5278161
BLACKMANS FLAT	Mount Piper Extension Development Site	2847 Boulder ROAD	Other Industry	Regulation under CLM Act not required	-33.35619968	150.0279881
BLACKMANS FLAT	Western Coal Services (former Lamberts Gully Mine)	Castlereagh HIGHWAY	Other Industry	Regulation under CLM Act not required	-33.36713827	150.0483236
BLACKTOWN	Former Caltex Service Station	131 Richmond ROAD	Service Station	Regulation under CLM Act not required	-33.75866104	150.8962614

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
BLACKTOWN	Valspar Blacktown	4 Steel STREET	Chemical Industry	Regulation under CLM Act not required	-33.75425018	150.9127714
BLACKTOWN	Harpers Bush (Reserve 752)	Reservoir ROAD	Unclassified	Regulation under CLM Act not required	-33.79119448	150.8967838
BLACKTOWN	7-Eleven Service Station	60 Walters ROAD	Service Station	Regulation under CLM Act not required	-33.77599783	150.8948926
BLAKEHURST	Woolworths Service Station Blakehurst	390 Princes HIGHWAY	Service Station	Contamination currently regulated under CLM Act	-33.99019694	151.1135663
BLAKEHURST	The Bay Nursing Home	392 & 394 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-33.99030465	151.1140293
BLAXLAND	7-Eleven (former Mobil) Service Station	137 Great Western HIGHWAY	Service Station	Regulation under CLM Act not required	-33.74627	150.6137669
BOAMBEE	Lindsay Bros transport depot site	542 Pacific HIGHWAY	Other Petroleum	Regulation under CLM Act not required	-30.33106848	153.0802985
BOAMBEE	BP-branded (former Mobil) Boambee Service Station	601 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-30.33544287	153.0817266
BOBS FARM	Bob's Farm	15 Fenningham Island ROAD	Other Industry	Regulation under CLM Act not required	-32.74867207	152.0316217
BOGGABILLA	Former Caltex Service Station	90 Simpson Street, corner Newell HIGHWAY	Service Station	Regulation under CLM Act not required	-28.60654029	150.3571056
BOGGABILLA	Lowes (Former Mobil) Depot	Newell HIGHWAY	Other Petroleum	Regulation under CLM Act not required	-28.61023985	150.3529156
BOMADERRY	Caltex Service Station	341 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-34.84561952	150.5946978
BOMADERRY	Caltex Service Station Bomaderry	246 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-34.83833824	150.5958799
BOMADERRY	Former Mobil Emoleum Depot	7 Victa WAY	Other Petroleum	Regulation under CLM Act not required	-34.84454618	150.6139462
BOMADERRY	Former Shell Depot	44 Railway STREET	Other Petroleum	Regulation under CLM Act not required	-34.85193621	150.6117038

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
PORTLAND	Ivanhoe Colliery	Pipers Flat ROAD	Other Industry	Regulation under CLM Act not required	-33.36595748	150.0099577
PORTLAND	Mt Piper Power Station	350 Boulder ROAD	Other Petroleum	Regulation under CLM Act not required	-33.35581541	150.0350801
PRAIRIEWOOD	7-Eleven (former Caltex) Service Station	485-487 Smithfield ROAD	Service Station	Regulation under CLM Act not required	-33.87102509	150.9031383
PROSPECT	7-Eleven (former Mobil) Service Station Prospect	354 Flushcombe ROAD	Service Station	Regulation under CLM Act not required	-33.79541624	150.9049417
PROSPECT	Pincott's Cottage, Gate C1	Off Reservoir ROAD	Unclassified	Regulation under CLM Act not required	-33.81589773	150.9144343
PROSPECT	Gatehouse, 544 Reservoir Road	544 Reservoir ROAD	Unclassified	Regulation under CLM Act not required	-33.81026272	150.9160605
PROSPECT	Cottage 3, William Lawson Drive	William Lawson DRIVE	Unclassified	Regulation under CLM Act not required	-33.81490331	150.9149885
PUNCHBOWL	Former BP Service Station	1375 Canterbury Road, corner Victoria ROAD	Service Station	Regulation under CLM Act not required	-33.93170424	151.0537302
PUNCHBOWL	Punchbowl Laundry	42-44 Belmore ROAD	Chemical Industry	Contamination currently regulated under CLM Act	-33.93582701	151.0562638
PUNCHBOWL	Caltex Service Station Punchbowl	1285-1289 Canterbury ROAD	Service Station	Regulation under CLM Act not required	-33.93146308	151.0596348
PUTNEY	Putney Marina	20 Waterview STREET	Other Industry	Regulation under CLM Act not required	-33.82608091	151.1003966
PYMBLE	Caltex Service Station	1089 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.74102977	151.1385257
PYMBLE	Shell Coles Express Service Station	21 Ryde ROAD	Service Station	Regulation under CLM Act not required	-33.75198512	151.1438115
PYMBLE	Former 3M site	950 Pacific HIGHWAY	Gasworks	Regulation under CLM Act not required	-33.75050288	151.1460578
PYMBLE	Pymble West Dry Cleaners	6 Philip MALL	Other Industry	Under preliminary investigation order	-33.76109009	151.1284329

Public registers

+ POEO Public Register
– Contaminated land record of notices
About the record of notices
List of notified sites
Tips for searching
Disclaimer
Dangerous goods licences
Pesticide licences
Radiation licences

Home Public registers Contaminated land record of notices

Search results

Your search for: LGA: BLACKTOWN CITY COUNCIL

Matched 11 notices relating to 2 sites.

Search Again Refine Search

Suburb	Address	Site Name	Notices related to this site
KINGS PARK	21 Tattersall ROAD	Former Dow Corning Factory	6 former
SEVEN HILLS	27 Powers ROAD	Former Australian Waste Oil Refineries Site	5 former

Page 1 of 1

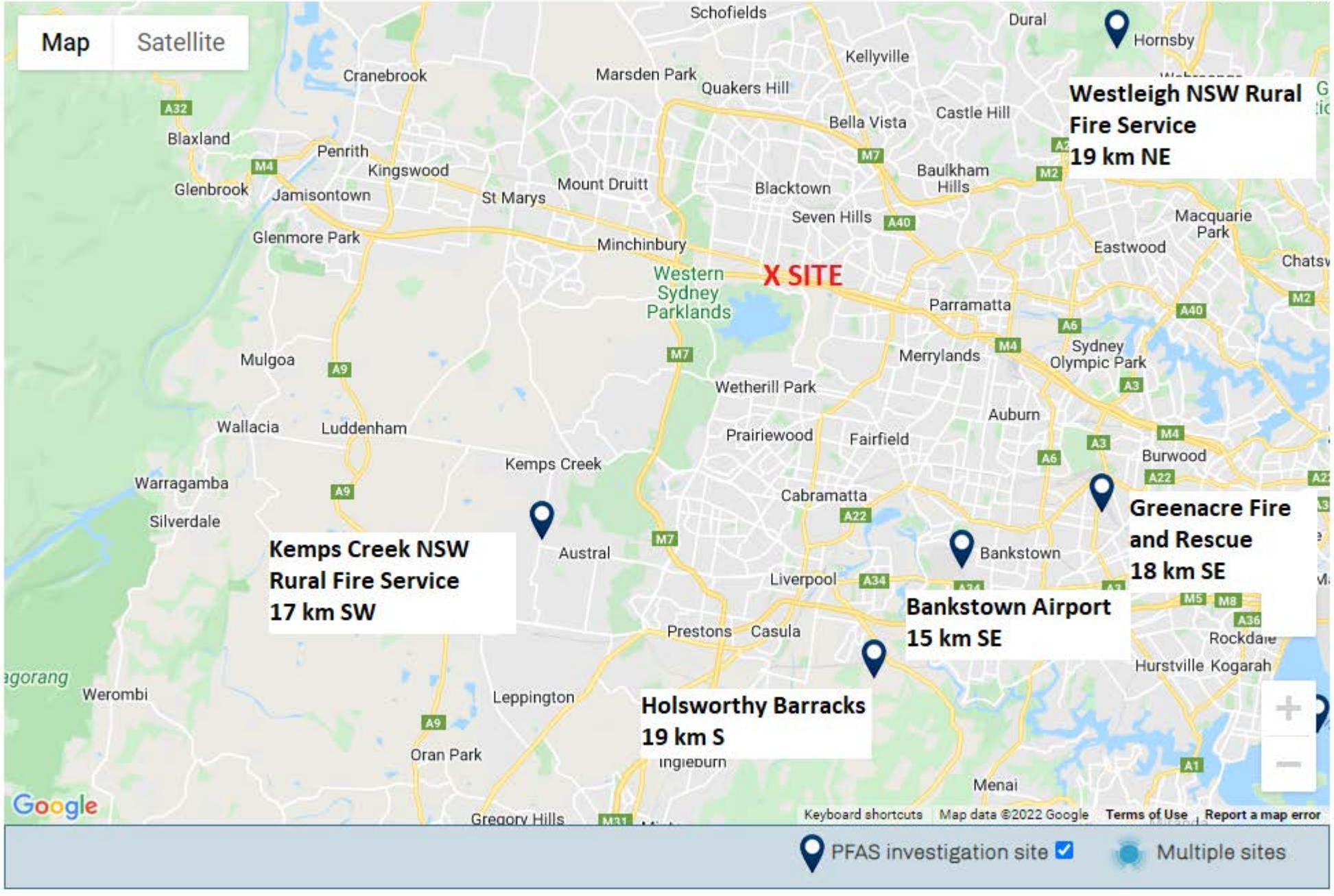
1 March 2022

Map view | List view

Filter by | No filter set

Showing 6 of 49 sites

Reset map



Appendix F Heritage Searches



Search Results

new search edit search

2 results found.

Blacktown Native Institution Site Richmond Rd	Oakhurst, NSW, Australia	(Nomination now ineligible for PPAL) National Heritage List
Old Boiler House Blacktown Rd	Blacktown, NSW, Australia	(Indicative Place) Register of the National Estate (Non-statutory archive)

Report Produced: Tue Mar 1 09:53:24 2022

(cc) BY

State Heritage Inventory

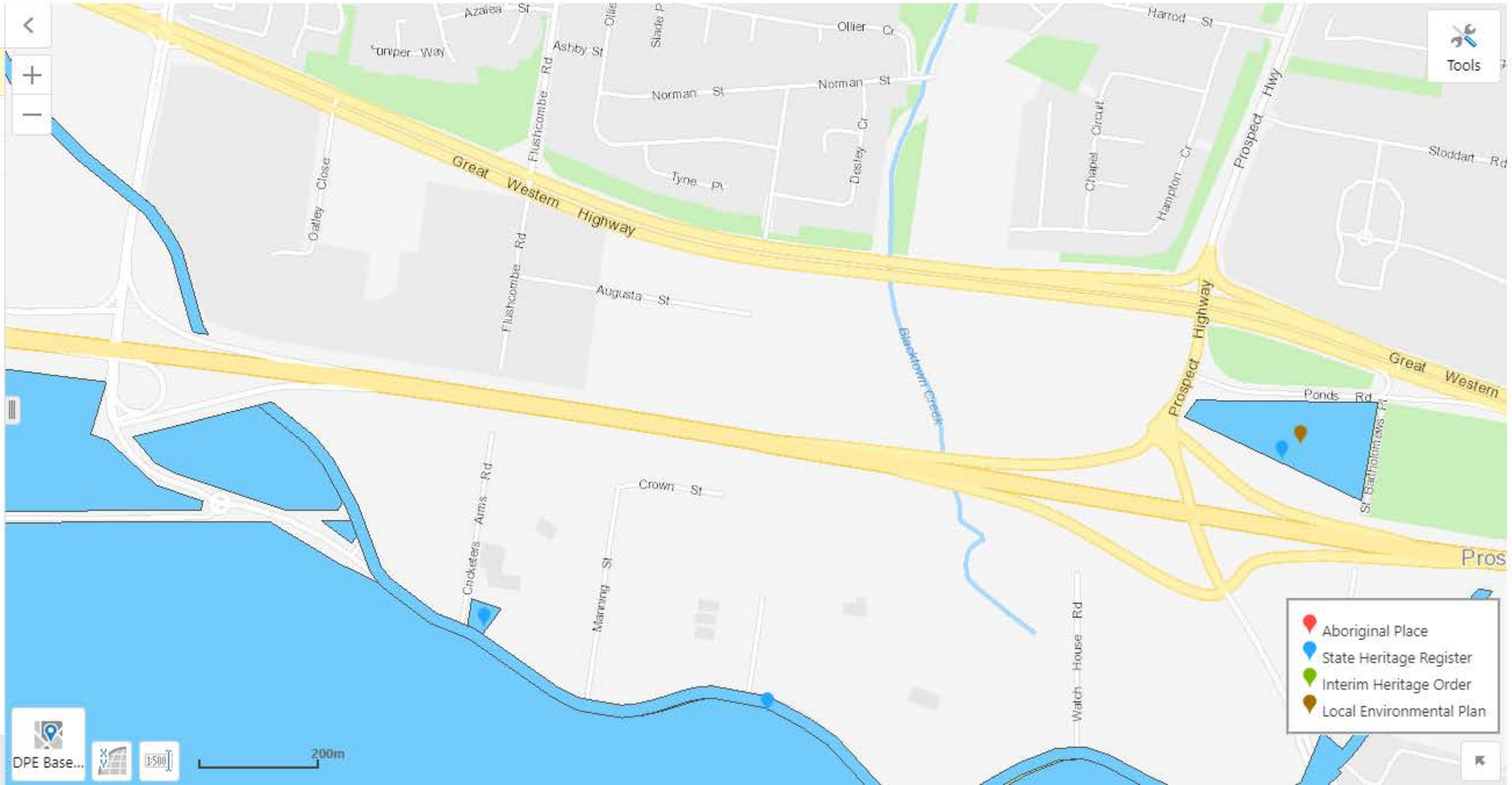
Start your search | Item Name | Street Name | Suburb/Town | Blacktown | VIEW RESULTS | Advanced search

View Results By: **Map** | A-Z | Statutory list | CLEAR SPATIAL RESULTS

Search (131)

131 Results Found

- (23) State Heritage Register
- (108) Local Environmental Plan



Layers | Search (131)

Appendix G Historical Titles

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

Report

Address: - 3 & 14 Augusta Street and 426 Flushcombe Road, Blacktown

Description: - Lots 183 to 188 D.P. 8716 and Lot 1 D.P. 835264

As regards Lot 183 D.P. 8716

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
07.02.1923 (1923 to 1935)	Mary Eliza Harris (Married Woman)	Vol 3416 Fol 104
04.11.1935 (1935 to 1935)	James William Harris (Labourer) (Transmission Application not investigated)	Vol 3416 Fol 104
04.11.1935 (1935 to 1944)	Frank Vincent Wade Holmes (Agent)	Vol 3416 Fol 104
23.06.1944 (1944 to 1948)	Margaret Wheeler (Widow) Now Margaret Wilson (Married Woman)	Vol 3416 Fol 104
18.09.1948 (1948 to 1959)	Nedjelko Markovina (Market Gardener)	Vol 3416 Fol 104
13.07.1959 (1959 to 1964)	Leslie Archibald Haddock (Motor Engineer) Ivy Haddock (Married Woman)	Vol 3416 Fol 104
20.08.1964 (1964 to 1976)	Emanuel Teuma (Poultry Farmer) Grace Teuma (Married Woman)	Vol 3416 Fol 104
18.10.1976 (1976 to 1981)	Joseph Michael Angelo Teuma (Poultry Farmer) Ted Edward Teuma (Poultry Farmer) Michael Angelo Teuma (Poultry Farmer) Emanuel Teuma (Poultry Farmer) Grace Teuma (Married Woman)	Vol 3416 Fol 104 Now Vol 13184 Fol 221
01.06.1981 (1981 to 2001)	Joseph Michael Angelo Teuma (Poultry Farmer) Ted Edward Teuma (Poultry Farmer) Michael Angelo Teuma (Poultry Farmer) Emanuel Teuma (Poultry Farmer) Grace Teuma (Married Woman) Charles Teuma	Vol 13184 Fol 221 Now 183/8716
23.08.2001 (2001 to 2006)	Joseph Michael Angelo Teuma (Poultry Farmer) Ted Edward Teuma (Poultry Farmer) Michael Angelo Teuma (Poultry Farmer) Grace Teuma (Married Woman) Charles Teuma	183/8716
10.10.2006 (2006 to 2016)	Red Lea Property Pty Ltd	183/8716
18.08.2016 (2016 to 2016)	Red Lea Chickens Pty Ltd	183/8716
18.08.2016 (2016 to Date)	# Redlea Group Holding Pty Ltd	183/8716

# Denotes current registered proprietor

Continued over.

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 183 D.P. 8716

Leases: -

- 28.01.1977 to Joseph Michael Angelo Teuma, Ted Edward Teuma, Michael Angelo Teuma & Emanuel Teuma – expires 30.06.2000.
- 22.07.2019 (AP 385582) to Fastform Australia Pty Limited – expires 07.03.2022.

Easements: -

- 08.11.1965 (K 116727) Easement for Transmission Line variable width.
- 11.12.1984 (V 378957 & D.P. 604009) Easement or Transmission Line 30 metres wide.

As regards Lots 184 to 186 D.P. 8716

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
30.11.1920 (1920 to 1938)	William Charles Entwistle (Gardener)	Vol 3133 Fol 65
12.05.1938 (1938 to 1944)	Frank Vincent Wade Holmes (Agent)	Vol 3133 Fol 65 Now Vol 4963 Fol 68
23.06.1944 (1944 to 1948)	Margaret Wheeler (Widow) Now Margaret Wilson (Married Woman)	Vol 4963 Fol 68 Now Vol 5443 Fol 220
18.09.1948 (1948 to 1963)	Nedjelko Markovina (Market Gardener)	Vol 5443 Fol 220
01.05.1963 (1963 to 1968)	Melchior Baiada (Farmer) Victoria Baiada (Married Woman)	Vol 5443 Fol 220
12.03.1968 (1968 to 1972)	Emanuel Teuma (Poultry Farmer)	Vol 5443 Fol 220
01.03.1972 (1972 to 2006)	Joseph Michael Angelo Teuma (Poultry Farmer) Ted Edward Teuma (Poultry Farmer)	Vol 5443 Fol 220 Now Auto Consol 5443-220
10.10.2006 (2006 to 2016)	Red Lea Property Pty Ltd	Auto Consol 5443-220
18.08.2016 (2016 to 2016)	Red Lea Chickens Pty Ltd	Auto Consol 5443-220
18.08.2016 (2016 to Date)	# Redlea Group Holding Pty Ltd	Auto Consol 5443-220

# Denotes current registered proprietor

Leases: -

- 22.07.2019 (AP 385582) to Fastform Australia Pty Limited – expires 07.03.2022.

Easements: -

- 27.07.1965 (J 946973) Easement for Transmission Line variable width.
- 11.12.1984 (V 378958 & D.P. 604009) Easement or Transmission Line 30 metres wide.

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

As regards Lots 187 to 188 D.P. 8716

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
14.10.1920 (1920 to 1920)	Walter Scott Murray (Saddler)	Vol 3110 Fol 137
29.10.1920 (1920 to 1929)	Abraham Lazarus (Hotel Keeper)	Vol 3110 Fol 137
03.12.1929 (1929 to 1936)	Maurice Henry Lazarus (Hotel Proprietor) (& his deceased estate)	Vol 3110 Fol 137
23.09.1936 (1936 to 1948)	Frank Vincent Wade Holmes (Agent)	Vol 3110 Fol 137
19.01.1948 (1948 to 1948)	Margaret Wilson (Married Woman)	Vol 3110 Fol 137
18.09.1948 (1948 to 1963)	Nedjelko Markovina (Market Gardener)	Vol 3110 Fol 137
01.05.1963 (1963 to 1968)	Melchior Baiada (Farmer) Victoria Baiada (Married Woman)	Vol 3110 Fol 137
12.03.1968 (1968 to 1972)	Emanuel Teuma (Poultry Farmer)	Vol 3110 Fol 137
01.03.1972 (1972 to 2006)	Joseph Michael Angelo Teuma (Poultry Farmer) Ted Edward Teuma (Poultry Farmer)	Vol 3110 Fol 137 Now Auto Consol 3110-137
10.10.2006 (2006 to 2016)	Red Lea Property Pty Ltd	Auto Consol 3110-137
18.08.2016 (2016 to 2016)	Red Lea Chickens Pty Ltd	Auto Consol 3110-137
18.08.2016 (2016 to Date)	# Redlea Group Holding Pty Ltd	Auto Consol 3110-137

# Denotes current registered proprietor

Easements: - NIL

Leases: -

- 22.07.2019 (AP 385582) to Fastform Australia Pty Limited – expires 07.03.2022.

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

As regards Lot 1 D.P. 835264

As regards the part numbered (1) on the attached Cadastral Records Enquiry Report

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
07.02.1923 (1923 to 1925)	Martha Susan Goodsell (Widow)	Vol 3416 Fol 93
01.12.1925 (1925 to 1934)	Thomas William Alexander Stoddart (Labourer) (Transmission Application not investigated)	Vol 3416 Fol 93
31.10.1934 (1934 to 1942)	Milford Roy Hicks (Bank Clerk)	Vol 3416 Fol 93

As regards the part numbered (2) on the attached Cadastral Records Enquiry Report

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
03.07.1928 (1928 to 1935)	Alfred James Newcombe (Traveller)	Vol 4163 Fol 3
08.01.1935 (1935 to 1942)	Milford Roy Hicks (Bank Clerk)	Vol 4163 Fol 3

As regards the part numbered (3) on the attached Cadastral Records Enquiry Report

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
01.12.1920 (1920 to 1923)	Robert Ernest Lamb (Carpenter)	Vol 3133 Fol 182
14.09.1923 (1923 to 1924)	James William Hutchin (Boot Importer)	Vol 3133 Fol 182
01.12.1924 (1924 to 1930)	Ethel Miller May Jenkins (Widow) (& her deceased estate)	Vol 3133 Fol 182
03.12.1930 (1930 to 1934)	Francis Winton Jenkins (Student)	Vol 3133 Fol 182
28.12.1934 (1934 to 1942)	Milford Roy Hicks (Bank Clerk)	Vol 3133 Fol 182

As regards the part numbered (4) on the attached Cadastral Records Enquiry Report

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
16.11.1920 (1930 to 1930)	John Wynne (Laborer)	Vol 3126 Fol 177
27.06.1930 (1930 to 1935)	Albert Edward Squires (Insurance Superintendent)	Vol 3126 Fol 177 Now Vol 4436 Fol 173
17.01.1935 (1935 to 1942)	Milford Roy Hicks (Bank Clerk)	Vol 4436 Fol 173

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 the whole of Lot 1 D.P. 835264

Date of Acquisition and term held	**Registered Proprietor(s) & Occupations where available**	**Reference to Title at Acquisition and sale**
03.12.1942 (1942 to 1957)	Henry Reginald Booth (Clerk) Edith Pearl Booth (Married Woman)	Vol 3416 Fol 93 Vol 4163 Fol 3 Vol 3133 Fol 182 Vol 4436 Fol 173
21.01.1957 (1957 to 1975)	Christopher John Quick (Master Builder) Norman Thomas Quick (Master Builder)	Vol 3416 Fol 93 Vol 4163 Fol 3 Vol 3133 Fol 182 Vol 4436 Fol 173 Now Vol 7375 Fol's 8 & 9
02.12.1975 (1975 to 1976)	Christopher John Quick (Master Builder)	Vol 7375 Fol's 8 & 9 Now Vol 12961 Fol 89
09.04.1976 (1976 to 1976)	Hilda Louise Quick (Widow) (Transmission Application not investigated)	Vol 12961 Fol 89
17.12.1976 (1976 to 1988)	New South Wales Planning and Environment Commission	Vol 12961 Fol 89
30.05.1988 (1988 to 2007)	The Forestry Commission of New South Wales	Vol 12961 Fol 89 Now 1/835264
01.06.2007 (2007 to 2016)	Red Lea Property Pty Ltd	1/835264
18.08.2016 (2016 to 2016)	Red Lea Chickens Pty Ltd	1/835264
18.08.2016 (2016 to Date)	# Redlea Group Holding Pty Ltd	1/835264

# Denotes current registered proprietor

Easements: - NIL

Leases: -

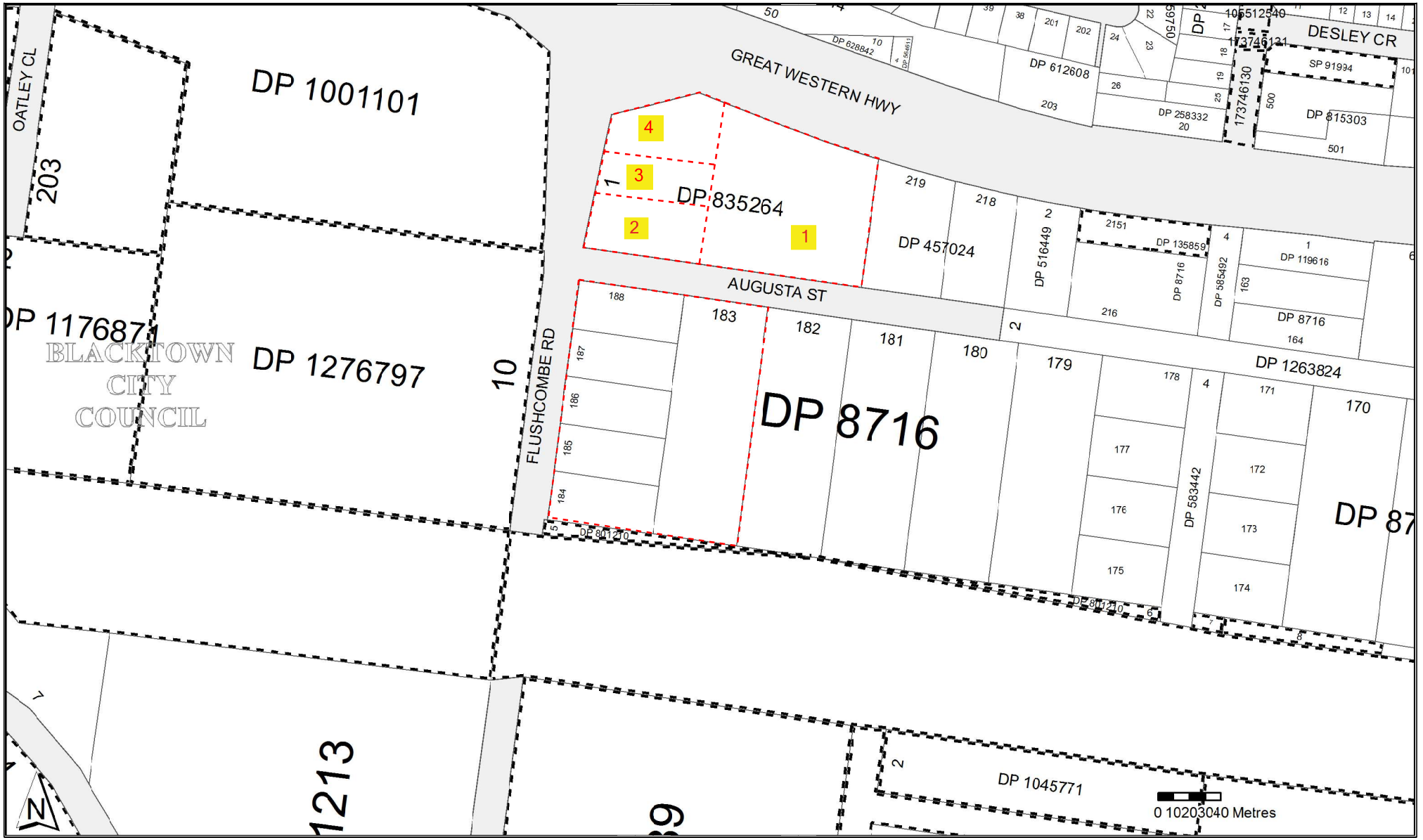
- Various leases were found from 13.09.1995 to 18.11.1999 that have since expired – not investigated.
- 22.07.2019 (AP 385582) to Fastform Australia Pty Limited – expires 07.03.2022.

Yours Sincerely
Mark Groll
31 October 2021

LAND REGISTRY SERVICES

Cadastral Records Enquiry Report : Lot 183 DP 8716

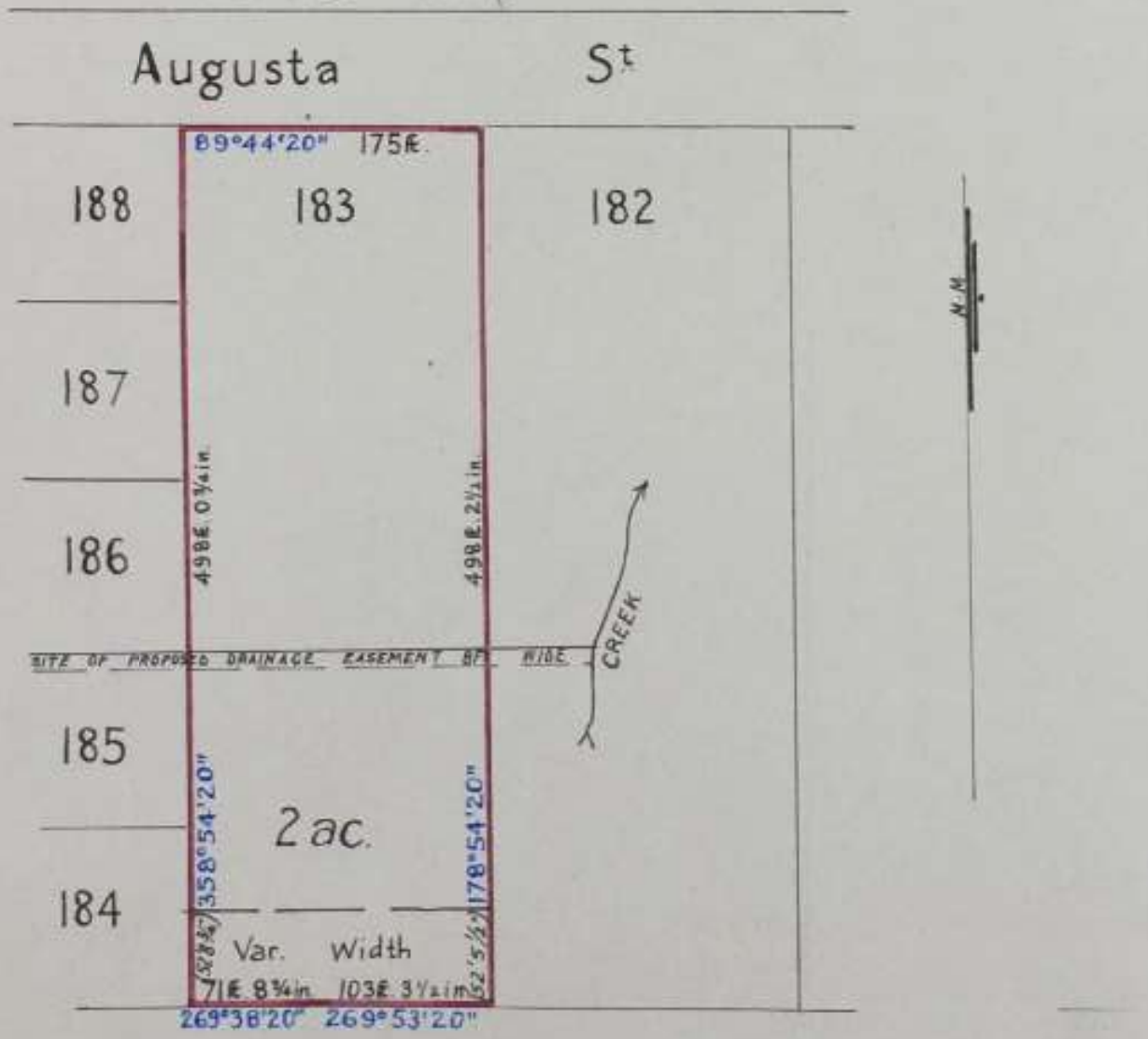
Locality : BLACKTOWN
LGA : BLACKTOWN
Parish : PROSPECT
County : CUMBERLAND



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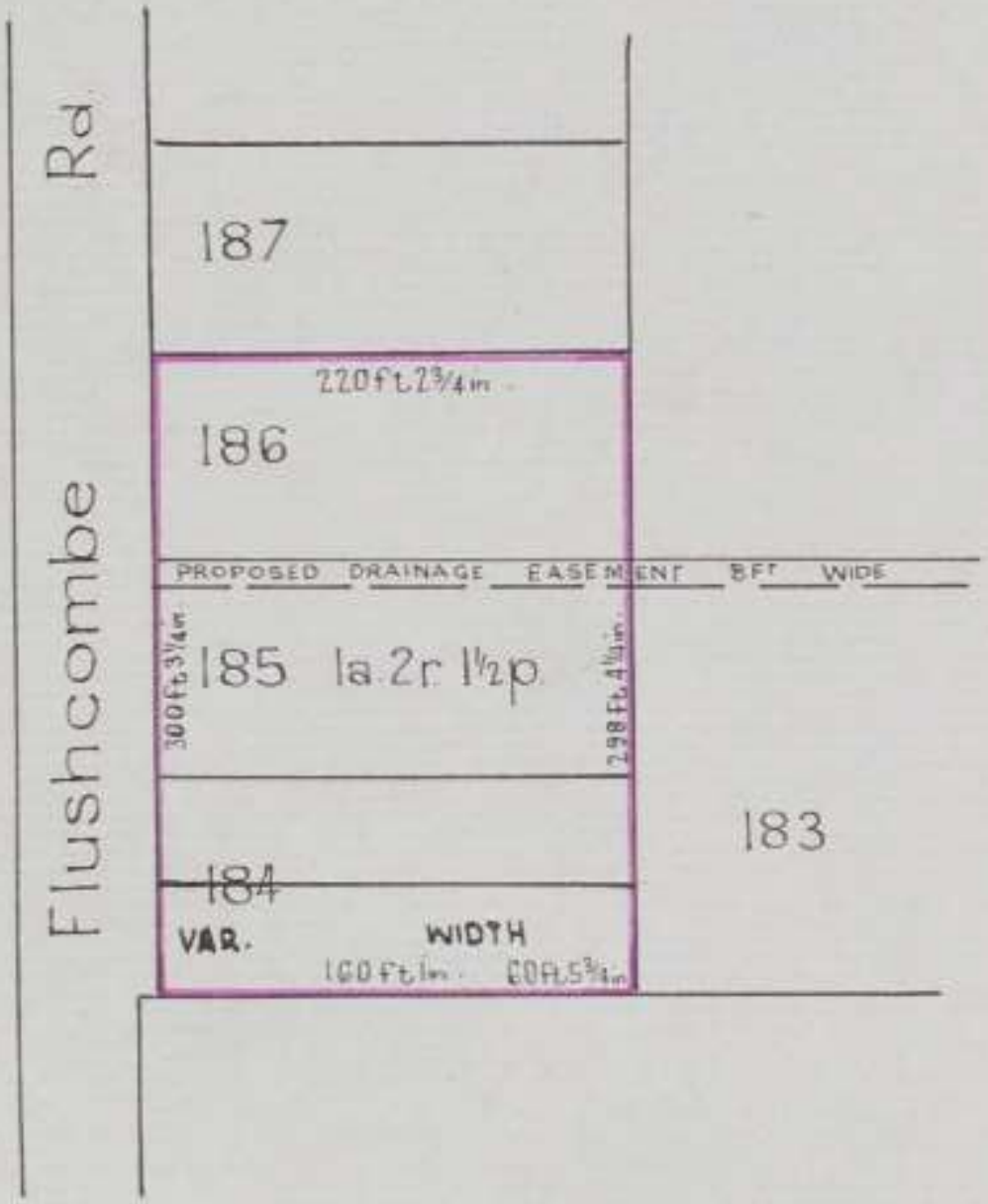
This information is provided as a searching aid only.Whilst every endeavour is made to ensure that current map, plan and titling information is accurately reflected, the Registrar General cannot guarantee the information provided. For ALL ACTIVITY PRIOR TO SEPTEMBER 2002 you must refer to the RGs Charting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

3416 - 104



Scale: 140 ft. to one inch.

A. 903546


Flushcombe Rd
187
220ft 2¾in
186
PROPOSED DRAINAGE EASEMENT 8FT WIDE
300ft 3¼in
185 1a 2r 1½p
298ft 4½in
183
184
VAR. WIDTH
160ft 1in EOR 5¾in

Req:R810304 /Doc:CT 13184-221 CT /Rev:08-Feb-2011 /NSW LRS /Pgs:ALL /Prt:29-Oct-2021 20:20 /Seq:1 of 2
© Office of the Registrar-General /Src:INFOTRACK /Ref:Blacktown - 3 Augusta Street

CERTIFICATE OF TITLE

NEW SOUTH WALES — PROPERTY ACT, 1900

13184-221

Appln No. 19229

Prior Title Vol. 3416 Fol. 104

Vol. 13184 Fol. 221

EDITION ISSUED 19 11 1976

(Page 1) Vol. 13184 Fol. 221

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.

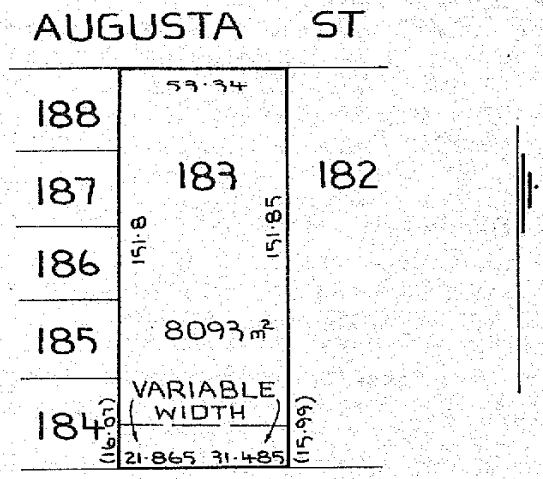
CANCELLED

Registrar General.

PLAN SHOWING LOCATION OF LAND

SEE AUTO FOLIO

LENGTHS ARE IN METRES



P923639 M.X.

REDUCTION RATIO 1:2000

ESTATE AND LAND REFERRED TO

Estate in Fee Simple in Lot 183 in Deposited Plan 8716 in the Municipality of Blacktown Parish of Prospect and County of Cumberland being part of Portion 194 granted to Robert Lethbridge on 30-6-1823.

FIRST SCHEDULE

~~EMANUEL TEUMA of Blacktown, Poultry Farmer and GRACE TEUMA his wife, as Joint Tenants as to two undivided one fifth shares and JOSEPH MICHAEL ANGELO TEUMA, TED EDWARD TEUMA and MICHAEL ANGELO TEUMA all of Blacktown, Poultry Farmers each to an undivided one fifth share as Tenants in Common.~~

SECOND SCHEDULE

1. Reservations and conditions, if any, contained in the Crown Grant above referred to.
2. Covenant created by Transfer No. A903546P
3. Easement for Transmission Line created by Transfer No. K116727P affecting that part of the land within described variable width shown in the plan hereon. DP
4. Mortgage No. P923639 to Bank of New South Wales. ~~Registered 18-10-1976~~. W605940

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.

Vol. 13184 Fol. 221

FIRST SCHEDULE (continued)

REGISTERED PROPRIETOR	INSTRUMENT NATURE	INSTRUMENT NUMBER	INSTRUMENT DATE	ENTERED	Signature of Registrar General
Emanuel Teuma and Grace Teuma in 1/5 share as joint tenants, Joseph Michael Angelo Teuma in 1/5 share, Ted Edward Teuma in 1/5 share, Michael Angelo Teuma in 1/5 share and Charles Teuma in 1/5 share all as tenants in common; by Transfer S482134 Registered 1-6-1981.					

CANCELLED

SEE AUTO FOLIO

CT 24-11-76
Q 20348
DP604009
S482131 2 3 4
CT 13 SEP 10
V378957T
W605900 DIM

SECOND SCHEDULE (continued)

INSTRUMENT NATURE	INSTRUMENT NUMBER	INSTRUMENT DATE	PARTICULARS	ENTERED	Signature of Registrar General	CANCELLATION		
Mortgage	Q20348	------	to Emanuel Teuma of Blacktown, Poultry Farmer and Grace Teuma his wife as regards the share of Joseph Michael Angelo Teuma.	28-1-1977		Discharged	S482131	
Mortgage	Q20349	------	to Emanuel Teuma of Blacktown, Poultry Farmer and Grace Teuma his wife as regards the share of Michael Angelo Teuma	28-1-1977		Discharged	S482132	
Mortgage	Q20350	------	to Emanuel Teuma of Blacktown, Poultry Farmer and Grace Teuma his wife as regards the share of Ted Edward Teuma	28-1-1977		Discharged	S482133	
Lease	Q20351	------	to Emanuel Teuma, Joseph Michael Angelo Teuma, Michael Angelo Teuma and Ted Edward Teuma. Date of expiry 30-6-2000. 28-1-1977					
V378957 P			Transfer - Easement for transmission line affecting the part of the land within described shown as "proposed easement for transmission line 30 metres wide in DP604009." Registered 11-12-1984.					

CANCELLED

SEE AUTO FOLIO

ET

(Page 2 of 2 pages)

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

Req:R810304 /Doc:CT 13184-221 CT /Rev:08-Feb-2011 /NSW LRS /Pgs:ALL /Prt:29-Oct-2021 20:20 /Seq:2 of 2
© Office of the Registrar-General /Src:INFOTRACK /Ref:Blacktown - 3 Augusta Street

Historical Title

NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE
29/10/2021 8:19PM

FOLIO: 183/8716

First Title(s): SEE PRIOR TITLE(S)
Prior Title(s): VOL 13184 FOL 221

Recorded	Number	Type of Instrument	C.T. Issue
21/8/1988		TITLE AUTOMATION PROJECT	LOT RECORDED FOLIO NOT CREATED
8/2/1989		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED
6/6/1995	O284565	REQUEST	
27/6/1995	O335262	REQUEST	
27/2/1996	O939819	APPLICATION FOR REPLACEMENT CERTIFICATE OF TITLE	EDITION 1
15/3/1996	2016994	MORTGAGE	EDITION 2
14/9/1999	6193725	DEPARTMENTAL DEALING	
14/2/2001	7410386	DISCHARGE OF MORTGAGE	EDITION 3
14/8/2001	7851892	CAVEAT	
23/8/2001	7876469	NOTICE OF DEATH	EDITION 4
22/3/2002	8454940	WITHDRAWAL OF CAVEAT	
10/10/2006	AC656370	TRANSFER	
10/10/2006	AC656371	MORTGAGE	EDITION 5
21/4/2015	AJ420718	DISCHARGE OF MORTGAGE	EDITION 6
3/7/2015	AJ624123	CAVEAT	
18/8/2016	AK689220	TRANSFER	
18/8/2016	AK689222	TRANSFER	EDITION 7
18/8/2016	AK689269	DEPARTMENTAL DEALING	EDITION 8
19/11/2016	AK936088	MORTGAGE	EDITION 9
27/2/2018	AN152980	CAVEAT	

END OF PAGE 1 - CONTINUED OVER

SEARCH DATE
29/10/2021 8:19PM

FOLIO: 183/8716 PAGE 2

Recorded	Number	Type of Instrument	C.T. Issue
6/3/2018	AN170676	CAVEAT	
4/4/2018	AN234733	CAVEAT	
13/4/2018	AN263327	CAVEAT	
31/5/2018	AN386416	CAVEAT	
19/6/2018	AN431233	DISCHARGE OF MORTGAGE	
19/6/2018	AN431234	WITHDRAWAL OF CAVEAT	
19/6/2018	AN431235	MORTGAGE	EDITION 10
12/12/2018	AN930840	WITHDRAWAL OF CAVEAT	
17/5/2019	AP260399	CAVEAT	
5/7/2019	AP361939	WITHDRAWAL OF CAVEAT	
5/7/2019	AP361940	WITHDRAWAL OF CAVEAT	
5/7/2019	AP361941	WITHDRAWAL OF CAVEAT	
5/7/2019	AP361942	DISCHARGE OF MORTGAGE	
5/7/2019	AP361943	MORTGAGE	EDITION 11
5/7/2019	AP361944	CAVEAT	
22/7/2019	AP385582	LEASE	EDITION 12
15/9/2020	AP912711	DEPARTMENTAL DEALING	
29/10/2021	AR566640	CAVEAT	EDITION 13

*** END OF SEARCH ***

InfoTrack an approved NSW Information Broker hereby certifies that the information contained in this document has been provided electronically by the Registrar General in accordance with Section 96B(2) of the Real Property Act 1900.

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Received: 29/10/2021 20:19:13

Req:R810305 /Doc:DL AC656370 /Rev:11-Oct-2006 /NSW LRS /Pgs:ALL /Prt:29-Oct-2021 20:20 /Seq:1 of 1
© Office of the Registrar-General /Src:INFOTRACK /Ref:Blacktown - 3 Augusta Street

Form: 01T
Licence: 98M111
Release: 0308

(1)

TRANSFER

New South Wales
Real Property Act 1900

AC656370C

PRIVACY NOTE: Section 31B of the Real Property Act 1900 (RP Act) authorises the Registrar-General to collect the information required by this form for the establishment and maintenance of the Real Property Act Register. Section 96B RP Act requires that the Register is made available to any person for search upon payment of a fee, if any.

STAMP DUTY

Office of State Revenue use only

NEW SOUTH WALES DUTY
22-09-2006 0003752502-001
SECTION 18(2)
DUTY $ **********2.00

(A) **TORRENS TITLE** **FOLIO IDENTIFIER 183/8716**

(B) **LODGED BY**

Delivery Box	Name, Address or DX and Telephone	CODES
602T	123441E : Phillips Fox . Sydney Reference: KEH : 0411442	T TW (Sheriff)

(C) **TRANSFEROR** **GRACE TEUMA, JOSEPH MICHAEL ANGELO TEUMA, TED EDWARD TEUMA, MICHAEL ANGELO TEUMA and CHARLES TEUMA**

(D) **CONSIDERATION** The transferor acknowledges receipt of the consideration of $2,750,000.00 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** **RED LEA PROPERTY PTY LTD (ACN 120 528 056)**

(I) **TENANCY:**

DATE 28 September 2006

(J) I certify that the transferor, 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: Karen Vella
Address of witness: 8 Reynolds Rd, Londonderry NSW 2753

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

Signature of Transferor:

Certified correct for the purposes of the Real Property Act 1900 by the person whose signature appears below.

Signature:

Signatory's name: Patricia Monemvasitis
Signatory's capacity: Solicitor for the Transferee

JAT c 420351

All handwriting must be in block capitals

A set of instructions for completing this form is available from the Department of Lands Land and Property Information Division PM/ PAD/2052274

Req:R810303 /Doc:DL AK689220 /Rev:23-Aug-2016 /NSW LRS /Pgs:ALL /Prt:29-Oct-2021 20:19 /Seq:1 of 1
© Office of the Registrar-General /Src:INFOTRACK /Ref:Blacktown - 3 Augusta Street

Form: 01T
Licence: 03-10-204
Licensee: Gadens Lawyers

4 TRANSFER

New South Wales
Real Property Act 1900

AK689220M

PRIVACY NOTE: Section 31B of the Real Property Act 1900 (RP Act) author required by this form for the establishment and maintenance of the Real P[illegible] Register. Section 96B RP Act requires that the Register is made available to any person for search upon payment of a fee, if any.

STAMP DUTY

Office of State Revenue use only

NEW SOUTH WALES DUTY
12-08-2016 0008213992-009
SECTION 18(2)
DUTY $ **********10.00

(A) **TORRENS TITLE**

If appropriate, specify the part transferred.

1/835264, 183/8716, Auto Consol 5443-220, Auto Consol 3110-137

(B) **LODGED BY**

Document Collection Box	Name, Address or DX and Telephone, and Customer Account Number if any	CODES
1W	Kardos Scanlan Corporate Lawyers Level 5, 151 Castlereagh Street SYDNEY NSW 2000 Reference (optional): Warren Davis (02) 9146 5267	T TW

(C) **TRANSFEROR**

RED LEA PROPERTY PTY LTD ACN 120 528 056

(D) **CONSIDERATION**

The transferor acknowledges receipt of the consideration of $10,315,301.50 and as regards see clause 57

(E) **ESTATE**

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

(F) **SHARE TRANSFERRED**

(G) Encumbrances (if applicable): 1. 2. 3.

(H) **TRANSFEREE**

RED LEA CHICKENS PTY LTD ACN 002 156 569

TENANCY:

DATE 01 / 07 / 2015
dd mm yyyy

Certified correct for the purposes of the Real Property Act 1900 by the corporation named below the common seal of which was affixed pursuant to the authority specified and in the presence of the authorised person(s) whose signature(s) appear(s) below.

Corporation: RED LEA PROPERTY PTY LTD ACN 120 528 056
Authority: Section 127 Corporations Act 2001

Signature of authorised person: G Velcich
Name of authorised person: Giovani velcich
Office held: director

Signature of authorised person: M Velcich
Name of authorised person: Mary velcich
Office held: secretary

Certified correct for the purposes of the Real Property Act 1900 on behalf of the transferee by the person whose signature appears below.

Signature:

Signatory's name: WARREN DAVIS

Signatory's capacity: Solicitor for Transferee

(K) The transferee / transferee's solicitor / transferee's agent certifies that the eNOS data relevant to this dealing has been submitted and stored under eNOS ID No. [ ] Full name: ..... Signature: .....

** s117 RP Act requires that you must have known the signatory for more than 12 months or have sighted identifying documentation.*

ALL HANDWRITING MUST BE IN BLOCK CAPITALS

20237269.3 BMK MYG

Title Search

NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

FOLIO: 183/8716

SEARCH DATE	TIME	EDITION NO	DATE
26/10/2021	11:16 PM	12	22/7/2019

LAND

LOT 183 IN DEPOSITED PLAN 8716
AT BLACKTOWN
LOCAL GOVERNMENT AREA BLACKTOWN
PARISH OF PROSPECT COUNTY OF CUMBERLAND
TITLE DIAGRAM DP8716

FIRST SCHEDULE

REDLEA GROUP HOLDING PTY LTD (T AK689222)

SECOND SCHEDULE (7 NOTIFICATIONS)

1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
2 A903546 COVENANT
3 K116727 EASEMENT FOR TRANSMISSION LINE AFFECTING THAT PART OF THE LAND WITHIN DESCRIBED VARIABLE WIDTH SHOWN IN PLAN WITH K116727
O335262 EASEMENT VESTED IN PROSPECT ELECTRICITY
4 V378957 EASEMENT FOR TRANSMISSION LINE AFFECTING THE PART OF THE LAND WITHIN DESCRIBED SHOWN AS PROPOSED EASEMENT FOR TRANSMISSION LINE 30 METRES WIDE IN DP604009
O284565 EASEMENT VESTED IN PROSPECT ELECTRICITY
5 AP361943 MORTGAGE TO ROYAL INTERNATIONAL GULF TRADING FZCO
* 6 AP361944 CAVEAT BY ROYAL INTERNATIONAL GULF TRADING FZCO
* AP385582 CAVEATOR CONSENTED
7 AP385582 LEASE TO FASTFORM AUSTRALIA PTY LIMITED OF "LEASE AREA" SHOWN HATCHED IN PLAN WITH AP385582. EXPIRES: 7/3/2022.

NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

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

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Received: 26/10/2021 23:16:25

Historical Title

NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE
29/10/2021 8:19PM

FOLIO: AUTO CONSOL 5443-220

Recorded	Number	Type of Instrument	C.T. Issue
15/4/1993		CONSOL HISTORY RECORD CREATED FOR AUTO CONSOL 5443-220	
		PARCELS IN CONSOL ARE: 184-186/8716.	
6/6/1995	O284565	REQUEST	
27/6/1995	O335262	REQUEST	
10/10/2006	AC656369	TRANSFER	
10/10/2006	AC656371	MORTGAGE	EDITION 1
21/4/2015	AJ420718	DISCHARGE OF MORTGAGE	EDITION 2
3/7/2015	AJ624123	CAVEAT	
18/8/2016	AK689220	TRANSFER	
18/8/2016	AK689223	TRANSFER	EDITION 3
18/8/2016	AK689269	DEPARTMENTAL DEALING	EDITION 4
19/11/2016	AK936088	MORTGAGE	EDITION 5
27/2/2018	AN152980	CAVEAT	
6/3/2018	AN170676	CAVEAT	
4/4/2018	AN234733	CAVEAT	
13/4/2018	AN263327	CAVEAT	
31/5/2018	AN386416	CAVEAT	
19/6/2018	AN431233	DISCHARGE OF MORTGAGE	
19/6/2018	AN431234	WITHDRAWAL OF CAVEAT	
19/6/2018	AN431235	MORTGAGE	EDITION 6
12/12/2018	AN930840	WITHDRAWAL OF CAVEAT	
17/5/2019	AP260399	CAVEAT	

END OF PAGE 1 - CONTINUED OVER

NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE
29/10/2021 8:19PM

FOLIO: AUTO CONSOL 5443-220 PAGE 2

Recorded	Number	Type of Instrument	C.T. Issue
5/7/2019	AP361939	WITHDRAWAL OF CAVEAT	
5/7/2019	AP361940	WITHDRAWAL OF CAVEAT	
5/7/2019	AP361941	WITHDRAWAL OF CAVEAT	
5/7/2019	AP361942	DISCHARGE OF MORTGAGE	
5/7/2019	AP361943	MORTGAGE	EDITION 7
5/7/2019	AP361944	CAVEAT	
22/7/2019	AP385582	LEASE	EDITION 8
19/8/2021	AR351952	PRIORITY NOTICE	
20/8/2021	AR352246	WITHDRAWAL OF CAVEAT	
20/8/2021	AR352247	DISCHARGE OF MORTGAGE	
20/8/2021	AR352248	MORTGAGE	EDITION 9

*** END OF SEARCH ***

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Req:R810302 /Doc:DL AC656369 /Rev:11-Oct-2006 /NSW LRS /Pgs:ALL /Prt:29-Oct-2021 20:19 /Seq:1 of 1
© Office of the Registrar-General /Src:INFOTRACK /Ref:Blacktown - 3 Augusta Street

Form: 01T
Licence: 98M111
Release: 0308

(1)

TRANSFER

New South Wales
Real Property Act 1900

AC656369L

PRIVACY NOTE: Section 31B of the Real Property Act 1900 (RP Act) authorises the Registrar General to collect the information required by this form for the establishment and maintenance of the Real Property Act Register. Section 96B RP Act requires that the Register is made available to any person for search upon payment of a fee, if any.

STAMP DUTY

Office of State Revenue use only

NEW SOUTH WALES DUTY
22-09-2006 0003750759-001
SECTION 18(2)
DUTY $ **********2.00

(A) **TORRENS TITLE** Volume 3110 Folio 137 now being Auto Consol 3110-137 and Volume 5443 Folio 220 now being Auto Consol 5443-220

(B) **LODGED BY**

Delivery Box	Name, Address or DX and Telephone	CODES
602T	12344E : Phillips Fox Reference:	T TW (Sheriff)

(C) **TRANSFEROR** **JOSEPH TEUMA & MICHAEL TEUMA**

(D) **CONSIDERATION** The transferor acknowledges receipt of the consideration of $3,100,000.00 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** **RED LEA PROPERTY PTY LTD (ACN 120 528 056)**

(I) **TENANCY:**

DATE 28 September, 2006

(J) I certify that the transferor, with whom I am personally acquainted or as to whose identity I am otherwise satisfied, signed this instrument in my presence.

Signature of witness: KVella

Name of witness: Karen Vella
Address of witness: 8 Reynolds Rd. Londonderry. NSW 2753

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

Signature of Transferor: J. Teuma
M Teuma.

Certified correct for the purposes of the Real Property Act 1900 by the person whose signature appears below.

Signature:

Signatory's name: Patricia Monemvasitis
Signatory's capacity: Solicitor for the Transferee

All handwriting must be in block capitals

A set of instructions for completing this form is available from the Department of Lands Land and Property Information Division PM/ PAD/2052344

Title Search

NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

FOLIO: AUTO CONSOL 5443-220

SEARCH DATE	TIME	EDITION NO	DATE
26/10/2021	11:16 PM	9	20/8/2021

LAND

LAND DESCRIBED IN SCHEDULE OF PARCELS
LOCAL GOVERNMENT AREA BLACKTOWN
PARISH OF PROSPECT COUNTY OF CUMBERLAND
TITLE DIAGRAM DP8716

FIRST SCHEDULE

REDLEA GROUP HOLDING PTY LTD (T AK689223)

SECOND SCHEDULE (6 NOTIFICATIONS)

1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
2 A640316 COVENANT
3 J946973 EASEMENT FOR TRANSMISSION LINE AFFECTING THE PART WITHIN LOT 184 SHOWN SO BURDENED IN VOL 5443 FOL 220
O335262 EASEMENT VESTED IN PROSPECT ELECTRICITY
4 V378958 EASEMENT FOR TRANSMISSION LINE AFFECTING THE PART OF THE LAND WITHIN DESCRIBED SHOWN 30 WIDE IN DP604009
O284565 EASEMENT VESTED IN PROSPECT ELECTRICITY
5 AP385582 LEASE TO FASTFORM AUSTRALIA PTY LIMITED OF "LEASE AREA" AFFECTING PART LOT 186 IN DP8716 SHOWN HATCHED IN PLAN WITH AP385582. EXPIRES: 7/3/2022.
6 AR352248 MORTGAGE TO PACIFIC 8 PTY LTD

NOTATIONS

UNREGISTERED DEALINGS: NIL

SCHEDULE OF PARCELS

LOTS 184-186 IN DP8716.

*** 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: 26/10/2021 23:16:25

Historical Title

NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE
29/10/2021 8:19PM

FOLIO: AUTO CONSOL 3110-137

Recorded	Number	Type of Instrument	C.T. Issue
19/11/1993		CONSOL HISTORY RECORD CREATED FOR AUTO CONSOL 3110-137	
		PARCELS IN CONSOL ARE: 187-188/8716.	
10/10/2006	AC656369	TRANSFER	
10/10/2006	AC656371	MORTGAGE	EDITION 1
21/4/2015	AJ420718	DISCHARGE OF MORTGAGE	EDITION 2
3/7/2015	AJ624123	CAVEAT	
18/8/2016	AK689220	TRANSFER	
18/8/2016	AK689223	TRANSFER	EDITION 3
18/8/2016	AK689269	DEPARTMENTAL DEALING	EDITION 4
19/11/2016	AK936088	MORTGAGE	EDITION 5
27/2/2018	AN152980	CAVEAT	
6/3/2018	AN170676	CAVEAT	
4/4/2018	AN234733	CAVEAT	
13/4/2018	AN263327	CAVEAT	
31/5/2018	AN386416	CAVEAT	
19/6/2018	AN431233	DISCHARGE OF MORTGAGE	
19/6/2018	AN431234	WITHDRAWAL OF CAVEAT	
19/6/2018	AN431235	MORTGAGE	EDITION 6
12/12/2018	AN930840	WITHDRAWAL OF CAVEAT	
17/5/2019	AP260399	CAVEAT	
5/7/2019	AP361939	WITHDRAWAL OF CAVEAT	
5/7/2019	AP361940	WITHDRAWAL OF CAVEAT	
5/7/2019	AP361941	WITHDRAWAL OF CAVEAT	
5/7/2019	AP361942	DISCHARGE OF MORTGAGE	

END OF PAGE 1 - CONTINUED OVER

NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE
29/10/2021 8:19PM

FOLIO: AUTO CONSOL 3110-137 PAGE 2

Recorded	Number	Type of Instrument	C.T. Issue
5/7/2019	AP361943	MORTGAGE	EDITION 7
5/7/2019	AP361944	CAVEAT	
22/7/2019	AP385582	LEASE	EDITION 8
2/9/2020	AP515038	WITHDRAWN - LEASE	
2/9/2020	AP515038	WITHDRAWN - LEASE	
19/8/2021	AR351952	PRIORITY NOTICE	
20/8/2021	AR352246	WITHDRAWAL OF CAVEAT	
20/8/2021	AR352247	DISCHARGE OF MORTGAGE	
20/8/2021	AR352248	MORTGAGE	EDITION 9

*** END OF SEARCH ***

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Received: 29/10/2021 20:19:12

Title Search

NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

FOLIO: AUTO CONSOL 3110-137

SEARCH DATE	TIME	EDITION NO	DATE
26/10/2021	11:16 PM	9	20/8/2021

LAND

LAND DESCRIBED IN SCHEDULE OF PARCELS
LOCAL GOVERNMENT AREA BLACKTOWN
PARISH OF PROSPECT COUNTY OF CUMBERLAND
TITLE DIAGRAM DP8716

FIRST SCHEDULE

REDLEA GROUP HOLDING PTY LTD (T AK689223)

SECOND SCHEDULE (4 NOTIFICATIONS)

1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
2 A624349 COVENANT
3 AP385582 LEASE TO FASTFORM AUSTRALIA PTY LIMITED OF "LEASE AREA" AFFECTING PART LOT 187 IN DP8716 SHOWN HATCHED IN PLAN WITH AP385582. EXPIRES: 7/3/2022.
4 AR352248 MORTGAGE TO PACIFIC 8 PTY LTD

NOTATIONS

UNREGISTERED DEALINGS: NIL

SCHEDULE OF PARCELS

LOTS 187-188 IN DP8716.

*** 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: 26/10/2021 23:16:24

Req:R785371 /Doc:CT 12961-089 CT /Rev:16-Dec-2010 /NSW LRS /Pgs:ALL /Prt:26-Oct-2021 23:14 /Seq:1 of 4
© Office of the Registrar-General /Src:INFOTRACK /Ref:Blacktown - 3 Augusta Street

FRAMED IN LIEU OF MISSING REGISTER

CERTIFICATE OF TITLE

NEW SOUTH WALES

REAL PROPERTY ACT, 1900

Appln No. 19229

Vol. .....

12961089

Prior Titles Vol. 7375 Fols. 8 & 9

CANCELLED

EDITION ISSUED

7 1 1976

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.

Registrar General.

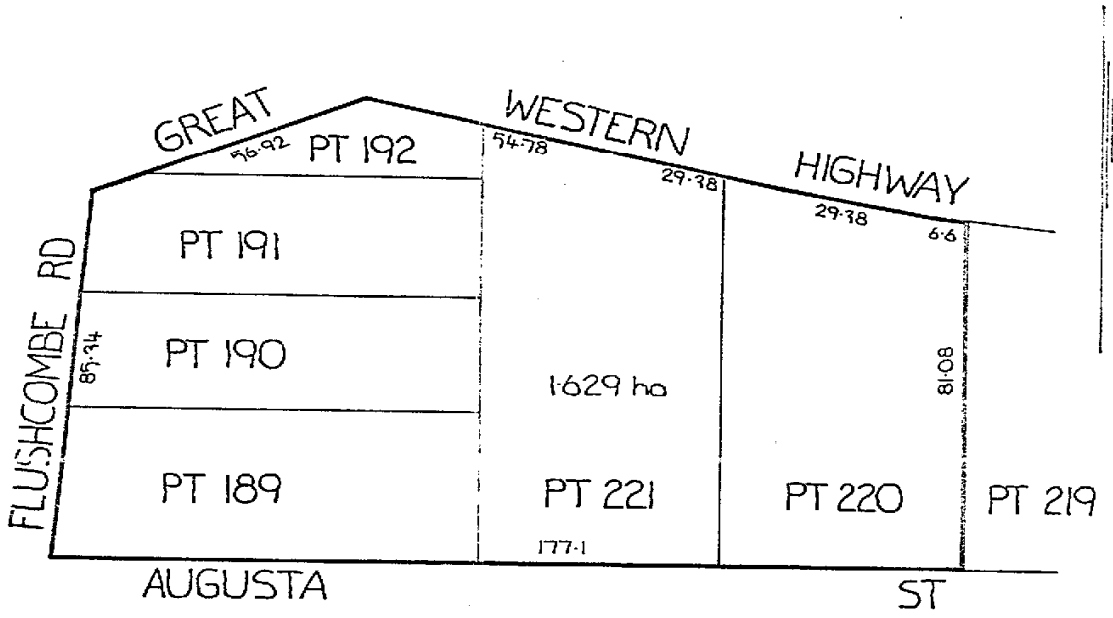
12961 Fol. 89

(Page 1) Vol. .....

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

PLAN SHOWING LOCATION OF LAND

LENGTHS ARE IN METRES



P500126 60 ga.

REDUCTION RATIO 1:250

ESTATE AND LAND REFERRED TO

Estate in Fee Simple in the parts of Lots 189, 190, 191, 192, 220 and 221 in Deposited Plan 8716 shown in the plan hereon in the Municipality of Blacktown Parish of Prospect and County of Cumberland being part of Portion 194 granted to Robert Lethbridge on 30-6-1823.

FIRST SCHEDULE

~~CHRISTOPHER JOHN CUICK of Blacktown, Builder.~~

SECOND SCHEDULE

1. Reservations and conditions, if any, contained in the Crown Grant above referred to.
2. Covenants created by Transfers Nos. A637022 (Lots 191 and 192), A640315 (Lot 190), A903545 (Lots 220 and 221) and B679034 (Lot 189).
3. The registered proprietor holds subject to Section 604 Local Government Act, 1919 as regards Lots 191 and 192.

RG 2/63

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

Vol. 12961 Fol. 89

FIRST SCHEDULE (continued)

REGISTERED PROPRIETOR	INSTRUMENT NATURE	INSTRUMENT NUMBER	REGISTERED	Signature of Registrar General
~~Hilda Louise Quick of Blacktown, Widow~~	~~Transmission~~	~~P673418~~	~~9-4-1976~~	
~~New South Wales Planning and Environment Commission~~	~~Transfer~~	~~Q12143~~	~~17-12-1976~~	
The Forestry Commission of New South Wales by Transfer X571918 Registered 30-5-1988				

CANCELLED ☐
ON ISSUE OF NEW FOLIO 1/835264

SECOND SCHEDULE (continued)

INSTRUMENT NATURE	INSTRUMENT NUMBER	PARTICULARS	REGISTERED	Signature of Registrar General	CANCELLATION	

(Page 2 of 2 pages)

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

Req:R785371 /Doc:CT 12961-089 CT /Rev:16-Dec-2010 /NSW LRS /Pgs:ALL /Prt:26-Oct-2021 23:14 /Seq:2 of 4
© Office of the Registrar-General /Src:INFOTRACK /Ref:Blacktown - 3 Augusta Street

Req:R785371 /Doc:CT 12961-089 CT /Rev:16-Dec-2010 /NSW LRS /Pgs:ALL /Prt:26-Oct-2021 23:14 /Seq:3 of 4
© Office of the Registrar-General /Src:INFOTRACK /Ref:Blacktown - 3 Augusta Street

CERTIFICATE OF TITLE

NEW SOUTH WALES

REAL PROPERTY ACT, 1900

Appln No. 19229

Prior Titles Vol. 7375 Fols. 8 & 9

Vol. 12961 Fol. 89

CANCELLED [2] EDITION ISSUED

1/835264 7 1 1976

12961 89

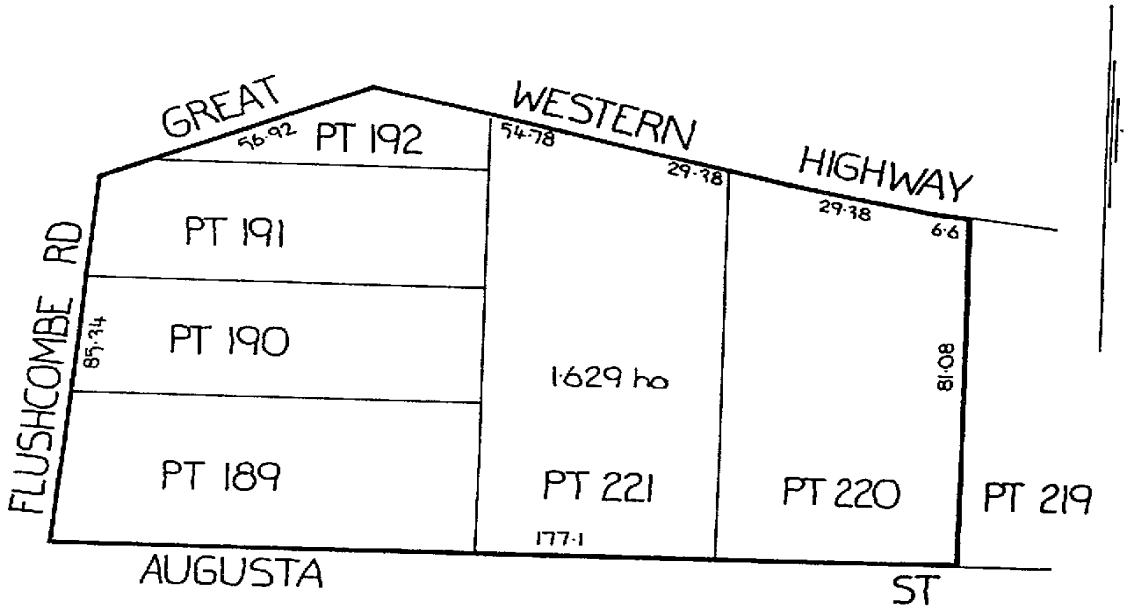
(Page 1) Vol. ..... Fol. .....

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.

Registrar General.

PLAN SHOWING LOCATION OF LAND

LENGTHS ARE IN METRES



P500126 60 ga.

REDUCTION RATIO 1:1250

ESTATE AND LAND REFERRED TO

Estate in Fee Simple in the parts of Lots 189, 190, 191, 192, 220 and 221 in Deposited Plan 8716 shown in the plan hereon in the Municipality of Blacktown Parish of Prospect and County of Cumberland being part of Portion 194 granted to Robert Lethbridge on 30-6-1823.

FIRST SCHEDULE

~~CHRISTOPHER JOHN CHICK~~ of Blacktown, Builder.

SECOND SCHEDULE

1. Reservations and conditions, if any, contained in the Crown Grant above referred to.
2. Covenants created by Transfers Nos. A637022 (Lots 191 and 192), A640315 (Lot 190), A903545 (Lots 220 and 221) and B679034 (Lot 189).
3. The registered proprietor holds subject to Section 604 Local Government Act, 1919 as regards Lots 191 and 192.

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.

CT 29/3/76
P673418T/AR
Q12143 to R
X571918T R

FIRST SCHEDULE (continued)

REGISTERED PROPRIETOR	INSTRUMENT NATURE	INSTRUMENT NUMBER	INSTRUMENT DATE	ENTERED	Signature of Registrar General
~~Hilda Louise Quick of Blacktown, Widow~~	Transmission	P673418	———	9-4-1976	
~~New South Wales Planning and Environment Commission~~	Transfer	Q12143	-----	17-12-1976	
The Forestry Commission of New South Wales by Transfer X571918 Registered 30-5-1988					

Fol. 12961 89

SECOND SCHEDULE (continued)

INSTRUMENT NATURE	INSTRUMENT NUMBER	INSTRUMENT DATE	PARTICULARS	ENTERED	Signature of Registrar General	CANCELLATION
			C.of F 835264 Registered 3.12.1993 This folio is cancelled as to whole/~~part~~ upon creation of computer folios for lot/s 1 in the abovementioned plan.			

B

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

Req:R785371 /Doc:CT 12961-089 CT /Rev:16-Dec-2010 /NSW LRS /Pgs:ALL /Prt:26-Oct-2021 23:14 /Seq:4 of 4
© Office of the Registrar-General /Src:INFOTRACK /Ref:Blacktown - 3 Augusta Street
Pages 4 of 4

Historical Title

NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE
26/10/2021 11:14PM

FOLIO: 1/835264

First Title(s): OLD SYSTEM
Prior Title(s): VOL 12961 FOL 89

Recorded	Number	Type of Instrument	C.T. Issue
3/12/1993	DP835264	DEPOSITED PLAN	FOLIO CREATED EDITION 1
13/9/1995	O531257	LEASE	EDITION 2
5/8/1997	3293925	LEASE	EDITION 3
10/9/1998	5257135	LEASE	EDITION 4
18/11/1999	6355366	LEASE	EDITION 5
1/6/2007	AD161720	TRANSFER	EDITION 6
19/7/2007	AD279920	MORTGAGE	EDITION 7
21/4/2015	AJ420713	DISCHARGE OF MORTGAGE	EDITION 8
3/7/2015	AJ624123	CAVEAT	
18/8/2016	AK689220	TRANSFER	
18/8/2016	AK689221	TRANSFER	EDITION 9
18/8/2016	AK689269	DEPARTMENTAL DEALING	EDITION 10
19/11/2016	AK935982	MORTGAGE	EDITION 11
27/2/2018	AN152980	CAVEAT	
6/3/2018	AN170676	CAVEAT	
4/4/2018	AN234733	CAVEAT	
13/4/2018	AN263327	CAVEAT	
31/5/2018	AN386416	CAVEAT	
19/6/2018	AN431232	DISCHARGE OF MORTGAGE	
19/6/2018	AN431234	WITHDRAWAL OF CAVEAT	
19/6/2018	AN431235	MORTGAGE	EDITION 12
12/12/2018	AN930840	WITHDRAWAL OF CAVEAT	

END OF PAGE 1 - CONTINUED OVER

SEARCH DATE
26/10/2021 11:14PM

FOLIO: 1/835264 PAGE 2

Recorded	Number	Type of Instrument	C.T. Issue
17/5/2019	AP260399	CAVEAT	
5/7/2019	AP361939	WITHDRAWAL OF CAVEAT	
5/7/2019	AP361940	WITHDRAWAL OF CAVEAT	
5/7/2019	AP361941	WITHDRAWAL OF CAVEAT	
5/7/2019	AP361942	DISCHARGE OF MORTGAGE	
5/7/2019	AP361943	MORTGAGE	EDITION 13
5/7/2019	AP361944	CAVEAT	
31/1/2020	AP863092	LEASE	EDITION 14

*** END OF SEARCH ***

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Req:R785372 /Doc:DL AD161720 /Rev:04-Jun-2007 /NSW LRS /Pgs:ALL /Prt:26-Oct-2021 23:14 /Seq:1 of 1
© Office of the Registrar-General /Src:INFOTRACK /Ref:Blacktown - 3 Augusta Street

Form: 01T
Release: 1
www.lpi.nsw.gov.au

TRANSFER

New South Wales
Real Property Act, 1900

AD161720K

PRIVACY NOTE: this information is legally required and will become part of the public record

STAMP DUTY Office of State Revenue use only

Office of State Revenue
NSW Treasury
Client No: 5736214 882
Duty: 50.00 Trans No: 42799219
Asst details:

(A) **TORRENS TITLE** Folio Identifier 1/835264

(B) **LODGED BY**

Delivery Box	Name, Address or DX and Telephone	CODES
602T	DLA Phillips Fox DX 107 SYDNEY 92868000 Reference: WGC 0428902 SGM 123441E	T TW (Sheriff)

(C) **TRANSFEROR** **FORESTRY COMMISSION OF NEW SOUTH WALES (ABN 43 141 857 613)**

(D) **CONSIDERATION** The transferor acknowledges receipt of the consideration of $4,050,000.00 and as regards

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

(F) **SHARE TRANSFERRED**

(G) Encumbrances (if applicable):

(H) **TRANSFEREE** **RED LEA PROPERTY PTY LIMITED (ACN 120 528 056)**

(I) **TENANCY:**

(J) **DATE** 30 May 2007

Certified correct for the purposes of the Real Property Act 1900 and executed on behalf of the corporation named below the common seal of which was affixed pursuant to the authority specified and in the presence of the authorised person(s) whose signature(s) appear(s) below

Corporation: **FORESTRY COMMISSION OF NEW SOUTH WALES**
Authority: pursuant to Section 127 of *Corporations Act 2001*

Signature of authorised person:

Name of authorised person: ALASTAIR HOWARD
Office held: DIRECTOR LAND MANAGEMENT & TECHNICAL SERVICES.

Signature of authorised person:

Name of authorised person: N.J.V. ROBERTS
Office held: C.E.O.

Certified correct for the purposes of the Real Property Act 1900 by the person whose signature appears below.

Signature:

Signatory's name: PAUL ANTHONY CARROLL
Signatory's capacity: Solicitor

All handwriting must be in block capitals

Land and Property Information NSW
PAC/ PAD/2210266

OFF L 6355366

Req:R785374 /Doc:DL AK689221 /Rev:23-Aug-2016 /NSW LRS /Pgs:ALL /Prt:26-Oct-2021 23:14 /Seq:1 of 1
© Office of the Registrar-General /Src:INFOTRACK /Ref:Blacktown - 3 Augusta Street

Form: 01T
Licence: 03-10-204
Licensee: Gadens Lawyers

(1)

TRANSFEI

New South Wales
Real Property Act 19(

AK689221K

PRIVACY NOTE: Section 31B of the Real Property Act 1900 (RP Act) auth[illegible] n
required by this form for the establishment and maintenance of the Real[illegible] s
that the Register is made available to any person for search upon payment of a fee, if any.

STAMP DUTY

Office of State Revenue use only

NEW SOUTH WALES DUTY
05-02-2016 0008533099-002
SECTION 273B(1)-ORIGINAL
NO DUTY PAYABLE

(A) TORRENS TITLE

If appropriate, specify the part transferred.

1/835264

(B) LODGED BY

Document Collection Box	Name, Address or DX and Telephone, and Customer Account Number if any	CODES
1W	Kardos Scanlan Corporate Lawyers Level 5, 151 Castlereagh Street SYDNEY NSW 2000 Reference (optional): Warren Davis (02) 9146 5267	T TW

(C) TRANSFEROR

RED LEA CHICKENS PTY LTD ACN 002 156 569

(D) CONSIDERATION

The transferor acknowledges receipt of the consideration of ($4,657,978) see clause 57 and as regards the land specified above transfers to the transferee an estate in fee simple

Received State Revenue ALTERATION NOTED

(E) ESTATE

(F) SHARE TRANSFERRED

(G)

Encumbrances (if applicable): 1. 2. 3.

(H) TRANSFEREE

REDLEA GROUP HOLDING PTY LTD ACN 602 950 505

TENANCY:

DATE 01 / 07 / 2015
dd mm yyyy

Certified correct for the purposes of the Real Property Act 1900 by the corporation named below the common seal of which was affixed pursuant to the authority specified and in the presence of the authorised person(s) whose signature(s) appear(s) below.

Corporation: RED LEA CHICKENS PTY LTD ACN 002 156 569
Authority: Section 127 Corporations Act 2001
Signature of authorised person:
Name of authorised person: MALIK MUHAMMAD ASIF
Office held: DIRECTOR

Signature of authorised person:
Name of authorised person: ASAD ULLAH ASIF
Office held: DIRECTOR

Certified correct for the purposes of the Real Property Act 1900 on behalf of the transferee by the person whose signature appears below.

Signature:

Signatory's name: WARREN DAVIS

Signatory's capacity: Solicitor for Transferee

(K) The transferee / transferee's solicitor / transferee's agent certifies that the eNOS data relevant to this dealing has been submitted and stored under eNOS ID No. [ ] Full name: ..... Signature: .....

** s117 RP Act requires that you must have known the signatory for more than 12 months or have sighted identifying documentation.*

ALL HANDWRITING MUST BE IN BLOCK CAPITALS

20237269.3 BMK MYG

Title Search

NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

FOLIO: 1/835264

SEARCH DATE	TIME	EDITION NO	DATE
26/10/2021	11:13 PM	14	31/1/2020

LAND

LOT 1 IN DEPOSITED PLAN 835264
AT PROSPECT
LOCAL GOVERNMENT AREA BLACKTOWN
PARISH OF PROSPECT COUNTY OF CUMBERLAND
TITLE DIAGRAM DP835264

FIRST SCHEDULE

REDLEA GROUP HOLDING PTY LTD (T AK689221)

SECOND SCHEDULE (8 NOTIFICATIONS)

1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
2 A637022 COVENANT AFFECTING THE PART SHOWN SO BURDENED IN THE TITLE DIAGRAM.
3 A640315 COVENANT AFFECTING THE PART SHOWN SO BURDENED IN THE TITLE DIAGRAM.
4 A903545 COVENANT AFFECTING THE PART SHOWN SO BURDENED IN THE TITLE DIAGRAM.
5 B679034 COVENANT AFFECTING THE PART SHOWN SO BURDENED IN THE TITLE DIAGRAM.
6 AP361943 MORTGAGE TO ROYAL INTERNATIONAL GULF TRADING FZCO
* 7 AP361944 CAVEAT BY ROYAL INTERNATIONAL GULF TRADING FZCO
* AP863092 CAVEATOR CONSENTED
8 AP863092 LEASE TO UNIVERSAL PROPERTY GROUP PTY LIMITED OF "WAREHOUSE", 3 AUGUSTA STREET, BLACKTOWN. EXPIRES: 19/12/2022. OPTION OF RENEWAL: 3 YEARS.

NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

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

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Received: 26/10/2021 23:13:51

Appendix H Laboratory Analytical Results and Chain of Custody

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, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention: **Gina Pinget**

Report **890110-S-V4**
Project name HUNTINGWOOD
Project ID 62742
Received Date May 13, 2022

Client Sample ID			[G01]**MW01-0-0.1**	**MW01-1.5-1.6**	**MW02-2.5-2.6**	**MW03-0-0.1**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**S22-My0047208**	**S22-My0047209**	**S22-My0047212**	**S22-My0047213**
Date Sampled			**May 09, 2022**	**May 09, 2022**	**May 09, 2022**	**May 09, 2022**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	32	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	66	< 50	< 50	110
TRH C29-C36	50	mg/kg	72	< 50	74	120
TRH C10-C36 (Total)	50	mg/kg	170	< 50	74	230
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	110	< 100	< 100	300
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	340
TRH >C10-C40 (total)*	100	mg/kg	110	< 100	< 100	640
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	0.3
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	0.2
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	0.4
4-Bromofluorobenzene (surr.)	1	%	97	87	92	52
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

Client Sample ID			[G01]MW01-0-0.1	MW01-1.5-1.6	MW02-2.5-2.6	MW03-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-My0047208	S22-My0047209	S22-My0047212	S22-My0047213
Date Sampled			May 09, 2022	May 09, 2022	May 09, 2022	May 09, 2022
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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	%	118	-	139	118
p-Terphenyl-d14 (surr.)	1	%	86	-	113	93
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 1	-	< 0.1	-
4.4'-DDD	0.05	mg/kg	< 0.5	-	< 0.05	-
4.4'-DDE	0.05	mg/kg	< 0.5	-	< 0.05	-
4.4'-DDT	0.05	mg/kg	< 0.5	-	< 0.05	-
a-HCH	0.05	mg/kg	< 0.5	-	< 0.05	-
Aldrin	0.05	mg/kg	< 0.5	-	< 0.05	-
b-HCH	0.05	mg/kg	< 0.5	-	< 0.05	-
d-HCH	0.05	mg/kg	< 0.5	-	< 0.05	-
Dieldrin	0.05	mg/kg	< 0.5	-	< 0.05	-
Endosulfan I	0.05	mg/kg	< 0.5	-	< 0.05	-
Endosulfan II	0.05	mg/kg	< 0.5	-	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	< 0.5	-	< 0.05	-
Endrin	0.05	mg/kg	< 0.5	-	< 0.05	-
Endrin aldehyde	0.05	mg/kg	< 0.5	-	< 0.05	-
Endrin ketone	0.05	mg/kg	< 0.5	-	< 0.05	-
g-HCH (Lindane)	0.05	mg/kg	< 0.5	-	< 0.05	-
Heptachlor	0.05	mg/kg	< 0.5	-	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	< 0.5	-	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	< 0.5	-	< 0.05	-
Methoxychlor	0.05	mg/kg	< 0.5	-	< 0.05	-
Toxaphene	0.5	mg/kg	< 10	-	< 0.5	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.5	-	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.5	-	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 1	-	< 0.1	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 1	-	< 0.1	-
Dibutylchlorendate (surr.)	1	%	[Q09]INT	-	83	-
Tetrachloro-m-xylene (surr.)	1	%	63	-	84	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 1	-	< 0.1	-
Aroclor-1221	0.1	mg/kg	< 1	-	< 0.1	-
Aroclor-1232	0.1	mg/kg	< 1	-	< 0.1	-
Aroclor-1242	0.1	mg/kg	< 1	-	< 0.1	-
Aroclor-1248	0.1	mg/kg	< 1	-	< 0.1	-
Aroclor-1254	0.1	mg/kg	< 1	-	< 0.1	-
Aroclor-1260	0.1	mg/kg	< 1	-	< 0.1	-
Total PCB*	0.1	mg/kg	< 1	-	< 0.1	-
Dibutylchlorendate (surr.)	1	%	[Q09]INT	-	83	-
Tetrachloro-m-xylene (surr.)	1	%	63	-	84	-

Client Sample ID			[G01]MW01-0-0.1	MW01-1.5-1.6	MW02-2.5-2.6	MW03-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-My0047208	S22-My0047209	S22-My0047212	S22-My0047213
Date Sampled			May 09, 2022	May 09, 2022	May 09, 2022	May 09, 2022
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	9.6	-	11	16
Cadmium	0.4	mg/kg	< 0.4	-	< 0.4	< 0.4
Chromium	5	mg/kg	24	-	22	21
Copper	5	mg/kg	31	-	28	68
Lead	5	mg/kg	23	-	26	18
Mercury	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Nickel	5	mg/kg	19	-	15	20
Zinc	5	mg/kg	89	-	66	110
% Moisture	1	%	27	13	20	15
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	< 5	-	-	-
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	< 5	-	-	-
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	< 5	-	-	-
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	< 5	-	-	-
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	< 5	-	-	-
13C4-PFBA (surr.)	1	%	80	-	-	-
13C5-PFPeA (surr.)	1	%	92	-	-	-
13C5-PFHxA (surr.)	1	%	89	-	-	-
13C4-PFHpA (surr.)	1	%	83	-	-	-
13C8-PFOA (surr.)	1	%	93	-	-	-
13C5-PFNA (surr.)	1	%	91	-	-	-
13C6-PFDA (surr.)	1	%	87	-	-	-
13C2-PFUnDA (surr.)	1	%	91	-	-	-
13C2-PFDoDA (surr.)	1	%	98	-	-	-
13C2-PFTeDA (surr.)	1	%	89	-	-	-
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	< 5	-	-	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	< 5	-	-	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	< 5	-	-	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	< 5	-	-	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	< 5	-	-	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	< 10	-	-	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	< 10	-	-	-
13C8-FOSA (surr.)	1	%	81	-	-	-
D3-N-MeFOSA (surr.)	1	%	69	-	-	-
D5-N-EtFOSA (surr.)	1	%	76	-	-	-
D7-N-MeFOSE (surr.)	1	%	65	-	-	-
D9-N-EtFOSE (surr.)	1	%	69	-	-	-

Client Sample ID			[G01]MW01-0-0.1	MW01-1.5-1.6	MW02-2.5-2.6	MW03-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-My0047208	S22-My0047209	S22-My0047212	S22-My0047213
Date Sampled			May 09, 2022	May 09, 2022	May 09, 2022	May 09, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
D5-N-EtFOSAA (surr.)	1	%	107	-	-	-
D3-N-MeFOSAA (surr.)	1	%	103	-	-	-
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	< 5	-	-	-
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	< 5	-	-	-
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	< 5	-	-	-
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	< 5	-	-	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	-	-	-
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	< 5	-	-	-
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	< 5	-	-	-
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	< 5	-	-	-
13C3-PFBS (surr.)	1	%	88	-	-	-
18O2-PFHxS (surr.)	1	%	93	-	-	-
13C8-PFOS (surr.)	1	%	88	-	-	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	< 5	-	-	-
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	< 10	-	-	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	< 5	-	-	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	< 5	-	-	-
13C2-4:2 FTSA (surr.)	1	%	124	-	-	-
13C2-6:2 FTSA (surr.)	1	%	124	-	-	-
13C2-8:2 FTSA (surr.)	1	%	152	-	-	-
13C2-10:2 FTSA (surr.)	1	%	[Q09]INT	-	-	-
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	-	-	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	-	-	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	-	-	-
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	-	-	-
Sum of PFASs (n=30)*	50	ug/kg	< 50	-	-	-

Client Sample ID			MW04-0-0.1	[G01]SB01-0.3-0.4	SB01-0.7-0.8	SB02-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-My0047216	S22-My0047217	S22-My0047218	S22-My0047221
Date Sampled			May 10, 2022	May 10, 2022	May 10, 2022	May 12, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	-
TRH C10-C14	20	mg/kg	24	< 20	< 20	-
TRH C15-C28	50	mg/kg	170	50	54	-
TRH C29-C36	50	mg/kg	140	150	90	-
TRH C10-C36 (Total)	50	mg/kg	334	200	144	-
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	-

Client Sample ID			MW04-0-0.1	[G01]SB01-0.3-0.4	SB01-0.7-0.8	SB02-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-My0047216	S22-My0047217	S22-My0047218	S22-My0047221
Date Sampled			May 10, 2022	May 10, 2022	May 10, 2022	May 12, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
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	380	150	140	-
TRH >C34-C40	100	mg/kg	410	160	190	-
TRH >C10-C40 (total)*	100	mg/kg	790	310	330	-
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	%	91	109	131	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	0.6	< 0.5	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.9	0.6	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.3	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	1.0	< 0.5	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	0.9	< 0.5	< 0.5	-
Chrysene	0.5	mg/kg	0.6	< 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	1.0	< 0.5	< 0.5	-
Total PAH*	0.5	mg/kg	4.0	< 0.5	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	106	126	90	-
p-Terphenyl-d14 (surr.)	1	%	89	95	93	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 1	-	< 0.1
4.4'-DDD	0.05	mg/kg	-	< 0.5	-	< 0.05
4.4'-DDE	0.05	mg/kg	-	< 0.5	-	< 0.05
4.4'-DDT	0.05	mg/kg	-	< 0.5	-	< 0.05
a-HCH	0.05	mg/kg	-	< 0.5	-	< 0.05
Aldrin	0.05	mg/kg	-	< 0.5	-	< 0.05
b-HCH	0.05	mg/kg	-	< 0.5	-	< 0.05
d-HCH	0.05	mg/kg	-	< 0.5	-	< 0.05
Dieldrin	0.05	mg/kg	-	< 0.5	-	< 0.05
Endosulfan I	0.05	mg/kg	-	< 0.5	-	< 0.05
Endosulfan II	0.05	mg/kg	-	< 0.5	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	< 0.5	-	< 0.05

Client Sample ID			MW04-0-0.1	[G01]SB01-0.3-0.4	SB01-0.7-0.8	SB02-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-My0047216	S22-My0047217	S22-My0047218	S22-My0047221
Date Sampled			May 10, 2022	May 10, 2022	May 10, 2022	May 12, 2022
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Endrin	0.05	mg/kg	-	< 0.5	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	< 0.5	-	< 0.05
Endrin ketone	0.05	mg/kg	-	< 0.5	-	< 0.05
g-HCH (Lindane)	0.05	mg/kg	-	< 0.5	-	< 0.05
Heptachlor	0.05	mg/kg	-	< 0.5	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	< 0.5	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	< 0.5	-	< 0.05
Methoxychlor	0.05	mg/kg	-	< 0.5	-	< 0.05
Toxaphene	0.5	mg/kg	-	< 10	-	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.5	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.5	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 1	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 1	-	< 0.1
Dibutylchlorendate (surr.)	1	%	-	74	-	66
Tetrachloro-m-xylene (surr.)	1	%	-	63	-	69
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	< 1	-	< 0.1
Aroclor-1221	0.1	mg/kg	-	< 1	-	< 0.1
Aroclor-1232	0.1	mg/kg	-	< 1	-	< 0.1
Aroclor-1242	0.1	mg/kg	-	< 1	-	< 0.1
Aroclor-1248	0.1	mg/kg	-	< 1	-	< 0.1
Aroclor-1254	0.1	mg/kg	-	< 1	-	< 0.1
Aroclor-1260	0.1	mg/kg	-	< 1	-	< 0.1
Total PCB*	0.1	mg/kg	-	< 1	-	< 0.1
Dibutylchlorendate (surr.)	1	%	-	74	-	66
Tetrachloro-m-xylene (surr.)	1	%	-	63	-	69
Heavy Metals						
Arsenic	2	mg/kg	< 2	6.1	6.4	-
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	-
Chromium	5	mg/kg	26	16	19	-
Copper	5	mg/kg	47	37	27	-
Lead	5	mg/kg	11	14	21	-
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Nickel	5	mg/kg	44	15	29	-
Zinc	5	mg/kg	49	71	55	-
% Moisture	1	%	5.6	8.4	15	4.5
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	< 5	-	-	-
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	< 5	-	-	-
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	< 5	-	-	-
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	< 5	-	-	-

Client Sample ID			MW04-0-0.1	[G01]SB01-0.3-0.4	SB01-0.7-0.8	SB02-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-My0047216	S22-My0047217	S22-My0047218	S22-My0047221
Date Sampled			May 10, 2022	May 10, 2022	May 10, 2022	May 12, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	< 5	-	-	-
13C4-PFBA (surr.)	1	%	77	-	-	-
13C5-PFPeA (surr.)	1	%	90	-	-	-
13C5-PFHxA (surr.)	1	%	95	-	-	-
13C4-PFHpA (surr.)	1	%	85	-	-	-
13C8-PFOA (surr.)	1	%	95	-	-	-
13C5-PFNA (surr.)	1	%	92	-	-	-
13C6-PFDA (surr.)	1	%	94	-	-	-
13C2-PFUnDA (surr.)	1	%	98	-	-	-
13C2-PFDoDA (surr.)	1	%	111	-	-	-
13C2-PFTeDA (surr.)	1	%	112	-	-	-
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	< 5	-	-	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	< 5	-	-	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	< 5	-	-	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	< 5	-	-	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	< 5	-	-	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	< 10	-	-	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	< 10	-	-	-
13C8-FOSA (surr.)	1	%	87	-	-	-
D3-N-MeFOSA (surr.)	1	%	76	-	-	-
D5-N-EtFOSA (surr.)	1	%	75	-	-	-
D7-N-MeFOSE (surr.)	1	%	68	-	-	-
D9-N-EtFOSE (surr.)	1	%	68	-	-	-
D5-N-EtFOSAA (surr.)	1	%	126	-	-	-
D3-N-MeFOSAA (surr.)	1	%	114	-	-	-
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	< 5	-	-	-
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	< 5	-	-	-
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	< 5	-	-	-
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	< 5	-	-	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	-	-	-
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	< 5	-	-	-
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	< 5	-	-	-
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	< 5	-	-	-
13C3-PFBS (surr.)	1	%	94	-	-	-
18O2-PFHxS (surr.)	1	%	90	-	-	-
13C8-PFOS (surr.)	1	%	87	-	-	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	< 5	-	-	-
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	< 10	-	-	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	< 5	-	-	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	< 5	-	-	-

Client Sample ID			MW04-0-0.1	[G01]SB01-0.3-0.4	SB01-0.7-0.8	SB02-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-My0047216	S22-My0047217	S22-My0047218	S22-My0047221
Date Sampled			May 10, 2022	May 10, 2022	May 10, 2022	May 12, 2022
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
13C2-4:2 FTSA (surr.)	1	%	119	-	-	-
13C2-6:2 FTSA (surr.)	1	%	121	-	-	-
13C2-8:2 FTSA (surr.)	1	%	141	-	-	-
13C2-10:2 FTSA (surr.)	1	%	194	-	-	-
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	-	-	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	-	-	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	-	-	-
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	-	-	-
Sum of PFASs (n=30)*	50	ug/kg	< 50	-	-	-

Client Sample ID			SB02-0.7-0.8	SB03-0-0.1	SB04-0.2-0.3	SB05-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-My0047222	S22-My0047223	S22-My0047225	S22-My0047228
Date Sampled			May 12, 2022	May 10, 2022	May 10, 2022	May 10, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	-	-	< 20
TRH C10-C14	20	mg/kg	< 20	-	-	< 20
TRH C15-C28	50	mg/kg	< 50	-	-	74
TRH C29-C36	50	mg/kg	< 50	-	-	99
TRH C10-C36 (Total)	50	mg/kg	< 50	-	-	173
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	-	-	200
TRH >C34-C40	100	mg/kg	< 100	-	-	260
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	-	460
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	%	96	-	-	118
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			SB02-0.7-0.8	SB03-0-0.1	SB04-0.2-0.3	SB05-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-My0047222	S22-My0047223	S22-My0047225	S22-My0047228
Date Sampled			May 12, 2022	May 10, 2022	May 10, 2022	May 10, 2022
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	%	74	-	-	95
p-Terphenyl-d14 (surr.)	1	%	78	-	-	93
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-HCH	0.05	mg/kg	-	-	-	< 0.05
Aldrin	0.05	mg/kg	-	-	-	< 0.05
b-HCH	0.05	mg/kg	-	-	-	< 0.05
d-HCH	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-HCH (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	0.05	mg/kg	-	-	-	< 0.05
Toxaphene	0.5	mg/kg	-	-	-	< 0.5
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	-	-	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	-	< 0.1
Dibutylchlorendate (surr.)	1	%	-	-	-	90
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	77
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1221	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1232	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1242	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1248	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1254	0.1	mg/kg	-	-	-	< 0.1

Client Sample ID			SB02-0.7-0.8	SB03-0-0.1	SB04-0.2-0.3	SB05-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-My0047222	S22-My0047223	S22-My0047225	S22-My0047228
Date Sampled			May 12, 2022	May 10, 2022	May 10, 2022	May 10, 2022
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1260	0.1	mg/kg	-	-	-	< 0.1
Total PCB*	0.1	mg/kg	-	-	-	< 0.1
Dibutylchlorendate (surr.)	1	%	-	-	-	90
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	77
Heavy Metals						
Arsenic	2	mg/kg	9.8	3.4	16	3.4
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	18	18	23	12
Copper	5	mg/kg	140	28	37	23
Lead	5	mg/kg	27	14	36	11
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	30	22	26	19
Zinc	5	mg/kg	120	54	140	45
% Moisture	1	%	23	5.1	15	3.9
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	-	-	-	< 5
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	-	-	-	< 5
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	-	-	-	< 5
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	-	-	-	< 5
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	-	-	-	< 5
13C4-PFBA (surr.)	1	%	-	-	-	71
13C5-PFPeA (surr.)	1	%	-	-	-	83
13C5-PFHxA (surr.)	1	%	-	-	-	80
13C4-PFHpA (surr.)	1	%	-	-	-	72
13C8-PFOA (surr.)	1	%	-	-	-	84
13C5-PFNA (surr.)	1	%	-	-	-	75
13C6-PFDA (surr.)	1	%	-	-	-	77
13C2-PFUnDA (surr.)	1	%	-	-	-	79
13C2-PFDoDA (surr.)	1	%	-	-	-	83
13C2-PFTeDA (surr.)	1	%	-	-	-	87
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	-	-	-	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	-	-	-	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	-	-	-	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	-	-	-	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	-	-	-	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	-	-	-	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	-	-	-	< 10

Client Sample ID			SB02-0.7-0.8	SB03-0-0.1	SB04-0.2-0.3	SB05-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-My0047222	S22-My0047223	S22-My0047225	S22-My0047228
Date Sampled			May 12, 2022	May 10, 2022	May 10, 2022	May 10, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
13C8-FOSA (surr.)	1	%	-	-	-	74
D3-N-MeFOSA (surr.)	1	%	-	-	-	58
D5-N-EtFOSA (surr.)	1	%	-	-	-	58
D7-N-MeFOSE (surr.)	1	%	-	-	-	55
D9-N-EtFOSE (surr.)	1	%	-	-	-	57
D5-N-EtFOSAA (surr.)	1	%	-	-	-	107
D3-N-MeFOSAA (surr.)	1	%	-	-	-	90
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	-	-	-	< 5
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	-	-	-	< 5
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	-	-	-	< 5
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	-	-	-	< 5
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	-	-	-	< 5
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	-	-	-	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	-	-	-	< 5
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	-	-	-	< 5
13C3-PFBS (surr.)	1	%	-	-	-	80
18O2-PFHxS (surr.)	1	%	-	-	-	78
13C8-PFOS (surr.)	1	%	-	-	-	77
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	-	-	-	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	-	-	-	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	-	-	-	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	-	-	-	< 5
13C2-4:2 FTSA (surr.)	1	%	-	-	-	89
13C2-6:2 FTSA (surr.)	1	%	-	-	-	95
13C2-8:2 FTSA (surr.)	1	%	-	-	-	111
13C2-10:2 FTSA (surr.)	1	%	-	-	-	123
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	-	-	-	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	-	-	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	-	-	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	-	-	-	< 10
Sum of PFASs (n=30)*	50	ug/kg	-	-	-	< 50

Client Sample ID			SB06-1.0-1.1	[G01]SB07-02-0.3	SB08-0.3-0.4	[G01]SB09-0.3-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-My0047231	S22-My0047233	S22-My0047235	S22-My0047237
Date Sampled			May 10, 2022	May 10, 2022	May 11, 2022	May 11, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	-	-	-
TRH C10-C14	20	mg/kg	< 20	-	-	-
TRH C15-C28	50	mg/kg	< 50	-	-	-
TRH C29-C36	50	mg/kg	< 50	-	-	-
TRH C10-C36 (Total)	50	mg/kg	< 50	-	-	-
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	-	-
TRH C6-C10	20	mg/kg	< 20	-	-	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-	-	-
TRH >C10-C16	50	mg/kg	< 50	-	-	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	-	-	-
TRH >C16-C34	100	mg/kg	< 100	-	-	-
TRH >C34-C40	100	mg/kg	< 100	-	-	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	-	-
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	-	-
Toluene	0.1	mg/kg	< 0.1	-	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	-
o-Xylene	0.1	mg/kg	< 0.1	-	-	-
Xylenes - Total*	0.3	mg/kg	< 0.3	-	-	-
4-Bromofluorobenzene (surr.)	1	%	81	-	-	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	< 0.5	0.9
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	0.6	1.1
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	1.2	1.4
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	0.7
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	0.6
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	0.8
Chrysene	0.5	mg/kg	< 0.5	-	< 0.5	0.9
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	1.3
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	1.4
Total PAH*	0.5	mg/kg	< 0.5	-	< 0.5	6.2
2-Fluorobiphenyl (surr.)	1	%	99	-	91	99
p-Terphenyl-d14 (surr.)	1	%	81	-	114	100
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 1	-	-
4.4'-DDD	0.05	mg/kg	-	< 0.5	-	-
4.4'-DDE	0.05	mg/kg	-	< 0.5	-	-
4.4'-DDT	0.05	mg/kg	-	< 0.5	-	-

Client Sample ID			SB06-1.0-1.1	[G01]SB07-02-0.3	SB08-0.3-0.4	[G01]SB09-0.3-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-My0047231	S22-My0047233	S22-My0047235	S22-My0047237
Date Sampled			May 10, 2022	May 10, 2022	May 11, 2022	May 11, 2022
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
a-HCH	0.05	mg/kg	-	< 0.5	-	-
Aldrin	0.05	mg/kg	-	< 0.5	-	-
b-HCH	0.05	mg/kg	-	< 0.5	-	-
d-HCH	0.05	mg/kg	-	< 0.5	-	-
Dieldrin	0.05	mg/kg	-	< 0.5	-	-
Endosulfan I	0.05	mg/kg	-	< 0.5	-	-
Endosulfan II	0.05	mg/kg	-	< 0.5	-	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.5	-	-
Endrin	0.05	mg/kg	-	< 0.5	-	-
Endrin aldehyde	0.05	mg/kg	-	< 0.5	-	-
Endrin ketone	0.05	mg/kg	-	< 0.5	-	-
g-HCH (Lindane)	0.05	mg/kg	-	< 0.5	-	-
Heptachlor	0.05	mg/kg	-	< 0.5	-	-
Heptachlor epoxide	0.05	mg/kg	-	< 0.5	-	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.5	-	-
Methoxychlor	0.05	mg/kg	-	< 0.5	-	-
Toxaphene	0.5	mg/kg	-	< 10	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.5	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.5	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 1	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 1	-	-
Dibutylchlorendate (surr.)	1	%	-	52	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	64	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	< 1	-	-
Aroclor-1221	0.1	mg/kg	-	< 1	-	-
Aroclor-1232	0.1	mg/kg	-	< 1	-	-
Aroclor-1242	0.1	mg/kg	-	< 1	-	-
Aroclor-1248	0.1	mg/kg	-	< 1	-	-
Aroclor-1254	0.1	mg/kg	-	< 1	-	-
Aroclor-1260	0.1	mg/kg	-	< 1	-	-
Total PCB*	0.1	mg/kg	-	< 1	-	-
Dibutylchlorendate (surr.)	1	%	-	52	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	64	-	-
Heavy Metals						
Arsenic	2	mg/kg	10	8.6	10	9.9
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	20	27	13	13
Copper	5	mg/kg	18	26	22	40
Lead	5	mg/kg	17	17	11	22
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	9.0	18	9.8	19
Zinc	5	mg/kg	54	52	39	73
% Moisture	1	%	19	25	23	18

Client Sample ID			SB10-0.3-0.4	SB10-1.5-1.6	SB11-1.5-1.6	SB12-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-My0047238	S22-My0047239	S22-My0047244	S22-My0047245
Date Sampled			May 11, 2022	May 11, 2022	May 11, 2022	May 11, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	-
TRH C10-C14	20	mg/kg	22	< 20	< 20	-
TRH C15-C28	50	mg/kg	110	< 50	< 50	-
TRH C29-C36	50	mg/kg	52	< 50	< 50	-
TRH C10-C36 (Total)	50	mg/kg	184	< 50	< 50	-
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	200	< 100	< 100	-
TRH >C34-C40	100	mg/kg	200	< 100	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	400	< 100	< 100	-
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	%	87	90	72	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	0.7	< 0.5	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	1.0	0.6	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.3	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	0.6	< 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	0.6	< 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	0.6	< 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	0.6	< 0.5	< 0.5	-
Total PAH*	0.5	mg/kg	3.4	< 0.5	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	101	97	89	-
p-Terphenyl-d14 (surr.)	1	%	99	90	86	-
Heavy Metals						
Arsenic	2	mg/kg	9.3	6.8	12	2.5
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	9.8	13	18	21
Copper	5	mg/kg	39	17	16	35

Client Sample ID			SB10-0.3-0.4	SB10-1.5-1.6	SB11-1.5-1.6	SB12-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-My0047238	S22-My0047239	S22-My0047244	S22-My0047245
Date Sampled			May 11, 2022	May 11, 2022	May 11, 2022	May 11, 2022
Test/Reference	LOR	Unit				
Heavy Metals						
Lead	5	mg/kg	19	19	23	13
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	20	5.3	5.2	20
Zinc	5	mg/kg	73	31	56	45
% Moisture	1	%	11	14	8.0	6.1

Client Sample ID			SB13-0-0.1	SB14-0.3-0.4	SB15-0-0.1	SB16-0.2-0.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-My0047247	S22-My0047249	S22-My0047251	S22-My0047253
Date Sampled			May 11, 2022	May 11, 2022	May 11, 2022	May 11, 2022
Test/Reference	LOR	Unit				
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	%	-	-	-	83
p-Terphenyl-d14 (surr.)	1	%	-	-	-	89
Heavy Metals						
Arsenic	2	mg/kg	< 2	2.8	16	9.6
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	17	12	17	18
Copper	5	mg/kg	38	19	37	19
Lead	5	mg/kg	8.0	12	55	31
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	33	< 5	8.8	9.1
Zinc	5	mg/kg	33	28	98	52
% Moisture	1	%	6.0	29	26	20

Client Sample ID			SB17-0.1-0.2	SB18-0.1-0.2	SB19-0.3-0.4	SB20-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-My0047254	S22-My0047255	S22-My0047257	S22-My0047258
Date Sampled			May 11, 2022	May 11, 2022	May 11, 2022	May 11, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	-	-
TRH C10-C14	20	mg/kg	< 20	< 20	-	-
TRH C15-C28	50	mg/kg	< 50	< 50	-	-
TRH C29-C36	50	mg/kg	< 50	< 50	-	-
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	-	-
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	-	-
TRH C6-C10	20	mg/kg	< 20	< 20	-	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	-	-
TRH >C10-C16	50	mg/kg	< 50	< 50	-	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	-	-
TRH >C16-C34	100	mg/kg	< 100	< 100	-	-
TRH >C34-C40	100	mg/kg	< 100	< 100	-	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	-	-
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	-	-
Toluene	0.1	mg/kg	< 0.1	< 0.1	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	-	-
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	-	-
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	-	-
4-Bromofluorobenzene (surr.)	1	%	87	91	-	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	-	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	-	-
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	-	-
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	-	-
Anthracene	0.5	mg/kg	< 0.5	< 0.5	-	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	-
Chrysene	0.5	mg/kg	< 0.5	< 0.5	-	-
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	-
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	-
Fluorene	0.5	mg/kg	< 0.5	< 0.5	-	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	-
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	-	-
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	-	-
Pyrene	0.5	mg/kg	< 0.5	< 0.5	-	-
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	-	-
2-Fluorobiphenyl (surr.)	1	%	56	90	-	-
p-Terphenyl-d14 (surr.)	1	%	62	96	-	-
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

Client Sample ID			SB17-0.1-0.2	SB18-0.1-0.2	SB19-0.3-0.4	SB20-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-My0047254	S22-My0047255	S22-My0047257	S22-My0047258
Date Sampled			May 11, 2022	May 11, 2022	May 11, 2022	May 11, 2022
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
a-HCH	0.05	mg/kg	< 0.05	-	-	< 0.05
Aldrin	0.05	mg/kg	< 0.05	-	-	< 0.05
b-HCH	0.05	mg/kg	< 0.05	-	-	< 0.05
d-HCH	0.05	mg/kg	< 0.05	-	-	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	-	-	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	-	-	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	-	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	-	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	-	-	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	-	-	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	-	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	-	-	< 0.1
Dibutylchlorendate (surr.)	1	%	62	-	-	99
Tetrachloro-m-xylene (surr.)	1	%	63	-	-	74
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	-	-	< 0.1
Aroclor-1221	0.1	mg/kg	< 0.1	-	-	< 0.1
Aroclor-1232	0.1	mg/kg	< 0.1	-	-	< 0.1
Aroclor-1242	0.1	mg/kg	< 0.1	-	-	< 0.1
Aroclor-1248	0.1	mg/kg	< 0.1	-	-	< 0.1
Aroclor-1254	0.1	mg/kg	< 0.1	-	-	< 0.1
Aroclor-1260	0.1	mg/kg	< 0.1	-	-	< 0.1
Total PCB*	0.1	mg/kg	< 0.1	-	-	< 0.1
Dibutylchlorendate (surr.)	1	%	62	-	-	99
Tetrachloro-m-xylene (surr.)	1	%	63	-	-	74
Heavy Metals						
Arsenic	2	mg/kg	< 2	6.2	12	-
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	-
Chromium	5	mg/kg	6.4	11	20	-
Copper	5	mg/kg	5.1	29	19	-
Lead	5	mg/kg	9.0	11	17	-
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Nickel	5	mg/kg	8.4	< 5	7.7	-
Zinc	5	mg/kg	15	24	33	-
% Moisture	1	%	15	17	24	23

Client Sample ID			SB17-0.1-0.2	SB18-0.1-0.2	SB19-0.3-0.4	SB20-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-My0047254	S22-My0047255	S22-My0047257	S22-My0047258
Date Sampled			May 11, 2022	May 11, 2022	May 11, 2022	May 11, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	< 5	-	-	-
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	< 5	-	-	-
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	< 5	-	-	-
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	< 5	-	-	-
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	< 5	-	-	-
13C4-PFBA (surr.)	1	%	73	-	-	-
13C5-PFPeA (surr.)	1	%	91	-	-	-
13C5-PFHxA (surr.)	1	%	79	-	-	-
13C4-PFHpA (surr.)	1	%	76	-	-	-
13C8-PFOA (surr.)	1	%	90	-	-	-
13C5-PFNA (surr.)	1	%	78	-	-	-
13C6-PFDA (surr.)	1	%	75	-	-	-
13C2-PFUnDA (surr.)	1	%	73	-	-	-
13C2-PFDoDA (surr.)	1	%	80	-	-	-
13C2-PFTeDA (surr.)	1	%	79	-	-	-
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	< 5	-	-	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	< 5	-	-	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	< 5	-	-	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	< 5	-	-	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	< 5	-	-	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	< 10	-	-	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	< 10	-	-	-
13C8-FOSA (surr.)	1	%	82	-	-	-
D3-N-MeFOSA (surr.)	1	%	70	-	-	-
D5-N-EtFOSA (surr.)	1	%	72	-	-	-
D7-N-MeFOSE (surr.)	1	%	67	-	-	-
D9-N-EtFOSE (surr.)	1	%	68	-	-	-
D5-N-EtFOSAA (surr.)	1	%	77	-	-	-
D3-N-MeFOSAA (surr.)	1	%	73	-	-	-
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	< 5	-	-	-
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	< 5	-	-	-
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	< 5	-	-	-
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	< 5	-	-	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	-	-	-
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	< 5	-	-	-
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	< 5	-	-	-
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	< 5	-	-	-

Client Sample ID			SB17-0.1-0.2	SB18-0.1-0.2	SB19-0.3-0.4	SB20-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-My0047254	S22-My0047255	S22-My0047257	S22-My0047258
Date Sampled			May 11, 2022	May 11, 2022	May 11, 2022	May 11, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFSAs)						
13C3-PFBS (surr.)	1	%	80	-	-	-
18O2-PFHxS (surr.)	1	%	80	-	-	-
13C8-PFOS (surr.)	1	%	78	-	-	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	< 5	-	-	-
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	< 10	-	-	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	< 5	-	-	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	< 5	-	-	-
13C2-4:2 FTSA (surr.)	1	%	83	-	-	-
13C2-6:2 FTSA (surr.)	1	%	76	-	-	-
13C2-8:2 FTSA (surr.)	1	%	76	-	-	-
13C2-10:2 FTSA (surr.)	1	%	79	-	-	-
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	-	-	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	-	-	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	-	-	-
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	-	-	-
Sum of PFASs (n=30)*	50	ug/kg	< 50	-	-	-

Client Sample ID			SB20-0.3-0.4	SB21-0.1-0.2	SB21-0.2-0.3	TP01-1.0-1.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-My0047259	S22-My0047261	S22-My0047262	S22-My0047263
Date Sampled			May 11, 2022	May 11, 2022	May 11, 2022	May 11, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	-	99	< 20	< 20
TRH C15-C28	50	mg/kg	-	560	< 50	< 50
TRH C29-C36	50	mg/kg	-	410	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	-	1069	< 50	< 50
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	-	180	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	180	< 50	< 50
TRH >C16-C34	100	mg/kg	-	810	< 100	< 100
TRH >C34-C40	100	mg/kg	-	160	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	1150	< 100	< 100
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

Client Sample ID			SB20-0.3-0.4	SB21-0.1-0.2	SB21-0.2-0.3	TP01-1.0-1.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-My0047259	S22-My0047261	S22-My0047262	S22-My0047263
Date Sampled			May 11, 2022	May 11, 2022	May 11, 2022	May 11, 2022
Test/Reference	LOR	Unit				
BTEX						
Xylenes - Total*	0.3	mg/kg	-	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	83	104	122
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	%	-	87	86	102
p-Terphenyl-d14 (surr.)	1	%	-	95	87	118
Heavy Metals						
Arsenic	2	mg/kg	10	< 2	4.7	18
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	18	36	14	21
Copper	5	mg/kg	16	59	35	19
Lead	5	mg/kg	18	< 5	17	11
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	9.1	170	26	15
Zinc	5	mg/kg	34	70	85	58
% Moisture	1	%	22	7.3	17	21

Client Sample ID			TP01-1.5-1.6	[G01]TP02-0-0.1	TP03-0-0.1	TP04-0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-My0047264	S22-My0047268	S22-My0047269	S22-My0047274
Date Sampled			May 11, 2022	May 11, 2022	May 11, 2022	May 11, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	71	< 40	< 20	< 20
TRH C15-C28	50	mg/kg	94	< 100	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	120	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	165	120	< 50	< 50
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	70	< 100	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	70	< 100	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 200	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	260	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	260	< 100	< 100
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	%	81	88	73	75
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	%	80	112	118	100
p-Terphenyl-d14 (surr.)	1	%	91	96	107	93
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 1	-	-
4.4'-DDD	0.05	mg/kg	-	< 0.5	-	-
4.4'-DDE	0.05	mg/kg	-	< 0.5	-	-
4.4'-DDT	0.05	mg/kg	-	< 0.5	-	-

Client Sample ID			TP01-1.5-1.6	[G01]TP02-0-0.1	TP03-0-0.1	TP04-0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-My0047264	S22-My0047268	S22-My0047269	S22-My0047274
Date Sampled			May 11, 2022	May 11, 2022	May 11, 2022	May 11, 2022
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
a-HCH	0.05	mg/kg	-	< 0.5	-	-
Aldrin	0.05	mg/kg	-	< 0.5	-	-
b-HCH	0.05	mg/kg	-	< 0.5	-	-
d-HCH	0.05	mg/kg	-	< 0.5	-	-
Dieldrin	0.05	mg/kg	-	< 0.5	-	-
Endosulfan I	0.05	mg/kg	-	< 0.5	-	-
Endosulfan II	0.05	mg/kg	-	< 0.5	-	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.5	-	-
Endrin	0.05	mg/kg	-	< 0.5	-	-
Endrin aldehyde	0.05	mg/kg	-	< 0.5	-	-
Endrin ketone	0.05	mg/kg	-	< 0.5	-	-
g-HCH (Lindane)	0.05	mg/kg	-	< 0.5	-	-
Heptachlor	0.05	mg/kg	-	< 0.5	-	-
Heptachlor epoxide	0.05	mg/kg	-	< 0.5	-	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.5	-	-
Methoxychlor	0.05	mg/kg	-	< 0.5	-	-
Toxaphene	0.5	mg/kg	-	< 10	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.5	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.5	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 1	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 1	-	-
Dibutylchlorendate (surr.)	1	%	-	[Q09]INT	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	108	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	< 1	-	-
Aroclor-1221	0.1	mg/kg	-	< 1	-	-
Aroclor-1232	0.1	mg/kg	-	< 1	-	-
Aroclor-1242	0.1	mg/kg	-	< 1	-	-
Aroclor-1248	0.1	mg/kg	-	< 1	-	-
Aroclor-1254	0.1	mg/kg	-	< 1	-	-
Aroclor-1260	0.1	mg/kg	-	< 1	-	-
Total PCB*	0.1	mg/kg	-	< 1	-	-
Dibutylchlorendate (surr.)	1	%	-	[Q09]INT	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	108	-	-
Heavy Metals						
Arsenic	2	mg/kg	5.9	6.9	9.7	2.9
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	12	17	22	75
Copper	5	mg/kg	38	53	23	26
Lead	5	mg/kg	150	15	14	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	5.6	15	20	66
Zinc	5	mg/kg	90	120	65	41
% Moisture	1	%	19	17	17	9.2

Client Sample ID			[G01]TP05-0-0.1	TP05-1.0-1.1	[G01]TP06-0-0.1	TP07-1.5-1.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-My0047277	S22-My0047278	S22-My0047280	S22-My0047282
Date Sampled			May 11, 2022	May 11, 2022	May 11, 2022	May 11, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	-	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	-	< 40	< 20
TRH C15-C28	50	mg/kg	650	-	< 100	< 50
TRH C29-C36	50	mg/kg	850	-	< 100	< 50
TRH C10-C36 (Total)	50	mg/kg	1500	-	< 100	< 50
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	-	< 100	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	-	< 100	< 50
TRH >C16-C34	100	mg/kg	1300	-	< 200	< 100
TRH >C34-C40	100	mg/kg	630	-	< 200	< 100
TRH >C10-C40 (total)*	100	mg/kg	1930	-	< 200	< 100
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	%	87	-	86	89
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	1.6	-	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	1.9	-	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	2.1	-	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	0.8	-	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	1.2	-	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	0.9	-	< 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	0.9	-	< 0.5	< 0.5
Chrysene	0.5	mg/kg	1.3	-	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	1.6	-	< 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	1.6	-	< 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	1.9	-	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	10	-	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	115	-	115	82
p-Terphenyl-d14 (surr.)	1	%	96	-	92	88
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 1	-	-	-
4.4'-DDD	0.05	mg/kg	< 0.5	-	-	-
4.4'-DDE	0.05	mg/kg	< 0.5	-	-	-
4.4'-DDT	0.05	mg/kg	< 0.5	-	-	-

Client Sample ID			[G01]TP05-0-0.1	TP05-1.0-1.1	[G01]TP06-0-0.1	TP07-1.5-1.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-My0047277	S22-My0047278	S22-My0047280	S22-My0047282
Date Sampled			May 11, 2022	May 11, 2022	May 11, 2022	May 11, 2022
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
a-HCH	0.05	mg/kg	< 0.5	-	-	-
Aldrin	0.05	mg/kg	< 0.5	-	-	-
b-HCH	0.05	mg/kg	< 0.5	-	-	-
d-HCH	0.05	mg/kg	< 0.5	-	-	-
Dieldrin	0.05	mg/kg	< 0.5	-	-	-
Endosulfan I	0.05	mg/kg	< 0.5	-	-	-
Endosulfan II	0.05	mg/kg	< 0.5	-	-	-
Endosulfan sulphate	0.05	mg/kg	< 0.5	-	-	-
Endrin	0.05	mg/kg	< 0.5	-	-	-
Endrin aldehyde	0.05	mg/kg	< 0.5	-	-	-
Endrin ketone	0.05	mg/kg	< 0.5	-	-	-
g-HCH (Lindane)	0.05	mg/kg	< 0.5	-	-	-
Heptachlor	0.05	mg/kg	< 0.5	-	-	-
Heptachlor epoxide	0.05	mg/kg	< 0.5	-	-	-
Hexachlorobenzene	0.05	mg/kg	< 0.5	-	-	-
Methoxychlor	0.05	mg/kg	< 0.5	-	-	-
Toxaphene	0.5	mg/kg	< 10	-	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.5	-	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.5	-	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 1	-	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 1	-	-	-
Dibutylchlorendate (surr.)	1	%	97	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	87	-	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 1	-	-	-
Aroclor-1221	0.1	mg/kg	< 1	-	-	-
Aroclor-1232	0.1	mg/kg	< 1	-	-	-
Aroclor-1242	0.1	mg/kg	< 1	-	-	-
Aroclor-1248	0.1	mg/kg	< 1	-	-	-
Aroclor-1254	0.1	mg/kg	< 1	-	-	-
Aroclor-1260	0.1	mg/kg	< 1	-	-	-
Total PCB*	0.1	mg/kg	< 1	-	-	-
Dibutylchlorendate (surr.)	1	%	97	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	87	-	-	-
Heavy Metals						
Arsenic	2	mg/kg	4.7	12	7.0	8.3
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	18	21	8.6	12
Copper	5	mg/kg	49	28	20	24
Lead	5	mg/kg	21	18	13	11
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	19	17	9.7	6.9
Zinc	5	mg/kg	64	72	87	34
% Moisture	1	%	15	18	19	19

Client Sample ID			[G01]TP05-0-0.1	TP05-1.0-1.1	[G01]TP06-0-0.1	TP07-1.5-1.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-My0047277	S22-My0047278	S22-My0047280	S22-My0047282
Date Sampled			May 11, 2022	May 11, 2022	May 11, 2022	May 11, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	-	-	< 5	-
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	-	-	< 5	-
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	-	-	< 5	-
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	-	-	< 5	-
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	-	-	< 5	-
13C4-PFBA (surr.)	1	%	-	-	74	-
13C5-PFPeA (surr.)	1	%	-	-	89	-
13C5-PFHxA (surr.)	1	%	-	-	84	-
13C4-PFHpA (surr.)	1	%	-	-	79	-
13C8-PFOA (surr.)	1	%	-	-	90	-
13C5-PFNA (surr.)	1	%	-	-	78	-
13C6-PFDA (surr.)	1	%	-	-	79	-
13C2-PFUnDA (surr.)	1	%	-	-	82	-
13C2-PFDoDA (surr.)	1	%	-	-	87	-
13C2-PFTeDA (surr.)	1	%	-	-	86	-
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	-	-	< 5	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	-	-	< 5	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	-	-	< 5	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	-	-	< 5	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	-	-	< 5	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	-	-	< 10	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	-	-	< 10	-
13C8-FOSA (surr.)	1	%	-	-	75	-
D3-N-MeFOSA (surr.)	1	%	-	-	67	-
D5-N-EtFOSA (surr.)	1	%	-	-	67	-
D7-N-MeFOSE (surr.)	1	%	-	-	64	-
D9-N-EtFOSE (surr.)	1	%	-	-	64	-
D5-N-EtFOSAA (surr.)	1	%	-	-	93	-
D3-N-MeFOSAA (surr.)	1	%	-	-	83	-
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	-	-	< 5	-
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	-	-	< 5	-
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	-	-	< 5	-
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	-	-	< 5	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	-	-	< 5	-
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	-	-	< 5	-
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	-	-	< 5	-
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	-	-	< 5	-

Client Sample ID			[G01]TP05-0-0.1	TP05-1.0-1.1	[G01]TP06-0-0.1	TP07-1.5-1.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-My0047277	S22-My0047278	S22-My0047280	S22-My0047282
Date Sampled			May 11, 2022	May 11, 2022	May 11, 2022	May 11, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFSAs)						
13C3-PFBS (surr.)	1	%	-	-	83	-
18O2-PFHxS (surr.)	1	%	-	-	82	-
13C8-PFOS (surr.)	1	%	-	-	78	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	-	-	< 5	-
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	-	-	< 10	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	-	-	< 5	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	-	-	< 5	-
13C2-4:2 FTSA (surr.)	1	%	-	-	96	-
13C2-6:2 FTSA (surr.)	1	%	-	-	88	-
13C2-8:2 FTSA (surr.)	1	%	-	-	91	-
13C2-10:2 FTSA (surr.)	1	%	-	-	117	-
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	-	-	< 5	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	-	< 5	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	-	< 5	-
Sum of WA DWER PFAS (n=10)*	10	ug/kg	-	-	< 10	-
Sum of PFASs (n=30)*	50	ug/kg	-	-	< 50	-

Client Sample ID			TP08-0.5-0.6	QC-01	QC-03	TP09-1.0-1.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-My0047283	S22-My0047303	S22-My0047304	S22-My0047324
Date Sampled			May 11, 2022	May 09, 2022	May 10, 2022	May 11, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
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	61	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	111	< 50
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	130	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	150	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	280	< 100
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

Client Sample ID			TP08-0.5-0.6	QC-01	QC-03	TP09-1.0-1.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-My0047283	S22-My0047303	S22-My0047304	S22-My0047324
Date Sampled			May 11, 2022	May 09, 2022	May 10, 2022	May 11, 2022
Test/Reference	LOR	Unit				
BTEX						
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	80	85	85	134
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	%	99	92	121	102
p-Terphenyl-d14 (surr.)	1	%	112	82	132	94
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-HCH	0.05	mg/kg	-	< 0.05	-	-
Aldrin	0.05	mg/kg	-	< 0.05	-	-
b-HCH	0.05	mg/kg	-	< 0.05	-	-
d-HCH	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-HCH (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	0.05	mg/kg	-	< 0.05	-	-
Toxaphene	0.5	mg/kg	-	< 0.5	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	-

Client Sample ID			TP08-0.5-0.6	QC-01	QC-03	TP09-1.0-1.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-My0047283	S22-My0047303	S22-My0047304	S22-My0047324
Date Sampled			May 11, 2022	May 09, 2022	May 10, 2022	May 11, 2022
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	-	-
Dibutylchlorendate (surr.)	1	%	-	65	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	80	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1221	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1232	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1242	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1248	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1254	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1260	0.1	mg/kg	-	< 0.1	-	-
Total PCB*	0.1	mg/kg	-	< 0.1	-	-
Dibutylchlorendate (surr.)	1	%	-	65	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	80	-	-
Heavy Metals						
Arsenic	2	mg/kg	10	7.3	4.4	26
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	14	20	180	82
Copper	5	mg/kg	27	17	21	27
Lead	5	mg/kg	11	13	10	47
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	9.0	13	11	14
Zinc	5	mg/kg	42	50	42	53
% Moisture	1	%	18	14	12	17
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	-	< 5	-	-
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	-	< 5	-	-
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	-	< 5	-	-
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	-	< 5	-	-
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	-	< 5	-	-
13C4-PFBA (surr.)	1	%	-	85	-	-
13C5-PFPeA (surr.)	1	%	-	99	-	-
13C5-PFHxA (surr.)	1	%	-	91	-	-
13C4-PFHpA (surr.)	1	%	-	91	-	-
13C8-PFOA (surr.)	1	%	-	105	-	-
13C5-PFNA (surr.)	1	%	-	93	-	-
13C6-PFDA (surr.)	1	%	-	91	-	-
13C2-PFUnDA (surr.)	1	%	-	96	-	-
13C2-PFDoDA (surr.)	1	%	-	107	-	-
13C2-PFTeDA (surr.)	1	%	-	110	-	-

Client Sample ID			TP08-0.5-0.6	QC-01	QC-03	TP09-1.0-1.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-My0047283	S22-My0047303	S22-My0047304	S22-My0047324
Date Sampled			May 11, 2022	May 09, 2022	May 10, 2022	May 11, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	-	< 5	-	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	-	< 5	-	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	-	< 5	-	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	-	< 5	-	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	-	< 5	-	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	-	< 10	-	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	-	< 10	-	-
13C8-FOSA (surr.)	1	%	-	91	-	-
D3-N-MeFOSA (surr.)	1	%	-	81	-	-
D5-N-EtFOSA (surr.)	1	%	-	83	-	-
D7-N-MeFOSE (surr.)	1	%	-	79	-	-
D9-N-EtFOSE (surr.)	1	%	-	79	-	-
D5-N-EtFOSAA (surr.)	1	%	-	107	-	-
D3-N-MeFOSAA (surr.)	1	%	-	97	-	-
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	-	< 5	-	-
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	-	< 5	-	-
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	-	< 5	-	-
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	-	< 5	-	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	-	< 5	-	-
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	-	< 5	-	-
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	-	< 5	-	-
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	-	< 5	-	-
13C3-PFBS (surr.)	1	%	-	92	-	-
18O2-PFHxS (surr.)	1	%	-	92	-	-
13C8-PFOS (surr.)	1	%	-	99	-	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	-	< 5	-	-
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	-	< 10	-	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	-	< 5	-	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	-	< 5	-	-
13C2-4:2 FTSA (surr.)	1	%	-	100	-	-
13C2-6:2 FTSA (surr.)	1	%	-	95	-	-
13C2-8:2 FTSA (surr.)	1	%	-	87	-	-
13C2-10:2 FTSA (surr.)	1	%	-	184	-	-
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	-	< 5	-	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	< 5	-	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	< 5	-	-
Sum of WA DWER PFAS (n=10)*	10	ug/kg	-	< 10	-	-
Sum of PFASs (n=30)*	50	ug/kg	-	< 50	-	-

Client Sample ID			SB08-0-0.1
Sample Matrix			Soil
Eurofins Sample No.			S22-My0047427
Date Sampled			May 11, 2022
Test/Reference	LOR	Unit	
% Moisture	1	%	19
Perfluoroalkyl carboxylic acids (PFCAs)			
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	< 5
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	< 5
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	< 5
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	< 5
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	< 5
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	< 5
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	< 5
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	< 5
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	< 5
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	< 5
13C4-PFBA (surr.)	1	%	116
13C5-PFPeA (surr.)	1	%	101
13C5-PFHxA (surr.)	1	%	107
13C4-PFHpA (surr.)	1	%	104
13C8-PFOA (surr.)	1	%	106
13C5-PFNA (surr.)	1	%	106
13C6-PFDA (surr.)	1	%	112
13C2-PFUnDA (surr.)	1	%	96
13C2-PFDoDA (surr.)	1	%	97
13C2-PFTeDA (surr.)	1	%	109
Perfluoroalkyl sulfonamido substances			
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	< 10
13C8-FOSA (surr.)	1	%	87
D3-N-MeFOSA (surr.)	1	%	83
D5-N-EtFOSA (surr.)	1	%	96
D7-N-MeFOSE (surr.)	1	%	145
D9-N-EtFOSE (surr.)	1	%	136
D5-N-EtFOSAA (surr.)	1	%	94
D3-N-MeFOSAA (surr.)	1	%	98
Perfluoroalkyl sulfonic acids (PFSAs)			
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	< 5
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	< 5
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	< 5
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	< 5
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	< 5

Client Sample ID			SB08-0-0.1
Sample Matrix			Soil
Eurofins Sample No.			S22-My0047427
Date Sampled			May 11, 2022
Test/Reference	LOR	Unit	
Perfluoroalkyl sulfonic acids (PFSAs)			
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	< 5
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	< 5
13C3-PFBS (surr.)	1	%	103
18O2-PFHxS (surr.)	1	%	100
13C8-PFOS (surr.)	1	%	103
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	< 5
13C2-4:2 FTSA (surr.)	1	%	114
13C2-6:2 FTSA (surr.)	1	%	140
13C2-8:2 FTSA (surr.)	1	%	116
13C2-10:2 FTSA (surr.)	1	%	86
PFASs Summations			
Sum (PFHxS + PFOS)*	5	ug/kg	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10
Sum of PFASs (n=30)*	50	ug/kg	< 50

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
Eurofins Suite B1			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Jun 22, 2022	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	May 24, 2022	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Jun 22, 2022	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	May 24, 2022	14 Days
- Method: LTM-ORG-2010 BTEX and Volatile TRH			
Polycyclic Aromatic Hydrocarbons	Sydney	Jun 22, 2022	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Metals M8	Sydney	May 24, 2022	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Organochlorine Pesticides	Sydney	May 24, 2022	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Polychlorinated Biphenyls	Sydney	May 24, 2022	28 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
% Moisture	Brisbane	Jun 02, 2022	14 Days
- Method: LTM-GEN-7080 Moisture			
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Brisbane	Jun 14, 2022	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Brisbane	Jun 14, 2022	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Brisbane	Jun 14, 2022	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Brisbane	Jun 14, 2022	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
PFASs Summations	Brisbane	Jun 02, 2022	
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			

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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: HUNTINGWOOD
Project ID: 62742

Order No.:
Report #: 890110
Phone: 02 8245 0300
Fax:

Received: May 13, 2022 10:00 AM
Due: May 20, 2022
Priority: 5 Day
Contact Name: Gina Pinget

Eurofins Analytical Services Manager : Hannah Mawbey

Sample Detail	Asbestos - AS4964	Asbestos - WA guidelines	CANCELLED	HOLD	Isopropanol	Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Suite B13: OCP/PCB	VOC AIR-TRH (Total Recoverable Hydrocarbons)	Volatile Organics	Moisture Set	Moisture Set	VOCs in Ambient Air by GC/MS	Total Recoverable Hydrocarbons	Eurofins Suite B7	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX
Melbourne Laboratory - NATA # 1261 Site # 1254					X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217	X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794											X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																					
Perth Laboratory - NATA # 2377 Site # 2370																					
External Laboratory																					

No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID																		
1	MW01-0-0.1	May 09, 2022		Soil	S22-My0047208										X				X				X		
2	MW01-1.5-1.6	May 09, 2022		Soil	S22-My0047209														X						
3	AQMW01-0-1.0	May 09, 2022		Soil	S22-My0047210		X																		
4	AQMW02-0-1.0	May 09, 2022		Soil	S22-My0047211			X																	
5	MW02-2.5-2.6	May 09, 2022		Soil	S22-My0047212										X				X						
6	MW03-0-0.1	May 09, 2022		Soil	S22-														X						

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Project Name: HUNTINGWOOD
Project ID: 62742

Order No.:
Report #: 890110
Phone: 02 8245 0300
Fax:

Received: May 13, 2022 10:00 AM
Due: May 20, 2022
Priority: 5 Day
Contact Name: Gina Pinget

Eurofins Analytical Services Manager : Hannah Mawbey

Sample Detail						Asbestos - AS4964	Asbestos - WA guidelines	CANCELLED	HOLD	Isopropanol	Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Suite B13: OCP/PCB	VOC AIR-TRH (Total Recoverable Hydrocarbons)	Volatile Organics	Moisture Set	Moisture Set	VOCs in Ambient Air by GC/MS	Total Recoverable Hydrocarbons	Eurofins Suite B7	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX
Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
					My0047213																					
7	AQ MW03-0-0.8	May 09, 2022		Soil	S22-My0047214		X																			
8	AQ MW04-0-0.5	May 10, 2022		Soil	S22-My0047215		X																			
9	MW04-0-0.1	May 10, 2022		Soil	S22-My0047216														X			X			X	
10	SB01-0.3-0.4	May 10, 2022		Soil	S22-My0047217										X				X			X				
11	SB01-0.7-0.8	May 10, 2022		Soil	S22-My0047218														X			X				
12	AQ SB01-0-0.5	May 10, 2022		Soil	S22-My0047219			X																		

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Project Name: HUNTINGWOOD
Project ID: 62742

Order No.:
Report #: 890110
Phone: 02 8245 0300
Fax:

Received: May 13, 2022 10:00 AM
Due: May 20, 2022
Priority: 5 Day
Contact Name: Gina Pinget

Eurofins Analytical Services Manager : Hannah Mawbey

Sample Detail						Asbestos - AS4964	Asbestos - WA guidelines	CANCELLED	HOLD	Isopropanol	Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Suite B13: OCP/PCB	VOC AIR-TRH (Total Recoverable Hydrocarbons)	Volatile Organics	Moisture Set	Moisture Set	VOCs in Ambient Air by GC/MS	Total Recoverable Hydrocarbons	Eurofins Suite B7	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX
Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
13	AQ SB02-0-1.0	May 12, 2022		Soil	S22-My0047220		X																			
14	SB02-0-0.1	May 12, 2022		Soil	S22-My0047221										X				X							
15	SB02-0.7-0.8	May 12, 2022		Soil	S22-My0047222														X			X				
16	SB03-0-0.1	May 10, 2022		Soil	S22-My0047223								X						X							
17	AQ SB03-0-1.0	May 10, 2022		Soil	S22-My0047224		X																			
18	SB04-0.2-0.3	May 10, 2022		Soil	S22-My0047225								X						X							
19	AQ SB04-0-	May 10, 2022		Soil	S22-		X																			

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Project Name: HUNTINGWOOD
Project ID: 62742

Order No.:
Report #: 890110
Phone: 02 8245 0300
Fax:

Received: May 13, 2022 10:00 AM
Due: May 20, 2022
Priority: 5 Day
Contact Name: Gina Pinget

Eurofins Analytical Services Manager : Hannah Mawbey

Sample Detail						Asbestos - AS4964	Asbestos - WA guidelines	CANCELLED	HOLD	Isopropanol	Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Suite B13: OCP/PCB	VOC AIR-TRH (Total Recoverable Hydrocarbons)	Volatile Organics	Moisture Set	Moisture Set	VOCs in Ambient Air by GC/MS	Total Recoverable Hydrocarbons	Eurofins Suite B7	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX
Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
	1.0				My0047226																					
20	AQ SB04-1-1.3	May 10, 2022		Soil	S22-My0047227		X																			
21	SB05-0-0.1	May 10, 2022		Soil	S22-My0047228										X				X			X			X	
22	AQ SB05-0-1.0	May 10, 2022		Soil	S22-My0047229		X																			
23	AQ SB06-0-1.0	May 10, 2022		Soil	S22-My0047230		X																			
24	SB06-1.0-1.1	May 10, 2022		Soil	S22-My0047231														X			X				
25	AQ SB07-0-0.8	May 10, 2022		Soil	S22-My0047232		X																			

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Company Name: JBS & G Australia (NSW) P/L
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Project Name: HUNTINGWOOD
Project ID: 62742

Order No.:
Report #: 890110
Phone: 02 8245 0300
Fax:

Received: May 13, 2022 10:00 AM
Due: May 20, 2022
Priority: 5 Day
Contact Name: Gina Pinget

Eurofins Analytical Services Manager : Hannah Mawbey

Sample Detail						Asbestos - AS4964	Asbestos - WA guidelines	CANCELLED	HOLD	Isopropanol	Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Suite B13: OCP/PCB	VOC AIR-TRH (Total Recoverable Hydrocarbons)	Volatile Organics	Moisture Set	Moisture Set	VOCs in Ambient Air by GC/MS	Total Recoverable Hydrocarbons	Eurofins Suite B7	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX
Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
26	SB07-02-0.3	May 10, 2022		Soil	S22-My0047233								X		X				X							
27	AQSB08-0-0.4	May 11, 2022		Soil	S22-My0047234		X																			
28	SB08-0.3-0.4	May 11, 2022		Soil	S22-My0047235							X	X						X							
29	AQ SB09-0-0.4	May 11, 2022		Soil	S22-My0047236		X																			
30	SB09-0.3-0.4	May 11, 2022		Soil	S22-My0047237							X	X						X							
31	SB10-0.3-0.4	May 11, 2022		Soil	S22-My0047238														X			X				
32	SB10-1.5-1.6	May 11, 2022		Soil	S22-														X			X				

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
					My0047239																					
33	AQ SB10-0-1.0	May 11, 2022		Soil	S22-My0047240		X																			
34	AQ SB10-1.0-2.0	May 11, 2022		Soil	S22-My0047241		X																			
35	AQ SB11-0-1.0	May 11, 2022		Soil	S22-My0047242			X																		
36	AQ SB11-1.0-2.0	May 11, 2022		Soil	S22-My0047243		X																			
37	SB11-1.5-1.6	May 11, 2022		Soil	S22-My0047244														X			X				
38	SB12-0-0.1	May 11, 2022		Soil	S22-My0047245								X						X							

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
39	AQ SB12-0-0.7	May 11, 2022		Soil	S22-My0047246		X																			
40	SB13-0-0.1	May 11, 2022		Soil	S22-My0047247								X						X							
41	AQ SB14-0-0.2	May 11, 2022		Soil	S22-My0047248		X																			
42	SB14-0.3-0.4	May 11, 2022		Soil	S22-My0047249								X						X							
43	AQ SB15-0-0.7	May 11, 2022		Soil	S22-My0047250		X																			
44	SB15-0-0.1	May 11, 2022		Soil	S22-My0047251								X						X							
45	AQ SB16-0.2-	May 11, 2022		Soil	S22-		X																			

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
	0.6				My0047252																					
46	SB16-0.2-0.6	May 11, 2022		Soil	S22-My0047253							X	X						X							
47	SB17-0.1-0.2	May 11, 2022		Soil	S22-My0047254										X				X			X			X	
48	SB18-0.1-0.2	May 11, 2022		Soil	S22-My0047255														X			X				
49	AQ SB19-0-0.9	May 11, 2022		Soil	S22-My0047256		X																			
50	SB19-0.3-0.4	May 11, 2022		Soil	S22-My0047257								X						X							
51	SB20-0-0.1	May 11, 2022		Soil	S22-My0047258										X				X							

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
52	SB20-0.3-0.4	May 11, 2022		Soil	S22-My0047259								X						X							
53	AQ SB20-0-0.8	May 11, 2022		Soil	S22-My0047260		X																			
54	SB21-0.1-0.2	May 11, 2022		Soil	S22-My0047261														X			X				
55	SB21-0.2-0.3	May 11, 2022		Soil	S22-My0047262														X			X				
56	TP01-1.0-1.1	May 11, 2022		Soil	S22-My0047263														X			X				
57	TP01-1.5-1.6	May 11, 2022		Soil	S22-My0047264														X			X				
58	AQ TP01-0-1.0	May 11, 2022		Soil	S22-		X																			

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
					My0047265																					
59	AQ TP02-0-0.2	May 11, 2022		Soil	S22-My0047266		X																			
60	AQ TP02-0.2-1.2	May 11, 2022		Soil	S22-My0047267		X																			
61	TP02-0-0.1	May 11, 2022		Soil	S22-My0047268										X				X			X				
62	TP03-0-0.1	May 11, 2022		Soil	S22-My0047269														X			X				
63	AQTP03-0-0.1	May 11, 2022		Soil	S22-My0047270		X																			
64	AQTP03-0.1-1.1	May 11, 2022		Soil	S22-My0047271		X																			

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
65	AQ TP04-0-0.1	May 11, 2022		Soil	S22-My0047272		X																			
66	AQ TP04-0.1-0.4	May 11, 2022		Soil	S22-My0047273		X																			
67	TP04-0.2-0.3	May 11, 2022		Soil	S22-My0047274														X			X				
68	AQ TP05-0-0.2	May 11, 2022		Soil	S22-My0047275		X																			
69	AQ TP05-0.2-1.2	May 11, 2022		Soil	S22-My0047276		X																			
70	TP05-0-0.1	May 11, 2022		Soil	S22-My0047277										X				X			X				
71	TP05-1.0-1.1	May 11, 2022		Soil	S22-								X						X							

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Sample Detail						Asbestos - AS4964	Asbestos - WA guidelines	CANCELLED	HOLD	Isopropanol	Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Suite B13: OCP/PCB	VOC AIR-TRH (Total Recoverable Hydrocarbons)	Volatile Organics	Moisture Set	Moisture Set	VOCs in Ambient Air by GC/MS	Total Recoverable Hydrocarbons	Eurofins Suite B7	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX
Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
					My0047278																					
72	AQTP06-0-0.1	May 11, 2022		Soil	S22-My0047279			X																		
73	TP06-0-0.1	May 11, 2022		Soil	S22-My0047280														X			X			X	
74	AQ TP07-0.2-1.1	May 11, 2022		Soil	S22-My0047281		X																			
75	TP07-1.5-1.6	May 11, 2022		Soil	S22-My0047282														X			X				
76	TP08-0.5-0.6	May 11, 2022		Soil	S22-My0047283														X			X				
77	AQ TP08-0-0.4	May 11, 2022		Soil	S22-My0047284		X																			

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Project Name: HUNTINGWOOD
Project ID: 62742

Order No.:
Report #: 890110
Phone: 02 8245 0300
Fax:

Received: May 13, 2022 10:00 AM
Due: May 20, 2022
Priority: 5 Day
Contact Name: Gina Pinget

Eurofins Analytical Services Manager : Hannah Mawbey

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
78	AQ TP08-0.4-1.4	May 11, 2022		Soil	S22-My0047285		X																			
79	AQ TP09-0.4-1.1	May 11, 2022		Soil	S22-My0047286			X																		
80	AQ TP10-0.3-1.3	May 11, 2022		Soil	S22-My0047287			X																		
81	TP10-0.5-0.6	May 11, 2022		Soil	S22-My0047288			X																		
82	SV1 (FRONT)	May 09, 2022		Air	S22-My0047289					X						X				X						
83	SV1 (BACK)	May 09, 2022		Air	S22-My0047290					X						X				X						
84	SV3 (FRONT)	May 09, 2022		Air	S22-					X						X				X						

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
					My0047291																					
85	SV3 (BACK)	May 09, 2022		Air	S22-My0047292					X						X				X						
86	SV4 (FRONT)	May 09, 2022		Air	S22-My0047293					X						X				X						
87	SV4 (BACK)	May 09, 2022		Air	S22-My0047294					X						X				X						
88	SV5 (FRONT)	May 09, 2022		Air	S22-My0047295					X						X				X						
89	SV5 (BACK)	May 09, 2022		Air	S22-My0047296					X						X				X						
90	SV7 (FRONT)	May 09, 2022		Air	S22-My0047297					X						X				X						

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
91	SV7 (BACK)	May 09, 2022		Air	S22-My0047298					X						X				X						
92	QV01 (FRONT)	May 09, 2022		Air	S22-My0047299					X						X				X						
93	QV01 (BACK)	May 09, 2022		Air	S22-My0047300					X						X				X						
94	QC-AQ 02	May 10, 2022		Soil	S22-My0047301			X																		
95	QC-AQ 04	May 11, 2022		Soil	S22-My0047302			X																		
96	QC-01	May 09, 2022		Soil	S22-My0047303										X				X			X			X	
97	QC-03	May 10, 2022		Soil	S22-														X			X				

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
					My0047304																					
98	QC-GW02	May 12, 2022		Water	S22-My0047305							X	X				X				X				X	
99	RINSATE	May 11, 2022		Water	S22-My0047306										X							X			X	
100	RIN20220509	May 09, 2022		Water	S22-My0047307						X	X	X		X										X	
101	RIN20220510	May 10, 2022		Water	S22-My0047308						X	X	X		X										X	
102	RIN20220512	May 12, 2022		Water	S22-My0047309						X	X	X		X										X	
103	TS	May 12, 2022		Water	S22-My0047310																					X

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
104	TB	May 12, 2022		Water	S22-My0047311									X												
105	BLANK	May 12, 2022		Water	S22-My0047312																				X	
106	MW01	May 12, 2022		Water	S22-My0047313							X	X				X				X				X	
107	MW02	May 12, 2022		Water	S22-My0047314							X	X				X				X				X	
108	MW03	May 12, 2022		Water	S22-My0047315							X	X				X				X				X	
109	MW04	May 12, 2022		Water	S22-My0047316							X	X				X				X				X	
110	MWA	May 12, 2022		Water	S22-							X	X				X				X				X	

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
					My0047317																					
111	MWB	May 12, 2022		Water	S22-My0047318							X	X				X				X				X	
112	V-BLANK (FRONT)	May 09, 2022		Air	S22-My0047319					X						X				X						
113	V-BLANK (BACK)	May 09, 2022		Air	S22-My0047320					X						X				X						
114	MWC	May 12, 2022		Water	S22-My0047321							X	X				X				X				X	
115	MWD	May 12, 2022		Water	S22-My0047322							X	X				X				X				X	
116	MWE	May 12, 2022		Water	S22-My0047323							X	X				X				X				X	

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
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External Laboratory																										
117	TP09-1.0-1.1	May 11, 2022		Soil	S22-My0047324														X			X				
118	MW01-0.2-0.3	May 09, 2022		Soil	S22-My0047325				X																	
119	MW01-0.5-0.6	May 09, 2022		Soil	S22-My0047326				X																	
120	MW01-1.0-1.1	May 09, 2022		Soil	S22-My0047327				X																	
121	MW01-2.0-2.1	May 09, 2022		Soil	S22-My0047328				X																	
122	MW01-2.5-2.6	May 09, 2022		Soil	S22-My0047329				X																	
123	MW01-3.0-3.1	May 09, 2022		Soil	S22-				X																	

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Project Name: HUNTINGWOOD
Project ID: 62742

Order No.:
Report #: 890110
Phone: 02 8245 0300
Fax:

Received: May 13, 2022 10:00 AM
Due: May 20, 2022
Priority: 5 Day
Contact Name: Gina Pinget

Eurofins Analytical Services Manager : Hannah Mawbey

Sample Detail						Asbestos - AS4964	Asbestos - WA guidelines	CANCELLED	HOLD	Isopropanol	Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Suite B13: OCP/PCB	VOC AIR-TRH (Total Recoverable Hydrocarbons)	Volatile Organics	Moisture Set	Moisture Set	VOCs in Ambient Air by GC/MS	Total Recoverable Hydrocarbons	Eurofins Suite B7	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX
Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
					My0047330																					
124	MW01-4.0-4.1	May 09, 2022		Soil	S22-My0047331				X																	
125	MW01-4.5-4.6	May 09, 2022		Soil	S22-My0047332				X																	
126	MW01-5.0-5.1	May 09, 2022		Soil	S22-My0047333				X																	
127	MW01-6.0-6.1	May 09, 2022		Soil	S22-My0047334				X																	
128	MW01-6.5-6.6	May 09, 2022		Soil	S22-My0047335				X																	
129	MW01-6.9-7.0	May 09, 2022		Soil	S22-My0047336				X																	

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
130	AQMW01-1.0-1.7	May 09, 2022		Soil	S22-My0047337				X																	
131	MW02-0-0.1	May 09, 2022		Soil	S22-My0047338	X																				
132	MW02-0.2-0.3	May 09, 2022		Soil	S22-My0047339				X																	
133	MW02-0.5-0.6	May 09, 2022		Soil	S22-My0047340				X																	
134	MW02-1.0-1.1	May 09, 2022		Soil	S22-My0047341				X																	
135	MW02-1.5-1.6	May 09, 2022		Soil	S22-My0047342				X																	
136	MW02-2.0-2.1	May 09, 2022		Soil	S22-				X																	

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Eurofins Analytical Services Manager : Hannah Mawbey

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
					My0047343																					
137	MW02-3.0-3.1	May 09, 2022		Soil	S22-My0047344				X																	
138	MW02-3.5-3.6	May 09, 2022		Soil	S22-My0047345				X																	
139	MW02-4.0-4.1	May 09, 2022		Soil	S22-My0047346				X																	
140	MW02-4.5-4.6	May 09, 2022		Soil	S22-My0047347				X																	
141	MW02-5.0-5.1	May 09, 2022		Soil	S22-My0047348				X																	
142	MW02-6.0-6.1	May 09, 2022		Soil	S22-My0047349				X																	

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
143	MW02-7.0-7.1	May 09, 2022		Soil	S22-My0047350				X																	
144	MW02-7.5-7.6	May 09, 2022		Soil	S22-My0047351				X																	
145	MW02-6.5-6.6	May 09, 2022		Soil	S22-My0047352				X																	
146	MW02-8.0-8.1	May 09, 2022		Soil	S22-My0047353				X																	
147	MW02-9.0-9.1	May 09, 2022		Soil	S22-My0047354				X																	
148	MW02-9.5-9.6	May 09, 2022		Soil	S22-My0047355				X																	
149	MW02-10.0-	May 09, 2022		Soil	S22-				X																	

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
	10.1				My0047356																					
150	MW02-10.9-11.0	May 09, 2022		Soil	S22-My0047357				X																	
151	MW03-0.3-0.4	May 09, 2022		Soil	S22-My0047358				X																	
152	MW03-0.5-0.6	May 09, 2022		Soil	S22-My0047359				X																	
153	MW03-1.0-1.1	May 09, 2022		Soil	S22-My0047360				X																	
154	MW03-1.5-1.6	May 09, 2022		Soil	S22-My0047361				X																	
155	MW03-2.0-2.1	May 09, 2022		Soil	S22-My0047362				X																	

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
156	MW03-2.5-2.6	May 09, 2022		Soil	S22-My0047363				X																	
157	MW03-3.0-3.1	May 09, 2022		Soil	S22-My0047364				X																	
158	MW03-3.5-3.6	May 09, 2022		Soil	S22-My0047365				X																	
159	MW03-4.0-4.1	May 09, 2022		Soil	S22-My0047366				X																	
160	MW03-4.5-4.6	May 09, 2022		Soil	S22-My0047367				X																	
161	MW03-5.0-5.1	May 09, 2022		Soil	S22-My0047368				X																	
162	MW03-5.5-5.6	May 09, 2022		Soil	S22-				X																	

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
					My0047369																					
163	MW03-6.0-6.1	May 09, 2022		Soil	S22-My0047370				X																	
164	MW03-6.5-6.6	May 09, 2022		Soil	S22-My0047371				X																	
165	MW03-7.0-7.1	May 09, 2022		Soil	S22-My0047372				X																	
166	MW03-7.5-7.6	May 09, 2022		Soil	S22-My0047373				X																	
167	MW03-8.0-8.1	May 09, 2022		Soil	S22-My0047374				X																	
168	MW03-8.5-8.6	May 09, 2022		Soil	S22-My0047375				X																	

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Project Name: HUNTINGWOOD
Project ID: 62742

Order No.:
Report #: 890110
Phone: 02 8245 0300
Fax:

Received: May 13, 2022 10:00 AM
Due: May 20, 2022
Priority: 5 Day
Contact Name: Gina Pinget

Eurofins Analytical Services Manager : Hannah Mawbey

Sample Detail						Asbestos - AS4964	Asbestos - WA guidelines	CANCELLED	HOLD	Isopropanol	Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Suite B13: OCP/PCB	VOC AIR-TRH (Total Recoverable Hydrocarbons)	Volatile Organics	Moisture Set	Moisture Set	VOCs in Ambient Air by GC/MS	Total Recoverable Hydrocarbons	Eurofins Suite B7	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX
Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
169	MW03-9.0-9.1	May 09, 2022		Soil	S22-My0047376				X																	
170	MW04-0.3-0.4	May 10, 2022		Soil	S22-My0047377				X																	
171	MW04-05-0.6	May 10, 2022		Soil	S22-My0047378				X																	
172	MW04-1.0-1.1	May 10, 2022		Soil	S22-My0047379				X																	
173	MW04-1.5-1.6	May 10, 2022		Soil	S22-My0047380				X																	
174	MW04-2.0-2.1	May 10, 2022		Soil	S22-My0047381				X																	
175	MW04-2.5-2.6	May 10, 2022		Soil	S22-				X																	

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Contact Name: Gina Pinget

Eurofins Analytical Services Manager : Hannah Mawbey

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
					My0047382																					
176	MW04-3.0-3.1	May 10, 2022		Soil	S22-My0047383				X																	
177	MW04-3.5-3.6	May 10, 2022		Soil	S22-My0047384				X																	
178	MW04-4.0-4.1	May 10, 2022		Soil	S22-My0047385				X																	
179	MW04-4.5-4.6	May 10, 2022		Soil	S22-My0047386				X																	
180	MW04-5.0-5.1	May 10, 2022		Soil	S22-My0047387				X																	
181	MW04-5.5-5.6	May 10, 2022		Soil	S22-My0047388				X																	

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Contact Name: Gina Pinget

Eurofins Analytical Services Manager : Hannah Mawbey

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
182	MW04-6.0-6.1	May 10, 2022		Soil	S22-My0047389				X																	
183	MW04-6.5-6.6	May 10, 2022		Soil	S22-My0047390				X																	
184	MW04-7.0-7.1	May 10, 2022		Soil	S22-My0047391				X																	
185	MW04-7.5-7.6	May 10, 2022		Soil	S22-My0047392				X																	
186	MW04-8.0-8.1	May 10, 2022		Soil	S22-My0047393				X																	
187	MW04-8.5-8.6	May 10, 2022		Soil	S22-My0047394				X																	
188	MW04-9.0-9.1	May 10, 2022		Soil	S22-				X																	

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
					My0047395																					
189	MW04-9.5-9.6	May 10, 2022		Soil	S22-My0047396				X																	
190	MW04-10.0-10.1	May 10, 2022		Soil	S22-My0047397				X																	
191	SB01-0-0.1	May 10, 2022		Soil	S22-My0047398				X																	
192	SB01-0.5-0.6	May 10, 2022		Soil	S22-My0047399				X																	
193	SB01-1.0-1.1	May 10, 2022		Soil	S22-My0047400				X																	
194	SB01-1.5-1.6	May 10, 2022		Soil	S22-My0047401				X																	

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
195	SB02-03-0.4	May 12, 2022		Soil	S22-My0047402				X																	
196	SB02-0.5-06	May 12, 2022		Soil	S22-My0047403				X																	
197	SB02-1.0-1.1	May 12, 2022		Soil	S22-My0047404				X																	
198	SB02-1.5-1.6	May 12, 2022		Soil	S22-My0047405				X																	
199	SB02-1.9-2.0	May 12, 2022		Soil	S22-My0047406				X																	
200	SB03-0.2-0.3	May 10, 2022		Soil	S22-My0047407				X																	
201	SB03-0.5-06	May 10, 2022		Soil	S22-				X																	

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
					My0047408																					
202	SB03-1.0-1.1	May 10, 2022		Soil	S22-My0047409				X																	
203	SB03-1.5-1.6	May 10, 2022		Soil	S22-My0047410				X																	
204	SB04-0-0.1	May 10, 2022		Soil	S22-My0047411				X																	
205	SB04-0.5-0.6	May 10, 2022		Soil	S22-My0047412				X																	
206	SB04-1.0-1.1	May 10, 2022		Soil	S22-My0047413				X																	
207	SB04-1.5-1.6	May 10, 2022		Soil	S22-My0047414				X																	

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
208	SB04-2.0-2.1	May 10, 2022		Soil	S22-My0047415				X																	
209	SB05-0.3-0.4	May 10, 2022		Soil	S22-My0047416				X																	
210	SB05-0.5-0.6	May 10, 2022		Soil	S22-My0047417				X																	
211	SB05-1.0-1.1	May 10, 2022		Soil	S22-My0047418				X																	
212	SB05-1.5-1.6	May 10, 2022		Soil	S22-My0047419				X																	
213	SB06-0.15-0.25	May 10, 2022		Soil	S22-My0047420				X																	
214	SB06-0.5-0.6	May 10, 2022		Soil	S22-				X																	

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Sydney
NSW 2000

Project Name: HUNTINGWOOD
Project ID: 62742

Order No.:
Report #: 890110
Phone: 02 8245 0300
Fax:

Received: May 13, 2022 10:00 AM
Due: May 20, 2022
Priority: 5 Day
Contact Name: Gina Pinget

Eurofins Analytical Services Manager : Hannah Mawbey

Sample Detail						Asbestos - AS4964	Asbestos - WA guidelines	CANCELLED	HOLD	Isopropanol	Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Suite B13: OCP/PCB	VOC AIR-TRH (Total Recoverable Hydrocarbons)	Volatile Organics	Moisture Set	Moisture Set	VOCs in Ambient Air by GC/MS	Total Recoverable Hydrocarbons	Eurofins Suite B7	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX
Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
					My0047421																					
215	SB06-0.7-0.8	May 10, 2022		Soil	S22-My0047422				X																	
216	SB06-1.3-1.4	May 10, 2022		Soil	S22-My0047423				X																	
217	SB06-1.6-1.7	May 10, 2022		Soil	S22-My0047424				X																	
218	SB07-0.5-0.6	May 10, 2022		Soil	S22-My0047425				X																	
219	SB07-1.0-1.1	May 10, 2022		Soil	S22-My0047426				X																	
220	SB08-0-0.1	May 11, 2022		Soil	S22-My0047427													X						X		

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
221	SB08-0.5-0.6	May 11, 2022		Soil	S22-My0047428				X																	
222	SB08-0.8-0.9	May 11, 2022		Soil	S22-My0047429				X																	
223	SB09-0-0.1	May 11, 2022		Soil	S22-My0047430				X																	
224	SB09-0.5-0.6	May 11, 2022		Soil	S22-My0047431				X																	
225	SB09-0.8-0.9	May 11, 2022		Soil	S22-My0047432				X																	
226	SB10-0-0.1	May 11, 2022		Soil	S22-My0047433				X																	
227	SB10-0.5-0.6	May 11, 2022		Soil	S22-				X																	

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
					My0047434																					
228	SB10-1.0-1.1	May 11, 2022		Soil	S22-My0047435			X																		
229	SB10-1.9-2.0	May 11, 2022		Soil	S22-My0047436				X																	
230	SB10-2.5-2.6	May 11, 2022		Soil	S22-My0047437				X																	
231	SB10-3.0-3.5	May 11, 2022		Soil	S22-My0047438				X																	
232	SB10-3.5-3.6	May 11, 2022		Soil	S22-My0047439				X																	
233	SB11-0-0.1	May 11, 2022		Soil	S22-My0047440				X																	

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
234	SB11-0.3-0.4	May 11, 2022		Soil	S22-My0047441				X																	
235	SB11-0.5-0.6	May 11, 2022		Soil	S22-My0047442				X																	
236	SB11-1.0-1.1	May 11, 2022		Soil	S22-My0047443				X																	
237	SB11-1.9-2.0	May 11, 2022		Soil	S22-My0047444				X																	
238	SB12-0.3-0.4	May 11, 2022		Soil	S22-My0047445				X																	
239	SB12-0.5-0.6	May 11, 2022		Soil	S22-My0047446			X																		
240	SB12-0.9-1.0	May 11, 2022		Soil	S22-				X																	

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
					My0047447																					
241	AQ SB13-0-0.8	May 11, 2022		Soil	S22-My0047448				X																	
242	SB13-03-0.4	May 11, 2022		Soil	S22-My0047449				X																	
243	SB13-0.5-0.6	May 11, 2022		Soil	S22-My0047450				X																	
244	SB13-0.8-0.9	May 11, 2022		Soil	S22-My0047451				X																	
245	SB13-1.1-1.2	May 11, 2022		Soil	S22-My0047452				X																	
246	SB14-0-0.1	May 11, 2022		Soil	S22-My0047453				X																	

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
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External Laboratory																										
247	SB14-0.5-0.6	May 11, 2022		Soil	S22-My0047454				X																	
248	SB15-0.3-0.4	May 11, 2022		Soil	S22-My0047455				X																	
249	SB15-0.5-0.6	May 11, 2022		Soil	S22-My0047456				X																	
250	SB15-1.0-1.1	May 11, 2022		Soil	S22-My0047457				X																	
Test Counts						1	33	11	129	14	3	16	26	1	15	14	10	45	45	14	10	29	1	22	22	1

Internal Quality Control Review and Glossary

General

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

Holding Times

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

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

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

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

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

Units

mg/kg: milligrams per kilogram
mg/L: milligrams per litre
µg/L: micrograms per litre
ppm: parts per million
ppb: parts per billion
%: Percentage
org/100 mL: Organisms per 100 millilitres
NTU: Nephelometric Turbidity Units
MPN/100 mL: Most Probable Number of organisms per 100 millilitres

Terms

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

QC - Acceptance Criteria

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

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

Results <10 times the LOR: No Limit

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

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

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

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

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

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QC Data General Comments

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

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Total PAH*	mg/kg	-			0.5	N/A	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-HCH	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-HCH	mg/kg	< 0.05			0.05	Pass	
d-HCH	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-HCH (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.05			0.05	Pass	
Toxaphene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/kg	< 0.1			0.1	Pass	
Aroclor-1221	mg/kg	< 0.1			0.1	Pass	
Aroclor-1232	mg/kg	< 0.1			0.1	Pass	
Aroclor-1242	mg/kg	< 0.1			0.1	Pass	
Aroclor-1248	mg/kg	< 0.1			0.1	Pass	
Aroclor-1254	mg/kg	< 0.1			0.1	Pass	
Aroclor-1260	mg/kg	< 0.1			0.1	Pass	
Total PCB*	mg/kg	< 0.1			0.1	Pass	
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							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ug/kg	< 5			5	Pass	
Perfluoropentanoic acid (PFPeA)	ug/kg	< 5			5	Pass	
Perfluorohexanoic acid (PFHxA)	ug/kg	< 5			5	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/kg	< 5			5	Pass	
Perfluorooctanoic acid (PFOA)	ug/kg	< 5			5	Pass	
Perfluorononanoic acid (PFNA)	ug/kg	< 5			5	Pass	
Perfluorodecanoic acid (PFDA)	ug/kg	< 5			5	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/kg	< 5			5	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/kg	< 5			5	Pass	
Perfluorotridecanoic acid (PFTrDA)	ug/kg	< 5			5	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/kg	< 5			5	Pass	
Method Blank							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	ug/kg	< 5			5	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/kg	< 5			5	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/kg	< 5			5	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	ug/kg	< 5			5	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	ug/kg	< 5			5	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	< 10			10	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	< 10			10	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	ug/kg	< 5			5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorononanesulfonic acid (PFNS)	ug/kg	< 5			5	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/kg	< 5			5	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/kg	< 5			5	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	< 5			5	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/kg	< 5			5	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/kg	< 5			5	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/kg	< 5			5	Pass	
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	ug/kg	< 10			10	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/kg	< 5			5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	106			70-130	Pass	
TRH C10-C14	%	91			70-130	Pass	
Naphthalene	%	73			70-130	Pass	
TRH C6-C10	%	105			70-130	Pass	
TRH >C10-C16	%	89			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	96			70-130	Pass	
Toluene	%	105			70-130	Pass	
Ethylbenzene	%	114			70-130	Pass	
m&p-Xylenes	%	96			70-130	Pass	
o-Xylene	%	123			70-130	Pass	
Xylenes - Total*	%	105			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	95			70-130	Pass	
Acenaphthylene	%	97			70-130	Pass	
Anthracene	%	97			70-130	Pass	
Benz(a)anthracene	%	79			70-130	Pass	
Benzo(a)pyrene	%	93			70-130	Pass	
Benzo(b&j)fluoranthene	%	93			70-130	Pass	
Benzo(g.h.i)perylene	%	85			70-130	Pass	
Benzo(k)fluoranthene	%	110			70-130	Pass	
Chrysene	%	91			70-130	Pass	
Dibenz(a.h)anthracene	%	92			70-130	Pass	
Fluoranthene	%	97			70-130	Pass	
Fluorene	%	97			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	94			70-130	Pass	
Naphthalene	%	96			70-130	Pass	
Phenanthrene	%	90			70-130	Pass	
Pyrene	%	98			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	81			70-130	Pass	
4.4'-DDD	%	77			70-130	Pass	
4.4'-DDE	%	89			70-130	Pass	
4.4'-DDT	%	110			70-130	Pass	
a-HCH	%	76			70-130	Pass	
Aldrin	%	87			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
b-HCH	%	78			70-130	Pass	
d-HCH	%	130			70-130	Pass	
Dieldrin	%	83			70-130	Pass	
Endosulfan I	%	95			70-130	Pass	
Endosulfan II	%	85			70-130	Pass	
Endosulfan sulphate	%	77			70-130	Pass	
Endrin	%	72			70-130	Pass	
Endrin aldehyde	%	89			70-130	Pass	
Endrin ketone	%	70			70-130	Pass	
g-HCH (Lindane)	%	80			70-130	Pass	
Heptachlor	%	85			70-130	Pass	
Heptachlor epoxide	%	94			70-130	Pass	
Hexachlorobenzene	%	89			70-130	Pass	
Methoxychlor	%	113			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1016	%	123			70-130	Pass	
Aroclor-1260	%	126			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	98			80-120	Pass	
Cadmium	%	89			80-120	Pass	
Chromium	%	94			80-120	Pass	
Copper	%	92			80-120	Pass	
Lead	%	88			80-120	Pass	
Mercury	%	93			80-120	Pass	
Nickel	%	86			80-120	Pass	
Zinc	%	88			80-120	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	95			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	97			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	98			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	100			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	105			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	99			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	102			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	105			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	101			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	84			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	100			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	99			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	100			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	97			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	%	96			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	%	99			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	102			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	101			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	87			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	90			50-150	Pass	

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluoropropanesulfonic acid (PFPrS)			%	83			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)			%	86			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)			%	91			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)			%	82			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)			%	88			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)			%	94			50-150	Pass	
LCS - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)									
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)			%	90			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)			%	95			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)			%	102			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)			%	92			50-150	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C9	S22-My0029808	NCP	%	106			70-130	Pass	
TRH C10-C14	S22-My0054338	NCP	%	74			70-130	Pass	
TRH C6-C10	S22-My0029808	NCP	%	110			70-130	Pass	
TRH >C10-C16	S22-My0054338	NCP	%	73			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S22-My0036336	NCP	%	106			70-130	Pass	
Acenaphthylene	S22-My0036336	NCP	%	99			70-130	Pass	
Anthracene	S22-My0036336	NCP	%	85			70-130	Pass	
Benz(a)anthracene	S22-My0036336	NCP	%	104			70-130	Pass	
Benzo(a)pyrene	S22-My0036336	NCP	%	105			70-130	Pass	
Benzo(b&j)fluoranthene	S22-My0036336	NCP	%	99			70-130	Pass	
Benzo(g.h.i)perylene	S22-My0036336	NCP	%	106			70-130	Pass	
Benzo(k)fluoranthene	S22-My0036336	NCP	%	113			70-130	Pass	
Chrysene	S22-My0036336	NCP	%	97			70-130	Pass	
Dibenz(a.h)anthracene	S22-My0036336	NCP	%	114			70-130	Pass	
Fluoranthene	S22-My0036336	NCP	%	99			70-130	Pass	
Fluorene	S22-My0036336	NCP	%	104			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S22-My0036336	NCP	%	110			70-130	Pass	
Naphthalene	S22-My0036336	NCP	%	99			70-130	Pass	
Phenanthrene	S22-My0036336	NCP	%	117			70-130	Pass	
Pyrene	S22-My0036336	NCP	%	99			70-130	Pass	
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluorobutanoic acid (PFBA)	S22-My0047228	CP	%	102			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	S22-My0047228	CP	%	105			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	S22-My0047228	CP	%	107			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	S22-My0047228	CP	%	107			50-150	Pass	
Perfluorooctanoic acid (PFOA)	S22-My0047228	CP	%	111			50-150	Pass	
Perfluorononanoic acid (PFNA)	S22-My0047228	CP	%	108			50-150	Pass	
Perfluorodecanoic acid (PFDA)	S22-My0047228	CP	%	110			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	S22-My0047228	CP	%	112			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	S22-My0047228	CP	%	106			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	S22-My0047228	CP	%	99			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	S22-My0047228	CP	%	105			50-150	Pass	
Spike - % Recovery									

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	S22-My0047228	CP	%	104			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	S22-My0047228	CP	%	101			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	S22-My0047228	CP	%	104			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	S22-My0047228	CP	%	103			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	S22-My0047228	CP	%	105			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	S22-My0047228	CP	%	105			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	S22-My0047228	CP	%	122			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	S22-My0047228	CP	%	94			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	S22-My0047228	CP	%	97			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	S22-My0047228	CP	%	94			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	S22-My0047228	CP	%	92			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	S22-My0047228	CP	%	99			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	S22-My0047228	CP	%	96			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	S22-My0047228	CP	%	99			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	S22-My0047228	CP	%	104			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	S22-My0047228	CP	%	104			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	S22-My0047228	CP	%	101			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	S22-My0047228	CP	%	99			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	S22-My0047228	CP	%	98			50-150	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S22-My0035390	NCP	%	80			70-130	Pass	
4.4'-DDD	S22-My0036182	NCP	%	111			70-130	Pass	
4.4'-DDE	S22-My0035390	NCP	%	78			70-130	Pass	
4.4'-DDT	S22-My0035390	NCP	%	94			70-130	Pass	
a-HCH	S22-My0036182	NCP	%	110			70-130	Pass	
Aldrin	S22-My0035390	NCP	%	77			70-130	Pass	
b-HCH	S22-My0036182	NCP	%	101			70-130	Pass	
d-HCH	S22-My0035390	NCP	%	70			70-130	Pass	
Dieldrin	S22-My0035390	NCP	%	71			70-130	Pass	
Endosulfan I	S22-My0036182	NCP	%	102			70-130	Pass	
Endosulfan II	S22-My0036182	NCP	%	108			70-130	Pass	
Endosulfan sulphate	S22-My0036182	NCP	%	85			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endrin	S22-My0035390	NCP	%	96			70-130	Pass	
Endrin aldehyde	S22-My0036182	NCP	%	111			70-130	Pass	
Endrin ketone	S22-My0035390	NCP	%	71			70-130	Pass	
g-HCH (Lindane)	S22-My0035390	NCP	%	101			70-130	Pass	
Heptachlor	S22-My0035390	NCP	%	109			70-130	Pass	
Heptachlor epoxide	S22-My0035390	NCP	%	82			70-130	Pass	
Hexachlorobenzene	S22-My0035390	NCP	%	77			70-130	Pass	
Methoxychlor	S22-My0035390	NCP	%	98			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls				Result 1					
Aroclor-1016	S22-My0035390	NCP	%	83			70-130	Pass	
Aroclor-1260	S22-My0035390	NCP	%	90			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S22-My0047254	CP	%	95			75-125	Pass	
Cadmium	S22-My0047254	CP	%	92			75-125	Pass	
Chromium	S22-My0047254	CP	%	88			75-125	Pass	
Copper	S22-My0047254	CP	%	93			75-125	Pass	
Lead	S22-My0047254	CP	%	92			75-125	Pass	
Mercury	S22-My0047254	CP	%	98			75-125	Pass	
Nickel	S22-My0047254	CP	%	97			75-125	Pass	
Zinc	S22-My0047254	CP	%	90			75-125	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
Naphthalene	S22-My0047304	CP	%	98			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S22-My0047304	CP	%	109			70-130	Pass	
Toluene	S22-My0047304	CP	%	105			70-130	Pass	
Ethylbenzene	S22-My0047304	CP	%	111			70-130	Pass	
m&p-Xylenes	S22-My0047304	CP	%	109			70-130	Pass	
o-Xylene	S22-My0047304	CP	%	108			70-130	Pass	
Xylenes - Total*	S22-My0047304	CP	%	108			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S22-My0040623	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S22-My0040623	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S22-My0040623	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S22-My0040623	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S22-My0040623	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S22-My0040623	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S22-My0040623	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S22-My0040623	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S22-My0040623	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S22-My0040623	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S22-My0040623	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S22-My0040623	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S22-My0040623	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S22-My0040623	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S22-My0040623	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S22-My0040623	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S22-My0054337	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
4.4'-DDD	S22-My0054337	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4.4'-DDE	S22-My0054337	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4.4'-DDT	S22-My0054337	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
a-HCH	S22-My0054337	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aldrin	S22-My0054337	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
b-HCH	S22-My0054337	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
d-HCH	S22-My0054337	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dieldrin	S22-My0054337	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Endosulfan I	S22-My0054337	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Endosulfan II	S22-My0054337	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Endosulfan sulphate	S22-My0054337	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Endrin	S22-My0054337	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Endrin aldehyde	S22-My0054337	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Endrin ketone	S22-My0054337	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
g-HCH (Lindane)	S22-My0054337	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Heptachlor	S22-My0054337	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Heptachlor epoxide	S22-My0054337	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Hexachlorobenzene	S22-My0054337	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Methoxychlor	S22-My0054337	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Toxaphene	S22-My0054337	NCP	mg/kg	< 10	< 10	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	S22-My0054337	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
Aroclor-1221	S22-My0054337	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
Aroclor-1232	S22-My0054337	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
Aroclor-1242	S22-My0054337	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
Aroclor-1248	S22-My0054337	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
Aroclor-1254	S22-My0054337	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
Aroclor-1260	S22-My0054337	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
Total PCB*	S22-My0054337	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S22-My0047186	NCP	%	14	13	7.0	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	S22-My0047208	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	S22-My0047208	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	S22-My0047208	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	S22-My0047208	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	S22-My0047208	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	S22-My0047208	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	S22-My0047208	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	S22-My0047208	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	S22-My0047208	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	S22-My0047208	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	S22-My0047208	CP	ug/kg	< 5	< 5	<1	30%	Pass	

Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	S22-My0047208	CP	ug/kg	< 5	< 5	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	S22-My0047208	CP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	S22-My0047208	CP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	S22-My0047208	CP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	S22-My0047208	CP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	S22-My0047208	CP	ug/kg	< 10	< 10	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	S22-My0047208	CP	ug/kg	< 10	< 10	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	S22-My0047208	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	S22-My0047208	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	S22-My0047208	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	S22-My0047208	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	S22-My0047208	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	S22-My0047208	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	S22-My0047208	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	S22-My0047208	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	S22-My0047208	CP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	S22-My0047208	CP	ug/kg	< 10	< 10	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	S22-My0047208	CP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	S22-My0047208	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C10-C14	S22-My0047212	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S22-My0047212	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S22-My0047212	CP	mg/kg	74	68	8.0	30%	Pass	
TRH >C10-C16	S22-My0047212	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S22-My0047212	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S22-My0047212	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S22-My0047213	CP	mg/kg	16	14	15	30%	Pass	
Cadmium	S22-My0047213	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S22-My0047213	CP	mg/kg	21	12	54	30%	Fail	Q15
Copper	S22-My0047213	CP	mg/kg	68	57	18	30%	Pass	

Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Lead	S22-My0047213	CP	mg/kg	18	12	40	30%	Fail	Q15
Mercury	S22-My0047213	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S22-My0047213	CP	mg/kg	20	12	45	30%	Fail	Q15
Zinc	S22-My0047213	CP	mg/kg	110	82	30	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	S22-My0047222	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Naphthalene	S22-My0047222	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S22-My0047222	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S22-My0047222	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S22-My0047222	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S22-My0047222	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S22-My0047222	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S22-My0047222	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S22-My0047222	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S22-My0047253	CP	mg/kg	9.6	17	54	30%	Fail	Q15
Cadmium	S22-My0047253	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S22-My0047253	CP	mg/kg	18	23	25	30%	Pass	
Copper	S22-My0047253	CP	mg/kg	19	20	4.0	30%	Pass	
Lead	S22-My0047253	CP	mg/kg	31	33	6.0	30%	Pass	
Mercury	S22-My0047253	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S22-My0047253	CP	mg/kg	9.1	10	13	30%	Pass	
Zinc	S22-My0047253	CP	mg/kg	52	50	3.0	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S22-My0047255	CP	mg/kg	6.2	6.3	1.0	30%	Pass	
Cadmium	S22-My0047255	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S22-My0047255	CP	mg/kg	11	11	3.0	30%	Pass	
Copper	S22-My0047255	CP	mg/kg	29	29	2.0	30%	Pass	
Lead	S22-My0047255	CP	mg/kg	11	13	15	30%	Pass	
Mercury	S22-My0047255	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S22-My0047255	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Zinc	S22-My0047255	CP	mg/kg	24	25	3.0	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	S22-My0047263	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Naphthalene	S22-My0047263	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S22-My0047263	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S22-My0047263	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S22-My0047263	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S22-My0047263	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S22-My0047263	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S22-My0047263	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S22-My0047263	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	

Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S22-My0047269	CP	mg/kg	9.7	8.0	20	30%	Pass	
Cadmium	S22-My0047269	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S22-My0047269	CP	mg/kg	22	16	32	30%	Fail	Q15
Copper	S22-My0047269	CP	mg/kg	23	21	9.0	30%	Pass	
Lead	S22-My0047269	CP	mg/kg	14	12	10	30%	Pass	
Mercury	S22-My0047269	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S22-My0047269	CP	mg/kg	20	19	3.0	30%	Pass	
Zinc	S22-My0047269	CP	mg/kg	65	58	12	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S22-My0047277	CP	mg/kg	4.7	5.2	10	30%	Pass	
Cadmium	S22-My0047277	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S22-My0047277	CP	mg/kg	18	52	98	30%	Fail	Q15
Copper	S22-My0047277	CP	mg/kg	49	51	3.0	30%	Pass	
Lead	S22-My0047277	CP	mg/kg	21	23	9.0	30%	Pass	
Mercury	S22-My0047277	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S22-My0047277	CP	mg/kg	19	18	6.0	30%	Pass	
Zinc	S22-My0047277	CP	mg/kg	64	67	5.0	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C10-C14	S22-My0047283	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S22-My0047283	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S22-My0047283	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C10-C16	S22-My0047283	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S22-My0047283	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S22-My0047283	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S22-My0047427	CP	%	19	16	17	30%	Pass	

Comments

This report has been revised V4 following repeat analysis.

Quarantining the failed LCS for toxaphene.

Sample Integrity

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

Qualifier Codes/Comments

Code	Description
G01	The LORs have been raised due to matrix interference
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).
Q09	The Surrogate recovery is outside of the recommended acceptance criteria due to matrix interference. Acceptance criteria were met for all other QC
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:

Andrew Black	Analytical Services Manager
Charl Du Preez	Senior Analyst-PFAS
Charl Du Preez	Senior Analyst-Sample Properties
Gabriele Cordero	Senior Analyst-Metal
Jonathon Angell	Senior Analyst-PFAS
Jonathon Angell	Senior Analyst-Sample Properties
Roopesh Rangarajan	Senior Analyst-Organic
Roopesh Rangarajan	Senior Analyst-Volatile
Sayeed Abu	Senior Analyst-Asbestos



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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Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
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Attention: **Gina Pinget**

Report **890110-A-V3**
Project name HUNTINGWOOD
Project ID 62742
Received Date May 13, 2022

Client Sample ID			**SV1 (FRONT)**	**SV1 (BACK)**	**SV3 (FRONT)**	**SV3 (BACK)**
Sample Matrix			**Air**	**Air**	**Air**	**Air**
Eurofins Sample No.			**S22-My0047289**	**S22-My0047290**	**S22-My0047291**	**S22-My0047292**
Date Sampled			**May 09, 2022**	**May 09, 2022**	**May 09, 2022**	**May 09, 2022**
Test/Reference	LOR	Unit				
Isopropanol	10	Total ug	< 10	< 10	< 10	< 10
VOCs in Ambient Air by GC/MS						
1.1-Dichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dibromo-3-chloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dibromoethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
2-Chlorotoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
2.2-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
4-Chlorotoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Benzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Bromochloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Bromodichloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Bromoform	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Carbon Tetrachloride	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Chloroform	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.2-Dichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.3-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Dibromochloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Dibromomethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.5	Total ug	6.4	< 0.5	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
n-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
n-Propylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			SV1 (FRONT)	SV1 (BACK)	SV3 (FRONT)	SV3 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			S22-My0047289	S22-My0047290	S22-My0047291	S22-My0047292
Date Sampled			May 09, 2022	May 09, 2022	May 09, 2022	May 09, 2022
Test/Reference	LOR	Unit				
VOCs in Ambient Air by GC/MS						
Naphthalene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
p-Isopropyltoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
sec-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Styrene	5	Total ug	< 5	< 5	< 5	< 5
tert-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Tetrachloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
trans-1.3-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Trichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Vinyl chloride	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes - Total*	1.5	Total ug	32	< 1.5	< 1.5	< 1.5
Fluorobenzene (surr.)	1	%	82	84	81	82
4-Bromofluorobenzene (surr.)	1	%	101	100	97	99
Dibromofluoromethane (surr.)	1	%	81	84	81	76
1.2-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.3-Trichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Hexachlorobutadiene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Total Recoverable Hydrocarbons						
TRH C6-C10	20	Total ug	77	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	Total ug	39	< 20	< 20	< 20
TRH >C10-C16	20	Total ug	< 20	< 20	< 20	< 20
TRH >C10-C16 less Naphthalene (F2)[N01]	20	Total ug	< 20	< 20	< 20	< 20

Client Sample ID			SV4 (FRONT)	SV4 (BACK)	SV5 (FRONT)	SV5 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			S22-My0047293	S22-My0047294	S22-My0047295	S22-My0047296
Date Sampled			May 09, 2022	May 09, 2022	May 09, 2022	May 09, 2022
Test/Reference	LOR	Unit				
Isopropanol	10	Total ug	< 10	< 10	< 10	< 10
VOCs in Ambient Air by GC/MS						
1.1-Dichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dibromo-3-chloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dibromoethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			SV4 (FRONT)	SV4 (BACK)	SV5 (FRONT)	SV5 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			S22-My0047293	S22-My0047294	S22-My0047295	S22-My0047296
Date Sampled			May 09, 2022	May 09, 2022	May 09, 2022	May 09, 2022
Test/Reference	LOR	Unit				
VOCs in Ambient Air by GC/MS						
1.2.4-Trimethylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
2-Chlorotoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
2.2-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
4-Chlorotoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Benzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Bromochloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Bromodichloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Bromoform	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Carbon Tetrachloride	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Chloroform	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.2-Dichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.3-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Dibromochloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Dibromomethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
n-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
n-Propylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
p-Isopropyltoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
sec-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Styrene	5	Total ug	< 5	< 5	< 5	< 5
tert-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Tetrachloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
trans-1.3-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Trichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Vinyl chloride	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes - Total*	1.5	Total ug	< 1.5	< 1.5	< 1.5	< 1.5
Fluorobenzene (surr.)	1	%	81	80	81	81
4-Bromofluorobenzene (surr.)	1	%	99	99	97	99
Dibromofluoromethane (surr.)	1	%	82	84	83	81
1.2-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.3-Trichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Hexachlorobutadiene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Total Recoverable Hydrocarbons						
TRH C6-C10	20	Total ug	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	Total ug	< 20	< 20	< 20	< 20
TRH >C10-C16	20	Total ug	< 20	< 20	< 20	< 20
TRH >C10-C16 less Naphthalene (F2)[N01]	20	Total ug	< 20	< 20	< 20	< 20

Client Sample ID			SV7 (FRONT)	SV7 (BACK)	QV01 (FRONT)	QV01 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			S22-My0047297	S22-My0047298	S22-My0047299	S22-My0047300
Date Sampled			May 09, 2022	May 09, 2022	May 09, 2022	May 09, 2022
Test/Reference	LOR	Unit				
Isopropanol	10	Total ug	< 10	< 10	< 10	< 10
VOCs in Ambient Air by GC/MS						
1.1-Dichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dibromo-3-chloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dibromoethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
2-Chlorotoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
2.2-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
4-Chlorotoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Benzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Bromochloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Bromodichloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Bromoform	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Carbon Tetrachloride	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Chloroform	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.2-Dichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.3-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Dibromochloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Dibromomethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.5	Total ug	< 0.5	< 0.5	4.6	< 0.5
Isopropyl benzene (Cumene)	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
n-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
n-Propylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
p-Isopropyltoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
sec-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Styrene	5	Total ug	< 5	< 5	< 5	< 5
tert-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Tetrachloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
trans-1.3-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Trichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Vinyl chloride	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes - Total*	1.5	Total ug	< 1.5	< 1.5	24	< 1.5
Fluorobenzene (surr.)	1	%	81	80	84	81
4-Bromofluorobenzene (surr.)	1	%	98	101	100	99

Client Sample ID			SV7 (FRONT)	SV7 (BACK)	QV01 (FRONT)	QV01 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			S22-My0047297	S22-My0047298	S22-My0047299	S22-My0047300
Date Sampled			May 09, 2022	May 09, 2022	May 09, 2022	May 09, 2022
Test/Reference	LOR	Unit				
VOCs in Ambient Air by GC/MS						
Dibromofluoromethane (surr.)	1	%	70	86	90	83
1.2-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.3-Trichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Hexachlorobutadiene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Total Recoverable Hydrocarbons						
TRH C6-C10	20	Total ug	22	< 20	61	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	Total ug	22	< 20	32	< 20
TRH >C10-C16	20	Total ug	< 20	< 20	< 20	< 20
TRH >C10-C16 less Naphthalene (F2)[N01]	20	Total ug	< 20	< 20	< 20	< 20

Client Sample ID			V-BLANK (FRONT)	V-BLANK (BACK)
Sample Matrix			Air	Air
Eurofins Sample No.			S22-My0047319	S22-My0047320
Date Sampled			May 09, 2022	May 09, 2022
Test/Reference	LOR	Unit		
Isopropanol	10	Total ug	< 10	< 10
VOCs in Ambient Air by GC/MS				
1.1-Dichloroethane	0.5	Total ug	< 0.5	< 0.5
1.1-Dichloroethene	0.5	Total ug	< 0.5	< 0.5
1.1-Dichloropropene	0.5	Total ug	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	Total ug	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	Total ug	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	Total ug	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	Total ug	< 0.5	< 0.5
1.2-Dibromo-3-chloropropane	0.5	Total ug	< 0.5	< 0.5
1.2-Dibromoethane	0.5	Total ug	< 0.5	< 0.5
1.2-Dichloroethane	0.5	Total ug	< 0.5	< 0.5
1.2-Dichloropropane	0.5	Total ug	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	Total ug	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	Total ug	< 0.5	< 0.5
1.3-Dichloropropane	0.5	Total ug	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	Total ug	< 0.5	< 0.5
2-Chlorotoluene	0.5	Total ug	< 0.5	< 0.5
2.2-Dichloropropane	0.5	Total ug	< 0.5	< 0.5
4-Chlorotoluene	0.5	Total ug	< 0.5	< 0.5
Benzene	0.5	Total ug	< 0.5	< 0.5
Bromochloromethane	0.5	Total ug	< 0.5	< 0.5
Bromodichloromethane	0.5	Total ug	< 0.5	< 0.5
Bromoform	0.5	Total ug	< 0.5	< 0.5
Carbon Tetrachloride	0.5	Total ug	< 0.5	< 0.5
Chlorobenzene	0.5	Total ug	< 0.5	< 0.5
Chloroform	0.5	Total ug	< 0.5	< 0.5

Client Sample ID			V-BLANK (FRONT)	V-BLANK (BACK)
Sample Matrix			Air	Air
Eurofins Sample No.			S22-My0047319	S22-My0047320
Date Sampled			May 09, 2022	May 09, 2022
Test/Reference	LOR	Unit		
VOCs in Ambient Air by GC/MS				
cis-1.2-Dichloroethene	0.5	Total ug	< 0.5	< 0.5
cis-1.3-Dichloropropene	0.5	Total ug	< 0.5	< 0.5
Dibromochloromethane	0.5	Total ug	< 0.5	< 0.5
Dibromomethane	0.5	Total ug	< 0.5	< 0.5
Ethylbenzene	0.5	Total ug	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	Total ug	< 0.5	< 0.5
n-Butylbenzene	0.5	Total ug	< 0.5	< 0.5
n-Propylbenzene	0.5	Total ug	< 0.5	< 0.5
Naphthalene	0.5	Total ug	< 0.5	< 0.5
p-Isopropyltoluene	0.5	Total ug	< 0.5	< 0.5
sec-Butylbenzene	0.5	Total ug	< 0.5	< 0.5
Styrene	5	Total ug	< 5	< 5
tert-Butylbenzene	0.5	Total ug	< 0.5	< 0.5
Tetrachloroethene	0.5	Total ug	< 0.5	< 0.5
Toluene	0.5	Total ug	< 0.5	< 0.5
trans-1.3-Dichloropropene	0.5	Total ug	< 0.5	< 0.5
Trichloroethene	0.5	Total ug	< 0.5	< 0.5
Trichlorofluoromethane	0.5	Total ug	< 0.5	< 0.5
Vinyl chloride	0.5	Total ug	< 0.5	< 0.5
Xylenes - Total*	1.5	Total ug	< 1.5	< 1.5
Fluorobenzene (surr.)	1	%	82	81
4-Bromofluorobenzene (surr.)	1	%	98	99
Dibromofluoromethane (surr.)	1	%	79	89
1.2-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5
1.2.3-Trichlorobenzene	0.5	Total ug	< 0.5	< 0.5
1.2.4-Trichlorobenzene	0.5	Total ug	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5
Hexachlorobutadiene	0.5	Total ug	< 0.5	< 0.5
Total Recoverable Hydrocarbons				
TRH C6-C10	20	Total ug	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	Total ug	< 20	< 20
TRH >C10-C16	20	Total ug	< 20	< 20
TRH >C10-C16 less Naphthalene (F2)[N01]	20	Total ug	< 20	< 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
Isopropanol	Melbourne	May 19, 2022	14 Days
- Method: LTM-ORG-2030 VOCs in Ambient Air by GC/MS			
VOCs in Ambient Air by GC/MS	Melbourne	May 19, 2022	14 Days
- Method: LTM-ORG-2030 VOCs in Ambient Air by GC/MS			
VOC AIR-TRH (Total Recoverable Hydrocarbons)			
Total Recoverable Hydrocarbons	Melbourne	May 19, 2022	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
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Project Name: HUNTINGWOOD
Project ID: 62742

Order No.:
Report #: 890110
Phone: 02 8245 0300
Fax:

Received: May 13, 2022 10:00 AM
Due: May 20, 2022
Priority: 5 Day
Contact Name: Gina Pinget

Eurofins Analytical Services Manager : Hannah Mawbey

Sample Detail	Asbestos - AS4964	Asbestos - WA guidelines	CANCELLED	HOLD	Isopropanol	Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Suite B13: OCP/PCB	VOC AIR-TRH (Total Recoverable Hydrocarbons)	Volatile Organics	Moisture Set	Moisture Set	VOCs in Ambient Air by GC/MS	Total Recoverable Hydrocarbons	Eurofins Suite B7	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX
Melbourne Laboratory - NATA # 1261 Site # 1254					X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217	X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794											X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																					
Perth Laboratory - NATA # 2377 Site # 2370																					
External Laboratory																					

No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID																		
1	MW01-0-0.1	May 09, 2022		Soil	S22-My0047208										X				X				X		
2	MW01-1.5-1.6	May 09, 2022		Soil	S22-My0047209														X						
3	AQMW01-0-1.0	May 09, 2022		Soil	S22-My0047210		X																		
4	AQMW02-0-1.0	May 09, 2022		Soil	S22-My0047211			X																	
5	MW02-2.5-2.6	May 09, 2022		Soil	S22-My0047212										X				X						
6	MW03-0-0.1	May 09, 2022		Soil	S22-														X						

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Project Name: HUNTINGWOOD
Project ID: 62742

Order No.:
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Phone: 02 8245 0300
Fax:

Received: May 13, 2022 10:00 AM
Due: May 20, 2022
Priority: 5 Day
Contact Name: Gina Pinget

Eurofins Analytical Services Manager : Hannah Mawbey

Sample Detail						Asbestos - AS4964	Asbestos - WA guidelines	CANCELLED	HOLD	Isopropanol	Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Suite B13: OCP/PCB	VOC AIR-TRH (Total Recoverable Hydrocarbons)	Volatile Organics	Moisture Set	Moisture Set	VOCs in Ambient Air by GC/MS	Total Recoverable Hydrocarbons	Eurofins Suite B7	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX
Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
					My0047213																					
7	AQ MW03-0-0.8	May 09, 2022		Soil	S22-My0047214		X																			
8	AQ MW04-0-0.5	May 10, 2022		Soil	S22-My0047215		X																			
9	MW04-0-0.1	May 10, 2022		Soil	S22-My0047216														X			X			X	
10	SB01-0.3-0.4	May 10, 2022		Soil	S22-My0047217										X				X			X				
11	SB01-0.7-0.8	May 10, 2022		Soil	S22-My0047218														X			X				
12	AQ SB01-0-0.5	May 10, 2022		Soil	S22-My0047219			X																		

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Project Name: HUNTINGWOOD
Project ID: 62742

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Phone: 02 8245 0300
Fax:

Received: May 13, 2022 10:00 AM
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Priority: 5 Day
Contact Name: Gina Pinget

Eurofins Analytical Services Manager : Hannah Mawbey

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
13	AQ SB02-0-1.0	May 12, 2022		Soil	S22-My0047220		X																			
14	SB02-0-0.1	May 12, 2022		Soil	S22-My0047221										X				X							
15	SB02-0.7-0.8	May 12, 2022		Soil	S22-My0047222														X			X				
16	SB03-0-0.1	May 10, 2022		Soil	S22-My0047223								X						X							
17	AQ SB03-0-1.0	May 10, 2022		Soil	S22-My0047224		X																			
18	SB04-0.2-0.3	May 10, 2022		Soil	S22-My0047225								X						X							
19	AQ SB04-0-	May 10, 2022		Soil	S22-		X																			

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Received: May 13, 2022 10:00 AM
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Priority: 5 Day
Contact Name: Gina Pinget

Eurofins Analytical Services Manager : Hannah Mawbey

Sample Detail						Asbestos - AS4964	Asbestos - WA guidelines	CANCELLED	HOLD	Isopropanol	Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Suite B13: OCP/PCB	VOC AIR-TRH (Total Recoverable Hydrocarbons)	Volatile Organics	Moisture Set	Moisture Set	VOCs in Ambient Air by GC/MS	Total Recoverable Hydrocarbons	Eurofins Suite B7	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX
Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
	1.0				My0047226																					
20	AQ SB04-1-1.3	May 10, 2022		Soil	S22-My0047227		X																			
21	SB05-0-0.1	May 10, 2022		Soil	S22-My0047228										X				X			X			X	
22	AQ SB05-0-1.0	May 10, 2022		Soil	S22-My0047229		X																			
23	AQ SB06-0-1.0	May 10, 2022		Soil	S22-My0047230		X																			
24	SB06-1.0-1.1	May 10, 2022		Soil	S22-My0047231														X			X				
25	AQ SB07-0-0.8	May 10, 2022		Soil	S22-My0047232		X																			

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Contact Name: Gina Pinget

Eurofins Analytical Services Manager : Hannah Mawbey

Sample Detail						Asbestos - AS4964	Asbestos - WA guidelines	CANCELLED	HOLD	Isopropanol	Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Suite B13: OCP/PCB	VOC AIR-TRH (Total Recoverable Hydrocarbons)	Volatile Organics	Moisture Set	Moisture Set	VOCs in Ambient Air by GC/MS	Total Recoverable Hydrocarbons	Eurofins Suite B7	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX
Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
26	SB07-02-0.3	May 10, 2022		Soil	S22-My0047233								X		X				X							
27	AQSB08-0-0.4	May 11, 2022		Soil	S22-My0047234		X																			
28	SB08-0.3-0.4	May 11, 2022		Soil	S22-My0047235							X	X						X							
29	AQ SB09-0-0.4	May 11, 2022		Soil	S22-My0047236		X																			
30	SB09-0.3-0.4	May 11, 2022		Soil	S22-My0047237							X	X						X							
31	SB10-0.3-0.4	May 11, 2022		Soil	S22-My0047238														X			X				
32	SB10-1.5-1.6	May 11, 2022		Soil	S22-														X			X				

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
					My0047239																					
33	AQ SB10-0-1.0	May 11, 2022		Soil	S22-My0047240		X																			
34	AQ SB10-1.0-2.0	May 11, 2022		Soil	S22-My0047241		X																			
35	AQ SB11-0-1.0	May 11, 2022		Soil	S22-My0047242			X																		
36	AQ SB11-1.0-2.0	May 11, 2022		Soil	S22-My0047243		X																			
37	SB11-1.5-1.6	May 11, 2022		Soil	S22-My0047244														X			X				
38	SB12-0-0.1	May 11, 2022		Soil	S22-My0047245								X						X							

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
39	AQ SB12-0-0.7	May 11, 2022		Soil	S22-My0047246		X																			
40	SB13-0-0.1	May 11, 2022		Soil	S22-My0047247								X						X							
41	AQ SB14-0-0.2	May 11, 2022		Soil	S22-My0047248		X																			
42	SB14-0.3-0.4	May 11, 2022		Soil	S22-My0047249								X						X							
43	AQ SB15-0-0.7	May 11, 2022		Soil	S22-My0047250		X																			
44	SB15-0-0.1	May 11, 2022		Soil	S22-My0047251								X						X							
45	AQ SB16-0.2-	May 11, 2022		Soil	S22-		X																			

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Project Name: HUNTINGWOOD
Project ID: 62742

Order No.:
Report #: 890110
Phone: 02 8245 0300
Fax:

Received: May 13, 2022 10:00 AM
Due: May 20, 2022
Priority: 5 Day
Contact Name: Gina Pinget

Eurofins Analytical Services Manager : Hannah Mawbey

Sample Detail						Asbestos - AS4964	Asbestos - WA guidelines	CANCELLED	HOLD	Isopropanol	Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Suite B13: OCP/PCB	VOC AIR-TRH (Total Recoverable Hydrocarbons)	Volatile Organics	Moisture Set	Moisture Set	VOCs in Ambient Air by GC/MS	Total Recoverable Hydrocarbons	Eurofins Suite B7	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX
Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
	0.6				My0047252																					
46	SB16-0.2-0.6	May 11, 2022		Soil	S22-My0047253							X	X						X							
47	SB17-0.1-0.2	May 11, 2022		Soil	S22-My0047254										X				X			X			X	
48	SB18-0.1-0.2	May 11, 2022		Soil	S22-My0047255														X			X				
49	AQ SB19-0-0.9	May 11, 2022		Soil	S22-My0047256		X																			
50	SB19-0.3-0.4	May 11, 2022		Soil	S22-My0047257								X						X							
51	SB20-0-0.1	May 11, 2022		Soil	S22-My0047258										X				X							

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
52	SB20-0.3-0.4	May 11, 2022		Soil	S22-My0047259								X						X							
53	AQ SB20-0-0.8	May 11, 2022		Soil	S22-My0047260		X																			
54	SB21-0.1-0.2	May 11, 2022		Soil	S22-My0047261														X			X				
55	SB21-0.2-0.3	May 11, 2022		Soil	S22-My0047262														X			X				
56	TP01-1.0-1.1	May 11, 2022		Soil	S22-My0047263														X			X				
57	TP01-1.5-1.6	May 11, 2022		Soil	S22-My0047264														X			X				
58	AQ TP01-0-1.0	May 11, 2022		Soil	S22-		X																			

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
					My0047265																					
59	AQ TP02-0-0.2	May 11, 2022		Soil	S22-My0047266		X																			
60	AQ TP02-0.2-1.2	May 11, 2022		Soil	S22-My0047267		X																			
61	TP02-0-0.1	May 11, 2022		Soil	S22-My0047268										X				X			X				
62	TP03-0-0.1	May 11, 2022		Soil	S22-My0047269														X			X				
63	AQTP03-0-0.1	May 11, 2022		Soil	S22-My0047270		X																			
64	AQTP03-0.1-1.1	May 11, 2022		Soil	S22-My0047271		X																			

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
65	AQ TP04-0-0.1	May 11, 2022		Soil	S22-My0047272		X																			
66	AQ TP04-0.1-0.4	May 11, 2022		Soil	S22-My0047273		X																			
67	TP04-0.2-0.3	May 11, 2022		Soil	S22-My0047274														X			X				
68	AQ TP05-0-0.2	May 11, 2022		Soil	S22-My0047275		X																			
69	AQ TP05-0.2-1.2	May 11, 2022		Soil	S22-My0047276		X																			
70	TP05-0-0.1	May 11, 2022		Soil	S22-My0047277										X				X			X				
71	TP05-1.0-1.1	May 11, 2022		Soil	S22-								X						X							

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
					My0047278																					
72	AQTP06-0-0.1	May 11, 2022		Soil	S22-My0047279			X																		
73	TP06-0-0.1	May 11, 2022		Soil	S22-My0047280														X			X			X	
74	AQ TP07-0.2-1.1	May 11, 2022		Soil	S22-My0047281		X																			
75	TP07-1.5-1.6	May 11, 2022		Soil	S22-My0047282														X			X				
76	TP08-0.5-0.6	May 11, 2022		Soil	S22-My0047283														X			X				
77	AQ TP08-0-0.4	May 11, 2022		Soil	S22-My0047284		X																			

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
78	AQ TP08-0.4-1.4	May 11, 2022		Soil	S22-My0047285		X																			
79	AQ TP09-0.4-1.1	May 11, 2022		Soil	S22-My0047286			X																		
80	AQ TP10-0.3-1.3	May 11, 2022		Soil	S22-My0047287			X																		
81	TP10-0.5-0.6	May 11, 2022		Soil	S22-My0047288			X																		
82	SV1 (FRONT)	May 09, 2022		Air	S22-My0047289					X						X				X						
83	SV1 (BACK)	May 09, 2022		Air	S22-My0047290					X						X				X						
84	SV3 (FRONT)	May 09, 2022		Air	S22-					X						X				X						

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
					My0047291																					
85	SV3 (BACK)	May 09, 2022		Air	S22-My0047292					X						X				X						
86	SV4 (FRONT)	May 09, 2022		Air	S22-My0047293					X						X				X						
87	SV4 (BACK)	May 09, 2022		Air	S22-My0047294					X						X				X						
88	SV5 (FRONT)	May 09, 2022		Air	S22-My0047295					X						X				X						
89	SV5 (BACK)	May 09, 2022		Air	S22-My0047296					X						X				X						
90	SV7 (FRONT)	May 09, 2022		Air	S22-My0047297					X						X				X						

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Sample Detail						Asbestos - AS4964	Asbestos - WA guidelines	CANCELLED	HOLD	Isopropanol	Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Suite B13: OCP/PCB	VOC AIR-TRH (Total Recoverable Hydrocarbons)	Volatile Organics	Moisture Set	Moisture Set	VOCs in Ambient Air by GC/MS	Total Recoverable Hydrocarbons	Eurofins Suite B7	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX
Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
91	SV7 (BACK)	May 09, 2022		Air	S22-My0047298					X						X				X						
92	QV01 (FRONT)	May 09, 2022		Air	S22-My0047299					X						X				X						
93	QV01 (BACK)	May 09, 2022		Air	S22-My0047300					X						X				X						
94	QC-AQ 02	May 10, 2022		Soil	S22-My0047301			X																		
95	QC-AQ 04	May 11, 2022		Soil	S22-My0047302			X																		
96	QC-01	May 09, 2022		Soil	S22-My0047303										X				X			X			X	
97	QC-03	May 10, 2022		Soil	S22-														X			X				

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Project Name: HUNTINGWOOD
Project ID: 62742

Order No.:
Report #: 890110
Phone: 02 8245 0300
Fax:

Received: May 13, 2022 10:00 AM
Due: May 20, 2022
Priority: 5 Day
Contact Name: Gina Pinget

Eurofins Analytical Services Manager : Hannah Mawbey

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
					My0047304																					
98	QC-GW02	May 12, 2022		Water	S22-My0047305							X	X				X				X				X	
99	RINSATE	May 11, 2022		Water	S22-My0047306										X							X			X	
100	RIN20220509	May 09, 2022		Water	S22-My0047307						X	X	X		X										X	
101	RIN20220510	May 10, 2022		Water	S22-My0047308						X	X	X		X										X	
102	RIN20220512	May 12, 2022		Water	S22-My0047309						X	X	X		X										X	
103	TS	May 12, 2022		Water	S22-My0047310																					X

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
104	TB	May 12, 2022		Water	S22-My0047311									X												
105	BLANK	May 12, 2022		Water	S22-My0047312																				X	
106	MW01	May 12, 2022		Water	S22-My0047313							X	X				X				X				X	
107	MW02	May 12, 2022		Water	S22-My0047314							X	X				X				X				X	
108	MW03	May 12, 2022		Water	S22-My0047315							X	X				X				X				X	
109	MW04	May 12, 2022		Water	S22-My0047316							X	X				X				X				X	
110	MWA	May 12, 2022		Water	S22-							X	X				X				X				X	

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
					My0047317																					
111	MWB	May 12, 2022		Water	S22-My0047318							X	X				X				X				X	
112	V-BLANK (FRONT)	May 09, 2022		Air	S22-My0047319					X						X				X						
113	V-BLANK (BACK)	May 09, 2022		Air	S22-My0047320					X						X				X						
114	MWC	May 12, 2022		Water	S22-My0047321							X	X				X				X				X	
115	MWD	May 12, 2022		Water	S22-My0047322							X	X				X				X				X	
116	MWE	May 12, 2022		Water	S22-My0047323							X	X				X				X				X	

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
117	TP09-1.0-1.1	May 11, 2022		Soil	S22-My0047324														X			X				
118	MW01-0.2-0.3	May 09, 2022		Soil	S22-My0047325				X																	
119	MW01-0.5-0.6	May 09, 2022		Soil	S22-My0047326				X																	
120	MW01-1.0-1.1	May 09, 2022		Soil	S22-My0047327				X																	
121	MW01-2.0-2.1	May 09, 2022		Soil	S22-My0047328				X																	
122	MW01-2.5-2.6	May 09, 2022		Soil	S22-My0047329				X																	
123	MW01-3.0-3.1	May 09, 2022		Soil	S22-				X																	

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
					My0047330																					
124	MW01-4.0-4.1	May 09, 2022		Soil	S22-My0047331				X																	
125	MW01-4.5-4.6	May 09, 2022		Soil	S22-My0047332				X																	
126	MW01-5.0-5.1	May 09, 2022		Soil	S22-My0047333				X																	
127	MW01-6.0-6.1	May 09, 2022		Soil	S22-My0047334				X																	
128	MW01-6.5-6.6	May 09, 2022		Soil	S22-My0047335				X																	
129	MW01-6.9-7.0	May 09, 2022		Soil	S22-My0047336				X																	

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
130	AQMW01-1.0-1.7	May 09, 2022		Soil	S22-My0047337				X																	
131	MW02-0-0.1	May 09, 2022		Soil	S22-My0047338	X																				
132	MW02-0.2-0.3	May 09, 2022		Soil	S22-My0047339				X																	
133	MW02-0.5-0.6	May 09, 2022		Soil	S22-My0047340				X																	
134	MW02-1.0-1.1	May 09, 2022		Soil	S22-My0047341				X																	
135	MW02-1.5-1.6	May 09, 2022		Soil	S22-My0047342				X																	
136	MW02-2.0-2.1	May 09, 2022		Soil	S22-				X																	

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
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External Laboratory																										
					My0047343																					
137	MW02-3.0-3.1	May 09, 2022		Soil	S22-My0047344				X																	
138	MW02-3.5-3.6	May 09, 2022		Soil	S22-My0047345				X																	
139	MW02-4.0-4.1	May 09, 2022		Soil	S22-My0047346				X																	
140	MW02-4.5-4.6	May 09, 2022		Soil	S22-My0047347				X																	
141	MW02-5.0-5.1	May 09, 2022		Soil	S22-My0047348				X																	
142	MW02-6.0-6.1	May 09, 2022		Soil	S22-My0047349				X																	

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Project Name: HUNTINGWOOD
Project ID: 62742

Order No.:
Report #: 890110
Phone: 02 8245 0300
Fax:

Received: May 13, 2022 10:00 AM
Due: May 20, 2022
Priority: 5 Day
Contact Name: Gina Pinget

Eurofins Analytical Services Manager : Hannah Mawbey

Sample Detail						Asbestos - AS4964	Asbestos - WA guidelines	CANCELLED	HOLD	Isopropanol	Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Suite B13: OCP/PCB	VOC AIR-TRH (Total Recoverable Hydrocarbons)	Volatile Organics	Moisture Set	Moisture Set	VOCs in Ambient Air by GC/MS	Total Recoverable Hydrocarbons	Eurofins Suite B7	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX
Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
143	MW02-7.0-7.1	May 09, 2022		Soil	S22-My0047350				X																	
144	MW02-7.5-7.6	May 09, 2022		Soil	S22-My0047351				X																	
145	MW02-6.5-6.6	May 09, 2022		Soil	S22-My0047352				X																	
146	MW02-8.0-8.1	May 09, 2022		Soil	S22-My0047353				X																	
147	MW02-9.0-9.1	May 09, 2022		Soil	S22-My0047354				X																	
148	MW02-9.5-9.6	May 09, 2022		Soil	S22-My0047355				X																	
149	MW02-10.0-	May 09, 2022		Soil	S22-				X																	

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
	10.1				My0047356																					
150	MW02-10.9-11.0	May 09, 2022		Soil	S22-My0047357				X																	
151	MW03-0.3-0.4	May 09, 2022		Soil	S22-My0047358				X																	
152	MW03-0.5-0.6	May 09, 2022		Soil	S22-My0047359				X																	
153	MW03-1.0-1.1	May 09, 2022		Soil	S22-My0047360				X																	
154	MW03-1.5-1.6	May 09, 2022		Soil	S22-My0047361				X																	
155	MW03-2.0-2.1	May 09, 2022		Soil	S22-My0047362				X																	

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Contact Name: Gina Pinget

Eurofins Analytical Services Manager : Hannah Mawbey

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
156	MW03-2.5-2.6	May 09, 2022		Soil	S22-My0047363				X																	
157	MW03-3.0-3.1	May 09, 2022		Soil	S22-My0047364				X																	
158	MW03-3.5-3.6	May 09, 2022		Soil	S22-My0047365				X																	
159	MW03-4.0-4.1	May 09, 2022		Soil	S22-My0047366				X																	
160	MW03-4.5-4.6	May 09, 2022		Soil	S22-My0047367				X																	
161	MW03-5.0-5.1	May 09, 2022		Soil	S22-My0047368				X																	
162	MW03-5.5-5.6	May 09, 2022		Soil	S22-				X																	

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Eurofins Analytical Services Manager : Hannah Mawbey

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
					My0047369																					
163	MW03-6.0-6.1	May 09, 2022		Soil	S22-My0047370				X																	
164	MW03-6.5-6.6	May 09, 2022		Soil	S22-My0047371				X																	
165	MW03-7.0-7.1	May 09, 2022		Soil	S22-My0047372				X																	
166	MW03-7.5-7.6	May 09, 2022		Soil	S22-My0047373				X																	
167	MW03-8.0-8.1	May 09, 2022		Soil	S22-My0047374				X																	
168	MW03-8.5-8.6	May 09, 2022		Soil	S22-My0047375				X																	

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
169	MW03-9.0-9.1	May 09, 2022		Soil	S22-My0047376				X																	
170	MW04-0.3-0.4	May 10, 2022		Soil	S22-My0047377				X																	
171	MW04-05-0.6	May 10, 2022		Soil	S22-My0047378				X																	
172	MW04-1.0-1.1	May 10, 2022		Soil	S22-My0047379				X																	
173	MW04-1.5-1.6	May 10, 2022		Soil	S22-My0047380				X																	
174	MW04-2.0-2.1	May 10, 2022		Soil	S22-My0047381				X																	
175	MW04-2.5-2.6	May 10, 2022		Soil	S22-				X																	

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
					My0047382																					
176	MW04-3.0-3.1	May 10, 2022		Soil	S22-My0047383				X																	
177	MW04-3.5-3.6	May 10, 2022		Soil	S22-My0047384				X																	
178	MW04-4.0-4.1	May 10, 2022		Soil	S22-My0047385				X																	
179	MW04-4.5-4.6	May 10, 2022		Soil	S22-My0047386				X																	
180	MW04-5.0-5.1	May 10, 2022		Soil	S22-My0047387				X																	
181	MW04-5.5-5.6	May 10, 2022		Soil	S22-My0047388				X																	

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
182	MW04-6.0-6.1	May 10, 2022		Soil	S22-My0047389				X																	
183	MW04-6.5-6.6	May 10, 2022		Soil	S22-My0047390				X																	
184	MW04-7.0-7.1	May 10, 2022		Soil	S22-My0047391				X																	
185	MW04-7.5-7.6	May 10, 2022		Soil	S22-My0047392				X																	
186	MW04-8.0-8.1	May 10, 2022		Soil	S22-My0047393				X																	
187	MW04-8.5-8.6	May 10, 2022		Soil	S22-My0047394				X																	
188	MW04-9.0-9.1	May 10, 2022		Soil	S22-				X																	

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Project Name: HUNTINGWOOD
Project ID: 62742

Order No.:
Report #: 890110
Phone: 02 8245 0300
Fax:

Received: May 13, 2022 10:00 AM
Due: May 20, 2022
Priority: 5 Day
Contact Name: Gina Pinget

Eurofins Analytical Services Manager : Hannah Mawbey

Sample Detail						Asbestos - AS4964	Asbestos - WA guidelines	CANCELLED	HOLD	Isopropanol	Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Suite B13: OCP/PCB	VOC AIR-TRH (Total Recoverable Hydrocarbons)	Volatile Organics	Moisture Set	Moisture Set	VOCs in Ambient Air by GC/MS	Total Recoverable Hydrocarbons	Eurofins Suite B7	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX
Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
					My0047395																					
189	MW04-9.5-9.6	May 10, 2022		Soil	S22-My0047396				X																	
190	MW04-10.0-10.1	May 10, 2022		Soil	S22-My0047397				X																	
191	SB01-0-0.1	May 10, 2022		Soil	S22-My0047398				X																	
192	SB01-0.5-0.6	May 10, 2022		Soil	S22-My0047399				X																	
193	SB01-1.0-1.1	May 10, 2022		Soil	S22-My0047400				X																	
194	SB01-1.5-1.6	May 10, 2022		Soil	S22-My0047401				X																	

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Contact Name: Gina Pinget

Eurofins Analytical Services Manager : Hannah Mawbey

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
195	SB02-03-0.4	May 12, 2022		Soil	S22-My0047402				X																	
196	SB02-0.5-06	May 12, 2022		Soil	S22-My0047403				X																	
197	SB02-1.0-1.1	May 12, 2022		Soil	S22-My0047404				X																	
198	SB02-1.5-1.6	May 12, 2022		Soil	S22-My0047405				X																	
199	SB02-1.9-2.0	May 12, 2022		Soil	S22-My0047406				X																	
200	SB03-0.2-0.3	May 10, 2022		Soil	S22-My0047407				X																	
201	SB03-0.5-06	May 10, 2022		Soil	S22-				X																	

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Contact Name: Gina Pinget

Eurofins Analytical Services Manager : Hannah Mawbey

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
					My0047408																					
202	SB03-1.0-1.1	May 10, 2022		Soil	S22-My0047409				X																	
203	SB03-1.5-1.6	May 10, 2022		Soil	S22-My0047410				X																	
204	SB04-0-0.1	May 10, 2022		Soil	S22-My0047411				X																	
205	SB04-0.5-0.6	May 10, 2022		Soil	S22-My0047412				X																	
206	SB04-1.0-1.1	May 10, 2022		Soil	S22-My0047413				X																	
207	SB04-1.5-1.6	May 10, 2022		Soil	S22-My0047414				X																	

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
208	SB04-2.0-2.1	May 10, 2022		Soil	S22-My0047415				X																	
209	SB05-0.3-0.4	May 10, 2022		Soil	S22-My0047416				X																	
210	SB05-0.5-0.6	May 10, 2022		Soil	S22-My0047417				X																	
211	SB05-1.0-1.1	May 10, 2022		Soil	S22-My0047418				X																	
212	SB05-1.5-1.6	May 10, 2022		Soil	S22-My0047419				X																	
213	SB06-0.15-0.25	May 10, 2022		Soil	S22-My0047420				X																	
214	SB06-0.5-0.6	May 10, 2022		Soil	S22-				X																	

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
					My0047421																					
215	SB06-0.7-0.8	May 10, 2022		Soil	S22-My0047422				X																	
216	SB06-1.3-1.4	May 10, 2022		Soil	S22-My0047423				X																	
217	SB06-1.6-1.7	May 10, 2022		Soil	S22-My0047424				X																	
218	SB07-0.5-0.6	May 10, 2022		Soil	S22-My0047425				X																	
219	SB07-1.0-1.1	May 10, 2022		Soil	S22-My0047426				X																	
220	SB08-0-0.1	May 11, 2022		Soil	S22-My0047427													X						X		

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
221	SB08-0.5-0.6	May 11, 2022		Soil	S22-My0047428				X																	
222	SB08-0.8-0.9	May 11, 2022		Soil	S22-My0047429				X																	
223	SB09-0-0.1	May 11, 2022		Soil	S22-My0047430				X																	
224	SB09-0.5-0.6	May 11, 2022		Soil	S22-My0047431				X																	
225	SB09-0.8-0.9	May 11, 2022		Soil	S22-My0047432				X																	
226	SB10-0-0.1	May 11, 2022		Soil	S22-My0047433				X																	
227	SB10-0.5-0.6	May 11, 2022		Soil	S22-				X																	

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
					My0047434																					
228	SB10-1.0-1.1	May 11, 2022		Soil	S22-My0047435			X																		
229	SB10-1.9-2.0	May 11, 2022		Soil	S22-My0047436				X																	
230	SB10-2.5-2.6	May 11, 2022		Soil	S22-My0047437				X																	
231	SB10-3.0-3.5	May 11, 2022		Soil	S22-My0047438				X																	
232	SB10-3.5-3.6	May 11, 2022		Soil	S22-My0047439				X																	
233	SB11-0-0.1	May 11, 2022		Soil	S22-My0047440				X																	

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Order No.:
Report #: 890110
Phone: 02 8245 0300
Fax:

Received: May 13, 2022 10:00 AM
Due: May 20, 2022
Priority: 5 Day
Contact Name: Gina Pinget

Eurofins Analytical Services Manager : Hannah Mawbey

Sample Detail						Asbestos - AS4964	Asbestos - WA guidelines	CANCELLED	HOLD	Isopropanol	Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Suite B13: OCP/PCB	VOC AIR-TRH (Total Recoverable Hydrocarbons)	Volatile Organics	Moisture Set	Moisture Set	VOCs in Ambient Air by GC/MS	Total Recoverable Hydrocarbons	Eurofins Suite B7	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX
Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
234	SB11-0.3-0.4	May 11, 2022		Soil	S22-My0047441				X																	
235	SB11-0.5-0.6	May 11, 2022		Soil	S22-My0047442				X																	
236	SB11-1.0-1.1	May 11, 2022		Soil	S22-My0047443				X																	
237	SB11-1.9-2.0	May 11, 2022		Soil	S22-My0047444				X																	
238	SB12-0.3-0.4	May 11, 2022		Soil	S22-My0047445				X																	
239	SB12-0.5-0.6	May 11, 2022		Soil	S22-My0047446			X																		
240	SB12-0.9-1.0	May 11, 2022		Soil	S22-				X																	

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Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

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NATA # 1261 Site # 20794

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Rolleston, Christchurch 7675
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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: HUNTINGWOOD
Project ID: 62742

Order No.:
Report #: 890110
Phone: 02 8245 0300
Fax:

Received: May 13, 2022 10:00 AM
Due: May 20, 2022
Priority: 5 Day
Contact Name: Gina Pinget

Eurofins Analytical Services Manager : Hannah Mawbey

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
					My0047447																					
241	AQ SB13-0-0.8	May 11, 2022		Soil	S22-My0047448				X																	
242	SB13-03-0.4	May 11, 2022		Soil	S22-My0047449				X																	
243	SB13-0.5-0.6	May 11, 2022		Soil	S22-My0047450				X																	
244	SB13-0.8-0.9	May 11, 2022		Soil	S22-My0047451				X																	
245	SB13-1.1-1.2	May 11, 2022		Soil	S22-My0047452				X																	
246	SB14-0-0.1	May 11, 2022		Soil	S22-My0047453				X																	

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
247	SB14-0.5-0.6	May 11, 2022		Soil	S22-My0047454				X																	
248	SB15-0.3-0.4	May 11, 2022		Soil	S22-My0047455				X																	
249	SB15-0.5-0.6	May 11, 2022		Soil	S22-My0047456				X																	
250	SB15-1.0-1.1	May 11, 2022		Soil	S22-My0047457				X																	
Test Counts						1	33	11	129	14	3	16	26	1	15	14	10	45	45	14	10	29	1	22	22	1

Internal Quality Control Review and Glossary

General

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

Holding Times

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

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

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

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

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

Units

mg/kg: milligrams per kilogram
mg/L: milligrams per litre
µg/L: micrograms per litre
ppm: parts per million
ppb: parts per billion
%: Percentage
org/100 mL: Organisms per 100 millilitres
NTU: Nephelometric Turbidity Units
MPN/100 mL: Most Probable Number of organisms per 100 millilitres

Terms

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

QC - Acceptance Criteria

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

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

Results <10 times the LOR: No Limit

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

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

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

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

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

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QC Data General Comments

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

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Isopropanol	Total ug	< 10			10	Pass	
Method Blank							
VOCs in Ambient Air by GC/MS							
1.1-Dichloroethane	Total ug	< 0.5			0.5	Pass	
1.1-Dichloroethene	Total ug	< 0.5			0.5	Pass	
1.1-Dichloropropene	Total ug	< 0.5			0.5	Pass	
1.1.1-Trichloroethane	Total ug	< 0.5			0.5	Pass	
1.1.1.2-Tetrachloroethane	Total ug	< 0.5			0.5	Pass	
1.1.2-Trichloroethane	Total ug	< 0.5			0.5	Pass	
1.1.2.2-Tetrachloroethane	Total ug	< 0.5			0.5	Pass	
1.2-Dibromo-3-chloropropane	Total ug	< 0.5			0.5	Pass	
1.2-Dibromoethane	Total ug	< 0.5			0.5	Pass	
1.2-Dichloroethane	Total ug	< 0.5			0.5	Pass	
1.2-Dichloropropane	Total ug	< 0.5			0.5	Pass	
1.2.3-Trichloropropane	Total ug	< 0.5			0.5	Pass	
1.2.4-Trimethylbenzene	Total ug	< 0.5			0.5	Pass	
1.3-Dichloropropane	Total ug	< 0.5			0.5	Pass	
1.3.5-Trimethylbenzene	Total ug	< 0.5			0.5	Pass	
2-Chlorotoluene	Total ug	< 0.5			0.5	Pass	
2.2-Dichloropropane	Total ug	< 0.5			0.5	Pass	
4-Chlorotoluene	Total ug	< 0.5			0.5	Pass	
Benzene	Total ug	< 0.5			0.5	Pass	
Bromochloromethane	Total ug	< 0.5			0.5	Pass	
Bromodichloromethane	Total ug	< 0.5			0.5	Pass	
Bromoform	Total ug	< 0.5			0.5	Pass	
Carbon Tetrachloride	Total ug	< 0.5			0.5	Pass	
Chlorobenzene	Total ug	< 0.5			0.5	Pass	
Chloroform	Total ug	< 0.5			0.5	Pass	
cis-1.2-Dichloroethene	Total ug	< 0.5			0.5	Pass	
cis-1.3-Dichloropropene	Total ug	< 0.5			0.5	Pass	
Dibromochloromethane	Total ug	< 0.5			0.5	Pass	
Dibromomethane	Total ug	< 0.5			0.5	Pass	
Ethylbenzene	Total ug	< 0.5			0.5	Pass	
Isopropyl benzene (Cumene)	Total ug	< 0.5			0.5	Pass	
n-Butylbenzene	Total ug	< 0.5			0.5	Pass	
n-Propylbenzene	Total ug	< 0.5			0.5	Pass	
Naphthalene	Total ug	< 0.5			0.5	Pass	
p-Isopropyltoluene	Total ug	< 0.5			0.5	Pass	
sec-Butylbenzene	Total ug	< 0.5			0.5	Pass	
Styrene	Total ug	< 5			5	Pass	
tert-Butylbenzene	Total ug	< 0.5			0.5	Pass	
Tetrachloroethene	Total ug	< 0.5			0.5	Pass	
Toluene	Total ug	< 0.5			0.5	Pass	
trans-1.3-Dichloropropene	Total ug	< 0.5			0.5	Pass	
Trichloroethene	Total ug	< 0.5			0.5	Pass	
Trichlorofluoromethane	Total ug	< 0.5			0.5	Pass	
Vinyl chloride	Total ug	< 0.5			0.5	Pass	
Xylenes - Total*	Total ug	< 1.5			1.5	Pass	
1.2-Dichlorobenzene	Total ug	< 0.5			0.5	Pass	
1.2.3-Trichlorobenzene	Total ug	< 0.5			0.5	Pass	
1.2.4-Trichlorobenzene	Total ug	< 0.5			0.5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
1.3-Dichlorobenzene	Total ug	< 0.5			0.5	Pass	
1.4-Dichlorobenzene	Total ug	< 0.5			0.5	Pass	
Hexachlorobutadiene	Total ug	< 0.5			0.5	Pass	
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C10	Total ug	< 20			20	Pass	
TRH >C10-C16	Total ug	< 20			20	Pass	
LCS - % Recovery							
Isopropanol	%	94			70-130	Pass	
LCS - % Recovery							
VOCs in Ambient Air by GC/MS							
1.1-Dichloroethene	%	82			70-130	Pass	
1.1-Dichloropropene	%	86			70-130	Pass	
1.1.1-Trichloroethane	%	86			70-130	Pass	
1.2-Dibromo-3-chloropropane	%	117			75-125	Pass	
1.2-Dichloroethane	%	87			70-130	Pass	
Benzene	%	83			70-130	Pass	
Ethylbenzene	%	105			70-130	Pass	
Naphthalene	%	88			70-130	Pass	
Toluene	%	97			70-130	Pass	
Trichloroethene	%	84			70-130	Pass	
Xylenes - Total*	%	106			70-130	Pass	
1.2-Dichlorobenzene	%	117			70-130	Pass	
1.2.3-Trichlorobenzene	%	101			70-130	Pass	
1.2.4-Trichlorobenzene	%	99			70-130	Pass	
1.4-Dichlorobenzene	%	92			70-130	Pass	

Comments

This report has been revised V3 following repeat analysis.

Test Total Recoverable Hydrocarbons - 1999 NEPM Fractions, Total Recoverable Hydrocarbons - 2013 NEPM Fractions results for sample My0047208. My0047217 have now been replaced by the repeat results.

Test Total Recoverable Hydrocarbons - 1999 NEPM Fractions, Total Recoverable Hydrocarbons - 2013 NEPM Fractions and Polycyclic Aromatic Hydrocarbons results for sample My0047277 have now been replaced by the repeat results.

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).
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.

Authorised by:

Andrew Black	Analytical Services Manager
Joseph Edouard	Senior Analyst-Organic
Joseph Edouard	Senior Analyst-Volatile



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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NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention: **Gina Pinget**

Report **890110-W-V4**
Project name HUNTINGWOOD
Project ID 62742
Received Date May 13, 2022

Client Sample ID			QC-GW02	RINSATE	G01 RIN20220509	RIN20220510
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S22-My0047305	S22-My0047306	S22-My0047307	S22-My0047308
Date Sampled			May 12, 2022	May 11, 2022	May 09, 2022	May 10, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	0.02	mg/L	< 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
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	< 0.05	-	-
TRH >C10-C16 less Naphthalene (F2)[N01]	0.05	mg/L	< 0.05	< 0.05	-	-
TRH >C16-C34	0.1	mg/L	< 0.1	0.1	-	-
TRH >C34-C40	0.1	mg/L	< 0.1	< 0.1	-	-
TRH >C10-C40 (total)*	0.1	mg/L	< 0.1	0.1	-	-
Volatile Organics						
1.1-Dichloroethane	0.001	mg/L	< 0.001	-	-	-
1.1-Dichloroethene	0.001	mg/L	< 0.001	-	-	-
1.1.1-Trichloroethane	0.001	mg/L	< 0.001	-	-	-
1.1.1.2-Tetrachloroethane	0.001	mg/L	< 0.001	-	-	-
1.1.2-Trichloroethane	0.001	mg/L	< 0.001	-	-	-
1.1.2.2-Tetrachloroethane	0.001	mg/L	< 0.001	-	-	-
1.2-Dibromoethane	0.001	mg/L	< 0.001	-	-	-
1.2-Dichlorobenzene	0.001	mg/L	< 0.001	-	-	-
1.2-Dichloroethane	0.001	mg/L	< 0.001	-	-	-
1.2-Dichloropropane	0.001	mg/L	< 0.001	-	-	-
1.2.3-Trichloropropane	0.001	mg/L	< 0.001	-	-	-
1.2.4-Trimethylbenzene	0.001	mg/L	< 0.001	-	-	-
1.3-Dichlorobenzene	0.001	mg/L	< 0.001	-	-	-
1.3-Dichloropropane	0.001	mg/L	< 0.001	-	-	-
1.3.5-Trimethylbenzene	0.001	mg/L	< 0.001	-	-	-
1.4-Dichlorobenzene	0.001	mg/L	< 0.001	-	-	-
2-Butanone (MEK)	0.005	mg/L	< 0.005	-	-	-
2-Propanone (Acetone)	0.005	mg/L	< 0.005	-	-	-
4-Chlorotoluene	0.001	mg/L	< 0.001	-	-	-
4-Methyl-2-pentanone (MIBK)	0.005	mg/L	< 0.005	-	-	-

Client Sample ID			QC-GW02	RINSATE	[G01]RIN20220509	RIN20220510
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S22-My0047305	S22-My0047306	S22-My0047307	S22-My0047308
Date Sampled			May 12, 2022	May 11, 2022	May 09, 2022	May 10, 2022
Test/Reference	LOR	Unit				
Volatile Organics						
Allyl chloride	0.001	mg/L	< 0.001	-	-	-
Benzene	0.001	mg/L	< 0.001	-	-	-
Bromobenzene	0.001	mg/L	< 0.001	-	-	-
Bromochloromethane	0.001	mg/L	< 0.001	-	-	-
Bromodichloromethane	0.001	mg/L	< 0.001	-	-	-
Bromoform	0.001	mg/L	< 0.001	-	-	-
Bromomethane	0.005	mg/L	< 0.005	-	-	-
Carbon disulfide	0.001	mg/L	< 0.001	-	-	-
Carbon Tetrachloride	0.001	mg/L	< 0.001	-	-	-
Chlorobenzene	0.001	mg/L	< 0.001	-	-	-
Chloroethane	0.005	mg/L	< 0.005	-	-	-
Chloroform	0.005	mg/L	< 0.005	-	-	-
Chloromethane	0.005	mg/L	< 0.005	-	-	-
cis-1.2-Dichloroethene	0.001	mg/L	< 0.001	-	-	-
cis-1.3-Dichloropropene	0.001	mg/L	< 0.001	-	-	-
Dibromochloromethane	0.001	mg/L	< 0.001	-	-	-
Dibromomethane	0.001	mg/L	< 0.001	-	-	-
Dichlorodifluoromethane	0.005	mg/L	< 0.005	-	-	-
Ethylbenzene	0.001	mg/L	< 0.001	-	-	-
Iodomethane	0.001	mg/L	< 0.001	-	-	-
Isopropyl benzene (Cumene)	0.001	mg/L	< 0.001	-	-	-
m&p-Xylenes	0.002	mg/L	< 0.002	-	-	-
Methylene Chloride	0.005	mg/L	< 0.005	-	-	-
o-Xylene	0.001	mg/L	< 0.001	-	-	-
Styrene	0.001	mg/L	< 0.001	-	-	-
Tetrachloroethene	0.001	mg/L	< 0.001	-	-	-
Toluene	0.001	mg/L	< 0.001	-	-	-
trans-1.2-Dichloroethene	0.001	mg/L	< 0.001	-	-	-
trans-1.3-Dichloropropene	0.001	mg/L	< 0.001	-	-	-
Trichloroethene	0.001	mg/L	< 0.001	-	-	-
Trichlorofluoromethane	0.005	mg/L	< 0.005	-	-	-
Vinyl chloride	0.005	mg/L	< 0.005	-	-	-
Xylenes - Total*	0.003	mg/L	< 0.003	-	-	-
Total MAH*	0.003	mg/L	< 0.003	-	-	-
Vic EPA IWRG 621 CHC (Total)*	0.005	mg/L	< 0.005	-	-	-
Vic EPA IWRG 621 Other CHC (Total)*	0.005	mg/L	< 0.005	-	-	-
4-Bromofluorobenzene (surr.)	1	%	77	-	-	-
Toluene-d8 (surr.)	1	%	65	-	-	-
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.001	mg/L	< 0.001	< 0.001	< 0.005	< 0.001
Acenaphthylene	0.001	mg/L	< 0.001	< 0.001	< 0.005	< 0.001
Anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.005	< 0.001
Benz(a)anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(a)pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(g.h.i)perylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(k)fluoranthene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chrysene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001

Client Sample ID			QC-GW02	RINSATE	[G01]RIN20220509	RIN20220510
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S22-My0047305	S22-My0047306	S22-My0047307	S22-My0047308
Date Sampled			May 12, 2022	May 11, 2022	May 09, 2022	May 10, 2022
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Dibenz(a.h)anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Fluoranthene	0.001	mg/L	< 0.001	< 0.001	< 0.005	< 0.001
Fluorene	0.001	mg/L	< 0.001	< 0.001	< 0.005	< 0.001
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Naphthalene	0.001	mg/L	< 0.001	< 0.001	< 0.005	< 0.001
Phenanthrene	0.001	mg/L	< 0.001	< 0.001	< 0.005	< 0.001
Pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.005	< 0.001
Total PAH*	0.001	mg/L	< 0.001	< 0.001	< 0.005	< 0.001
2-Fluorobiphenyl (surr.)	1	%	62	55	[Q09]INT	[Q09]INT
p-Terphenyl-d14 (surr.)	1	%	138	[Q09]INT	[Q09]INT	150
Heavy Metals						
Arsenic	0.001	mg/L	0.002	< 0.001	< 0.001	< 0.001
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	0.001	< 0.001	< 0.001	< 0.001
Lead	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Mercury	0.0001	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nickel	0.001	mg/L	0.002	< 0.001	0.001	< 0.001
Zinc	0.005	mg/L	0.005	< 0.005	< 0.005	< 0.005
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanoic acid (PFNA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTrDA)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	77	85	82	84
13C5-PFPeA (surr.)	1	%	81	113	105	107
13C5-PFHxA (surr.)	1	%	90	96	97	95
13C4-PFHpA (surr.)	1	%	99	100	97	97
13C8-PFOA (surr.)	1	%	100	94	95	98
13C5-PFNA (surr.)	1	%	101	95	95	94
13C6-PFDA (surr.)	1	%	100	95	93	93
13C2-PFUnDA (surr.)	1	%	117	95	92	93
13C2-PFDoDA (surr.)	1	%	118	105	103	108
13C2-PFTeDA (surr.)	1	%	111	96	88	91
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05

Client Sample ID			QC-GW02	RINSATE	[G01]RIN20220509	RIN20220510
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S22-My0047305	S22-My0047306	S22-My0047307	S22-My0047308
Date Sampled			May 12, 2022	May 11, 2022	May 09, 2022	May 10, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	96	91	93	94
D3-N-MeFOSA (surr.)	1	%	76	77	76	79
D5-N-EtFOSA (surr.)	1	%	79	78	77	70
D7-N-MeFOSE (surr.)	1	%	78	74	72	72
D9-N-EtFOSE (surr.)	1	%	81	76	74	76
D5-N-EtFOSAA (surr.)	1	%	131	103	98	98
D3-N-MeFOSAA (surr.)	1	%	131	102	88	88
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	97	99	96	97
18O2-PFHxS (surr.)	1	%	97	97	101	103
13C8-PFOS (surr.)	1	%	95	96	97	95
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	111	113	107	115
13C2-6:2 FTSA (surr.)	1	%	139	111	118	113
13C2-8:2 FTSA (surr.)	1	%	158	165	188	[Q09]INT
13C2-10:2 FTSA (surr.)	1	%	176	104	90	92
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	< 0.1	< 0.1
BTEX						
Benzene	0.001	mg/L	-	< 0.001	-	-
Toluene	0.001	mg/L	-	< 0.001	-	-
Ethylbenzene	0.001	mg/L	-	< 0.001	-	-
m&p-Xylenes	0.002	mg/L	-	< 0.002	-	-
o-Xylene	0.001	mg/L	-	< 0.001	-	-

Client Sample ID			QC-GW02	RINSATE	[G01]RIN20220509	RIN20220510
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S22-My0047305	S22-My0047306	S22-My0047307	S22-My0047308
Date Sampled			May 12, 2022	May 11, 2022	May 09, 2022	May 10, 2022
Test/Reference	LOR	Unit				
BTEX						
Xylenes - Total*	0.003	mg/L	-	< 0.003	-	-
4-Bromofluorobenzene (surr.)	1	%	-	95	-	-
Organochlorine Pesticides						
Chlordanes - Total	0.002	mg/L	-	< 0.002	< 0.002	< 0.002
4.4'-DDD	0.0002	mg/L	-	< 0.0002	< 0.0002	< 0.0002
4.4'-DDE	0.0002	mg/L	-	< 0.0002	< 0.0002	< 0.0002
4.4'-DDT	0.0002	mg/L	-	< 0.0002	< 0.0002	< 0.0002
a-HCH	0.0002	mg/L	-	< 0.0002	< 0.0002	< 0.0002
Aldrin	0.0002	mg/L	-	< 0.0002	< 0.0002	< 0.0002
b-HCH	0.0002	mg/L	-	< 0.0002	< 0.0002	< 0.0002
d-HCH	0.0002	mg/L	-	< 0.0002	< 0.0002	< 0.0002
Dieldrin	0.0002	mg/L	-	< 0.0002	< 0.0002	< 0.0002
Endosulfan I	0.0002	mg/L	-	< 0.0002	< 0.0002	< 0.0002
Endosulfan II	0.0002	mg/L	-	< 0.0002	< 0.0002	< 0.0002
Endosulfan sulphate	0.0002	mg/L	-	< 0.0002	< 0.0002	< 0.0002
Endrin	0.0002	mg/L	-	< 0.0002	< 0.0002	< 0.0002
Endrin aldehyde	0.0002	mg/L	-	< 0.0002	< 0.0002	< 0.0002
Endrin ketone	0.0002	mg/L	-	< 0.0002	< 0.0002	< 0.0002
g-HCH (Lindane)	0.0002	mg/L	-	< 0.0002	< 0.0002	< 0.0002
Heptachlor	0.0002	mg/L	-	< 0.0002	< 0.0002	< 0.0002
Heptachlor epoxide	0.0002	mg/L	-	< 0.0002	< 0.0002	< 0.0002
Hexachlorobenzene	0.0002	mg/L	-	< 0.0002	< 0.0002	< 0.0002
Methoxychlor	0.0002	mg/L	-	< 0.0002	< 0.0002	< 0.0002
Toxaphene	0.005	mg/L	-	< 0.005	< 0.005	< 0.005
Aldrin and Dieldrin (Total)*	0.0002	mg/L	-	< 0.0002	< 0.0002	< 0.0002
DDT + DDE + DDD (Total)*	0.0002	mg/L	-	< 0.0002	< 0.0002	< 0.0002
Vic EPA IWRG 621 OCP (Total)*	0.002	mg/L	-	< 0.002	< 0.002	< 0.002
Vic EPA IWRG 621 Other OCP (Total)*	0.002	mg/L	-	< 0.002	< 0.002	< 0.002
Dibutylchlorendate (surr.)	1	%	-	[Q09]INT	148	120
Tetrachloro-m-xylene (surr.)	1	%	-	150	132	116
Polychlorinated Biphenyls						
Aroclor-1016	0.005	mg/L	-	< 0.005	< 0.005	< 0.005
Aroclor-1221	0.005	mg/L	-	< 0.005	< 0.005	< 0.005
Aroclor-1232	0.005	mg/L	-	< 0.005	< 0.005	< 0.005
Aroclor-1242	0.005	mg/L	-	< 0.005	< 0.005	< 0.005
Aroclor-1248	0.005	mg/L	-	< 0.005	< 0.005	< 0.005
Aroclor-1254	0.005	mg/L	-	< 0.005	< 0.005	< 0.005
Aroclor-1260	0.005	mg/L	-	< 0.005	< 0.005	< 0.005
Total PCB*	0.005	mg/L	-	< 0.005	< 0.005	< 0.005
Dibutylchlorendate (surr.)	1	%	-	[Q09]INT	148	120
Tetrachloro-m-xylene (surr.)	1	%	-	150	132	116

Client Sample ID			RIN20220512	TS	TB	BLANK
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S22-My0047309	S22-My0047310	S22-My0047311	S22-My0047312
Date Sampled			May 12, 2022	May 12, 2022	May 12, 2022	May 12, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
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	-	-	-
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.001	mg/L	< 0.005	-	-	-
Acenaphthylene	0.001	mg/L	< 0.005	-	-	-
Anthracene	0.001	mg/L	< 0.005	-	-	-
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	< 0.005	-	-	-
Fluorene	0.001	mg/L	< 0.005	-	-	-
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001	-	-	-
Naphthalene	0.001	mg/L	< 0.005	-	-	-
Phenanthrene	0.001	mg/L	< 0.005	-	-	-
Pyrene	0.001	mg/L	< 0.005	-	-	-
Total PAH*	0.001	mg/L	< 0.005	-	-	-
2-Fluorobiphenyl (surr.)	1	%	[Q09]INT	-	-	-
p-Terphenyl-d14 (surr.)	1	%	143	-	-	-
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	-	-	-
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	0.05	ug/L	< 0.05	-	-	< 0.05
Perfluoropentanoic acid (PFPeA)[N11]	0.01	ug/L	< 0.01	-	-	< 0.01
Perfluorohexanoic acid (PFHxA)[N11]	0.01	ug/L	< 0.01	-	-	< 0.01
Perfluoroheptanoic acid (PFHpA)[N11]	0.01	ug/L	< 0.01	-	-	< 0.01
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	< 0.01	-	-	< 0.01
Perfluorononanoic acid (PFNA)[N11]	0.01	ug/L	< 0.01	-	-	< 0.01
Perfluorodecanoic acid (PFDA)[N11]	0.01	ug/L	< 0.01	-	-	< 0.01
Perfluoroundecanoic acid (PFUnDA)[N11]	0.01	ug/L	< 0.01	-	-	< 0.01
Perfluorododecanoic acid (PFDoDA)[N11]	0.01	ug/L	< 0.01	-	-	< 0.01
Perfluorotridecanoic acid (PFTrDA)[N15]	0.01	ug/L	< 0.01	-	-	< 0.01
Perfluorotetradecanoic acid (PFTeDA)[N11]	0.01	ug/L	< 0.01	-	-	< 0.01
13C4-PFBA (surr.)	1	%	82	-	-	83
13C5-PFPeA (surr.)	1	%	109	-	-	106
13C5-PFHxA (surr.)	1	%	93	-	-	95
13C4-PFHpA (surr.)	1	%	98	-	-	95

Client Sample ID			RIN20220512	TS	TB	BLANK
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S22-My0047309	S22-My0047310	S22-My0047311	S22-My0047312
Date Sampled			May 12, 2022	May 12, 2022	May 12, 2022	May 12, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
13C8-PFOA (surr.)	1	%	93	-	-	94
13C5-PFNA (surr.)	1	%	92	-	-	93
13C6-PFDA (surr.)	1	%	89	-	-	93
13C2-PFUnDA (surr.)	1	%	91	-	-	95
13C2-PFDoDA (surr.)	1	%	103	-	-	104
13C2-PFTeDA (surr.)	1	%	88	-	-	88
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	0.05	ug/L	< 0.05	-	-	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	0.05	ug/L	< 0.05	-	-	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	0.05	ug/L	< 0.05	-	-	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	0.05	ug/L	< 0.05	-	-	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	0.05	ug/L	< 0.05	-	-	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	0.05	ug/L	< 0.05	-	-	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	0.05	ug/L	< 0.05	-	-	< 0.05
13C8-FOSA (surr.)	1	%	94	-	-	92
D3-N-MeFOSA (surr.)	1	%	76	-	-	79
D5-N-EtFOSA (surr.)	1	%	74	-	-	81
D7-N-MeFOSE (surr.)	1	%	70	-	-	75
D9-N-EtFOSE (surr.)	1	%	73	-	-	75
D5-N-EtFOSAA (surr.)	1	%	99	-	-	93
D3-N-MeFOSAA (surr.)	1	%	83	-	-	87
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	0.01	ug/L	< 0.01	-	-	< 0.01
Perfluorononanesulfonic acid (PFNS)[N15]	0.01	ug/L	< 0.01	-	-	< 0.01
Perfluoropropanesulfonic acid (PFPrS)[N15]	0.01	ug/L	< 0.01	-	-	< 0.01
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.01	ug/L	< 0.01	-	-	< 0.01
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.01	ug/L	< 0.01	-	-	< 0.01
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.01	ug/L	< 0.01	-	-	< 0.01
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	< 0.01	-	-	< 0.01
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	< 0.01	-	-	< 0.01
13C3-PFBS (surr.)	1	%	94	-	-	98
18O2-PFHxS (surr.)	1	%	96	-	-	97
13C8-PFOS (surr.)	1	%	92	-	-	91
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	0.01	ug/L	< 0.01	-	-	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	0.05	ug/L	< 0.05	-	-	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	0.01	ug/L	< 0.01	-	-	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	0.01	ug/L	< 0.01	-	-	< 0.01
13C2-4:2 FTSA (surr.)	1	%	112	-	-	106
13C2-6:2 FTSA (surr.)	1	%	109	-	-	114
13C2-8:2 FTSA (surr.)	1	%	[Q09]INT	-	-	[Q09]INT
13C2-10:2 FTSA (surr.)	1	%	102	-	-	93

Client Sample ID			RIN20220512	TS	TB	BLANK
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S22-My0047309	S22-My0047310	S22-My0047311	S22-My0047312
Date Sampled			May 12, 2022	May 12, 2022	May 12, 2022	May 12, 2022
Test/Reference	LOR	Unit				
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	-	-	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	-	-	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	-	-	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	-	-	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	-	-	< 0.1
BTEX						
Benzene	0.001	mg/L	-	-	< 0.001	-
Toluene	0.001	mg/L	-	-	< 0.001	-
Ethylbenzene	0.001	mg/L	-	-	< 0.001	-
m&p-Xylenes	0.002	mg/L	-	-	< 0.002	-
o-Xylene	0.001	mg/L	-	-	< 0.001	-
Xylenes - Total*	0.003	mg/L	-	-	< 0.003	-
4-Bromofluorobenzene (surr.)	1	%	-	-	96	-
Organochlorine Pesticides						
Chlordanes - Total	0.002	mg/L	< 0.002	-	-	-
4.4'-DDD	0.0002	mg/L	< 0.0002	-	-	-
4.4'-DDE	0.0002	mg/L	< 0.0002	-	-	-
4.4'-DDT	0.0002	mg/L	< 0.0002	-	-	-
a-HCH	0.0002	mg/L	< 0.0002	-	-	-
Aldrin	0.0002	mg/L	< 0.0002	-	-	-
b-HCH	0.0002	mg/L	< 0.0002	-	-	-
d-HCH	0.0002	mg/L	< 0.0002	-	-	-
Dieldrin	0.0002	mg/L	< 0.0002	-	-	-
Endosulfan I	0.0002	mg/L	< 0.0002	-	-	-
Endosulfan II	0.0002	mg/L	< 0.0002	-	-	-
Endosulfan sulphate	0.0002	mg/L	< 0.0002	-	-	-
Endrin	0.0002	mg/L	< 0.0002	-	-	-
Endrin aldehyde	0.0002	mg/L	< 0.0002	-	-	-
Endrin ketone	0.0002	mg/L	< 0.0002	-	-	-
g-HCH (Lindane)	0.0002	mg/L	< 0.0002	-	-	-
Heptachlor	0.0002	mg/L	< 0.0002	-	-	-
Heptachlor epoxide	0.0002	mg/L	< 0.0002	-	-	-
Hexachlorobenzene	0.0002	mg/L	< 0.0002	-	-	-
Methoxychlor	0.0002	mg/L	< 0.0002	-	-	-
Toxaphene	0.005	mg/L	< 0.005	-	-	-
Aldrin and Dieldrin (Total)*	0.0002	mg/L	< 0.0002	-	-	-
DDT + DDE + DDD (Total)*	0.0002	mg/L	< 0.0002	-	-	-
Vic EPA IWRG 621 OCP (Total)*	0.002	mg/L	< 0.002	-	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.002	mg/L	< 0.002	-	-	-
Dibutylchlorendate (surr.)	1	%	148	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	116	-	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.005	mg/L	< 0.005	-	-	-
Aroclor-1221	0.005	mg/L	< 0.005	-	-	-
Aroclor-1232	0.005	mg/L	< 0.005	-	-	-
Aroclor-1242	0.005	mg/L	< 0.005	-	-	-
Aroclor-1248	0.005	mg/L	< 0.005	-	-	-
Aroclor-1254	0.005	mg/L	< 0.005	-	-	-
Aroclor-1260	0.005	mg/L	< 0.005	-	-	-

Client Sample ID			RIN20220512	TS	TB	BLANK
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S22-My0047309	S22-My0047310	S22-My0047311	S22-My0047312
Date Sampled			May 12, 2022	May 12, 2022	May 12, 2022	May 12, 2022
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Total PCB*	0.005	mg/L	< 0.005	-	-	-
Dibutylchlorendate (surr.)	1	%	148	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	116	-	-	-
BTEX						
Benzene	1	%	-	98	-	-
Ethylbenzene	1	%	-	94	-	-
m&p-Xylenes	1	%	-	99	-	-
o-Xylene	1	%	-	88	-	-
Toluene	1	%	-	98	-	-
Xylenes - Total	1	%	-	92	-	-
4-Bromofluorobenzene (surr.)	1	%	-	124	-	-

Client Sample ID			MW01	MW02	MW03	MW04
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S22-My0047313	S22-My0047314	S22-My0047315	S22-My0047316
Date Sampled			May 12, 2022	May 12, 2022	May 12, 2022	May 12, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	0.02	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
TRH C10-C14	0.05	mg/L	< 0.05	0.08	0.14	0.22
TRH C15-C28	0.1	mg/L	< 0.1	0.2	< 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	0.28	0.14	0.22
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	0.10	0.13	0.23
TRH >C10-C16 less Naphthalene (F2)[N01]	0.05	mg/L	< 0.05	0.1	0.13	0.23
TRH >C16-C34	0.1	mg/L	< 0.1	0.2	< 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	0.3	0.13	0.23
Volatile Organics						
1.1-Dichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.1-Trichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.1.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.2-Trichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.2.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dibromoethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2.3-Trichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2.4-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.3-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.3-Dichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.3.5-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001

Client Sample ID			MW01	MW02	MW03	MW04
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S22-My0047313	S22-My0047314	S22-My0047315	S22-My0047316
Date Sampled			May 12, 2022	May 12, 2022	May 12, 2022	May 12, 2022
Test/Reference	LOR	Unit				
Volatile Organics						
1.4-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
2-Butanone (MEK)	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
2-Propanone (Acetone)	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
4-Chlorotoluene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
4-Methyl-2-pentanone (MIBK)	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Allyl chloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromochloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromodichloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromoform	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromomethane	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Carbon disulfide	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Carbon Tetrachloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chloroethane	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Chloroform	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Chloromethane	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
cis-1.2-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
cis-1.3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dibromochloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dibromomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dichlorodifluoromethane	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Ethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Iodomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Isopropyl benzene (Cumene)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Methylene Chloride	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
o-Xylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Styrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Tetrachloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Toluene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
trans-1.2-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
trans-1.3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Trichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Trichlorofluoromethane	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Vinyl chloride	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Xylenes - Total*	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
Total MAH*	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
Vic EPA IWRG 621 CHC (Total)*	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Vic EPA IWRG 621 Other CHC (Total)*	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
4-Bromofluorobenzene (surr.)	1	%	76	72	73	79
Toluene-d8 (surr.)	1	%	64	58	63	66
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Acenaphthylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benz(a)anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(a)pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001

Client Sample ID			MW01	MW02	MW03	MW04
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S22-My0047313	S22-My0047314	S22-My0047315	S22-My0047316
Date Sampled			May 12, 2022	May 12, 2022	May 12, 2022	May 12, 2022
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(g.h.i)perylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(k)fluoranthene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chrysene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dibenz(a.h)anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Fluoranthene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Fluorene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Naphthalene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Phenanthrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Total PAH*	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
2-Fluorobiphenyl (surr.)	1	%	62	67	57	61
p-Terphenyl-d14 (surr.)	1	%	[Q09]INT	68	[Q09]INT	[Q09]INT
Heavy Metals						
Arsenic	0.001	mg/L	0.002	0.009	0.006	0.003
Cadmium	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Chromium	0.001	mg/L	< 0.001	0.014	0.002	0.003
Copper	0.001	mg/L	< 0.001	0.019	0.001	0.005
Lead	0.001	mg/L	< 0.001	0.011	< 0.001	0.001
Mercury	0.0001	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nickel	0.001	mg/L	0.002	0.012	0.006	0.004
Zinc	0.005	mg/L	< 0.005	0.050	0.008	0.009
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanoic acid (PFNA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTrDA)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	76	71	73	78
13C5-PFPeA (surr.)	1	%	81	65	95	96
13C5-PFHxA (surr.)	1	%	93	84	89	98
13C4-PFHpA (surr.)	1	%	97	94	91	98
13C8-PFOA (surr.)	1	%	101	98	86	97
13C5-PFNA (surr.)	1	%	101	92	89	92
13C6-PFDA (surr.)	1	%	100	87	87	91
13C2-PFUnDA (surr.)	1	%	120	91	92	102
13C2-PFDoDA (surr.)	1	%	113	102	112	105
13C2-PFTeDA (surr.)	1	%	120	85	97	104

Client Sample ID			MW01	MW02	MW03	MW04
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S22-My0047313	S22-My0047314	S22-My0047315	S22-My0047316
Date Sampled			May 12, 2022	May 12, 2022	May 12, 2022	May 12, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	89	81	80	81
D3-N-MeFOSA (surr.)	1	%	73	65	74	75
D5-N-EtFOSA (surr.)	1	%	75	63	75	63
D7-N-MeFOSE (surr.)	1	%	72	58	66	71
D9-N-EtFOSE (surr.)	1	%	77	61	67	72
D5-N-EtFOSAA (surr.)	1	%	128	113	122	123
D3-N-MeFOSAA (surr.)	1	%	130	101	108	112
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	98	93	94	99
18O2-PFHxS (surr.)	1	%	101	97	94	97
13C8-PFOS (surr.)	1	%	95	92	91	95
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	114	126	110	112
13C2-6:2 FTSA (surr.)	1	%	137	132	110	124
13C2-8:2 FTSA (surr.)	1	%	186	158	179	148
13C2-10:2 FTSA (surr.)	1	%	182	115	136	144
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			MWA	MWB	MWC	MWD
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S22-My0047317	S22-My0047318	S22-My0047321	S22-My0047322
Date Sampled			May 12, 2022	May 12, 2022	May 12, 2022	May 12, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	0.02	mg/L	< 0.02	< 0.02	0.03	< 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
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	0.04	< 0.02
TRH C6-C10 less BTEX (F1)[N04]	0.02	mg/L	< 0.02	< 0.02	0.04	< 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
Volatile Organics						
1.1-Dichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.1-Trichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.1.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.2-Trichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.2.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dibromoethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2.3-Trichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2.4-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.3-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.3-Dichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.3.5-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.4-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
2-Butanone (MEK)	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
2-Propanone (Acetone)	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
4-Chlorotoluene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
4-Methyl-2-pentanone (MIBK)	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Allyl chloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromochloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromodichloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromoform	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromomethane	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Carbon disulfide	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Carbon Tetrachloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chloroethane	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Chloroform	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Chloromethane	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
cis-1.2-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
cis-1.3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001

Client Sample ID			MWA	MWB	MWC	MWD
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S22-My0047317	S22-My0047318	S22-My0047321	S22-My0047322
Date Sampled			May 12, 2022	May 12, 2022	May 12, 2022	May 12, 2022
Test/Reference	LOR	Unit				
Volatile Organics						
Dibromochloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dibromomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dichlorodifluoromethane	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Ethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Iodomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Isopropyl benzene (Cumene)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Methylene Chloride	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
o-Xylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Styrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Tetrachloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Toluene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
trans-1.2-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
trans-1.3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Trichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Trichlorofluoromethane	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Vinyl chloride	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Xylenes - Total*	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
Total MAH*	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
Vic EPA IWRG 621 CHC (Total)*	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Vic EPA IWRG 621 Other CHC (Total)*	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
4-Bromofluorobenzene (surr.)	1	%	73	72	77	74
Toluene-d8 (surr.)	1	%	61	57	63	62
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Acenaphthylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benz(a)anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(a)pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(g.h.i)perylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(k)fluoranthene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chrysene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dibenz(a.h)anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Fluoranthene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Fluorene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Naphthalene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Phenanthrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Total PAH*	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
2-Fluorobiphenyl (surr.)	1	%	[Q09]INT	77	58	63
p-Terphenyl-d14 (surr.)	1	%	[Q09]INT	[Q09]INT	[Q09]INT	[Q09]INT
Heavy Metals						
Arsenic	0.001	mg/L	< 0.001	< 0.001	0.002	< 0.001
Cadmium	0.0002	mg/L	0.0005	0.0004	< 0.0002	< 0.0002
Chromium	0.001	mg/L	< 0.001	0.001	0.001	< 0.001
Copper	0.001	mg/L	0.003	0.002	0.002	0.001
Lead	0.001	mg/L	< 0.001	0.002	0.002	< 0.001

Client Sample ID			MWA	MWB	MWC	MWD
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S22-My0047317	S22-My0047318	S22-My0047321	S22-My0047322
Date Sampled			May 12, 2022	May 12, 2022	May 12, 2022	May 12, 2022
Test/Reference	LOR	Unit				
Heavy Metals						
Mercury	0.0001	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nickel	0.001	mg/L	0.012	0.013	0.017	0.002
Zinc	0.005	mg/L	0.033	0.021	0.009	< 0.005
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanoic acid (PFNA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTrDA)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	76	75	61	69
13C5-PFPeA (surr.)	1	%	104	88	47	82
13C5-PFHxA (surr.)	1	%	93	96	72	87
13C4-PFHpA (surr.)	1	%	94	96	92	86
13C8-PFOA (surr.)	1	%	91	93	98	83
13C5-PFNA (surr.)	1	%	95	98	106	85
13C6-PFDA (surr.)	1	%	104	99	108	85
13C2-PFUnDA (surr.)	1	%	107	119	112	90
13C2-PFDoDA (surr.)	1	%	119	118	119	97
13C2-PFTeDA (surr.)	1	%	115	102	100	102
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	83	85	83	77
D3-N-MeFOSA (surr.)	1	%	69	69	66	73
D5-N-EtFOSA (surr.)	1	%	70	66	64	74
D7-N-MeFOSE (surr.)	1	%	71	71	64	65
D9-N-EtFOSE (surr.)	1	%	80	80	76	72
D5-N-EtFOSAA (surr.)	1	%	132	125	127	113
D3-N-MeFOSAA (surr.)	1	%	105	115	114	101
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01

Client Sample ID			MWA	MWB	MWC	MWD
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S22-My0047317	S22-My0047318	S22-My0047321	S22-My0047322
Date Sampled			May 12, 2022	May 12, 2022	May 12, 2022	May 12, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	96	100	94	92
18O2-PFHxS (surr.)	1	%	97	102	102	93
13C8-PFOS (surr.)	1	%	93	94	96	92
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	122	119	114	93
13C2-6:2 FTSA (surr.)	1	%	139	137	160	113
13C2-8:2 FTSA (surr.)	1	%	153	161	171	137
13C2-10:2 FTSA (surr.)	1	%	174	[Q09]INT	[Q09]INT	156
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			MWE
Sample Matrix			Water
Eurofins Sample No.			S22-My0047323
Date Sampled			May 12, 2022
Test/Reference	LOR	Unit	
Total Recoverable Hydrocarbons			
TRH C6-C9	0.02	mg/L	< 0.02
TRH C10-C14	0.05	mg/L	< 0.05
TRH C15-C28	0.1	mg/L	0.2
TRH C29-C36	0.1	mg/L	< 0.1
TRH C10-C36 (Total)	0.1	mg/L	0.2
Naphthalene[N02]	0.01	mg/L	< 0.01
TRH C6-C10	0.02	mg/L	< 0.02
TRH C6-C10 less BTEX (F1)[N04]	0.02	mg/L	< 0.02
TRH >C10-C16	0.05	mg/L	0.18
TRH >C10-C16 less Naphthalene (F2)[N01]	0.05	mg/L	0.18
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	0.18

Client Sample ID			MWE
Sample Matrix			Water
Eurofins Sample No.			S22-My0047323
Date Sampled			May 12, 2022
Test/Reference	LOR	Unit	
Volatile Organics			
1.1-Dichloroethane	0.001	mg/L	< 0.001
1.1-Dichloroethene	0.001	mg/L	< 0.001
1.1.1-Trichloroethane	0.001	mg/L	< 0.001
1.1.1.2-Tetrachloroethane	0.001	mg/L	< 0.001
1.1.2-Trichloroethane	0.001	mg/L	< 0.001
1.1.2.2-Tetrachloroethane	0.001	mg/L	< 0.001
1.2-Dibromoethane	0.001	mg/L	< 0.001
1.2-Dichlorobenzene	0.001	mg/L	< 0.001
1.2-Dichloroethane	0.001	mg/L	< 0.001
1.2-Dichloropropane	0.001	mg/L	< 0.001
1.2.3-Trichloropropane	0.001	mg/L	< 0.001
1.2.4-Trimethylbenzene	0.001	mg/L	< 0.001
1.3-Dichlorobenzene	0.001	mg/L	< 0.001
1.3-Dichloropropane	0.001	mg/L	< 0.001
1.3.5-Trimethylbenzene	0.001	mg/L	< 0.001
1.4-Dichlorobenzene	0.001	mg/L	< 0.001
2-Butanone (MEK)	0.005	mg/L	< 0.005
2-Propanone (Acetone)	0.005	mg/L	< 0.005
4-Chlorotoluene	0.001	mg/L	< 0.001
4-Methyl-2-pentanone (MIBK)	0.005	mg/L	< 0.005
Allyl chloride	0.001	mg/L	< 0.001
Benzene	0.001	mg/L	< 0.001
Bromobenzene	0.001	mg/L	< 0.001
Bromochloromethane	0.001	mg/L	< 0.001
Bromodichloromethane	0.001	mg/L	< 0.001
Bromoform	0.001	mg/L	< 0.001
Bromomethane	0.005	mg/L	< 0.005
Carbon disulfide	0.001	mg/L	< 0.001
Carbon Tetrachloride	0.001	mg/L	< 0.001
Chlorobenzene	0.001	mg/L	< 0.001
Chloroethane	0.005	mg/L	< 0.005
Chloroform	0.005	mg/L	< 0.005
Chloromethane	0.005	mg/L	< 0.005
cis-1.2-Dichloroethene	0.001	mg/L	< 0.001
cis-1.3-Dichloropropene	0.001	mg/L	< 0.001
Dibromochloromethane	0.001	mg/L	< 0.001
Dibromomethane	0.001	mg/L	< 0.001
Dichlorodifluoromethane	0.005	mg/L	< 0.005
Ethylbenzene	0.001	mg/L	< 0.001
Iodomethane	0.001	mg/L	< 0.001
Isopropyl benzene (Cumene)	0.001	mg/L	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002
Methylene Chloride	0.005	mg/L	< 0.005
o-Xylene	0.001	mg/L	< 0.001
Styrene	0.001	mg/L	< 0.001
Tetrachloroethene	0.001	mg/L	< 0.001
Toluene	0.001	mg/L	< 0.001
trans-1.2-Dichloroethene	0.001	mg/L	< 0.001
trans-1.3-Dichloropropene	0.001	mg/L	< 0.001

Client Sample ID			MWE
Sample Matrix			Water
Eurofins Sample No.			S22-My0047323
Date Sampled			May 12, 2022
Test/Reference	LOR	Unit	
Volatile Organics			
Trichloroethene	0.001	mg/L	< 0.001
Trichlorofluoromethane	0.005	mg/L	< 0.005
Vinyl chloride	0.005	mg/L	< 0.005
Xylenes - Total*	0.003	mg/L	< 0.003
Total MAH*	0.003	mg/L	< 0.003
Vic EPA IWRG 621 CHC (Total)*	0.005	mg/L	< 0.005
Vic EPA IWRG 621 Other CHC (Total)*	0.005	mg/L	< 0.005
4-Bromofluorobenzene (surr.)	1	%	69
Toluene-d8 (surr.)	1	%	56
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	%	100
p-Terphenyl-d14 (surr.)	1	%	[Q09]INT
Heavy Metals			
Arsenic	0.001	mg/L	< 0.001
Cadmium	0.0002	mg/L	< 0.0002
Chromium	0.001	mg/L	0.001
Copper	0.001	mg/L	0.005
Lead	0.001	mg/L	0.002
Mercury	0.0001	mg/L	< 0.0001
Nickel	0.001	mg/L	0.005
Zinc	0.005	mg/L	0.010
Perfluoroalkyl carboxylic acids (PFCAs)			
Perfluorobutanoic acid (PFBA)[N11]	0.05	ug/L	< 0.05
Perfluoropentanoic acid (PFPeA)[N11]	0.01	ug/L	< 0.01
Perfluorohexanoic acid (PFHxA)[N11]	0.01	ug/L	< 0.01
Perfluoroheptanoic acid (PFHpA)[N11]	0.01	ug/L	< 0.01
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	< 0.01
Perfluorononanoic acid (PFNA)[N11]	0.01	ug/L	< 0.01
Perfluorodecanoic acid (PFDA)[N11]	0.01	ug/L	< 0.01
Perfluoroundecanoic acid (PFUnDA)[N11]	0.01	ug/L	< 0.01
Perfluorododecanoic acid (PFDoDA)[N11]	0.01	ug/L	< 0.01
Perfluorotridecanoic acid (PFTrDA)[N15]	0.01	ug/L	< 0.01

Client Sample ID			MWE
Sample Matrix			Water
Eurofins Sample No.			S22-My0047323
Date Sampled			May 12, 2022
Test/Reference	LOR	Unit	
Perfluoroalkyl carboxylic acids (PFCAs)			
Perfluorotetradecanoic acid (PFTeDA)[N11]	0.01	ug/L	< 0.01
13C4-PFBA (surr.)	1	%	72
13C5-PFPeA (surr.)	1	%	94
13C5-PFHxA (surr.)	1	%	89
13C4-PFHpA (surr.)	1	%	89
13C8-PFOA (surr.)	1	%	91
13C5-PFNA (surr.)	1	%	95
13C6-PFDA (surr.)	1	%	95
13C2-PFUnDA (surr.)	1	%	108
13C2-PFDoDA (surr.)	1	%	107
13C2-PFTeDA (surr.)	1	%	112
Perfluoroalkyl sulfonamido substances			
Perfluorooctane sulfonamide (FOSA)[N11]	0.05	ug/L	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	0.05	ug/L	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	0.05	ug/L	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	0.05	ug/L	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	0.05	ug/L	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	0.05	ug/L	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	0.05	ug/L	< 0.05
13C8-FOSA (surr.)	1	%	81
D3-N-MeFOSA (surr.)	1	%	72
D5-N-EtFOSA (surr.)	1	%	73
D7-N-MeFOSE (surr.)	1	%	67
D9-N-EtFOSE (surr.)	1	%	77
D5-N-EtFOSAA (surr.)	1	%	114
D3-N-MeFOSAA (surr.)	1	%	120
Perfluoroalkyl sulfonic acids (PFSAs)			
Perfluorobutanesulfonic acid (PFBS)[N11]	0.01	ug/L	< 0.01
Perfluorononanesulfonic acid (PFNS)[N15]	0.01	ug/L	< 0.01
Perfluoropropanesulfonic acid (PFPrS)[N15]	0.01	ug/L	< 0.01
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.01	ug/L	< 0.01
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.01	ug/L	< 0.01
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.01	ug/L	< 0.01
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	< 0.01
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	< 0.01
13C3-PFBS (surr.)	1	%	96
18O2-PFHxS (surr.)	1	%	96
13C8-PFOS (surr.)	1	%	93
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	0.01	ug/L	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	0.05	ug/L	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	0.01	ug/L	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	0.01	ug/L	< 0.01

Client Sample ID			MWE
Sample Matrix			Water
Eurofins Sample No.			S22-My0047323
Date Sampled			May 12, 2022
Test/Reference	LOR	Unit	
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)			
13C2-4:2 FTSA (surr.)	1	%	110
13C2-6:2 FTSA (surr.)	1	%	123
13C2-8:2 FTSA (surr.)	1	%	155
13C2-10:2 FTSA (surr.)	1	%	197
PFASs Summations			
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1

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
Eurofins Suite B1			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	May 20, 2022	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	May 20, 2022	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	May 20, 2022	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	May 20, 2022	14 Days
- Method: LTM-ORG-2010 BTEX and Volatile TRH			
Volatile Organics	Sydney	May 20, 2022	7 Days
- Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices			
Polycyclic Aromatic Hydrocarbons	Sydney	May 20, 2022	7 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Metals M8	Sydney	May 20, 2022	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Sydney	May 20, 2022	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Sydney	May 20, 2022	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Sydney	May 20, 2022	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Sydney	May 20, 2022	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
PFASs Summations	Sydney	May 19, 2022	
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Organochlorine Pesticides	Sydney	May 20, 2022	7 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Polychlorinated Biphenyls	Sydney	May 20, 2022	7 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			

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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: HUNTINGWOOD
Project ID: 62742

Order No.:
Report #: 890110
Phone: 02 8245 0300
Fax:

Received: May 13, 2022 10:00 AM
Due: May 20, 2022
Priority: 5 Day
Contact Name: Gina Pinget

Eurofins Analytical Services Manager : Hannah Mawbey

Sample Detail						Asbestos - AS4964	Asbestos - WA guidelines	CANCELLED	HOLD	Isopropanol	Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Suite B13: OCP/PCB	VOC AIR-TRH (Total Recoverable Hydrocarbons)	Volatile Organics	Moisture Set	Moisture Set	VOCs in Ambient Air by GC/MS	Total Recoverable Hydrocarbons	Eurofins Suite B7	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX
Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**																					
1	MW01-0-0.1	May 09, 2022		Soil	S22-My0047208										X				X			X			X	
2	MW01-1.5-1.6	May 09, 2022		Soil	S22-My0047209														X				X			
3	AQMW01-0-1.0	May 09, 2022		Soil	S22-My0047210		X																			
4	AQMW02-0-1.0	May 09, 2022		Soil	S22-My0047211			X																		
5	MW02-2.5-2.6	May 09, 2022		Soil	S22-My0047212										X				X			X				
6	MW03-0-0.1	May 09, 2022		Soil	S22-														X			X				

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Contact Name: Gina Pinget

Eurofins Analytical Services Manager : Hannah Mawbey

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
					My0047213																					
7	AQ MW03-0-0.8	May 09, 2022		Soil	S22-My0047214		X																			
8	AQ MW04-0-0.5	May 10, 2022		Soil	S22-My0047215		X																			
9	MW04-0-0.1	May 10, 2022		Soil	S22-My0047216														X			X			X	
10	SB01-0.3-0.4	May 10, 2022		Soil	S22-My0047217										X				X			X				
11	SB01-0.7-0.8	May 10, 2022		Soil	S22-My0047218														X			X				
12	AQ SB01-0-0.5	May 10, 2022		Soil	S22-My0047219			X																		

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Project ID: 62742

Order No.:
Report #: 890110
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Fax:

Received: May 13, 2022 10:00 AM
Due: May 20, 2022
Priority: 5 Day
Contact Name: Gina Pinget

Eurofins Analytical Services Manager : Hannah Mawbey

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
13	AQ SB02-0-1.0	May 12, 2022		Soil	S22-My0047220		X																			
14	SB02-0-0.1	May 12, 2022		Soil	S22-My0047221										X				X							
15	SB02-0.7-0.8	May 12, 2022		Soil	S22-My0047222														X			X				
16	SB03-0-0.1	May 10, 2022		Soil	S22-My0047223								X						X							
17	AQ SB03-0-1.0	May 10, 2022		Soil	S22-My0047224		X																			
18	SB04-0.2-0.3	May 10, 2022		Soil	S22-My0047225								X						X							
19	AQ SB04-0-	May 10, 2022		Soil	S22-		X																			

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Project Name: HUNTINGWOOD
Project ID: 62742

Order No.:
Report #: 890110
Phone: 02 8245 0300
Fax:

Received: May 13, 2022 10:00 AM
Due: May 20, 2022
Priority: 5 Day
Contact Name: Gina Pinget

Eurofins Analytical Services Manager : Hannah Mawbey

Sample Detail						Asbestos - AS4964	Asbestos - WA guidelines	CANCELLED	HOLD	Isopropanol	Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Suite B13: OCP/PCB	VOC AIR-TRH (Total Recoverable Hydrocarbons)	Volatile Organics	Moisture Set	Moisture Set	VOCs in Ambient Air by GC/MS	Total Recoverable Hydrocarbons	Eurofins Suite B7	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX
Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
	1.0				My0047226																					
20	AQ SB04-1-1.3	May 10, 2022		Soil	S22-My0047227		X																			
21	SB05-0-0.1	May 10, 2022		Soil	S22-My0047228										X				X			X			X	
22	AQ SB05-0-1.0	May 10, 2022		Soil	S22-My0047229		X																			
23	AQ SB06-0-1.0	May 10, 2022		Soil	S22-My0047230		X																			
24	SB06-1.0-1.1	May 10, 2022		Soil	S22-My0047231														X			X				
25	AQ SB07-0-0.8	May 10, 2022		Soil	S22-My0047232		X																			

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Project Name: HUNTINGWOOD
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Fax:

Received: May 13, 2022 10:00 AM
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Contact Name: Gina Pinget

Eurofins Analytical Services Manager : Hannah Mawbey

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
26	SB07-02-0.3	May 10, 2022		Soil	S22-My0047233								X		X				X							
27	AQSB08-0-0.4	May 11, 2022		Soil	S22-My0047234		X																			
28	SB08-0.3-0.4	May 11, 2022		Soil	S22-My0047235							X	X						X							
29	AQ SB09-0-0.4	May 11, 2022		Soil	S22-My0047236		X																			
30	SB09-0.3-0.4	May 11, 2022		Soil	S22-My0047237							X	X						X							
31	SB10-0.3-0.4	May 11, 2022		Soil	S22-My0047238														X			X				
32	SB10-1.5-1.6	May 11, 2022		Soil	S22-														X			X				

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Project ID: 62742

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Fax:

Received: May 13, 2022 10:00 AM
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Contact Name: Gina Pinget

Eurofins Analytical Services Manager : Hannah Mawbey

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
					My0047239																					
33	AQ SB10-0-1.0	May 11, 2022		Soil	S22-My0047240		X																			
34	AQ SB10-1.0-2.0	May 11, 2022		Soil	S22-My0047241		X																			
35	AQ SB11-0-1.0	May 11, 2022		Soil	S22-My0047242			X																		
36	AQ SB11-1.0-2.0	May 11, 2022		Soil	S22-My0047243		X																			
37	SB11-1.5-1.6	May 11, 2022		Soil	S22-My0047244														X			X				
38	SB12-0-0.1	May 11, 2022		Soil	S22-My0047245								X						X							

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Priority: 5 Day
Contact Name: Gina Pinget

Eurofins Analytical Services Manager : Hannah Mawbey

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
39	AQ SB12-0-0.7	May 11, 2022		Soil	S22-My0047246		X																			
40	SB13-0-0.1	May 11, 2022		Soil	S22-My0047247								X						X							
41	AQ SB14-0-0.2	May 11, 2022		Soil	S22-My0047248		X																			
42	SB14-0.3-0.4	May 11, 2022		Soil	S22-My0047249								X						X							
43	AQ SB15-0-0.7	May 11, 2022		Soil	S22-My0047250		X																			
44	SB15-0-0.1	May 11, 2022		Soil	S22-My0047251								X						X							
45	AQ SB16-0.2-	May 11, 2022		Soil	S22-		X																			

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Received: May 13, 2022 10:00 AM
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Contact Name: Gina Pinget

Eurofins Analytical Services Manager : Hannah Mawbey

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
	0.6				My0047252																					
46	SB16-0.2-0.6	May 11, 2022		Soil	S22-My0047253							X	X						X							
47	SB17-0.1-0.2	May 11, 2022		Soil	S22-My0047254										X				X			X			X	
48	SB18-0.1-0.2	May 11, 2022		Soil	S22-My0047255														X			X				
49	AQ SB19-0-0.9	May 11, 2022		Soil	S22-My0047256		X																			
50	SB19-0.3-0.4	May 11, 2022		Soil	S22-My0047257								X						X							
51	SB20-0-0.1	May 11, 2022		Soil	S22-My0047258										X				X							

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
52	SB20-0.3-0.4	May 11, 2022		Soil	S22-My0047259								X						X							
53	AQ SB20-0-0.8	May 11, 2022		Soil	S22-My0047260		X																			
54	SB21-0.1-0.2	May 11, 2022		Soil	S22-My0047261														X			X				
55	SB21-0.2-0.3	May 11, 2022		Soil	S22-My0047262														X			X				
56	TP01-1.0-1.1	May 11, 2022		Soil	S22-My0047263														X			X				
57	TP01-1.5-1.6	May 11, 2022		Soil	S22-My0047264														X			X				
58	AQ TP01-0-1.0	May 11, 2022		Soil	S22-		X																			

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
					My0047265																					
59	AQ TP02-0-0.2	May 11, 2022		Soil	S22-My0047266		X																			
60	AQ TP02-0.2-1.2	May 11, 2022		Soil	S22-My0047267		X																			
61	TP02-0-0.1	May 11, 2022		Soil	S22-My0047268										X				X			X				
62	TP03-0-0.1	May 11, 2022		Soil	S22-My0047269														X			X				
63	AQTP03-0-0.1	May 11, 2022		Soil	S22-My0047270		X																			
64	AQTP03-0.1-1.1	May 11, 2022		Soil	S22-My0047271		X																			

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Project Name: HUNTINGWOOD
Project ID: 62742

Order No.:
Report #: 890110
Phone: 02 8245 0300
Fax:

Received: May 13, 2022 10:00 AM
Due: May 20, 2022
Priority: 5 Day
Contact Name: Gina Pinget

Eurofins Analytical Services Manager : Hannah Mawbey

Sample Detail						Asbestos - AS4964	Asbestos - WA guidelines	CANCELLED	HOLD	Isopropanol	Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Suite B13: OCP/PCB	VOC AIR-TRH (Total Recoverable Hydrocarbons)	Volatile Organics	Moisture Set	Moisture Set	VOCs in Ambient Air by GC/MS	Total Recoverable Hydrocarbons	Eurofins Suite B7	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX
Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
65	AQ TP04-0-0.1	May 11, 2022		Soil	S22-My0047272		X																			
66	AQ TP04-0.1-0.4	May 11, 2022		Soil	S22-My0047273		X																			
67	TP04-0.2-0.3	May 11, 2022		Soil	S22-My0047274														X			X				
68	AQ TP05-0-0.2	May 11, 2022		Soil	S22-My0047275		X																			
69	AQ TP05-0.2-1.2	May 11, 2022		Soil	S22-My0047276		X																			
70	TP05-0-0.1	May 11, 2022		Soil	S22-My0047277										X				X			X				
71	TP05-1.0-1.1	May 11, 2022		Soil	S22-								X						X							

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
					My0047278																					
72	AQTP06-0-0.1	May 11, 2022		Soil	S22-My0047279			X																		
73	TP06-0-0.1	May 11, 2022		Soil	S22-My0047280														X			X			X	
74	AQ TP07-0.2-1.1	May 11, 2022		Soil	S22-My0047281		X																			
75	TP07-1.5-1.6	May 11, 2022		Soil	S22-My0047282														X			X				
76	TP08-0.5-0.6	May 11, 2022		Soil	S22-My0047283														X			X				
77	AQ TP08-0-0.4	May 11, 2022		Soil	S22-My0047284		X																			

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
78	AQ TP08-0.4-1.4	May 11, 2022		Soil	S22-My0047285		X																			
79	AQ TP09-0.4-1.1	May 11, 2022		Soil	S22-My0047286			X																		
80	AQ TP10-0.3-1.3	May 11, 2022		Soil	S22-My0047287			X																		
81	TP10-0.5-0.6	May 11, 2022		Soil	S22-My0047288			X																		
82	SV1 (FRONT)	May 09, 2022		Air	S22-My0047289					X						X				X						
83	SV1 (BACK)	May 09, 2022		Air	S22-My0047290					X						X				X						
84	SV3 (FRONT)	May 09, 2022		Air	S22-					X						X				X						

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
					My0047291																					
85	SV3 (BACK)	May 09, 2022		Air	S22-My0047292					X						X				X						
86	SV4 (FRONT)	May 09, 2022		Air	S22-My0047293					X						X				X						
87	SV4 (BACK)	May 09, 2022		Air	S22-My0047294					X						X				X						
88	SV5 (FRONT)	May 09, 2022		Air	S22-My0047295					X						X				X						
89	SV5 (BACK)	May 09, 2022		Air	S22-My0047296					X						X				X						
90	SV7 (FRONT)	May 09, 2022		Air	S22-My0047297					X						X				X						

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
91	SV7 (BACK)	May 09, 2022		Air	S22-My0047298					X						X				X						
92	QV01 (FRONT)	May 09, 2022		Air	S22-My0047299					X						X				X						
93	QV01 (BACK)	May 09, 2022		Air	S22-My0047300					X						X				X						
94	QC-AQ 02	May 10, 2022		Soil	S22-My0047301			X																		
95	QC-AQ 04	May 11, 2022		Soil	S22-My0047302			X																		
96	QC-01	May 09, 2022		Soil	S22-My0047303										X				X			X			X	
97	QC-03	May 10, 2022		Soil	S22-														X			X				

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
					My0047304																					
98	QC-GW02	May 12, 2022		Water	S22-My0047305							X	X				X				X				X	
99	RINSATE	May 11, 2022		Water	S22-My0047306										X							X			X	
100	RIN20220509	May 09, 2022		Water	S22-My0047307						X	X	X		X										X	
101	RIN20220510	May 10, 2022		Water	S22-My0047308						X	X	X		X										X	
102	RIN20220512	May 12, 2022		Water	S22-My0047309						X	X	X		X										X	
103	TS	May 12, 2022		Water	S22-My0047310																					X

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
104	TB	May 12, 2022		Water	S22-My0047311									X												
105	BLANK	May 12, 2022		Water	S22-My0047312																				X	
106	MW01	May 12, 2022		Water	S22-My0047313							X	X				X				X				X	
107	MW02	May 12, 2022		Water	S22-My0047314							X	X				X				X				X	
108	MW03	May 12, 2022		Water	S22-My0047315							X	X				X				X				X	
109	MW04	May 12, 2022		Water	S22-My0047316							X	X				X				X				X	
110	MWA	May 12, 2022		Water	S22-							X	X				X				X				X	

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Sample Detail						Asbestos - AS4964	Asbestos - WA guidelines	CANCELLED	HOLD	Isopropanol	Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Suite B13: OCP/PCB	VOC AIR-TRH (Total Recoverable Hydrocarbons)	Volatile Organics	Moisture Set	Moisture Set	VOCs in Ambient Air by GC/MS	Total Recoverable Hydrocarbons	Eurofins Suite B7	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX
Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
					My0047317																					
111	MWB	May 12, 2022		Water	S22-My0047318							X	X				X				X				X	
112	V-BLANK (FRONT)	May 09, 2022		Air	S22-My0047319					X						X				X						
113	V-BLANK (BACK)	May 09, 2022		Air	S22-My0047320					X						X				X						
114	MWC	May 12, 2022		Water	S22-My0047321							X	X				X				X				X	
115	MWD	May 12, 2022		Water	S22-My0047322							X	X				X				X				X	
116	MWE	May 12, 2022		Water	S22-My0047323							X	X				X				X				X	

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Project Name: HUNTINGWOOD
Project ID: 62742

Order No.:
Report #: 890110
Phone: 02 8245 0300
Fax:

Received: May 13, 2022 10:00 AM
Due: May 20, 2022
Priority: 5 Day
Contact Name: Gina Pinget

Eurofins Analytical Services Manager : Hannah Mawbey

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
117	TP09-1.0-1.1	May 11, 2022		Soil	S22-My0047324														X			X				
118	MW01-0.2-0.3	May 09, 2022		Soil	S22-My0047325				X																	
119	MW01-0.5-0.6	May 09, 2022		Soil	S22-My0047326				X																	
120	MW01-1.0-1.1	May 09, 2022		Soil	S22-My0047327				X																	
121	MW01-2.0-2.1	May 09, 2022		Soil	S22-My0047328				X																	
122	MW01-2.5-2.6	May 09, 2022		Soil	S22-My0047329				X																	
123	MW01-3.0-3.1	May 09, 2022		Soil	S22-				X																	

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
					My0047330																					
124	MW01-4.0-4.1	May 09, 2022		Soil	S22-My0047331				X																	
125	MW01-4.5-4.6	May 09, 2022		Soil	S22-My0047332				X																	
126	MW01-5.0-5.1	May 09, 2022		Soil	S22-My0047333				X																	
127	MW01-6.0-6.1	May 09, 2022		Soil	S22-My0047334				X																	
128	MW01-6.5-6.6	May 09, 2022		Soil	S22-My0047335				X																	
129	MW01-6.9-7.0	May 09, 2022		Soil	S22-My0047336				X																	

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
130	AQMW01-1.0-1.7	May 09, 2022		Soil	S22-My0047337				X																	
131	MW02-0-0.1	May 09, 2022		Soil	S22-My0047338	X																				
132	MW02-0.2-0.3	May 09, 2022		Soil	S22-My0047339				X																	
133	MW02-0.5-0.6	May 09, 2022		Soil	S22-My0047340				X																	
134	MW02-1.0-1.1	May 09, 2022		Soil	S22-My0047341				X																	
135	MW02-1.5-1.6	May 09, 2022		Soil	S22-My0047342				X																	
136	MW02-2.0-2.1	May 09, 2022		Soil	S22-				X																	

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
					My0047343																					
137	MW02-3.0-3.1	May 09, 2022		Soil	S22-My0047344				X																	
138	MW02-3.5-3.6	May 09, 2022		Soil	S22-My0047345				X																	
139	MW02-4.0-4.1	May 09, 2022		Soil	S22-My0047346				X																	
140	MW02-4.5-4.6	May 09, 2022		Soil	S22-My0047347				X																	
141	MW02-5.0-5.1	May 09, 2022		Soil	S22-My0047348				X																	
142	MW02-6.0-6.1	May 09, 2022		Soil	S22-My0047349				X																	

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
143	MW02-7.0-7.1	May 09, 2022		Soil	S22-My0047350				X																	
144	MW02-7.5-7.6	May 09, 2022		Soil	S22-My0047351				X																	
145	MW02-6.5-6.6	May 09, 2022		Soil	S22-My0047352				X																	
146	MW02-8.0-8.1	May 09, 2022		Soil	S22-My0047353				X																	
147	MW02-9.0-9.1	May 09, 2022		Soil	S22-My0047354				X																	
148	MW02-9.5-9.6	May 09, 2022		Soil	S22-My0047355				X																	
149	MW02-10.0-	May 09, 2022		Soil	S22-				X																	

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
	10.1				My0047356																					
150	MW02-10.9-11.0	May 09, 2022		Soil	S22-My0047357				X																	
151	MW03-0.3-0.4	May 09, 2022		Soil	S22-My0047358				X																	
152	MW03-0.5-0.6	May 09, 2022		Soil	S22-My0047359				X																	
153	MW03-1.0-1.1	May 09, 2022		Soil	S22-My0047360				X																	
154	MW03-1.5-1.6	May 09, 2022		Soil	S22-My0047361				X																	
155	MW03-2.0-2.1	May 09, 2022		Soil	S22-My0047362				X																	

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
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Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
156	MW03-2.5-2.6	May 09, 2022		Soil	S22-My0047363				X																	
157	MW03-3.0-3.1	May 09, 2022		Soil	S22-My0047364				X																	
158	MW03-3.5-3.6	May 09, 2022		Soil	S22-My0047365				X																	
159	MW03-4.0-4.1	May 09, 2022		Soil	S22-My0047366				X																	
160	MW03-4.5-4.6	May 09, 2022		Soil	S22-My0047367				X																	
161	MW03-5.0-5.1	May 09, 2022		Soil	S22-My0047368				X																	
162	MW03-5.5-5.6	May 09, 2022		Soil	S22-				X																	

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Project Name: HUNTINGWOOD
Project ID: 62742

Order No.:
Report #: 890110
Phone: 02 8245 0300
Fax:

Received: May 13, 2022 10:00 AM
Due: May 20, 2022
Priority: 5 Day
Contact Name: Gina Pinget

Eurofins Analytical Services Manager : Hannah Mawbey

Sample Detail						Asbestos - AS4964	Asbestos - WA guidelines	CANCELLED	HOLD	Isopropanol	Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Suite B13: OCP/PCB	VOC AIR-TRH (Total Recoverable Hydrocarbons)	Volatile Organics	Moisture Set	Moisture Set	VOCs in Ambient Air by GC/MS	Total Recoverable Hydrocarbons	Eurofins Suite B7	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX
Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
					My0047369																					
163	MW03-6.0-6.1	May 09, 2022		Soil	S22-My0047370				X																	
164	MW03-6.5-6.6	May 09, 2022		Soil	S22-My0047371				X																	
165	MW03-7.0-7.1	May 09, 2022		Soil	S22-My0047372				X																	
166	MW03-7.5-7.6	May 09, 2022		Soil	S22-My0047373				X																	
167	MW03-8.0-8.1	May 09, 2022		Soil	S22-My0047374				X																	
168	MW03-8.5-8.6	May 09, 2022		Soil	S22-My0047375				X																	

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Contact Name: Gina Pinget

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
169	MW03-9.0-9.1	May 09, 2022		Soil	S22-My0047376				X																	
170	MW04-0.3-0.4	May 10, 2022		Soil	S22-My0047377				X																	
171	MW04-05-0.6	May 10, 2022		Soil	S22-My0047378				X																	
172	MW04-1.0-1.1	May 10, 2022		Soil	S22-My0047379				X																	
173	MW04-1.5-1.6	May 10, 2022		Soil	S22-My0047380				X																	
174	MW04-2.0-2.1	May 10, 2022		Soil	S22-My0047381				X																	
175	MW04-2.5-2.6	May 10, 2022		Soil	S22-				X																	

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Eurofins Analytical Services Manager : Hannah Mawbey

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
					My0047382																					
176	MW04-3.0-3.1	May 10, 2022		Soil	S22-My0047383				X																	
177	MW04-3.5-3.6	May 10, 2022		Soil	S22-My0047384				X																	
178	MW04-4.0-4.1	May 10, 2022		Soil	S22-My0047385				X																	
179	MW04-4.5-4.6	May 10, 2022		Soil	S22-My0047386				X																	
180	MW04-5.0-5.1	May 10, 2022		Soil	S22-My0047387				X																	
181	MW04-5.5-5.6	May 10, 2022		Soil	S22-My0047388				X																	

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Eurofins Analytical Services Manager : Hannah Mawbey

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
182	MW04-6.0-6.1	May 10, 2022		Soil	S22-My0047389				X																	
183	MW04-6.5-6.6	May 10, 2022		Soil	S22-My0047390				X																	
184	MW04-7.0-7.1	May 10, 2022		Soil	S22-My0047391				X																	
185	MW04-7.5-7.6	May 10, 2022		Soil	S22-My0047392				X																	
186	MW04-8.0-8.1	May 10, 2022		Soil	S22-My0047393				X																	
187	MW04-8.5-8.6	May 10, 2022		Soil	S22-My0047394				X																	
188	MW04-9.0-9.1	May 10, 2022		Soil	S22-				X																	

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
					My0047395																					
189	MW04-9.5-9.6	May 10, 2022		Soil	S22-My0047396				X																	
190	MW04-10.0-10.1	May 10, 2022		Soil	S22-My0047397				X																	
191	SB01-0-0.1	May 10, 2022		Soil	S22-My0047398				X																	
192	SB01-0.5-0.6	May 10, 2022		Soil	S22-My0047399				X																	
193	SB01-1.0-1.1	May 10, 2022		Soil	S22-My0047400				X																	
194	SB01-1.5-1.6	May 10, 2022		Soil	S22-My0047401				X																	

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
195	SB02-03-0.4	May 12, 2022		Soil	S22-My0047402				X																	
196	SB02-0.5-06	May 12, 2022		Soil	S22-My0047403				X																	
197	SB02-1.0-1.1	May 12, 2022		Soil	S22-My0047404				X																	
198	SB02-1.5-1.6	May 12, 2022		Soil	S22-My0047405				X																	
199	SB02-1.9-2.0	May 12, 2022		Soil	S22-My0047406				X																	
200	SB03-0.2-0.3	May 10, 2022		Soil	S22-My0047407				X																	
201	SB03-0.5-06	May 10, 2022		Soil	S22-				X																	

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
					My0047408																					
202	SB03-1.0-1.1	May 10, 2022		Soil	S22-My0047409				X																	
203	SB03-1.5-1.6	May 10, 2022		Soil	S22-My0047410				X																	
204	SB04-0-0.1	May 10, 2022		Soil	S22-My0047411				X																	
205	SB04-0.5-0.6	May 10, 2022		Soil	S22-My0047412				X																	
206	SB04-1.0-1.1	May 10, 2022		Soil	S22-My0047413				X																	
207	SB04-1.5-1.6	May 10, 2022		Soil	S22-My0047414				X																	

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Project Name: HUNTINGWOOD
Project ID: 62742

Order No.:
Report #: 890110
Phone: 02 8245 0300
Fax:

Received: May 13, 2022 10:00 AM
Due: May 20, 2022
Priority: 5 Day
Contact Name: Gina Pinget

Eurofins Analytical Services Manager : Hannah Mawbey

Sample Detail						Asbestos - AS4964	Asbestos - WA guidelines	CANCELLED	HOLD	Isopropanol	Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Suite B13: OCP/PCB	VOC AIR-TRH (Total Recoverable Hydrocarbons)	Volatile Organics	Moisture Set	Moisture Set	VOCs in Ambient Air by GC/MS	Total Recoverable Hydrocarbons	Eurofins Suite B7	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX
Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
208	SB04-2.0-2.1	May 10, 2022		Soil	S22-My0047415				X																	
209	SB05-0.3-0.4	May 10, 2022		Soil	S22-My0047416				X																	
210	SB05-0.5-0.6	May 10, 2022		Soil	S22-My0047417				X																	
211	SB05-1.0-1.1	May 10, 2022		Soil	S22-My0047418				X																	
212	SB05-1.5-1.6	May 10, 2022		Soil	S22-My0047419				X																	
213	SB06-0.15-0.25	May 10, 2022		Soil	S22-My0047420				X																	
214	SB06-0.5-0.6	May 10, 2022		Soil	S22-				X																	

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
					My0047421																					
215	SB06-0.7-0.8	May 10, 2022		Soil	S22-My0047422				X																	
216	SB06-1.3-1.4	May 10, 2022		Soil	S22-My0047423				X																	
217	SB06-1.6-1.7	May 10, 2022		Soil	S22-My0047424				X																	
218	SB07-0.5-0.6	May 10, 2022		Soil	S22-My0047425				X																	
219	SB07-1.0-1.1	May 10, 2022		Soil	S22-My0047426				X																	
220	SB08-0-0.1	May 11, 2022		Soil	S22-My0047427													X						X		

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
221	SB08-0.5-0.6	May 11, 2022		Soil	S22-My0047428				X																	
222	SB08-0.8-0.9	May 11, 2022		Soil	S22-My0047429				X																	
223	SB09-0-0.1	May 11, 2022		Soil	S22-My0047430				X																	
224	SB09-0.5-0.6	May 11, 2022		Soil	S22-My0047431				X																	
225	SB09-0.8-0.9	May 11, 2022		Soil	S22-My0047432				X																	
226	SB10-0-0.1	May 11, 2022		Soil	S22-My0047433				X																	
227	SB10-0.5-0.6	May 11, 2022		Soil	S22-				X																	

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
					My0047434																					
228	SB10-1.0-1.1	May 11, 2022		Soil	S22-My0047435			X																		
229	SB10-1.9-2.0	May 11, 2022		Soil	S22-My0047436				X																	
230	SB10-2.5-2.6	May 11, 2022		Soil	S22-My0047437				X																	
231	SB10-3.0-3.5	May 11, 2022		Soil	S22-My0047438				X																	
232	SB10-3.5-3.6	May 11, 2022		Soil	S22-My0047439				X																	
233	SB11-0-0.1	May 11, 2022		Soil	S22-My0047440				X																	

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
234	SB11-0.3-0.4	May 11, 2022		Soil	S22-My0047441				X																	
235	SB11-0.5-0.6	May 11, 2022		Soil	S22-My0047442				X																	
236	SB11-1.0-1.1	May 11, 2022		Soil	S22-My0047443				X																	
237	SB11-1.9-2.0	May 11, 2022		Soil	S22-My0047444				X																	
238	SB12-0.3-0.4	May 11, 2022		Soil	S22-My0047445				X																	
239	SB12-0.5-0.6	May 11, 2022		Soil	S22-My0047446			X																		
240	SB12-0.9-1.0	May 11, 2022		Soil	S22-				X																	

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
					My0047447																					
241	AQ SB13-0-0.8	May 11, 2022		Soil	S22-My0047448				X																	
242	SB13-03-0.4	May 11, 2022		Soil	S22-My0047449				X																	
243	SB13-0.5-0.6	May 11, 2022		Soil	S22-My0047450				X																	
244	SB13-0.8-0.9	May 11, 2022		Soil	S22-My0047451				X																	
245	SB13-1.1-1.2	May 11, 2022		Soil	S22-My0047452				X																	
246	SB14-0-0.1	May 11, 2022		Soil	S22-My0047453				X																	

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
247	SB14-0.5-0.6	May 11, 2022		Soil	S22-My0047454				X																	
248	SB15-0.3-0.4	May 11, 2022		Soil	S22-My0047455				X																	
249	SB15-0.5-0.6	May 11, 2022		Soil	S22-My0047456				X																	
250	SB15-1.0-1.1	May 11, 2022		Soil	S22-My0047457				X																	
Test Counts						1	33	11	129	14	3	16	26	1	15	14	10	45	45	14	10	29	1	22	22	1

Internal Quality Control Review and Glossary

General

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

Holding Times

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

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

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

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

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

Units

mg/kg: milligrams per kilogram
mg/L: milligrams per litre
µg/L: micrograms per litre
ppm: parts per million
ppb: parts per billion
%: Percentage
org/100 mL: Organisms per 100 millilitres
NTU: Nephelometric Turbidity Units
MPN/100 mL: Most Probable Number of organisms per 100 millilitres

Terms

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

QC - Acceptance Criteria

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

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

Results <10 times the LOR: No Limit

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

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

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

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

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

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QC Data General Comments

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

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/L	< 0.02			0.02	Pass	
TRH C10-C14	mg/L	< 0.05			0.05	Pass	
TRH C15-C28	mg/L	< 0.1			0.1	Pass	
TRH C29-C36	mg/L	< 0.1			0.1	Pass	
Naphthalene	mg/L	< 0.01			0.01	Pass	
TRH C6-C10	mg/L	< 0.02			0.02	Pass	
TRH >C10-C16	mg/L	< 0.05			0.05	Pass	
TRH >C16-C34	mg/L	< 0.1			0.1	Pass	
TRH >C34-C40	mg/L	< 0.1			0.1	Pass	
Method Blank							
Volatile Organics							
1.1-Dichloroethane	mg/L	< 0.001			0.001	Pass	
1.1-Dichloroethene	mg/L	< 0.001			0.001	Pass	
1.1.1-Trichloroethane	mg/L	< 0.001			0.001	Pass	
1.1.1.2-Tetrachloroethane	mg/L	< 0.001			0.001	Pass	
1.1.2-Trichloroethane	mg/L	< 0.001			0.001	Pass	
1.1.2.2-Tetrachloroethane	mg/L	< 0.001			0.001	Pass	
1.2-Dibromoethane	mg/L	< 0.001			0.001	Pass	
1.2-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
1.2-Dichloroethane	mg/L	< 0.001			0.001	Pass	
1.2-Dichloropropane	mg/L	< 0.001			0.001	Pass	
1.2.3-Trichloropropane	mg/L	< 0.001			0.001	Pass	
1.2.4-Trimethylbenzene	mg/L	< 0.001			0.001	Pass	
1.3-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
1.3-Dichloropropane	mg/L	< 0.001			0.001	Pass	
1.3.5-Trimethylbenzene	mg/L	< 0.001			0.001	Pass	
1.4-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
2-Butanone (MEK)	mg/L	< 0.005			0.005	Pass	
2-Propanone (Acetone)	mg/L	< 0.005			0.005	Pass	
4-Chlorotoluene	mg/L	< 0.001			0.001	Pass	
4-Methyl-2-pentanone (MIBK)	mg/L	< 0.005			0.005	Pass	
Allyl chloride	mg/L	< 0.001			0.001	Pass	
Benzene	mg/L	< 0.001			0.001	Pass	
Bromobenzene	mg/L	< 0.001			0.001	Pass	
Bromochloromethane	mg/L	< 0.001			0.001	Pass	
Bromodichloromethane	mg/L	< 0.001			0.001	Pass	
Bromoform	mg/L	< 0.001			0.001	Pass	
Bromomethane	mg/L	< 0.005			0.005	Pass	
Carbon disulfide	mg/L	< 0.001			0.001	Pass	
Carbon Tetrachloride	mg/L	< 0.001			0.001	Pass	
Chlorobenzene	mg/L	< 0.001			0.001	Pass	
Chloroethane	mg/L	< 0.005			0.005	Pass	
Chloroform	mg/L	< 0.005			0.005	Pass	
Chloromethane	mg/L	< 0.005			0.005	Pass	
cis-1.2-Dichloroethene	mg/L	< 0.001			0.001	Pass	
cis-1.3-Dichloropropene	mg/L	< 0.001			0.001	Pass	
Dibromochloromethane	mg/L	< 0.001			0.001	Pass	
Dibromomethane	mg/L	< 0.001			0.001	Pass	
Dichlorodifluoromethane	mg/L	< 0.005			0.005	Pass	
Ethylbenzene	mg/L	< 0.001			0.001	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Iodomethane	mg/L	< 0.001			0.001	Pass	
Isopropyl benzene (Cumene)	mg/L	< 0.001			0.001	Pass	
m&p-Xylenes	mg/L	< 0.002			0.002	Pass	
Methylene Chloride	mg/L	< 0.005			0.005	Pass	
o-Xylene	mg/L	< 0.001			0.001	Pass	
Styrene	mg/L	< 0.001			0.001	Pass	
Tetrachloroethene	mg/L	< 0.001			0.001	Pass	
Toluene	mg/L	< 0.001			0.001	Pass	
trans-1.2-Dichloroethene	mg/L	< 0.001			0.001	Pass	
trans-1.3-Dichloropropene	mg/L	< 0.001			0.001	Pass	
Trichloroethene	mg/L	< 0.001			0.001	Pass	
Trichlorofluoromethane	mg/L	< 0.005			0.005	Pass	
Vinyl chloride	mg/L	< 0.005			0.005	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							
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	
Method Blank							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ug/L	< 0.05			0.05	Pass	
Perfluoropentanoic acid (PFPeA)	ug/L	< 0.01			0.01	Pass	
Perfluorohexanoic acid (PFHxA)	ug/L	< 0.01			0.01	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/L	< 0.01			0.01	Pass	
Perfluorooctanoic acid (PFOA)	ug/L	< 0.01			0.01	Pass	
Perfluorononanoic acid (PFNA)	ug/L	< 0.01			0.01	Pass	
Perfluorodecanoic acid (PFDA)	ug/L	< 0.01			0.01	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/L	< 0.01			0.01	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/L	< 0.01			0.01	Pass	
Perfluorotridecanoic acid (PFTrDA)	ug/L	< 0.01			0.01	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorotetradecanoic acid (PFTeDA)	ug/L	< 0.01			0.01	Pass	
Method Blank							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	ug/L	< 0.05			0.05	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/L	< 0.05			0.05	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/L	< 0.05			0.05	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	ug/L	< 0.05			0.05	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	ug/L	< 0.05			0.05	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/L	< 0.05			0.05	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/L	< 0.05			0.05	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	ug/L	< 0.01			0.01	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/L	< 0.01			0.01	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/L	< 0.01			0.01	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/L	< 0.01			0.01	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/L	< 0.01			0.01	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/L	< 0.01			0.01	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/L	< 0.01			0.01	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/L	< 0.01			0.01	Pass	
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/L	< 0.01			0.01	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	ug/L	< 0.05			0.05	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/L	< 0.01			0.01	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/L	< 0.01			0.01	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							
Organochlorine Pesticides							
Chlordanes - Total	mg/L	< 0.002			0.002	Pass	
4.4'-DDD	mg/L	< 0.0002			0.0002	Pass	
4.4'-DDE	mg/L	< 0.0002			0.0002	Pass	
4.4'-DDT	mg/L	< 0.0002			0.0002	Pass	
a-HCH	mg/L	< 0.0002			0.0002	Pass	
Aldrin	mg/L	< 0.0002			0.0002	Pass	
b-HCH	mg/L	< 0.0002			0.0002	Pass	
d-HCH	mg/L	< 0.0002			0.0002	Pass	
Dieldrin	mg/L	< 0.0002			0.0002	Pass	
Endosulfan I	mg/L	< 0.0002			0.0002	Pass	
Endosulfan II	mg/L	< 0.0002			0.0002	Pass	
Endosulfan sulphate	mg/L	< 0.0002			0.0002	Pass	
Endrin	mg/L	< 0.0002			0.0002	Pass	
Endrin aldehyde	mg/L	< 0.0002			0.0002	Pass	
Endrin ketone	mg/L	< 0.0002			0.0002	Pass	
g-HCH (Lindane)	mg/L	< 0.0002			0.0002	Pass	
Heptachlor	mg/L	< 0.0002			0.0002	Pass	
Heptachlor epoxide	mg/L	< 0.0002			0.0002	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Hexachlorobenzene	mg/L	< 0.0002			0.0002	Pass	
Methoxychlor	mg/L	< 0.0002			0.0002	Pass	
Toxaphene	mg/L	< 0.005			0.005	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/L	< 0.005			0.005	Pass	
Aroclor-1221	mg/L	< 0.005			0.005	Pass	
Aroclor-1232	mg/L	< 0.005			0.005	Pass	
Aroclor-1242	mg/L	< 0.005			0.005	Pass	
Aroclor-1248	mg/L	< 0.005			0.005	Pass	
Aroclor-1254	mg/L	< 0.005			0.005	Pass	
Aroclor-1260	mg/L	< 0.005			0.005	Pass	
Total PCB*	mg/L	< 0.005			0.005	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	103			70-130	Pass	
TRH C10-C14	%	95			70-130	Pass	
Naphthalene	%	110			70-130	Pass	
TRH C6-C10	%	103			70-130	Pass	
TRH >C10-C16	%	119			70-130	Pass	
LCS - % Recovery							
Volatile Organics							
1.1-Dichloroethene	%	99			70-130	Pass	
1.1.1-Trichloroethane	%	92			70-130	Pass	
1.2-Dichlorobenzene	%	93			70-130	Pass	
1.2-Dichloroethane	%	110			70-130	Pass	
Benzene	%	76			70-130	Pass	
Ethylbenzene	%	79			70-130	Pass	
m&p-Xylenes	%	78			70-130	Pass	
o-Xylene	%	76			70-130	Pass	
Toluene	%	80			70-130	Pass	
Trichloroethene	%	84			70-130	Pass	
Xylenes - Total*	%	78			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	80			70-130	Pass	
Benz(a)anthracene	%	104			70-130	Pass	
Benzo(a)pyrene	%	129			70-130	Pass	
Benzo(b&j)fluoranthene	%	97			70-130	Pass	
Benzo(g.h.i)perylene	%	115			70-130	Pass	
Dibenz(a.h)anthracene	%	102			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	123			70-130	Pass	
Naphthalene	%	121			70-130	Pass	
Pyrene	%	82			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	80			80-120	Pass	
Cadmium	%	106			80-120	Pass	
Chromium	%	83			80-120	Pass	
Copper	%	86			80-120	Pass	
Lead	%	84			80-120	Pass	
Mercury	%	114			80-120	Pass	
Nickel	%	84			80-120	Pass	
Zinc	%	86			80-120	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	101			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	102			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	102			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	103			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	101			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	105			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	102			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	110			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	106			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	109			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	107			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	101			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	106			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	104			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	%	101			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	%	105			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	100			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	108			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	93			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	112			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	89			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	91			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	96			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	102			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	103			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	106			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	91			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	%	105			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	98			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	96			50-150	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	112			70-130	Pass	
Toluene	%	111			70-130	Pass	
Ethylbenzene	%	110			70-130	Pass	
m&p-Xylenes	%	108			70-130	Pass	
o-Xylene	%	108			70-130	Pass	
Xylenes - Total*	%	108			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
a-HCH	%	129			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
Naphthalene	S22-My0047305	CP	%	87			70-130	Pass	
Spike - % Recovery									
Volatile Organics				Result 1					
1.1-Dichloroethene	S22-My0047305	CP	%	103			70-130	Pass	
1.1.1-Trichloroethane	S22-My0047305	CP	%	93			70-130	Pass	
1.2-Dichlorobenzene	S22-My0047305	CP	%	104			70-130	Pass	
1.2-Dichloroethane	S22-My0047305	CP	%	110			70-130	Pass	
Benzene	S22-My0047305	CP	%	100			70-130	Pass	
Ethylbenzene	S22-My0047305	CP	%	96			70-130	Pass	
m&p-Xylenes	S22-My0047305	CP	%	101			70-130	Pass	
o-Xylene	S22-My0047305	CP	%	102			70-130	Pass	
Toluene	S22-My0047305	CP	%	92			70-130	Pass	
Trichloroethene	S22-My0047305	CP	%	85			70-130	Pass	
Xylenes - Total*	S22-My0047305	CP	%	101			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S22-My0042499	NCP	%	86			75-125	Pass	
Cadmium	S22-My0042499	NCP	%	87			75-125	Pass	
Chromium	S22-My0042499	NCP	%	90			75-125	Pass	
Copper	S22-My0042499	NCP	%	91			75-125	Pass	
Lead	S22-My0042499	NCP	%	85			75-125	Pass	
Mercury	S22-My0042499	NCP	%	118			75-125	Pass	
Nickel	S22-My0042499	NCP	%	90			75-125	Pass	
Zinc	S22-My0042499	NCP	%	95			75-125	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C9	S22-My0047306	CP	%	84			70-130	Pass	
Naphthalene	S22-My0047306	CP	%	96			70-130	Pass	
TRH C6-C10	S22-My0047306	CP	%	85			70-130	Pass	
Spike - % Recovery									
Volatile Organics				Result 1					
Benzene	S22-My0047306	CP	%	94			70-130	Pass	
Ethylbenzene	S22-My0047306	CP	%	94			70-130	Pass	
m&p-Xylenes	S22-My0047306	CP	%	94			70-130	Pass	
o-Xylene	S22-My0047306	CP	%	91			70-130	Pass	
Toluene	S22-My0047306	CP	%	96			70-130	Pass	
Xylenes - Total*	S22-My0047306	CP	%	93			70-130	Pass	
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluorobutanoic acid (PFBA)	S22-My0047306	CP	%	100			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	S22-My0047306	CP	%	102			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	S22-My0047306	CP	%	104			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	S22-My0047306	CP	%	99			50-150	Pass	
Perfluorooctanoic acid (PFOA)	S22-My0047306	CP	%	105			50-150	Pass	
Perfluorononanoic acid (PFNA)	S22-My0047306	CP	%	101			50-150	Pass	
Perfluorodecanoic acid (PFDA)	S22-My0047306	CP	%	108			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	S22-My0047306	CP	%	109			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	S22-My0047306	CP	%	102			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	S22-My0047306	CP	%	108			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	S22-My0047306	CP	%	103			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	S22-My0047306	CP	%	101			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	S22-My0047306	CP	%	105			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	S22-My0047306	CP	%	101			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	S22-My0047306	CP	%	101			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	S22-My0047306	CP	%	102			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	S22-My0047306	CP	%	100			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	S22-My0047306	CP	%	106			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	S22-My0047306	CP	%	90			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	S22-My0047306	CP	%	101			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	S22-My0047306	CP	%	87			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	S22-My0047306	CP	%	91			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	S22-My0047306	CP	%	95			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	S22-My0047306	CP	%	95			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	S22-My0047306	CP	%	93			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	S22-My0047306	CP	%	103			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	S22-My0047306	CP	%	98			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	S22-My0047306	CP	%	98			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	S22-My0047306	CP	%	106			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	S22-My0047306	CP	%	98			50-150	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C10-C14	S22-My0047315	CP	%	90			70-130	Pass	
TRH >C10-C16	S22-My0047315	CP	%	110			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
Naphthalene	S22-My0047316	CP	%	84			70-130	Pass	
Spike - % Recovery									
Volatile Organics				Result 1					
1.1-Dichloroethene	S22-My0047316	CP	%	101			70-130	Pass	
1.1.1-Trichloroethane	S22-My0047316	CP	%	91			70-130	Pass	
1.2-Dichlorobenzene	S22-My0047316	CP	%	99			70-130	Pass	
1.2-Dichloroethane	S22-My0047316	CP	%	106			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Benzene	S22-My0047316	CP	%	101			70-130	Pass	
Ethylbenzene	S22-My0047316	CP	%	92			70-130	Pass	
m&p-Xylenes	S22-My0047316	CP	%	97			70-130	Pass	
o-Xylene	S22-My0047316	CP	%	100			70-130	Pass	
Toluene	S22-My0047316	CP	%	91			70-130	Pass	
Trichloroethene	S22-My0047316	CP	%	82			70-130	Pass	
Xylenes - Total*	S22-My0047316	CP	%	98			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C10-C14	R22-My0029400	NCP	mg/L	0.37	0.38	5.0	30%	Pass	
TRH C15-C28	R22-My0029400	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH C29-C36	R22-My0029400	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH >C10-C16	R22-My0029400	NCP	mg/L	0.21	0.23	6.0	30%	Pass	
TRH >C16-C34	R22-My0029400	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH >C34-C40	R22-My0029400	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S22-My0047305	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Acenaphthylene	S22-My0047305	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Anthracene	S22-My0047305	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benz(a)anthracene	S22-My0047305	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(a)pyrene	S22-My0047305	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(b&j)fluoranthene	S22-My0047305	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(g.h.i)perylene	S22-My0047305	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(k)fluoranthene	S22-My0047305	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chrysene	S22-My0047305	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dibenz(a.h)anthracene	S22-My0047305	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluoranthene	S22-My0047305	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluorene	S22-My0047305	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S22-My0047305	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Naphthalene	S22-My0047305	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Phenanthrene	S22-My0047305	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Pyrene	S22-My0047305	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	S22-My0047305	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	S22-My0047305	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	S22-My0047305	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	S22-My0047305	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	S22-My0047305	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	S22-My0047305	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	S22-My0047305	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	S22-My0047305	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	S22-My0047305	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	S22-My0047305	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	S22-My0047305	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	

Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	S22-My0047305	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	S22-My0047305	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	S22-My0047305	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	S22-My0047305	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	S22-My0047305	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	S22-My0047305	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	S22-My0047305	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	S22-My0047305	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	S22-My0047305	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	S22-My0047305	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	S22-My0047305	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	S22-My0047305	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	S22-My0047305	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	S22-My0047305	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	S22-My0047305	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	S22-My0047305	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	S22-My0047305	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	S22-My0047305	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	S22-My0047305	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S22-My0047306	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Cadmium	S22-My0047306	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Chromium	S22-My0047306	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Copper	S22-My0047306	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Lead	S22-My0047306	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Mercury	S22-My0047306	CP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Nickel	S22-My0047306	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Zinc	S22-My0047306	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	S22-My0047311	CP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
Naphthalene	S22-My0047311	CP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
TRH C6-C10	S22-My0047311	CP	mg/L	< 0.02	< 0.02	<1	30%	Pass	

Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
Benzene	S22-My0047311	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Ethylbenzene	S22-My0047311	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
m&p-Xylenes	S22-My0047311	CP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
o-Xylene	S22-My0047311	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Toluene	S22-My0047311	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Xylenes - Total*	S22-My0047311	CP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	S22-My0047313	CP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
Naphthalene	S22-My0047313	CP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
TRH C6-C10	S22-My0047313	CP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	S22-My0047313	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1-Dichloroethene	S22-My0047313	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1.1-Trichloroethane	S22-My0047313	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	S22-My0047313	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1.2-Trichloroethane	S22-My0047313	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	S22-My0047313	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2-Dibromoethane	S22-My0047313	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2-Dichlorobenzene	S22-My0047313	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2-Dichloroethane	S22-My0047313	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2-Dichloropropane	S22-My0047313	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2.3-Trichloropropane	S22-My0047313	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2.4-Trimethylbenzene	S22-My0047313	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.3-Dichlorobenzene	S22-My0047313	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.3-Dichloropropane	S22-My0047313	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.3.5-Trimethylbenzene	S22-My0047313	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.4-Dichlorobenzene	S22-My0047313	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
2-Butanone (MEK)	S22-My0047313	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
2-Propanone (Acetone)	S22-My0047313	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
4-Chlorotoluene	S22-My0047313	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	S22-My0047313	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Allyl chloride	S22-My0047313	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzene	S22-My0047313	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromobenzene	S22-My0047313	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromochloromethane	S22-My0047313	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromodichloromethane	S22-My0047313	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromoform	S22-My0047313	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromomethane	S22-My0047313	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Carbon disulfide	S22-My0047313	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Carbon Tetrachloride	S22-My0047313	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chlorobenzene	S22-My0047313	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chloroethane	S22-My0047313	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Chloroform	S22-My0047313	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Chloromethane	S22-My0047313	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
cis-1.2-Dichloroethene	S22-My0047313	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
cis-1.3-Dichloropropene	S22-My0047313	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dibromochloromethane	S22-My0047313	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dibromomethane	S22-My0047313	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dichlorodifluoromethane	S22-My0047313	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Ethylbenzene	S22-My0047313	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Iodomethane	S22-My0047313	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Isopropyl benzene (Cumene)	S22-My0047313	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	

Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
m&p-Xylenes	S22-My0047313	CP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Methylene Chloride	S22-My0047313	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
o-Xylene	S22-My0047313	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Styrene	S22-My0047313	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Tetrachloroethene	S22-My0047313	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Toluene	S22-My0047313	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
trans-1.2-Dichloroethene	S22-My0047313	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
trans-1.3-Dichloropropene	S22-My0047313	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Trichloroethene	S22-My0047313	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Trichlorofluoromethane	S22-My0047313	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Vinyl chloride	S22-My0047313	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Xylenes - Total*	S22-My0047313	CP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S22-My0047317	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Cadmium	S22-My0047317	CP	mg/L	0.0005	0.0004	7.0	30%	Pass	
Chromium	S22-My0047317	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Copper	S22-My0047317	CP	mg/L	0.003	0.003	9.0	30%	Pass	
Lead	S22-My0047317	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Mercury	S22-My0047317	CP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Nickel	S22-My0047317	CP	mg/L	0.012	0.012	6.0	30%	Pass	
Zinc	S22-My0047317	CP	mg/L	0.033	0.030	10	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	S22-My0047318	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	S22-My0047318	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	S22-My0047318	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	S22-My0047318	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	S22-My0047318	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	S22-My0047318	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	S22-My0047318	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	S22-My0047318	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	S22-My0047318	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	S22-My0047318	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	S22-My0047318	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	S22-My0047318	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	S22-My0047318	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	S22-My0047318	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	S22-My0047318	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	S22-My0047318	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	S22-My0047318	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	S22-My0047318	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	

Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	S22-My0047318	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	S22-My0047318	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	S22-My0047318	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	S22-My0047318	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	S22-My0047318	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	S22-My0047318	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	S22-My0047318	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	S22-My0047318	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	S22-My0047318	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	S22-My0047318	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	S22-My0047318	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	S22-My0047318	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	

Comments

This report has been revised V3 following repeat analysis.

Test Total Recoverable Hydrocarbons - 1999 NEPM Fractions, Total Recoverable Hydrocarbons - 2013 NEPM Fractions results for sample My0047208. My0047217 have now been replaced by the repeat results.

Test Total Recoverable Hydrocarbons - 1999 NEPM Fractions, Total Recoverable Hydrocarbons - 2013 NEPM Fractions and Polycyclic Aromatic Hydrocarbons results for sample My0047277 have now been replaced by the repeat results.

Sample Integrity

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

Qualifier Codes/Comments

Code	Description
G01	The LORs have been raised due to matrix interference
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).
Q09	The Surrogate recovery is outside of the recommended acceptance criteria due to matrix interference. Acceptance criteria were met for all other QC

Authorised by:

Andrew Black	Analytical Services Manager
Charl Du Preez	Senior Analyst-Metal
Charl Du Preez	Senior Analyst-PFAS
Roopesh Rangarajan	Senior Analyst-Organic
Roopesh Rangarajan	Senior Analyst-Volatile



Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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Certificate of Analysis

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, proficiency testing scheme providers and reference materials producers reports and certificates.

JBS & G Australia (NSW) P/L
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Attention:	Gina Pinget
Report	890110-AID-V3
Project Name	HUNTINGWOOD
Project ID	62742
Received Date	May 13, 2022
Date Reported	Jun 27, 2022

Methodology:

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

Project Name HUNTINGWOOD
Project ID 62742
Date Sampled May 09, 2022 to May 12, 2022
Report 890110-AID-V3

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
AQMW01-0-1.0	22-My0047210	May 09, 2022	Approximate Sample 304g 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.
AQ MW03-0-0.8	22-My0047214	May 09, 2022	Approximate Sample 1089g Sample consisted of: Brown fine-grained clayey soil, brick, cement, debris and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ MW04-0-0.5	22-My0047215	May 10, 2022	Approximate Sample 658g Sample consisted of: Brown fine-grained clayey soil, bitumen, cement, debris and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ SB02-0-1.0	22-My0047220	May 12, 2022	Approximate Sample 601g Sample consisted of: Brown fine-grained clayey soil, brick, bitumen and rocks	FA: Chrysotile and amosite asbestos detected in soft plaster material. Approximate raw weight of FA = 0.41g Estimated asbestos content in FA = 0.16g* Total estimated asbestos concentration in FA = 0.027% w/w* Organic fibre detected. No trace asbestos detected.
AQ SB03-0-1.0	22-My0047224	May 10, 2022	Approximate Sample 901g 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.
AQ SB04-0-1.0	22-My0047226	May 10, 2022	Approximate Sample 714g Sample consisted of: Brown coarse-grained 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.
AQ SB04-1-1.3	22-My0047227	May 10, 2022	Approximate Sample 701g 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.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
AQ SB05-0-1.0	22-My0047229	May 10, 2022	Approximate Sample 515g 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.
AQ SB06-0-1.0	22-My0047230	May 10, 2022	Approximate Sample 512g Sample consisted of: Brown fine-grained clayey soil, brick and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ SB07-0-0.8	22-My0047232	May 10, 2022	Approximate Sample 414g 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.
AQSB08-0-0.4	22-My0047234	May 11, 2022	Approximate Sample 591g 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.
AQ SB09-0-0.4	22-My0047236	May 11, 2022	Approximate Sample 644g 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.
AQ SB10-0-1.0	22-My0047240	May 11, 2022	Approximate Sample 769g 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.
AQ SB10-1.0-2.0	22-My0047241	May 11, 2022	Approximate Sample 446g 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.
AQ SB11-1.0-2.0	22-My0047243	May 11, 2022	Approximate Sample 654g 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.
AQ SB12-0-0.7	22-My0047246	May 11, 2022	Approximate Sample 648g Sample consisted of: Brown fine-grained clayey soil, brick and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ SB14-0-0.2	22-My0047248	May 11, 2022	Approximate Sample 415g 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.
AQ SB15-0-0.7	22-My0047250	May 11, 2022	Approximate Sample 438g 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.
AQ SB16-0.2-0.6	22-My0047252	May 11, 2022	Approximate Sample 440g 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.
AQ SB19-0-0.9	22-My0047256	May 11, 2022	Approximate Sample 350g 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
AQ SB20-0-0.8	22-My0047260	May 11, 2022	Approximate Sample 385g 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.
AQ TP01-0-1.0	22-My0047265	May 11, 2022	Approximate Sample 625g 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.
AQ TP02-0-0.2	22-My0047266	May 11, 2022	Approximate Sample 1045g 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.
AQ TP02-0.2-1.2	22-My0047267	May 11, 2022	Approximate Sample 710g 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.
AQTP03-0-0.1	22-My0047270	May 11, 2022	Approximate Sample 663g Sample consisted of: Brown fine-grained clayey soil, brick, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQTP03-0.1-1.1	22-My0047271	May 11, 2022	Approximate Sample 554g 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.
AQ TP04-0-0.1	22-My0047272	May 11, 2022	Approximate Sample 548g Sample consisted of: Brown fine-grained clayey soil and rocks	ACM: Chrysotile asbestos detected in fibre cement fragments. Approximate raw weight of ACM = 0.48g Total estimated asbestos content in ACM = 0.048g* Total estimated asbestos concentration in ACM = 0.0087% w/w* No asbestos detected at the reporting limit of 0.01% w/w.* Organic fibre detected. No trace asbestos detected.
AQ TP04-0.1-0.4	22-My0047273	May 11, 2022	Approximate Sample 651g 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.
AQ TP05-0-0.2	22-My0047275	May 11, 2022	Approximate Sample 605g Sample consisted of: Brown fine-grained clayey soil, cement, bitumen and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ TP05-0.2-1.2	22-My0047276	May 11, 2022	Approximate Sample 614g 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.
AQ TP07-0.2-1.1	22-My0047281	May 11, 2022	Approximate Sample 625g 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
AQ TP08-0-0.4	22-My0047284	May 11, 2022	Approximate Sample 564g 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.
AQ TP08-0.4-1.4	22-My0047285	May 11, 2022	Approximate Sample 597g Sample consisted of: Brown fine-grained clayey soil, brick and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
MW02-0-0.1	22-My0047338	May 09, 2022	Approximate Sample 220g Sample consisted of: Brown fine-grained clayey soil, bitumen and rocks	No asbestos detected at the reporting limit of 0.01% 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 06, 2022	Indefinite
Asbestos - LTM-ASB-8020	Sydney	Jun 06, 2022	Indefinite

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Project Name: HUNTINGWOOD
Project ID: 62742

Order No.:
Report #: 890110
Phone: 02 8245 0300
Fax:

Received: May 13, 2022 10:00 AM
Due: May 20, 2022
Priority: 5 Day
Contact Name: Gina Pinget

Eurofins Analytical Services Manager : Hannah Mawbey

Sample Detail	Asbestos - AS4964	Asbestos - WA guidelines	CANCELLED	HOLD	Isopropanol	Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Suite B13: OCP/PCB	VOC AIR-TRH (Total Recoverable Hydrocarbons)	Volatile Organics	Moisture Set	Moisture Set	VOCs in Ambient Air by GC/MS	Total Recoverable Hydrocarbons	Eurofins Suite B7	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX
Melbourne Laboratory - NATA # 1261 Site # 1254					X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217	X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794											X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																					
Perth Laboratory - NATA # 2377 Site # 2370																					
External Laboratory																					
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**																
1	MW01-0-0.1	May 09, 2022		Soil	S22-My0047208								X				X				X		
2	MW01-1.5-1.6	May 09, 2022		Soil	S22-My0047209												X				X		
3	AQMW01-0-1.0	May 09, 2022		Soil	S22-My0047210		X																
4	AQMW02-0-1.0	May 09, 2022		Soil	S22-My0047211			X															
5	MW02-2.5-2.6	May 09, 2022		Soil	S22-My0047212								X				X				X		
6	MW03-0-0.1	May 09, 2022		Soil	S22-												X				X		

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Project Name: HUNTINGWOOD
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Order No.:
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Received: May 13, 2022 10:00 AM
Due: May 20, 2022
Priority: 5 Day
Contact Name: Gina Pinget

Eurofins Analytical Services Manager : Hannah Mawbey

Sample Detail						Asbestos - AS4964	Asbestos - WA guidelines	CANCELLED	HOLD	Isopropanol	Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Suite B13: OCP/PCB	VOC AIR-TRH (Total Recoverable Hydrocarbons)	Volatile Organics	Moisture Set	Moisture Set	VOCs in Ambient Air by GC/MS	Total Recoverable Hydrocarbons	Eurofins Suite B7	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX
Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
					My0047213																					
7	AQ MW03-0-0.8	May 09, 2022		Soil	S22-My0047214		X																			
8	AQ MW04-0-0.5	May 10, 2022		Soil	S22-My0047215		X																			
9	MW04-0-0.1	May 10, 2022		Soil	S22-My0047216														X			X			X	
10	SB01-0.3-0.4	May 10, 2022		Soil	S22-My0047217										X				X			X				
11	SB01-0.7-0.8	May 10, 2022		Soil	S22-My0047218														X			X				
12	AQ SB01-0-0.5	May 10, 2022		Soil	S22-My0047219			X																		

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Company Name: JBS & G Australia (NSW) P/L
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Project Name: HUNTINGWOOD
Project ID: 62742

Order No.:
Report #: 890110
Phone: 02 8245 0300
Fax:

Received: May 13, 2022 10:00 AM
Due: May 20, 2022
Priority: 5 Day
Contact Name: Gina Pinget

Eurofins Analytical Services Manager : Hannah Mawbey

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
13	AQ SB02-0-1.0	May 12, 2022		Soil	S22-My0047220		X																			
14	SB02-0-0.1	May 12, 2022		Soil	S22-My0047221										X				X							
15	SB02-0.7-0.8	May 12, 2022		Soil	S22-My0047222														X			X				
16	SB03-0-0.1	May 10, 2022		Soil	S22-My0047223								X						X							
17	AQ SB03-0-1.0	May 10, 2022		Soil	S22-My0047224		X																			
18	SB04-0.2-0.3	May 10, 2022		Soil	S22-My0047225								X						X							
19	AQ SB04-0-	May 10, 2022		Soil	S22-		X																			

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Contact Name: Gina Pinget

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
	1.0				My0047226																					
20	AQ SB04-1-1.3	May 10, 2022		Soil	S22-My0047227		X																			
21	SB05-0-0.1	May 10, 2022		Soil	S22-My0047228										X				X			X			X	
22	AQ SB05-0-1.0	May 10, 2022		Soil	S22-My0047229		X																			
23	AQ SB06-0-1.0	May 10, 2022		Soil	S22-My0047230		X																			
24	SB06-1.0-1.1	May 10, 2022		Soil	S22-My0047231														X			X				
25	AQ SB07-0-0.8	May 10, 2022		Soil	S22-My0047232		X																			

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Eurofins Analytical Services Manager : Hannah Mawbey

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
26	SB07-02-0.3	May 10, 2022		Soil	S22-My0047233								X		X				X							
27	AQSB08-0-0.4	May 11, 2022		Soil	S22-My0047234		X																			
28	SB08-0.3-0.4	May 11, 2022		Soil	S22-My0047235							X	X						X							
29	AQ SB09-0-0.4	May 11, 2022		Soil	S22-My0047236		X																			
30	SB09-0.3-0.4	May 11, 2022		Soil	S22-My0047237							X	X						X							
31	SB10-0.3-0.4	May 11, 2022		Soil	S22-My0047238														X			X				
32	SB10-1.5-1.6	May 11, 2022		Soil	S22-														X			X				

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
					My0047239																					
33	AQ SB10-0-1.0	May 11, 2022		Soil	S22-My0047240		X																			
34	AQ SB10-1.0-2.0	May 11, 2022		Soil	S22-My0047241		X																			
35	AQ SB11-0-1.0	May 11, 2022		Soil	S22-My0047242			X																		
36	AQ SB11-1.0-2.0	May 11, 2022		Soil	S22-My0047243		X																			
37	SB11-1.5-1.6	May 11, 2022		Soil	S22-My0047244														X			X				
38	SB12-0-0.1	May 11, 2022		Soil	S22-My0047245								X						X							

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
39	AQ SB12-0-0.7	May 11, 2022		Soil	S22-My0047246		X																			
40	SB13-0-0.1	May 11, 2022		Soil	S22-My0047247								X						X							
41	AQ SB14-0-0.2	May 11, 2022		Soil	S22-My0047248		X																			
42	SB14-0.3-0.4	May 11, 2022		Soil	S22-My0047249								X						X							
43	AQ SB15-0-0.7	May 11, 2022		Soil	S22-My0047250		X																			
44	SB15-0-0.1	May 11, 2022		Soil	S22-My0047251								X						X							
45	AQ SB16-0.2-	May 11, 2022		Soil	S22-		X																			

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
	0.6				My0047252																					
46	SB16-0.2-0.6	May 11, 2022		Soil	S22-My0047253							X	X						X							
47	SB17-0.1-0.2	May 11, 2022		Soil	S22-My0047254										X				X			X			X	
48	SB18-0.1-0.2	May 11, 2022		Soil	S22-My0047255														X			X				
49	AQ SB19-0-0.9	May 11, 2022		Soil	S22-My0047256		X																			
50	SB19-0.3-0.4	May 11, 2022		Soil	S22-My0047257								X						X							
51	SB20-0-0.1	May 11, 2022		Soil	S22-My0047258										X				X							

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
52	SB20-0.3-0.4	May 11, 2022		Soil	S22-My0047259								X						X							
53	AQ SB20-0-0.8	May 11, 2022		Soil	S22-My0047260		X																			
54	SB21-0.1-0.2	May 11, 2022		Soil	S22-My0047261														X			X				
55	SB21-0.2-0.3	May 11, 2022		Soil	S22-My0047262														X			X				
56	TP01-1.0-1.1	May 11, 2022		Soil	S22-My0047263														X			X				
57	TP01-1.5-1.6	May 11, 2022		Soil	S22-My0047264														X			X				
58	AQ TP01-0-1.0	May 11, 2022		Soil	S22-		X																			

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Project Name: HUNTINGWOOD
Project ID: 62742

Order No.:
Report #: 890110
Phone: 02 8245 0300
Fax:

Received: May 13, 2022 10:00 AM
Due: May 20, 2022
Priority: 5 Day
Contact Name: Gina Pinget

Eurofins Analytical Services Manager : Hannah Mawbey

Sample Detail						Asbestos - AS4964	Asbestos - WA guidelines	CANCELLED	HOLD	Isopropanol	Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Suite B13: OCP/PCB	VOC AIR-TRH (Total Recoverable Hydrocarbons)	Volatile Organics	Moisture Set	Moisture Set	VOCs in Ambient Air by GC/MS	Total Recoverable Hydrocarbons	Eurofins Suite B7	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX
Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
					My0047265																					
59	AQ TP02-0-0.2	May 11, 2022		Soil	S22-My0047266		X																			
60	AQ TP02-0.2-1.2	May 11, 2022		Soil	S22-My0047267		X																			
61	TP02-0-0.1	May 11, 2022		Soil	S22-My0047268										X				X			X				
62	TP03-0-0.1	May 11, 2022		Soil	S22-My0047269														X			X				
63	AQTP03-0-0.1	May 11, 2022		Soil	S22-My0047270		X																			
64	AQTP03-0.1-1.1	May 11, 2022		Soil	S22-My0047271		X																			

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Contact Name: Gina Pinget

Eurofins Analytical Services Manager : Hannah Mawbey

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
65	AQ TP04-0-0.1	May 11, 2022		Soil	S22-My0047272		X																			
66	AQ TP04-0.1-0.4	May 11, 2022		Soil	S22-My0047273		X																			
67	TP04-0.2-0.3	May 11, 2022		Soil	S22-My0047274														X			X				
68	AQ TP05-0-0.2	May 11, 2022		Soil	S22-My0047275		X																			
69	AQ TP05-0.2-1.2	May 11, 2022		Soil	S22-My0047276		X																			
70	TP05-0-0.1	May 11, 2022		Soil	S22-My0047277										X				X			X				
71	TP05-1.0-1.1	May 11, 2022		Soil	S22-								X						X							

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Received: May 13, 2022 10:00 AM
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Contact Name: Gina Pinget

Eurofins Analytical Services Manager : Hannah Mawbey

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
					My0047278																					
72	AQTP06-0-0.1	May 11, 2022		Soil	S22-My0047279			X																		
73	TP06-0-0.1	May 11, 2022		Soil	S22-My0047280														X			X			X	
74	AQ TP07-0.2-1.1	May 11, 2022		Soil	S22-My0047281		X																			
75	TP07-1.5-1.6	May 11, 2022		Soil	S22-My0047282														X			X				
76	TP08-0.5-0.6	May 11, 2022		Soil	S22-My0047283														X			X				
77	AQ TP08-0-0.4	May 11, 2022		Soil	S22-My0047284		X																			

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Contact Name: Gina Pinget

Eurofins Analytical Services Manager : Hannah Mawbey

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
78	AQ TP08-0.4-1.4	May 11, 2022		Soil	S22-My0047285		X																			
79	AQ TP09-0.4-1.1	May 11, 2022		Soil	S22-My0047286			X																		
80	AQ TP10-0.3-1.3	May 11, 2022		Soil	S22-My0047287			X																		
81	TP10-0.5-0.6	May 11, 2022		Soil	S22-My0047288			X																		
82	SV1 (FRONT)	May 09, 2022		Air	S22-My0047289					X						X				X						
83	SV1 (BACK)	May 09, 2022		Air	S22-My0047290					X						X				X						
84	SV3 (FRONT)	May 09, 2022		Air	S22-					X						X				X						

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
					My0047291																					
85	SV3 (BACK)	May 09, 2022		Air	S22-My0047292					X						X				X						
86	SV4 (FRONT)	May 09, 2022		Air	S22-My0047293					X						X				X						
87	SV4 (BACK)	May 09, 2022		Air	S22-My0047294					X						X				X						
88	SV5 (FRONT)	May 09, 2022		Air	S22-My0047295					X						X				X						
89	SV5 (BACK)	May 09, 2022		Air	S22-My0047296					X						X				X						
90	SV7 (FRONT)	May 09, 2022		Air	S22-My0047297					X						X				X						

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
91	SV7 (BACK)	May 09, 2022		Air	S22-My0047298					X						X				X						
92	QV01 (FRONT)	May 09, 2022		Air	S22-My0047299					X						X				X						
93	QV01 (BACK)	May 09, 2022		Air	S22-My0047300					X						X				X						
94	QC-AQ 02	May 10, 2022		Soil	S22-My0047301			X																		
95	QC-AQ 04	May 11, 2022		Soil	S22-My0047302			X																		
96	QC-01	May 09, 2022		Soil	S22-My0047303										X				X			X			X	
97	QC-03	May 10, 2022		Soil	S22-														X			X				

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
					My0047304																					
98	QC-GW02	May 12, 2022		Water	S22-My0047305							X	X				X				X				X	
99	RINSATE	May 11, 2022		Water	S22-My0047306										X							X			X	
100	RIN20220509	May 09, 2022		Water	S22-My0047307						X	X	X		X										X	
101	RIN20220510	May 10, 2022		Water	S22-My0047308						X	X	X		X										X	
102	RIN20220512	May 12, 2022		Water	S22-My0047309						X	X	X		X										X	
103	TS	May 12, 2022		Water	S22-My0047310																					X

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Project Name: HUNTINGWOOD
Project ID: 62742

Order No.:
Report #: 890110
Phone: 02 8245 0300
Fax:

Received: May 13, 2022 10:00 AM
Due: May 20, 2022
Priority: 5 Day
Contact Name: Gina Pinget

Eurofins Analytical Services Manager : Hannah Mawbey

Sample Detail						Asbestos - AS4964	Asbestos - WA guidelines	CANCELLED	HOLD	Isopropanol	Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Suite B13: OCP/PCB	VOC AIR-TRH (Total Recoverable Hydrocarbons)	Volatile Organics	Moisture Set	Moisture Set	VOCs in Ambient Air by GC/MS	Total Recoverable Hydrocarbons	Eurofins Suite B7	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX
Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
104	TB	May 12, 2022		Water	S22-My0047311									X												
105	BLANK	May 12, 2022		Water	S22-My0047312																				X	
106	MW01	May 12, 2022		Water	S22-My0047313							X	X				X				X				X	
107	MW02	May 12, 2022		Water	S22-My0047314							X	X				X				X				X	
108	MW03	May 12, 2022		Water	S22-My0047315							X	X				X				X				X	
109	MW04	May 12, 2022		Water	S22-My0047316							X	X				X				X				X	
110	MWA	May 12, 2022		Water	S22-							X	X				X				X				X	

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Fax:

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Contact Name: Gina Pinget

Eurofins Analytical Services Manager : Hannah Mawbey

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
					My0047317																					
111	MWB	May 12, 2022		Water	S22-My0047318							X	X				X				X				X	
112	V-BLANK (FRONT)	May 09, 2022		Air	S22-My0047319					X						X				X						
113	V-BLANK (BACK)	May 09, 2022		Air	S22-My0047320					X						X				X						
114	MWC	May 12, 2022		Water	S22-My0047321							X	X				X				X				X	
115	MWD	May 12, 2022		Water	S22-My0047322							X	X				X				X				X	
116	MWE	May 12, 2022		Water	S22-My0047323							X	X				X				X				X	

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Contact Name: Gina Pinget

Eurofins Analytical Services Manager : Hannah Mawbey

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
117	TP09-1.0-1.1	May 11, 2022		Soil	S22-My0047324														X			X				
118	MW01-0.2-0.3	May 09, 2022		Soil	S22-My0047325				X																	
119	MW01-0.5-0.6	May 09, 2022		Soil	S22-My0047326				X																	
120	MW01-1.0-1.1	May 09, 2022		Soil	S22-My0047327				X																	
121	MW01-2.0-2.1	May 09, 2022		Soil	S22-My0047328				X																	
122	MW01-2.5-2.6	May 09, 2022		Soil	S22-My0047329				X																	
123	MW01-3.0-3.1	May 09, 2022		Soil	S22-				X																	

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Contact Name: Gina Pinget

Eurofins Analytical Services Manager : Hannah Mawbey

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
					My0047330																					
124	MW01-4.0-4.1	May 09, 2022		Soil	S22-My0047331				X																	
125	MW01-4.5-4.6	May 09, 2022		Soil	S22-My0047332				X																	
126	MW01-5.0-5.1	May 09, 2022		Soil	S22-My0047333				X																	
127	MW01-6.0-6.1	May 09, 2022		Soil	S22-My0047334				X																	
128	MW01-6.5-6.6	May 09, 2022		Soil	S22-My0047335				X																	
129	MW01-6.9-7.0	May 09, 2022		Soil	S22-My0047336				X																	

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
130	AQMW01-1.0-1.7	May 09, 2022		Soil	S22-My0047337				X																	
131	MW02-0-0.1	May 09, 2022		Soil	S22-My0047338	X																				
132	MW02-0.2-0.3	May 09, 2022		Soil	S22-My0047339				X																	
133	MW02-0.5-0.6	May 09, 2022		Soil	S22-My0047340				X																	
134	MW02-1.0-1.1	May 09, 2022		Soil	S22-My0047341				X																	
135	MW02-1.5-1.6	May 09, 2022		Soil	S22-My0047342				X																	
136	MW02-2.0-2.1	May 09, 2022		Soil	S22-				X																	

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
					My0047343																					
137	MW02-3.0-3.1	May 09, 2022		Soil	S22-My0047344				X																	
138	MW02-3.5-3.6	May 09, 2022		Soil	S22-My0047345				X																	
139	MW02-4.0-4.1	May 09, 2022		Soil	S22-My0047346				X																	
140	MW02-4.5-4.6	May 09, 2022		Soil	S22-My0047347				X																	
141	MW02-5.0-5.1	May 09, 2022		Soil	S22-My0047348				X																	
142	MW02-6.0-6.1	May 09, 2022		Soil	S22-My0047349				X																	

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
143	MW02-7.0-7.1	May 09, 2022		Soil	S22-My0047350				X																	
144	MW02-7.5-7.6	May 09, 2022		Soil	S22-My0047351				X																	
145	MW02-6.5-6.6	May 09, 2022		Soil	S22-My0047352				X																	
146	MW02-8.0-8.1	May 09, 2022		Soil	S22-My0047353				X																	
147	MW02-9.0-9.1	May 09, 2022		Soil	S22-My0047354				X																	
148	MW02-9.5-9.6	May 09, 2022		Soil	S22-My0047355				X																	
149	MW02-10.0-	May 09, 2022		Soil	S22-				X																	

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Project Name: HUNTINGWOOD
Project ID: 62742

Order No.:
Report #: 890110
Phone: 02 8245 0300
Fax:

Received: May 13, 2022 10:00 AM
Due: May 20, 2022
Priority: 5 Day
Contact Name: Gina Pinget

Eurofins Analytical Services Manager : Hannah Mawbey

Sample Detail						Asbestos - AS4964	Asbestos - WA guidelines	CANCELLED	HOLD	Isopropanol	Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Suite B13: OCP/PCB	VOC AIR-TRH (Total Recoverable Hydrocarbons)	Volatile Organics	Moisture Set	Moisture Set	VOCs in Ambient Air by GC/MS	Total Recoverable Hydrocarbons	Eurofins Suite B7	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX
Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
	10.1				My0047356																					
150	MW02-10.9-11.0	May 09, 2022		Soil	S22-My0047357				X																	
151	MW03-0.3-0.4	May 09, 2022		Soil	S22-My0047358				X																	
152	MW03-0.5-0.6	May 09, 2022		Soil	S22-My0047359				X																	
153	MW03-1.0-1.1	May 09, 2022		Soil	S22-My0047360				X																	
154	MW03-1.5-1.6	May 09, 2022		Soil	S22-My0047361				X																	
155	MW03-2.0-2.1	May 09, 2022		Soil	S22-My0047362				X																	

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
156	MW03-2.5-2.6	May 09, 2022		Soil	S22-My0047363				X																	
157	MW03-3.0-3.1	May 09, 2022		Soil	S22-My0047364				X																	
158	MW03-3.5-3.6	May 09, 2022		Soil	S22-My0047365				X																	
159	MW03-4.0-4.1	May 09, 2022		Soil	S22-My0047366				X																	
160	MW03-4.5-4.6	May 09, 2022		Soil	S22-My0047367				X																	
161	MW03-5.0-5.1	May 09, 2022		Soil	S22-My0047368				X																	
162	MW03-5.5-5.6	May 09, 2022		Soil	S22-				X																	

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
					My0047369																					
163	MW03-6.0-6.1	May 09, 2022		Soil	S22-My0047370				X																	
164	MW03-6.5-6.6	May 09, 2022		Soil	S22-My0047371				X																	
165	MW03-7.0-7.1	May 09, 2022		Soil	S22-My0047372				X																	
166	MW03-7.5-7.6	May 09, 2022		Soil	S22-My0047373				X																	
167	MW03-8.0-8.1	May 09, 2022		Soil	S22-My0047374				X																	
168	MW03-8.5-8.6	May 09, 2022		Soil	S22-My0047375				X																	

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
169	MW03-9.0-9.1	May 09, 2022		Soil	S22-My0047376				X																	
170	MW04-0.3-0.4	May 10, 2022		Soil	S22-My0047377				X																	
171	MW04-05-0.6	May 10, 2022		Soil	S22-My0047378				X																	
172	MW04-1.0-1.1	May 10, 2022		Soil	S22-My0047379				X																	
173	MW04-1.5-1.6	May 10, 2022		Soil	S22-My0047380				X																	
174	MW04-2.0-2.1	May 10, 2022		Soil	S22-My0047381				X																	
175	MW04-2.5-2.6	May 10, 2022		Soil	S22-				X																	

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
					My0047382																					
176	MW04-3.0-3.1	May 10, 2022		Soil	S22-My0047383				X																	
177	MW04-3.5-3.6	May 10, 2022		Soil	S22-My0047384				X																	
178	MW04-4.0-4.1	May 10, 2022		Soil	S22-My0047385				X																	
179	MW04-4.5-4.6	May 10, 2022		Soil	S22-My0047386				X																	
180	MW04-5.0-5.1	May 10, 2022		Soil	S22-My0047387				X																	
181	MW04-5.5-5.6	May 10, 2022		Soil	S22-My0047388				X																	

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
182	MW04-6.0-6.1	May 10, 2022		Soil	S22-My0047389				X																	
183	MW04-6.5-6.6	May 10, 2022		Soil	S22-My0047390				X																	
184	MW04-7.0-7.1	May 10, 2022		Soil	S22-My0047391				X																	
185	MW04-7.5-7.6	May 10, 2022		Soil	S22-My0047392				X																	
186	MW04-8.0-8.1	May 10, 2022		Soil	S22-My0047393				X																	
187	MW04-8.5-8.6	May 10, 2022		Soil	S22-My0047394				X																	
188	MW04-9.0-9.1	May 10, 2022		Soil	S22-				X																	

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
					My0047395																					
189	MW04-9.5-9.6	May 10, 2022		Soil	S22-My0047396				X																	
190	MW04-10.0-10.1	May 10, 2022		Soil	S22-My0047397				X																	
191	SB01-0-0.1	May 10, 2022		Soil	S22-My0047398				X																	
192	SB01-0.5-0.6	May 10, 2022		Soil	S22-My0047399				X																	
193	SB01-1.0-1.1	May 10, 2022		Soil	S22-My0047400				X																	
194	SB01-1.5-1.6	May 10, 2022		Soil	S22-My0047401				X																	

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Sample Detail						Asbestos - AS4964	Asbestos - WA guidelines	CANCELLED	HOLD	Isopropanol	Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Suite B13: OCP/PCB	VOC AIR-TRH (Total Recoverable Hydrocarbons)	Volatile Organics	Moisture Set	Moisture Set	VOCs in Ambient Air by GC/MS	Total Recoverable Hydrocarbons	Eurofins Suite B7	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX
Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
195	SB02-03-0.4	May 12, 2022		Soil	S22-My0047402				X																	
196	SB02-0.5-06	May 12, 2022		Soil	S22-My0047403				X																	
197	SB02-1.0-1.1	May 12, 2022		Soil	S22-My0047404				X																	
198	SB02-1.5-1.6	May 12, 2022		Soil	S22-My0047405				X																	
199	SB02-1.9-2.0	May 12, 2022		Soil	S22-My0047406				X																	
200	SB03-0.2-0.3	May 10, 2022		Soil	S22-My0047407				X																	
201	SB03-0.5-06	May 10, 2022		Soil	S22-				X																	

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Project Name: HUNTINGWOOD
Project ID: 62742

Order No.:
Report #: 890110
Phone: 02 8245 0300
Fax:

Received: May 13, 2022 10:00 AM
Due: May 20, 2022
Priority: 5 Day
Contact Name: Gina Pinget

Eurofins Analytical Services Manager : Hannah Mawbey

Sample Detail						Asbestos - AS4964	Asbestos - WA guidelines	CANCELLED	HOLD	Isopropanol	Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Suite B13: OCP/PCB	VOC AIR-TRH (Total Recoverable Hydrocarbons)	Volatile Organics	Moisture Set	Moisture Set	VOCs in Ambient Air by GC/MS	Total Recoverable Hydrocarbons	Eurofins Suite B7	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX
Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
					My0047408																					
202	SB03-1.0-1.1	May 10, 2022		Soil	S22-My0047409				X																	
203	SB03-1.5-1.6	May 10, 2022		Soil	S22-My0047410				X																	
204	SB04-0-0.1	May 10, 2022		Soil	S22-My0047411				X																	
205	SB04-0.5-0.6	May 10, 2022		Soil	S22-My0047412				X																	
206	SB04-1.0-1.1	May 10, 2022		Soil	S22-My0047413				X																	
207	SB04-1.5-1.6	May 10, 2022		Soil	S22-My0047414				X																	

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Contact Name: Gina Pinget

Eurofins Analytical Services Manager : Hannah Mawbey

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
208	SB04-2.0-2.1	May 10, 2022		Soil	S22-My0047415				X																	
209	SB05-0.3-0.4	May 10, 2022		Soil	S22-My0047416				X																	
210	SB05-0.5-0.6	May 10, 2022		Soil	S22-My0047417				X																	
211	SB05-1.0-1.1	May 10, 2022		Soil	S22-My0047418				X																	
212	SB05-1.5-1.6	May 10, 2022		Soil	S22-My0047419				X																	
213	SB06-0.15-0.25	May 10, 2022		Soil	S22-My0047420				X																	
214	SB06-0.5-0.6	May 10, 2022		Soil	S22-				X																	

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
					My0047421																					
215	SB06-0.7-0.8	May 10, 2022		Soil	S22-My0047422				X																	
216	SB06-1.3-1.4	May 10, 2022		Soil	S22-My0047423				X																	
217	SB06-1.6-1.7	May 10, 2022		Soil	S22-My0047424				X																	
218	SB07-0.5-0.6	May 10, 2022		Soil	S22-My0047425				X																	
219	SB07-1.0-1.1	May 10, 2022		Soil	S22-My0047426				X																	
220	SB08-0-0.1	May 11, 2022		Soil	S22-My0047427													X						X		

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
221	SB08-0.5-0.6	May 11, 2022		Soil	S22-My0047428				X																	
222	SB08-0.8-0.9	May 11, 2022		Soil	S22-My0047429				X																	
223	SB09-0-0.1	May 11, 2022		Soil	S22-My0047430				X																	
224	SB09-0.5-0.6	May 11, 2022		Soil	S22-My0047431				X																	
225	SB09-0.8-0.9	May 11, 2022		Soil	S22-My0047432				X																	
226	SB10-0-0.1	May 11, 2022		Soil	S22-My0047433				X																	
227	SB10-0.5-0.6	May 11, 2022		Soil	S22-				X																	

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
					My0047434																					
228	SB10-1.0-1.1	May 11, 2022		Soil	S22-My0047435			X																		
229	SB10-1.9-2.0	May 11, 2022		Soil	S22-My0047436				X																	
230	SB10-2.5-2.6	May 11, 2022		Soil	S22-My0047437				X																	
231	SB10-3.0-3.5	May 11, 2022		Soil	S22-My0047438				X																	
232	SB10-3.5-3.6	May 11, 2022		Soil	S22-My0047439				X																	
233	SB11-0-0.1	May 11, 2022		Soil	S22-My0047440				X																	

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
234	SB11-0.3-0.4	May 11, 2022		Soil	S22-My0047441				X																	
235	SB11-0.5-0.6	May 11, 2022		Soil	S22-My0047442				X																	
236	SB11-1.0-1.1	May 11, 2022		Soil	S22-My0047443				X																	
237	SB11-1.9-2.0	May 11, 2022		Soil	S22-My0047444				X																	
238	SB12-0.3-0.4	May 11, 2022		Soil	S22-My0047445				X																	
239	SB12-0.5-0.6	May 11, 2022		Soil	S22-My0047446			X																		
240	SB12-0.9-1.0	May 11, 2022		Soil	S22-				X																	

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Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
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Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
					My0047447																					
241	AQ SB13-0-0.8	May 11, 2022		Soil	S22-My0047448				X																	
242	SB13-03-0.4	May 11, 2022		Soil	S22-My0047449				X																	
243	SB13-0.5-0.6	May 11, 2022		Soil	S22-My0047450				X																	
244	SB13-0.8-0.9	May 11, 2022		Soil	S22-My0047451				X																	
245	SB13-1.1-1.2	May 11, 2022		Soil	S22-My0047452				X																	
246	SB14-0-0.1	May 11, 2022		Soil	S22-My0047453				X																	

eurofins | Environment Testing

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NATA # 1261 Site # 20794

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43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

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

Project Name: HUNTINGWOOD
Project ID: 62742

Order No.:
Report #: 890110
Phone: 02 8245 0300
Fax:

Received: May 13, 2022 10:00 AM
Due: May 20, 2022
Priority: 5 Day
Contact Name: Gina Pinget

Eurofins Analytical Services Manager : Hannah Mawbey

Sample Detail						Asbestos - AS4964	Asbestos - WA guidelines	CANCELLED	HOLD	Isopropanol	Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Suite B13: OCP/PCB	VOC AIR-TRH (Total Recoverable Hydrocarbons)	Volatile Organics	Moisture Set	Moisture Set	VOCs in Ambient Air by GC/MS	Total Recoverable Hydrocarbons	Eurofins Suite B7	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX
Melbourne Laboratory - NATA # 1261 Site # 1254										X						X		X	X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																X		X	X					X	X	
Mayfield Laboratory - NATA # 1261 Site # 25079																										
Perth Laboratory - NATA # 2377 Site # 2370																										
External Laboratory																										
247	SB14-0.5-0.6	May 11, 2022		Soil	S22-My0047454				X																	
248	SB15-0.3-0.4	May 11, 2022		Soil	S22-My0047455				X																	
249	SB15-0.5-0.6	May 11, 2022		Soil	S22-My0047456				X																	
250	SB15-1.0-1.1	May 11, 2022		Soil	S22-My0047457				X																	
Test Counts						1	33	11	129	14	3	16	26	1	15	14	10	45	45	14	10	29	1	22	22	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 the colour **blue** indicates data provided by customer that may have an impact on the results.
5. Information identified on this report with the colour **orange** indicates sections of the report not covered by the laboratory's scope of NATA accreditation.
6. This report replaces any interim results previously issued.

Holding Times

Please refer to the most recent version of the 'Sample Preservation and Container Guide' for holding times (QS3001).
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:	Percentage weight-for-weight basis, e.g. of asbestos in asbestos-containing finds in soil samples (**% w/w**)
F/fld	Airborne fibre filter loading as Fibres (**N**) per Fields counted (**n**)
F/mL	Airborne fibre reported concentration as Fibres per millilitre of air drawn over the sampler membrane (**C**)
g, kg	Mass, e.g. of whole sample (**M**) or asbestos-containing find within the sample (**m**)
g/kg	Concentration in grams per kilogram
L, mL	Volume, e.g. of air as measured in AFM (**V** = **r** x **t**)
L/min	Airborne fibre sampling Flowrate as litres per minute of air drawn over the sampler membrane (**r**)
min	Time (**t**), e.g. of air sample collection period

Calculations

Airborne Fibre Concentration: $C = \left(\frac{A}{a}\right) \times \left(\frac{N}{n}\right) \times \left(\frac{1}{r}\right) \times \left(\frac{1}{t}\right) = K \times \left(\frac{N}{n}\right) \times \left(\frac{1}{V}\right)$

Asbestos Content (as asbestos): $\%\, w/w = \frac{(m \times P_A)}{M}$

Weighted Average (of asbestos): $\%_{WA} = \sum \frac{(m \times P_A)_x}{x}$

Terms

%asbestos	Estimated percentage of asbestos in a given matrix. May be derived from knowledge or experience of the material, informed by HSG264 *Appendix 2*, else assumed to be 15% in accordance with WA DOH *Appendix 2* (**P_A**).
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded (non-friable) condition. For the purposes of the NEPM and WA DOH, ACM corresponds to material larger than 7 mm x 7 mm.
AF	Asbestos Fines. Asbestos contamination within a soil sample, as defined by WA DOH. Includes loose fibre bundles and small pieces of friable and non-friable material such as asbestos cement fragments mixed with soil. Considered under the NEPM as equivalent to "non-bonded / friable".
AFM	Airborne Fibre Monitoring, e.g. by the MFM.
Amosite	Amosite Asbestos Detected. Amosite may also refer to Fibrous Grunerite or Brown Asbestos. Identified in accordance with AS 4964-2004.
AS	Australian Standard.
Asbestos Content (as asbestos)	Total % w/w asbestos content in asbestos-containing finds in a soil sample (**% w/w**).
Chrysotile	Chrysotile Asbestos Detected. Chrysotile may also refer to Fibrous Serpentine or White Asbestos. Identified in accordance with AS 4964-2004.
COC	Chain of Custody.
Crocidolite	Crocidolite Asbestos Detected. Crocidolite may also refer to Fibrous Riebeckite or Blue Asbestos. Identified in accordance with AS 4964-2004.
Dry	Sample is dried by heating prior to analysis.
DS	Dispersion Staining. Technique required for Unequivocal Identification of asbestos fibres by PLM.
FA	Fibrous Asbestos. Asbestos containing material that is wholly or in part friable, including materials with higher asbestos content with a propensity to become friable with handling, and any material that was previously non-friable and in a severely degraded condition. For the purposes of the NEPM and WA DOH, FA generally corresponds to material larger than 7 mm x 7 mm, although FA may be more difficult to visibly distinguish and may be assessed as AF.
Fibre Count	Total of all fibres (whether asbestos or not) meeting the counting criteria set out in the NOHSC:3003
Fibre ID	Fibre Identification. Unequivocal identification of asbestos fibres according to AS 4964-2004. Includes Chrysotile, Amosite (Grunerite) or Crocidolite asbestos.
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.
HSG248	UK HSE HSG248, *Asbestos: The Analysts Guide*, 2nd Edition (2021).
HSG264	UK HSE HSG264, *Asbestos: The Survey Guide* (2012).
ISO (also ISO/IEC)	International Organization for Standardization / International Electrotechnical Commission.
K Factor	Microscope constant (**K**) as derived from the effective filter area of the given AFM membrane used for collecting the sample (**A**) and the projected eyepiece graticule area of the specific microscope used for the analysis (**a**).
LOR	Limit of Reporting.
MFM (also NOHSC:3003)	Membrane Filter Method. As described by the Australian Government National Occupational Health and Safety Commission, *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres*, 2nd Edition [NOHSC:3003(2005)].
NEPM (also ASC NEPM)	National Environment Protection (Assessment of Site Contamination) Measure, (2013, as amended).
Organic	Organic Fibres Detected. Organic may refer to Natural or Man-Made Polymeric Fibres. Identified in accordance with AS 4964-2004.
PCM	Phase Contrast Microscopy. As used for Fibre Counting according to the MFM.
PLM	Polarised Light Microscopy. As used for Fibre Identification and Trace Analysis according to AS 4964-2004.
SMF	Synthetic Mineral Fibre Detected. SMF may also refer to Man Made Vitreous Fibres. Identified in accordance with AS 4964-2004.
SRA	Sample Receipt Advice.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres (particularly asbestos) in a given sample matrix.
UK HSE HSG	United Kingdom, Health and Safety Executive, Health and Safety Guidance, publication.
UMF	Unidentified Mineral Fibre Detected. Fibrous minerals that are detected but have not been unequivocally identified by PLM with DS according the AS 4964-2004. May include (but not limited to) Actinolite, Anthophyllite or Tremolite asbestos.
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* (updated 2021), including Appendix Four: *Laboratory analysis*
Weighted Average	Combined average % w/w asbestos content of all asbestos-containing finds in the given aliquot or total soil sample (**$\%_{WA}$**).

Comments

22-My0047248 to -My0047260, 22-My0047232, 22-My0047241, 22-My0047210: 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

Asbestos Counter/Identifier:

Chamath JHM Annakkage	Senior Analyst-Asbestos
Laxman Dias	Senior Analyst-Asbestos

Authorised by:

Sayeed Abu	Senior Analyst-Asbestos



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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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:	Gina Pinget
Project name:	HUNTINGWOOD
Project ID:	62742
Turnaround time:	5 Day
Date/Time received	May 13, 2022 10:00 AM
Eurofins reference	890110

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	Sample Temperature of chilled sample on the batch as recorded by Eurofins Sample Receipt : 6.3 degrees Celsius.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
✓	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
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:

Hannah Mawbey on phone : or by email: HannahMawbey@eurofins.com

Results will be delivered electronically via email to Gina Pinget - gpinget@jbsg.com.au.

Eurofins

Chain of Custody

JBS&G

PROJECT NO.: ~~62740~~ 62742
PROJECT NAME: Huntingwood.
DATE NEEDED BY: Standard TAT

LABORATORY BATCH NO.:
SAMPLERS: GP/HD/MD/RS
QC LEVEL: NEPM (2013)

PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) g.paget@jbsg.com.au; (3) h.dinan@jbsg.com.au, jnicholson; mdavley

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:
* Please note, job number is 62742, not 62740 (jars labelled incorrectly).

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	HM	PAHs	TRH/BTEX	Asbestos 50mL	OCP/PCB	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
MW01-0-0.1	SOIL	9/5/22		1x PFAS + ice		X	X	X		X	X			
-0.2-0.3				1x ice										
-0.5-0.6														
-1.0-1.1														
-1.5-1.6								X						
-2.0-2.1														
-2.5-2.6														
-3.0-3.1														
-4.0-4.1														
-4.5-4.6														
-5.0-5.1														
-6.0-6.1														
-6.5-6.6														
-6.9-7.0														
AQMW01-0-1.0				BAG					X					
" -1.0-1.7														
AQMW02-0-1.0									X					
MW02-0-0.1				1x PFAS + ice										
" -0.2-0.3				1x ice										

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE: 12/5/22 OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: DATE: 13/05/22 10:00 AM OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C
NAME: DATE: OF:	CONSIGNMENT NOTE NO. TRANSPORT CO	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... 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

#890110 & 890111

PAGE 1 of 18

Chain of Custody

JBS&G

PROJECT NO.: 62742	LABORATORY BATCH NO.:
PROJECT NAME:	SAMPLERS:
DATE NEEDED BY:	QC LEVEL: NEPM (2013)

PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	HM	PAH	TRH/BTEX	Asbestos	OCP/PCB	PFAs	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
MW02-0.5-0.6	SOIL	9/5/22		1 ice										
-1.0-1.1														
-1.5-1.6														
-2.0-2.1														
-2.5-2.6						X	X	X		X				
-3.0-3.1														
-3.5-3.6														
-4.0-4.1														
-4.5-4.6														
-5.0-5.1														
-6.0-6.1														
-7.0-7.1														
-7.5-7.6														
-6.5-6.6														
-8.0-8.1														
-9.0-9.1														
-9.5-9.6														
-10.0-10.1														
-10.9-11.0														

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE: 12/5/22	CONSIGNMENT NOTE NO.	NAME:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE:	
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

Chain of Custody

JBS&G

PROJECT NO.: 62742
PROJECT NAME:
DATE NEEDED BY:

LABORATORY BATCH NO.:
SAMPLERS:
QC LEVEL: NEPM (2013)

PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113

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COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	HM	PAH	TRH/BTEX	Asbestos	OCPs/PCB	PFA	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
MW03 - 0-0.1	9/5/21	Soil		J+ PFAS + ice		X	X	X						
- 0.3-0.4				J+ ICE										
- 0.5-0.6														
-1.0 -1.1														
-1.5 -1.6														
-2.0 -2.1														
-2.5-2.6														
-3.0 -3.1														
-3.5 -3.6														
-4.0 -4.1														
-4.5 -4.6														
-5.0 -5.1														
-5.5 -5.6														
-6.0 -6.1														
-6.5 -6.6														
-7.0 -7.1														
-7.5-7.6														
-8.0-8.1														
-8.5-8.6														

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE: 12/5/22	CONSIGNMENT NOTE NO.	NAME:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE:	
		OF:	COOLER TEMP ..... 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

Chain of Custody

JBS&G

PROJECT NO.: 62742
PROJECT NAME:
DATE NEEDED BY:

LABORATORY BATCH NO.:
SAMPLERS:
QC LEVEL: NEPM (2013)

PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113

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COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	HM	PAH	TRH/BTEX	Asbestos	OCPs/PCB	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
MW03-9.0-9.1	SOIL	9/5/22		J+ice										
AQ MW03-0-0.8		"		BAG					X					
AQ MW04-0-0.5		10/5/22		BAG					X					
MW04-0-0.1				J+PFAS+ice		X	X	X			X			
-0.3-0.4				J+ice										
-0.5-0.6														
-1.0-1.1														
-1.5-1.6														
-2.0-2.1														
-2.5-2.6														
-3.0-3.1														
-3.5-3.6														
-4.0-4.1														
-4.5-4.6														
-5.0-5.1														
-5.5-5.6														
-6.0-6.1														
-6.5-6.6														
-7.0-7.1														

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE: 12/5/22 OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C
NAME: DATE: OF:	CONSIGNMENT NOTE NO. TRANSPORT CO	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... 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

Chain of Custody

JBS&G

PROJECT NO.: 62743

PROJECT NAME:

DATE NEEDED BY:

LABORATORY BATCH NO.:

SAMPLERS:

QC LEVEL: NEPM (2013)

PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113

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COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	HM	PAH	TRH/BTEX	Asbestos	OCPs/PCBs	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
MW04-7.5-7.6	SOIL	10/5/22		J + ice										
-8.0-8.1														
-8.5-8.6														
-9.0-9.1														
-9.5-9.6														
-10.0-10.1														
SB01 - 0-0.1				J + PFAS + ice										
-0.3-0.4				J + ice		X	X	X		X				
-0.5-0.6														
-0.7-0.8				J + B + ice		X	X	X						
-1.0-1.1				J + ice										
-1.5-1.6				"										
AQSB01-0-0.5				BAG					X					
AQSB02-0-1.0		12/5/22		"					X					
SB02-0-0.1				J + PFAS + ice						X				
-0.3-0.4				J + ice										
-0.5-0.6														
-0.7-0.8						X	X	X						
-1.0-1.1														

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE: 12/5/22	CONSIGNMENT NOTE NO.	NAME:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: OF:	COOLER TEMP ..... 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

Chain of Custody

JBS&G

PROJECT NO.: 62742	LABORATORY BATCH NO.:
PROJECT NAME:	SAMPLERS:
DATE NEEDED BY:	QC LEVEL: NEPM (2013)

PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	HM	PAH	TRH/BTEX	Asbestos	OCPs/PCBs	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
SB02 -1.5-1.6	SOIL	12/5/22		J+ ice										
" -1.9-2.0	"	"		"										
SB03 -0-0.1		10/5/22		J+ PFAS tick		X								
-0.3-0.4				J+ ice										
-0.5-0.6														
-1.0-1.1														
-1.5-1.6														
AQSB03-0-1.0				BAG					X					
SB04 -0-0.1				J+ PFAS tick										
-0.2-0.3				J+ ice		X								
-0.5-0.6														
-1.0-1.1														
-1.5-1.6														
-2.0-2.1														
AQSB04_0-1.0				BAG					X					
AQSB04_1-1.3				Bag					X					

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE: 12/5/22	CONSIGNMENT NOTE NO.	NAME:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: OF:	COOLER TEMP ..... 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

Chain of Custody

JBS&G

PROJECT NO.: 62742	LABORATORY BATCH NO.:
PROJECT NAME:	SAMPLERS:
DATE NEEDED BY:	QC LEVEL: NEPM (2013)

PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113

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COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	HM	PAH	TRH/BTEX	Asbestos	OCPs/PCBs	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
SB05-0-0.1	SOIL	10/5/22		PFAS + J + ice		X	X	X		X	X			
-0.3-0.4		20/5/22		J + ice										
-0.5-0.6														
-1.0-1.1														
-1.5-1.6														
AQSB05-0-1.0				BAG					X					
AQSB06 0-1.0				BAG					X					
SB06-0.15-0.25				PFAS + J + ice										
-0.5-0.6				J + ice										
-0.7-0.8														
-1.0-1.1						X	X	X						
-1.3-1.4														
-1.6-1.7														
AQSB07-0-0.8				BAG					X					
SB07-0.2-0.3				J + PFAS + ice		X				X				
-0.5-0.6				J + ice										
-1.0-1.1				"										
AQSB08-0-0.4		11/5/22		BAG					X		X			
SB08-0-0.1		11/5/22		J + ice + PFAS										

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE: 12/5/22	CONSIGNMENT NOTE NO.	NAME:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE:	
		OF:	COOLER TEMP ..... 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

Chain of Custody

JBS&G

PROJECT NO.: 62742	LABORATORY BATCH NO.:
PROJECT NAME: Hunnyswood	SAMPLERS:
DATE NEEDED BY: Standard	QC LEVEL: NEPM (2013)

PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	HM	PAH	TRH/BTEX	Asbestos	OCPs/PCBs	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
SB08 - 0.3-0.4	SOIL	11/5/22		J + ice		X	X							
↓ - 0.5-0.6	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
↓ - 0.8-0.9														
ACSB09 - 0 - 0.4				B					X					
SB09 - 0-0.1				J + PFAS + ice										
↓ - 0.3-0.4				J + ice		X	X							
↓ - 0.5-0.6				↓										
↓ - 0.8-0.9														
SB10 - 0 - 0.1				J + PFAS + ice										
↓ - 0.3-0.4				J + ice		X	X	X						
↓ - 0.5-0.6				↓										
↓ - 1.0-1.1														
↓ - 1.5-1.6						X	X	X						
↓ - 1.9-2.0														
↓ - 2.5-2.6														
↓ - 3.0-3.5														
↓ - 3.5-3.6														
ACSB10 - 0-1.0				BAG					X					
" " - 1.0-2.0				" "					X					

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE: 12/5/22	CONSIGNMENT NOTE NO.	NAME:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: OF:	COOLER TEMP ..... 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

Chain of Custody

JBS&G

PROJECT NO.: 62742 | LABORATORY BATCH NO.:

PROJECT NAME: | SAMPLERS:

DATE NEEDED BY: | QC LEVEL: NEPM (2013)

PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	HM	PAH	TRH/BTEX	Asbestos	OCP/PCB	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
AQSB11 ~~[illegible]~~ - 0 - 1.0	SOIL	11/5/22		BAG					X					
AQSB11 - 1.0 - 2.0				BAG					X					
SB11 - 0 - 0.1				J + PFAS + ice										
- 0.3 - 0.4				J + ice										
- 0.5 - 0.6														
- 1.0 - 1.1														
- 1.5 - 1.6						X	X	X						
- 1.9 - 2.0														
SB12 - 0 - 0.1				J + PFAS + ice		X								
- 0.3 - 0.4				J + ice										
- 0.5 - 0.6														
- 0.9 - 1.0														
AQSB12 - 0 - 0.7				BAG					X					
AQSB13 - 0 - 0.8				"										
SB13 - 0 - 0.1				J + ~~PFAS~~ + ice		X								
- 0.3 - 0.4				J + ice										
- 0.5 - 0.6														
- 0.8 - 0.9														.
- 1.1 - 1.2														

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE: 12/5/22	CONSIGNMENT NOTE NO.	NAME:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: OF:	COOLER TEMP ..... 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

Chain of Custody

JBS&G

PROJECT NO.: ~~98258~~ 62742

PROJECT NAME: ~~MPW~~

DATE NEEDED BY:

LABORATORY BATCH NO.:

SAMPLERS:

QC LEVEL: NEPM (2013)

PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) ~~kv...@jbsg.com.au~~; (3) ~~ehowley~~@jbsg.com.au ; kalamango, lbeevors, ~~carsen...~~, ~~anne...~~

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

* AQ SB16 label should say "0.2-0.6" not "0-0.6"

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	HM	PAH	TPH/BTEX	Asbestos	OCP/PCB	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
AQSB14-0-0.2	Soil	11/5/22		BAG					X					
SB14-0-0.1				J+PFAS+ice										
-0.3-0.4				J+ice		X								
-0.5-0.6				"										
AQSB15-0-0.7				B					X					
SB15-0-0.1				J+PFAS+ice		X								
-0.3-0.4				J+ice										
-0.5-0.6				↓										
-1.0-1.1				↓										
AQSB16-0.2-0.6				BAG					X					
SB16-0.2-0.6				J+PFAS+ice		X	X							
-0.6-0.7				J+ice										
-1.0-1.1				↓										
-1.5-1.6				↓										
SB17-0.1-0.2				J+PFAS+ice		X	X	X		X	X			
-0.3-0.4				J+ice										
-0.7-0.8				"										
SB18-0.1-0.2				J+PFAS+ice		X	X	X						
-0.5-0.6				J+ice										

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE: 12/5/22	CONSIGNMENT NOTE NO.	NAME:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE:	
		OF:	COOLER TEMP ..... 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

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Chain of Custody

JBS&G

PROJECT NO.: [redacted] 62742	LABORATORY BATCH NO.:
PROJECT NAME: MP[redacted]	SAMPLERS:
DATE NEEDED BY:	QC LEVEL: NEPM (2013)

PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; [redacted]

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	HM	PAH	TRH/BTEX	Asbestos	OCP/PCB	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
SB18 - 0.7 - 0.8	SOIL	11/5/22		J + ice										
" " - 1.1 - 1.2				"										
AQSB19 - 0 - 0.1				BAG					X					
SB19 - 0.3 - 0.4				J + ice		X								
- 0.5 - 0.6				↓										
- 0.9 - 1.0														
- 0 - 0.1				J + PFAS tice										
SB20 - 0 - 0.1				J + PFAS + ice						X				
- 0.3 - 0.4				J + ice		X								
- 0.5 - 0.6				↓										
- 1.0 - 1.1														
AQSB20 - 0 - 0.1				BAG					X					
SB21 - 0 - 0.2				J + ice		X	X	X	X					
- 0.2 - 0.3				↓		X	X	X						
- 0.5 - 0.6														
- 1.0 - 1.1														
TP01 - 0 - 0.1				J + PFAS + ice										
- 0.5 - 0.6				J + ice										
- 1.0 - 1.1				"		X	X	X						

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: [redacted] DATE: 12/5/22	CONSIGNMENT NOTE NO.	NAME:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: OF:	COOLER TEMP ..... 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

Chain of Custody

JBS&G

PROJECT NO.: 62742	LABORATORY BATCH NO.:
PROJECT NAME:	SAMPLERS:
DATE NEEDED BY:	QC LEVEL: NEPM (2013)

PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113

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COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	HM	PAH	TRH BTEX	Asbestos	OCP PCB	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
TP01 - 1.5-1.6	Soil	11/5/22		Jtub		X	X	X						
-2.0-2.1														
-2.5-2.6														
-3.0-3.1														
AQTP01 - 0-1.0				Bag					X					
-1.0-1.3														
-1.3-2.1														
AQTP02 - 0-0.2									X					
" - 0.2-1.2									X					
TP02 - 0-0.1				Jtub PFAS tub		X	X	X		X				
-0.5-0.6				Jtub										
-1.0-1.1														
-1.5-1.6														
-2.0-2.1														
-2.5-2.6														1
TP03 - 0-0.1				Jtub PFAS tub		X	X	X						
-0.5-0.6				Jtub										
-1.0-1.1														
-1.5-1.6														

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: OF:	COOLER TEMP ..... 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

Chain of Custody

JBS&G

PROJECT NO.: 62742	LABORATORY BATCH NO.:
PROJECT NAME:	SAMPLERS:
DATE NEEDED BY:	QC LEVEL: NEPM (2013)

PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113

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COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	HM	PAH	TRH / BTEX	Asbestos	OCP / PCB's	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
TP03 -2.0-2.1	SOIL	~~11~~ 11/5/22		J + ice ~~ice~~										
AQTP03 -0-0.1				BAG					X					
-0.1-1.1									X					
-1.1-1.4														
AQTP04 -0-0.1									X					
-0.1-0.4									X					
-0.4-1.4														
-1.4-1.7														
TP04 -0-0.1				J + PFAS + ice										
-0.2-0.3				J + ice		X	X	X						
-0.5-0.6														
-1.0-1.1														
-1.5-1.6														
-2.0-2.1														
AQTP05 -0-0.2				BAG					X					
" -0.2-1.2				"					X					
TP05 -0-0.1				PFAS + J + ice		X	X	X		X				
-0.5-0.6				J + ice										
-1.0-1.1				"		X								

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE: 12/5/22	CONSIGNMENT NOTE NO.	NAME:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: OF:	COOLER TEMP ..... 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

Chain of Custody

JBS&G

PROJECT NO.: 62742	LABORATORY BATCH NO.:
PROJECT NAME:	SAMPLERS:
DATE NEEDED BY:	QC LEVEL: NEPM (2013)

PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113

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COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	HM	PAH	TRH/BTEX	Asbestos	OCP/PCBs	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
TP05-1.5-1.6	SOIL	11/5/22		J + ice										
" -2.0-2.1	"	"		"										
AQTP06 -0-0.1				BAG					X					
-0.1-1.0				↓										
↓ -1.9-2.8				↓										
TP06 -0-0.1				J + PFAS + ice		X	X	X			X			
-0.5-0.6				J + ice										
-1.0-1.1				↓										
-1.5-1.6				↓										
-2.0-2.1				↓										
-2.5-2.6				↓										
-3.0-3.1				↓										
AQTP07 -0-0.2				BAG										
↓ -0.2-1.1				↓					X					
↓ -1.1-2.0				↓										
TP07 -0-0.1				J + PFAS + ice										
-0.5-0.6				J + ice										
-1.0-1.1				↓										
-1.5-1.6				↓		X	X	X						

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE: 12/5/22	CONSIGNMENT NOTE NO.	NAME:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: OF:	COOLER TEMP ..... 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

Chain of Custody

JBS&G

PROJECT NO.: 62742	LABORATORY BATCH NO.:
PROJECT NAME:	SAMPLERS:
DATE NEEDED BY:	QC LEVEL: NEPM (2013)

PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	HM	PAH	TRH	BTEX	As Asbestos	OCP	PCB	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
TP07 - 2.0-2.1	Soil	11/5/22		J + Ice												
" - 2.5-2.6				↓												
TP08 - 0-0.1				J + ~~PFAS~~												
- 0.5-0.6				J + Ice		X	X	X								
- 1.0-1.1																
- 1.5-1.6																
- 2.0-2.1																
- 2.5-2.6																
- 3.0-3.1																
- 3.5-3.6																
AE TP08 - 0-0.4				2SAG					X							
- 0.4-1.4									X							
- 1.4-1.8																
- 1.8-2.8																
- 2.8-3.8																
AE TP09 - 0-0.4				BAG					X							
- 0.4-1.1																
- 1.1-2.1																
- 2.1-2.7																

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE: 12/5/22	CONSIGNMENT NOTE NO.	NAME:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: OF:	COOLER TEMP ..... 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

Page 1 of 18

Chain of Custody

JBS&G

PROJECT NO.: 62742	LABORATORY BATCH NO.:
PROJECT NAME:	SAMPLERS:
DATE NEEDED BY:	QC LEVEL: NEPM (2013)

PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113

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COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	TRH	BTEX	PAH	Asbestos	OCP/PCB	PFAS *	VOCs	TRH	Isopropanol	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
AQTP10-0-0.3	SOIL	4/5/22		BAG													* $260 method
-0.3-0.5	↓	↓		↓ Bag					X								
~~-0.5-1.0~~				~~Bag~~													
~~-1.0-1.5~~				~~Bag~~													
TP10-0-0.1				J + PFAS + ice													
-0.5-0.6				↓		X	X	X									
-1.0-1.1																	
-1.5-1.6																	
SV1	Soil vapour	9/5/22		Carbon tube								X	X	X			
SV2																	
SV3												X	X	X			
SV4												X	X	X			
SV5						X						X	X	X			
SV6																	
SV7												X	X	X			
QV01												X	X	X			
QC-AQ01	SOIL	9/5/22		BAG													
-AQ02	↓	10/5/22		↓					X								
-AQ03	↓	11/5/22															

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE: 11/5/22	CONSIGNMENT NOTE NO.	NAME:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: OF:	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

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Chain of Custody

JBS&G

PROJECT NO.: 62742

PROJECT NAME:

DATE NEEDED BY:

LABORATORY BATCH NO.:

SAMPLERS:

QC LEVEL: NEPM (2013)

PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113

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COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	HM	PAH	TRH/BTEX	Asbestos	OCP/PCB	PFAS	TRH	VOCs	BTEXN	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
QC-AQ04	SOIL	11/5/22		BAG					X								
QC-01		9/5/22		1J + ice + PFAS		X	X	X		X	X						* low level
-02		"		1J + ice													
-03		10/5/22				X	X	X									
-04		11/5/22															
QC-GW01	WATER	12/5/22		1LA, 4xV, M(F), PFAS + ice													
" -GW02	"	"				X	X				X	X	X				
KINSITE		11/5/22				X	X	X		X	X						
KIN20220509		9/5/22															
" "10		10/5/22															
" "12		12/5/22				X	X	X		X	X	X					
TS/TB		12/5/22		4x J + ice										X			
BLANK		12/5/22		PFAS + ice													
MW01		12/5/22		1LA, 4xV, M(F) PFAS + ice							X						
MW02						X	X				X	X	X				
MW03						X	X				X	X	X				
MW04						X	X				X	X	X				
~~DUPLICATE~~ MWA						X	X				X	X	X				
~~DUPLICATE~~ MWB						X	X				X	X	X				

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE: 12/5/22	CONSIGNMENT NOTE NO.	NAME:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE:	
NAME: DATE:	CONSIGNMENT NOTE NO.	OF:	COOLER TEMP ..... deg C
OF:	TRANSPORT CO	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
		OF:	COOLER TEMP ..... deg C

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Disp 17/5/22

Chain of Custody

JBS&G

PROJECT NO.: 62742	LABORATORY BATCH NO.:
PROJECT NAME:	SAMPLERS:
DATE NEEDED BY:	QC LEVEL: NEPM (2013)

PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113

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COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	HM	PAH*	TCH/BTEX	Asbestos	OCP/PCBs	PFAs	TRH	VOCs*	VOCs [Solvent]	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
V-Blank MW	Soil vapour	9/5/22		carbon tube								X	X	X	X			* low level
MW C	WATER	12/5/22		1 L A, 4 x V, m(F), PFAS Urea		X	X				X	X	X					** 8260 method
MW D	↓	↓		↓		↓	↓				↓	↓	↓					
MW G	↓	↓		↓		↓	↓				↓	↓	↓					
TP09_0-0.1	Soil	11/5/22		J + P														
_0.5-0.6	↓	↓		↓														
_1.0-1.1	↓	↓		↓		X	X	X										
_1.5-1.6	↓	↓		↓														
_2.0-2.1	↓	↓		↓														
_2.5-2.6	↓	↓		↓														
[redacted]												[redacted]	[redacted]					

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: Ali.S DATE: 13/5/22	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	OF: 10:00 Am	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

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890110 & 890111

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, proficiency testing scheme providers and reference materials producers reports and certificates.

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

Attention:	Gina Pinget
Report	890111-AID
Project Name	HUNTINGWOOD
Project ID	62742
Received Date	May 13, 2022
Date Reported	Jun 06, 2022

Methodology:

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

Project Name HUNTINGWOOD
Project ID 62742
Date Sampled May 11, 2022
Report 890111-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
AQTP06-1.9-2.8	22-My0047501	May 11, 2022	Approximate Sample 802g Sample consisted of: Brown fine-grained clayey soil, bitumen, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ TP10-0-0.3	22-My0047528	May 11, 2022	Approximate Sample 530g Sample consisted of: Brown coarse-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.
AQ TP10-0.4-1.1	22-My0047529	May 11, 2022	Approximate Sample 609g Sample consisted of: Brown coarse-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.
AQ TP06-1.0-1.9 (BAG)	22-My0051483	May 11, 2022	Approximate Sample 245g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.01% 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 03, 2022	Indefinite
Asbestos - LTM-ASB-8020	Sydney	Jun 03, 2022	Indefinite

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NATA # 1261 Site # 1254

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NATA # 1261 Site # 18217

Brisbane
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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: HUNTINGWOOD
Project ID: 62742

Order No.:
Report #: 890111
Phone: 02 8245 0300
Fax:

Received: May 13, 2022 10:00 AM
Due: May 20, 2022
Priority: 5 Day
Contact Name: Gina Pinget

Eurofins Analytical Services Manager : Hannah Mawbey

Sample Detail						Asbestos - AS4964	Asbestos - WA guidelines	CANCELLED	HOLD
Melbourne Laboratory - NATA # 1261 Site # 1254									
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**				
1	SB16-0.6-0.7	May 11, 2022		Soil	S22-My0047458				X
2	SB16-1.0-1.1	May 11, 2022		Soil	S22-My0047459				X
3	SB16-1.5-1.6	May 11, 2022		Soil	S22-My0047460				X
4	SB17-0.3-0.4	May 11, 2022		Soil	S22-My0047461				X
5	SB17-0.7-0.8	May 11, 2022		Soil	S22-My0047462				X
6	SB18-0.5-0.6	May 11, 2022		Soil	S22-				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: HUNTINGWOOD
Project ID: 62742

Order No.:
Report #: 890111
Phone: 02 8245 0300
Fax:

Received: May 13, 2022 10:00 AM
Due: May 20, 2022
Priority: 5 Day
Contact Name: Gina Pinget

Eurofins Analytical Services Manager : Hannah Mawbey

Sample Detail						Asbestos - AS4964	Asbestos - WA guidelines	CANCELLED	HOLD
Melbourne Laboratory - NATA # 1261 Site # 1254									
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
					My0047463				
7	SB18-0.7-0.8	May 11, 2022		Soil	S22-My0047464				X
8	SB18-1.1-1.2	May 11, 2022		Soil	S22-My0047465				X
9	SB19-0.5-0.6	May 11, 2022		Soil	S22-My0047466				X
10	SB19-0.9-1.0	May 11, 2022		Soil	S22-My0047467				X
11	SB19-0-0.1	May 11, 2022		Soil	S22-My0047468				X
12	SB20-0.5-0.6	May 11, 2022		Soil	S22-My0047469				X

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
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Project Name: HUNTINGWOOD
Project ID: 62742

Order No.:
Report #: 890111
Phone: 02 8245 0300
Fax:

Received: May 13, 2022 10:00 AM
Due: May 20, 2022
Priority: 5 Day
Contact Name: Gina Pinget

Eurofins Analytical Services Manager : Hannah Mawbey

Sample Detail						Asbestos - AS4964	Asbestos - WA guidelines	CANCELLED	HOLD
Melbourne Laboratory - NATA # 1261 Site # 1254									
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
13	SB20-1.0-1.1	May 11, 2022		Soil	S22-My0047470				X
14	SB21-0.5-0.6	May 11, 2022		Soil	S22-My0047471				X
15	SB21-1.0-1.1	May 11, 2022		Soil	S22-My0047472				X
16	TP01-0-0.1	May 11, 2022		Soil	S22-My0047473				X
17	TP01-0.5-0.6	May 11, 2022		Soil	S22-My0047474				X
18	TP01-2.0-2.1	May 11, 2022		Soil	S22-My0047475				X
19	TP01-2.5-2.6	May 11, 2022		Soil	S22-				X

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

Project Name: HUNTINGWOOD
Project ID: 62742

Order No.:
Report #: 890111
Phone: 02 8245 0300
Fax:

Received: May 13, 2022 10:00 AM
Due: May 20, 2022
Priority: 5 Day
Contact Name: Gina Pinget

Eurofins Analytical Services Manager : Hannah Mawbey

Sample Detail						Asbestos - AS4964	Asbestos - WA guidelines	CANCELLED	HOLD
Melbourne Laboratory - NATA # 1261 Site # 1254									
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
					My0047476				
20	TP01-3.0-3.1	May 11, 2022		Soil	S22-My0047477				X
21	AQ TP01-1.0-1.3	May 11, 2022		Soil	S22-My0047478				X
22	AQ TP01-1.3-2.1	May 11, 2022		Soil	S22-My0047479				X
23	TP02-0.5-0.6	May 11, 2022		Soil	S22-My0047480				X
24	TP02-1.0-1.1	May 11, 2022		Soil	S22-My0047481				X
25	TP02-1.5-1.6	May 11, 2022		Soil	S22-My0047482				X

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Eurofins Analytical Services Manager : Hannah Mawbey

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Melbourne Laboratory - NATA # 1261 Site # 1254									
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
26	TP02-2.0-2.1	May 11, 2022		Soil	S22-My0047483				X
27	TP02-2.5-2.6	May 11, 2022		Soil	S22-My0047484				X
28	TP03-0.5-0.6	May 11, 2022		Soil	S22-My0047485				X
29	TP03-1.0-1.1	May 11, 2022		Soil	S22-My0047486				X
30	TP03-1.5-1.6	May 11, 2022		Soil	S22-My0047487				X
31	TP03-2.0-2.1	May 11, 2022		Soil	S22-My0047488				X
32	AQTP03-1.1-	May 11, 2022		Soil	S22-				X

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Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	1.4				My0047489				
33	AQ TP04-0.4-1.4	May 11, 2022		Soil	S22-My0047490				X
34	AQ TP04-1.4-1.7	May 11, 2022		Soil	S22-My0047491				X
35	TP04-0-0.1	May 11, 2022		Soil	S22-My0047492				X
36	TP04-0.5-0.6	May 11, 2022		Soil	S22-My0047493				X
37	TP04-1.0-1.1	May 11, 2022		Soil	S22-My0047494				X
38	TP04-1.5-1.6	May 11, 2022		Soil	S22-My0047495				X

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Melbourne Laboratory - NATA # 1261 Site # 1254									
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
39	TP04-2.0-2.1	May 11, 2022		Soil	S22-My0047496				X
40	TP05-0.5-0.6	May 11, 2022		Soil	S22-My0047497				X
41	TP05-1.5-1.6	May 11, 2022		Soil	S22-My0047498				X
42	TP05-2.0-2.1	May 11, 2022		Soil	S22-My0047499				X
43	AQTP06-0.1-1.0	May 11, 2022		Soil	S22-My0047500			X	
44	AQTP06-1.9-2.8	May 11, 2022		Soil	S22-My0047501		X		
45	TP06-0.5-0.6	May 11, 2022		Soil	S22-				X

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Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
					My0047502				
46	TP06-1.0-1.1	May 11, 2022		Soil	S22-My0047503				X
47	TP06-1.5-1.6	May 11, 2022		Soil	S22-My0047504				X
48	TP06-2.0-2.1	May 11, 2022		Soil	S22-My0047505				X
49	TP06-2.5-2.6	May 11, 2022		Soil	S22-My0047506				X
50	TP06-3.0-3.1	May 11, 2022		Soil	S22-My0047507				X
51	AQ TP07-0-0.2	May 11, 2022		Soil	S22-My0047508				X

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Melbourne Laboratory - NATA # 1261 Site # 1254									
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
52	AQ TP07-1.1-2.0	May 11, 2022		Soil	S22-My0047509				X
53	TP07-0-0.1	May 11, 2022		Soil	S22-My0047510				X
54	TP07-0.5-0.6	May 11, 2022		Soil	S22-My0047511				X
55	TP07-1.0-1.1	May 11, 2022		Soil	S22-My0047512				X
56	TP07-2.0-2.1	May 11, 2022		Soil	S22-My0047513				X
57	TP07-2.5-2.6	May 11, 2022		Soil	S22-My0047514				X
58	TP08-0-0.1	May 11, 2022		Soil	S22-				X

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Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
					My0047515				
59	TP08-1.0-1.1	May 11, 2022		Soil	S22-My0047516				X
60	TP08-1.5-1.6	May 11, 2022		Soil	S22-My0047517				X
61	TP08-2.0-2.1	May 11, 2022		Soil	S22-My0047518				X
62	TP08-2.5-2.6	May 11, 2022		Soil	S22-My0047519				X
63	TP08-3.0-3.1	May 11, 2022		Soil	S22-My0047520				X
64	TP08-3.5-3.6	May 11, 2022		Soil	S22-My0047521				X

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Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
65	AQ TP08-1.4-1.8	May 11, 2022		Soil	S22-My0047522				X
66	AQ TP08-1.8-2.8	May 11, 2022		Soil	S22-My0047523				X
67	AQ TP09-0-0.4	May 11, 2022		Soil	S22-My0047525				X
68	AQ TP09-1.1-2.1	May 11, 2022		Soil	S22-My0047526			X	
69	AQ TP09-2.1-2.7	May 11, 2022		Soil	S22-My0047527			X	
70	AQ TP10-0-0.3	May 11, 2022		Soil	S22-My0047528		X		
71	AQ TP10-0.4-	May 11, 2022		Soil	S22-		X		

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Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	1.1				My0047529				
72	TP10-1.0-1.1	May 11, 2022		Soil	S22-My0047530			X	
73	TP10-1.5-1.6	May 11, 2022		Soil	S22-My0047531			X	
74	SV2 (FRONT)	May 09, 2022		Air	S22-My0047532				X
75	SV2 (BACK)	May 09, 2022		Air	S22-My0047533				X
76	SV6 (FRONT)	May 09, 2022		Air	S22-My0047534				X
77	SV6 (BACK)	May 09, 2022		Air	S22-My0047535				X

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Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
78	QC-AQ 01	May 09, 2022		Soil	S22-My0047536				X
79	QC-AQ 03	May 11, 2022		Soil	S22-My0047537				X
80	QC-02	May 09, 2022		Soil	S22-My0047538				X
81	QC-04	May 11, 2022		Soil	S22-My0047539				X
82	QC-GW01	May 12, 2022		Water	S22-My0047540				X
83	TP09-0-0.1	May 11, 2022		Soil	S22-My0047541				X
84	TP09-0.5-0.6	May 11, 2022		Soil	S22-				X

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

Project Name: HUNTINGWOOD
Project ID: 62742

Order No.:
Report #: 890111
Phone: 02 8245 0300
Fax:

Received: May 13, 2022 10:00 AM
Due: May 20, 2022
Priority: 5 Day
Contact Name: Gina Pinget

Eurofins Analytical Services Manager : Hannah Mawbey

Sample Detail						Asbestos - AS4964	Asbestos - WA guidelines	CANCELLED	HOLD
Melbourne Laboratory - NATA # 1261 Site # 1254									
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
					My0047542				
85	TP09-1.5-1.6	May 11, 2022		Soil	S22-My0047543				X
86	TP09-2.0-2.1	May 11, 2022		Soil	S22-My0047544				X
87	TP09-2.5-2.6	May 11, 2022		Soil	S22-My0047545				X
88	MW01-3.5-3.6 (JAR)	May 11, 2022		Soil	S22-My0051474				X
89	MW01-5.5-5.6 (JAR)	May 11, 2022		Soil	S22-My0051475				X
90	MW02-1.0-2.0 (BAG)	May 11, 2022		Soil	S22-My0051476				X

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Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
91	MW02-2.0-3.0 (BAG)	May 11, 2022		Soil	S22-My0051477				X
92	MW02-3.0-4.0 (BAG)	May 11, 2022		Soil	S22-My0051478				X
93	MW02-4-5 (BAG)	May 11, 2022		Soil	S22-My0051479				X
94	MW02-5.5-5.6 (JAR)	May 11, 2022		Soil	S22-My0051480				X
95	MW02-8.5-8.6 (JAR)	May 11, 2022		Soil	S22-My0051481				X
96	SB13-0.5-0.6 (JAR)	May 11, 2022		Soil	S22-My0051482				X
97	AQ TP06-1.0-	May 11, 2022		Soil	S22-	X			

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Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	1.9 (BAG)				My0051483				
98	AQ TP09 (3 BAGS)	May 11, 2022		Soil	S22-My0051484				X
99	AQ-QC-0.5 (2 BAGS)	May 11, 2022		Soil	S22-My0051485				X
100	UNLABELLED JAR-1	May 11, 2022		Soil	S22-My0051486				X
101	UNLABELLED JAR-2	May 11, 2022		Soil	S22-My0051487				X
102	UNLABELLED JAR-3	May 11, 2022		Soil	S22-My0051488				X
103	UNLABELLED JAR-4	May 11, 2022		Soil	S22-My0051489				X

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Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
104	QA04 (JAR)	May 11, 2022		Soil	S22-My0051490				X
105	QA GW-01 (4 VILAS+1 METAL BOTTLE+ BIG AMBER BOTTLE	May 11, 2022		Soil	S22-My0051491				X
106	UNLABELLED PFAS TUB-1	May 11, 2022		Soil	S22-My0051492				X
107	UNLABELLED PFAS TUB-2	May 11, 2022		Soil	S22-My0051493				X
108	UNLABELLED PFAS TUB-3	May 11, 2022		Soil	S22-My0051494				X

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Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
109	UNLABELLED PFAS TUB-4	May 11, 2022		Soil	S22-My0051495				X
110	UNLABELLED PFAS TUB-5	May 11, 2022		Soil	S22-My0051496				X
111	UNLABELLED PFAS TUB-6	May 11, 2022		Soil	S22-My0051497				X
112	UNLABELLED PFAS TUB-7	May 11, 2022		Soil	S22-My0051498				X
113	MW02-0-1.0 (BAG)	May 11, 2022		Soil	S22-My0051506				X
114	TP06-0-1.0 (BAG)	May 11, 2022		Soil	S22-My0051507				X
Test Counts						1	3	5	105

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 the colour **blue** indicates data provided by customer that may have an impact on the results.
5. Information identified on this report with the colour **orange** indicates sections of the report not covered by the laboratory's scope of NATA accreditation.
6. This report replaces any interim results previously issued.

Holding Times

Please refer to the most recent version of the 'Sample Preservation and Container Guide' for holding times (QS3001).
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:	Percentage weight-for-weight basis, e.g. of asbestos in asbestos-containing finds in soil samples (**% w/w**)
F/fld	Airborne fibre filter loading as Fibres (**N**) per Fields counted (**n**)
F/mL	Airborne fibre reported concentration as Fibres per millilitre of air drawn over the sampler membrane (**C**)
g, kg	Mass, e.g. of whole sample (**M**) or asbestos-containing find within the sample (**m**)
g/kg	Concentration in grams per kilogram
L, mL	Volume, e.g. of air as measured in AFM (**V** = **r** x **t**)
L/min	Airborne fibre sampling Flowrate as litres per minute of air drawn over the sampler membrane (**r**)
min	Time (**t**), e.g. of air sample collection period

Calculations

Airborne Fibre Concentration: $C = \left(\frac{A}{a}\right) \times \left(\frac{N}{n}\right) \times \left(\frac{1}{r}\right) \times \left(\frac{1}{t}\right) = K \times \left(\frac{N}{n}\right) \times \left(\frac{1}{V}\right)$

Asbestos Content (as asbestos): $\%\, w/w = \frac{(m \times P_A)}{M}$

Weighted Average (of asbestos): $\%_{WA} = \sum \frac{(m \times P_A)_x}{x}$

Terms

%asbestos	Estimated percentage of asbestos in a given matrix. May be derived from knowledge or experience of the material, informed by HSG264 *Appendix 2*, else assumed to be 15% in accordance with WA DOH *Appendix 2* (**P_A**).
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded (non-friable) condition. For the purposes of the NEPM and WA DOH, ACM corresponds to material larger than 7 mm x 7 mm.
AF	Asbestos Fines. Asbestos contamination within a soil sample, as defined by WA DOH. Includes loose fibre bundles and small pieces of friable and non-friable material such as asbestos cement fragments mixed with soil. Considered under the NEPM as equivalent to "non-bonded / friable".
AFM	Airborne Fibre Monitoring, e.g. by the MFM.
Amosite	Amosite Asbestos Detected. Amosite may also refer to Fibrous Grunerite or Brown Asbestos. Identified in accordance with AS 4964-2004.
AS	Australian Standard.
Asbestos Content (as asbestos)	Total % w/w asbestos content in asbestos-containing finds in a soil sample (**% w/w**).
Chrysotile	Chrysotile Asbestos Detected. Chrysotile may also refer to Fibrous Serpentine or White Asbestos. Identified in accordance with AS 4964-2004.
COC	Chain of Custody.
Crocidolite	Crocidolite Asbestos Detected. Crocidolite may also refer to Fibrous Riebeckite or Blue Asbestos. Identified in accordance with AS 4964-2004.
Dry	Sample is dried by heating prior to analysis.
DS	Dispersion Staining. Technique required for Unequivocal Identification of asbestos fibres by PLM.
FA	Fibrous Asbestos. Asbestos containing material that is wholly or in part friable, including materials with higher asbestos content with a propensity to become friable with handling, and any material that was previously non-friable and in a severely degraded condition. For the purposes of the NEPM and WA DOH, FA generally corresponds to material larger than 7 mm x 7 mm, although FA may be more difficult to visibly distinguish and may be assessed as AF.
Fibre Count	Total of all fibres (whether asbestos or not) meeting the counting criteria set out in the NOHSC:3003
Fibre ID	Fibre Identification. Unequivocal identification of asbestos fibres according to AS 4964-2004. Includes Chrysotile, Amosite (Grunerite) or Crocidolite asbestos.
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.
HSG248	UK HSE HSG248, *Asbestos: The Analysts Guide*, 2nd Edition (2021).
HSG264	UK HSE HSG264, *Asbestos: The Survey Guide* (2012).
ISO (also ISO/IEC)	International Organization for Standardization / International Electrotechnical Commission.
K Factor	Microscope constant (**K**) as derived from the effective filter area of the given AFM membrane used for collecting the sample (**A**) and the projected eyepiece graticule area of the specific microscope used for the analysis (**a**).
LOR	Limit of Reporting.
MFM (also NOHSC:3003)	Membrane Filter Method. As described by the Australian Government National Occupational Health and Safety Commission, *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres*, 2nd Edition [NOHSC:3003(2005)].
NEPM (also ASC NEPM)	National Environment Protection (Assessment of Site Contamination) Measure, (2013, as amended).
Organic	Organic Fibres Detected. Organic may refer to Natural or Man-Made Polymeric Fibres. Identified in accordance with AS 4964-2004.
PCM	Phase Contrast Microscopy. As used for Fibre Counting according to the MFM.
PLM	Polarised Light Microscopy. As used for Fibre Identification and Trace Analysis according to AS 4964-2004.
SMF	Synthetic Mineral Fibre Detected. SMF may also refer to Man Made Vitreous Fibres. Identified in accordance with AS 4964-2004.
SRA	Sample Receipt Advice.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres (particularly asbestos) in a given sample matrix.
UK HSE HSG	United Kingdom, Health and Safety Executive, Health and Safety Guidance, publication.
UMF	Unidentified Mineral Fibre Detected. Fibrous minerals that are detected but have not been unequivocally identified by PLM with DS according the AS 4964-2004. May include (but not limited to) Actinolite, Anthophyllite or Tremolite asbestos.
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* (updated 2021), including Appendix Four: *Laboratory analysis*
Weighted Average	Combined average % w/w asbestos content of all asbestos-containing finds in the given aliquot or total soil sample (**$\%_{WA}$**).

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

Asbestos Counter/Identifier:

Sayeed Abu	Senior Analyst-Asbestos
Laxman Dias	Senior Analyst-Asbestos

Authorised by:

Chamath JHM Annakkage	Senior Analyst-Asbestos
Sayeed Abu	Senior Analyst-Asbestos



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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Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Gina Pinget
Project name:	HUNTINGWOOD
Project ID:	62742
Turnaround time:	5 Day
Date/Time received	May 13, 2022 10:00 AM
Eurofins reference	890111

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	Sample Temperature of chilled sample on the batch as recorded by Eurofins Sample Receipt : 6.3 degrees Celsius.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
✓	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
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 Gina Pinget - gpinget@jbsg.com.au.

Eurofins

Chain of Custody

JBS&G

PROJECT NO.: ~~62740~~ 62742
PROJECT NAME: Huntingwood.
DATE NEEDED BY: Standard TAT

LABORATORY BATCH NO.:
SAMPLERS: GP/HD/MD/RS
QC LEVEL: NEPM (2013)

PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) ..g.pugsley.....@jbsg.com.au; (3) ..hdinan.....@jbsg.com.au jnicholson; mdawley

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:
* Please note, job number is 62742, not 62740 (jars labelled incorrectly).

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	HM	PAHs	TRH/BTEX	Asbestos 500mL	OCP/PCB	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
MW01-0-0.1	SOIL	9/5/22		1x PFAS + ice		X	X	X		X	X			
-0.2-0.3				3 x ice										
-0.5-0.6														
-1.0-1.1														
-1.5-1.6								X						
-2.0-2.1														
-2.5-2.6														
-3.0-3.1														
-4.0-4.1														
-4.5-4.6														
-5.0-5.1														
-6.0-6.1														
-6.5-6.6														
-6.9-7.0														
AQMW01-0-1.0				BAG					X					
" -1.0-1.7														
AQMW02-0-1.0									X					
MW02-0-0.1				3 x PFAS + ice										
" -0.2-0.3				3 x ice										

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE: 12/5/22 OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: Alex DATE: 13/05/22 10:00 AM OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C
NAME: DATE: OF:	CONSIGNMENT NOTE NO. TRANSPORT CO	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... 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

#890110 & 890111

PAGE 1 of 18

Chain of Custody

JBS&G

PROJECT NO.: 62742	LABORATORY BATCH NO.:
PROJECT NAME:	SAMPLERS:
DATE NEEDED BY:	QC LEVEL: NEPM (2013)

PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	HM	PAH	TRH/BTEX	Asbestos	OCP/PCB	PFAs	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
MW02-0.5-0.6	SOIL	9/5/22		3 x ice										
-1.0-1.1														
-1.5-1.6														
-2.0-2.1														
-2.5-2.6						X	X	X		X				
-3.0-3.1														
-3.5-3.6														
-4.0-4.1														
-4.5-4.6														
-5.0-5.1														
-6.0-6.1														
-7.0-7.1														
-7.5-7.6														
-6.5-6.6														
-8.0-8.1														
-9.0-9.1														
-9.5-9.6														
-10.0-10.1														
-10.9-11.0														

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE: 12/5/22	CONSIGNMENT NOTE NO.	NAME:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE:	
NAME: DATE:	CONSIGNMENT NOTE NO.	OF:	COOLER TEMP ..... deg C
OF:	TRANSPORT CO	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
		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

Chain of Custody

JBS&G

PROJECT NO.: 67742	LABORATORY BATCH NO.:
PROJECT NAME:	SAMPLERS:
DATE NEEDED BY:	QC LEVEL: NEPM (2013)

PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	HM	PAH	TRH/BTEX	Asbestos	OCPs/PCB	PFA	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
MW03 - 0-0.1	9/5/21	Soil		J+ PFAS + ice		X	X	X						
- 0.3-0.4				J+ ICE										
- 0.5-0.6														
-1.0 -1.1														
-1.5 -1.6														
-2.0 -2.1														
-2.5-2.6														
-3.0 -3.1														
-3.5 -3.6														
-4.0 -4.1														
-4.5 -4.6														
5.0 -5.1														
-5.5 -5.6														
-6.0 -6.1														
-6.5 -6.6														
-7.0 -7.1														
-7.5-7.6														
-8.0-8.1														
-8.5-8.6														

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE: 12/5/22	CONSIGNMENT NOTE NO.	NAME:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE:	
		OF:	COOLER TEMP ..... 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

Chain of Custody

JBS&G

PROJECT NO.: 62742
PROJECT NAME:
DATE NEEDED BY:

LABORATORY BATCH NO.:
SAMPLERS:
QC LEVEL: NEPM (2013)

PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	HM	PAH	TRH/BTEX	Asbestos	OCPs/PCB	PFAs	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
MW03-9.0-9.1	SOIL	9/5/22		J + ice										
AQ MW03-0-0.8	"	"		BAG					X					
AQ MW04-0-0.5		10/5/22		BAG					X					
MW04-0-0.1				J + PFAS + ice		X	X	X			X			
-0.3-0.4				J + ice										
-0.5-0.6														
-1.0-1.1														
-1.5-1.6														
-2.0-2.1														
-2.5-2.6														
-3.0-3.1														
-3.5-3.6														
-4.0-4.1														
-4.5-4.6														
-5.0-5.1														
-5.5-5.6														
-6.0-6.1														
-6.5-6.6														
-7.0-7.1														

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE: 12/5/22 OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C
NAME: DATE: OF:	CONSIGNMENT NOTE NO. TRANSPORT CO	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... 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

Chain of Custody

JBS&G

PROJECT NO.: ~~62742~~ 62742	LABORATORY BATCH NO.:
PROJECT NAME:	SAMPLERS:
DATE NEEDED BY:	QC LEVEL: NEPM (2013)

PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	HM	PAH	TRH/BTEX	Asbestos	OCPs/PCBs	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
MW04-7.5-7.6	SOIL	10/5/22		J + ice										
-8.0-8.1														
-8.5-8.6														
-9.0-9.1														
-9.5-9.6														
-10.0-10.1														
SB01 - 0-0.1				J + PFAS + ice										
-0.3-0.4				J + ice		X	X	X		X				
-0.5-0.6														
-0.7-0.8				J + B + ice		X	X	X						
-1.0-1.1				J + ice										
-1.5-1.6				" "										
~~AQSB01-0-0.5~~		~~10/5/22~~		BAG					X					
AQSB02-0-1.0		12/5/22		"					X					
SB02-0-0.1				J + PFAS + ice						X				
-0.3-0.4				J + ice										
-0.5-0.6														
-0.7-0.8						X	X	X						
-1.0-1.1														

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE: 12/5/22	CONSIGNMENT NOTE NO.	NAME:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: OF:	COOLER TEMP ..... 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

Chain of Custody

JBS&G

PROJECT NO.: 62742	LABORATORY BATCH NO.:
PROJECT NAME:	SAMPLERS:
DATE NEEDED BY:	QC LEVEL: NEPM (2013)

PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113

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COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	HM	PAH	TRH/BTEX	Asbestos	OCPs/PCBs	PFAs	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
SB02 -1.5-1.6	SOIL	12/5/22		J + ice										
a -1.9-2.0	"	"		"										
SB03 - 0-0.1		10/5/22		J + PFAS + ice		X								
-0.3-0.4				J + ice										
-0.5-0.6														
-1.0-1.1														
-1.5-1.6														
AQSB03 - 0-1.0				BAG					X					
SB04 - 0-0.1				J + PFAS + ice										
-0.2-0.3				J + ice		X								
-0.5-0.6														
-1.0-1.1														
-1.5-1.6														
-2.0-2.1														
AQSB04_0-1.0				BAG					X					
AQSB04_1-1.3				Bag					X					

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE: 12/5/22	CONSIGNMENT NOTE NO.	NAME:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: OF:	COOLER TEMP ..... 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

Chain of Custody

JBS&G

PROJECT NO.: 62742	LABORATORY BATCH NO.:
PROJECT NAME:	SAMPLERS:
DATE NEEDED BY:	QC LEVEL: NEPM (2013)

PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113

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COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	HM	PAH	TRH/BTEX	Asbestos	OCPs/PCBs	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
SB05-0-0.1	Soil	10/5/22		PFAS + J + ice		X	X	X		X	X			
-0.3-0.4		20/5/22		J + ice										
-0.5-0.6														
-1.0-1.1														
-1.5-1.6														
AQSB05-0-1.0				BAG					X					
AQSB06 0-1.0				BAG					X					
SB06-0.15-0.25				PFAS + J + ice										
-0.5-0.6				J + ice										
-0.7-0.8														
-1.0-1.1						X	X	X						
-1.3-1.4														
-1.6-1.7														
AQSB07-0-0.8				BAG					X					
SB07-0.2-0.3				J + PFAS + ice		X				X				
-0.5-0.6				J + ice										
-1.0-1.1				"										
AQSB08-0-0.4		11/5/22		BAG					X		X			
SB08-0-0.1		11/5/22		J + ice + PFAS										

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE: 12/5/22	CONSIGNMENT NOTE NO.	NAME:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE:	
		OF:	COOLER TEMP ..... 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

Chain of Custody

JBS&G

PROJECT NO.: 62742	LABORATORY BATCH NO.:
PROJECT NAME: Hunnyngswood	SAMPLERS:
DATE NEEDED BY: Standard	QC LEVEL: NEPM (2013)

PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	HM	PAH	TRH/BTEX	Asbestos	OCPs/PCBs	PFAs	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
SB08 - 0.3-0.4	SOIL	11/5/22		J + ice		X	X							
↓ - 0.5-0.6	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
↓ - 0.8-0.9														
ACSB09 - 0 - 0.4				B					X					
SB09 - 0-0.1				J + PFAS + ice										
↓ - 0.3-0.4				J + ice		X	X							
↓ - 0.5-0.6				↓										
↓ - 0.8-0.9														
SB10 - 0 - 0.1				J + PFAS + ice										
↓ - 0.3-0.4				J + ice		X	X	X						
↓ - 0.5-0.6				↓										
↓ - 1.0-1.1				↓										
↓ - 1.5-1.6				↓		X	X	X						
↓ - 1.9-2.0				↓										
↓ - 2.5-2.6				↓										
↓ - 3.0-3.5				↓										
↓ - 3.5-3.6				↓										
ACSB10 - 0-1.0				BAG					X					
" " - 1.0-2.0				" "					X					

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE: 12/5/22	CONSIGNMENT NOTE NO.	NAME:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: OF:	COOLER TEMP ..... 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

Chain of Custody

JBS&G

PROJECT NO.: 52742	LABORATORY BATCH NO.:
PROJECT NAME:	SAMPLERS:
DATE NEEDED BY:	QC LEVEL: NEPM (2013)

PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	HM	PAH	TRH/BTEX	Asbestos	OCP/PCB	PFAs	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
AQSB11 [illegible] - 0 - 1.0	SOIL	11/5/22		BAG					X					
AQSB11 - 1.0 - 2.0				BAG					X					
SB11 - 0 - 0.1				J + PFAS + ice										
- 0.3 - 0.4				J + ice										
- 0.5 - 0.6														
- 1.0 - 1.1														
- 1.5 - 1.6						X	X	X						
- 1.9 - 2.0														
SB12 - 0 - 0.1				J + PFAS + ice		X								
- 0.3 - 0.4				J + ice										
- 0.5 - 0.6														
- 0.9 - 1.0														
AQSB12 - 0 - 0.7				BAG					X					
AQSB13 - 0 - 0.8				"										
SB13 - 0 - 0.1				J + PFAS + ice		X								
- 0.3 - 0.4				J + ice										
- 0.5 - 0.6														
- 0.8 - 0.9														
- 1.1 - 1.2														

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE: 12/5/22	CONSIGNMENT NOTE NO.	NAME:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: OF:	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO		COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

Chain of Custody

JBS&G

PROJECT NO.: ~~88259~~ 62742
PROJECT NAME: ~~MPW~~
DATE NEEDED BY:
LABORATORY BATCH NO.:
SAMPLERS:
QC LEVEL: NEPM (2013)
PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) ~~kyle.post@jbsg.com.au~~; (3) ~~chowley@jbsg.com.au~~, kalamango, lbeevors, ~~csarsenbach, anedkmott~~

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:
* AQ SB16 label should say "0.2-0.6" not "0-0.6"

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	HM	PAH	TCH/BTEX	Asbestos	OCP/PCB	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
AQSB14-0-0.2	Soil	11/5/22		BAG					X					
SB14-0-0.1				J+PFAS+ice										
-0.3-0.4				J+ice		X								
-0.5-0.6				"										
AQSB15-0-0.7				B					X					
SB15-0-0.1				J+PFAS+ice		X								
-0.3-0.4				J+ice										
-0.5-0.6														
-1.0-1.1														
AQSB16-0.2-0.6				BAG					X					
SB16-0.2-0.6				J+PFAS+ice		X	X							
-0.6-0.7				J+ice										
-1.0-1.1														
-1.5-1.6														
SB17-0.1-0.2				J+PFAS+ice		X	X	X		X	X			
-0.3-0.4				J+ice										
-0.7-0.8				"										
SB18-0.1-0.2				J+PFAS+ice		X	X	X						
-0.5-0.6				J+ice										

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE: 12/5/22	CONSIGNMENT NOTE NO.	NAME:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE:	
		OF:	COOLER TEMP ..... 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

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Chain of Custody

JBS&G

PROJECT NO.: [redacted] 62742	LABORATORY BATCH NO.:
PROJECT NAME: [redacted]	SAMPLERS:
DATE NEEDED BY:	QC LEVEL: NEPM (2013)

PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; [redacted]

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	HM	PAH	TRH/BTEX	Asbestos	OCP/PCB	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
SB18 - 0.7 - 0.8	SOIL	11/5/22		J + ice										
" " - 1.1 - 1.2				"										
AQSB19 - 0 - 0.9				BAG					X					
SB19 - 0.3 - 0.4				J + ice		X								
- 0.5 - 0.6				↓										
- 0.9 - 1.0														
- 0 - 0.1				J + PFAS tice										
SB20 - 0 - 0.1				J + PFAS + ice						X				
- 0.3 - 0.4				J + ice		X								
- 0.5 - 0.6				↓										
- 1.0 - 1.1														
AQSB20 - 0 - 0.8				BAG					X					
SB21 - 0 - 0.2				J + ice		X	X	X						
- 0.2 - 0.3				↓		X	X	X						
- 0.5 - 0.6														
- 1.0 - 1.1														
TP01 - 0 - 0.1				J + PFAS + ice										
- 0.5 - 0.6				J + ice										
- 1.0 - 1.1				"		X	X	X						

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE: 12/5/22	CONSIGNMENT NOTE NO.	NAME:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: OF:	COOLER TEMP ..... 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

Chain of Custody

JBS&G

PROJECT NO.: 62742	LABORATORY BATCH NO.:
PROJECT NAME:	SAMPLERS:
DATE NEEDED BY:	QC LEVEL: NEPM (2013)

PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	HM	PAH	TRH BTEX	Asbestos	OCP PCB	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
TP01 - 1.5-1.6	Soil	11/5/22		J tice		X	X	X						
-2.0-2.1														
-2.5-2.6														
-3.0-3.1														
AQTP01 - 0-1.0				Bag					X					
-1.0-1.3														
-1.3-2.1														
AQTP02 - 0-0.2									X					
" - 0.2-1.2									X					
TP02 - 0-0.1				J + PFAS tice		X	X	X		X	[redacted]			
-0.5-0.6				J tice										
-1.0-1.1														
-1.5-1.6														
-2.0-2.1														
-2.5-2.6														
TP03 - 0-0.1				J + PFAS tice		X	X	X						
-0.5-0.6				J tice										
-1.0-1.1														
-1.5-1.6														

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: OF:	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

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Chain of Custody

JBS&G

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COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	HM	PAH	TRH / BTEX	Asbestos	OCP/PCB's	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
TP03 -2.0-2.1	SOIL	~~11~~ 11/5/22		J + ice										
AQTP03 -0-0.1				BAG					X					
-0.1-1.1									X					
-1.1-1.4														
AQTP04 -0-0.1									X					
-0.1-0.4									X					
-0.4-1.4														
-1.4-1.7														
TP04 -0-0.1				J + PFAS + ice										
-0.2-0.3				J + ice		X	X	X						
-0.5-0.6														
-1.0-1.1														
-1.5-1.6														
-2.0-2.1														
AQTP05 -0-0.2				BAG					X					
" -0.2-1.2				"					X					
TP05 -0-0.1				PFAS + J + ice		X	X	X		X				
-0.5-0.6				J + ice										
-1.0-1.1				"		X								

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE: 12/5/22	CONSIGNMENT NOTE NO.	NAME:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: OF:	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

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Chain of Custody

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PROJECT NO.: 62742	LABORATORY BATCH NO.:
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DATE NEEDED BY:	QC LEVEL: NEPM (2013)

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COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	HM	PAH	TRH/BTEX	Asbestos	OCP/PCBs	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
TP05-1.5-1.6	SOIL	11/5/22		J + ice										
" -2.0-2.1	"	"		"										
AQTP06-0-0.1				BAG					X					
-0.1-1.0				↓										
-1.9-2.8				↓										
TP06-0-0.1				J + PFAS + ice		X	X	X			X			
-0.5-0.6				J + ice										
-1.0-1.1				↓										
-1.5-1.6				↓										
-2.0-2.1				↓										
-2.5-2.6				↓										
-3.0-3.1				↓										
AQTP07-0-0.2				BAG										
-0.2-1.1				↓					X					
-1.1-2.0				↓										
TP07-0-0.1				J + PFAS + ice										
-0.5-0.6				J + ice										
-1.0-1.1				↓										
-1.5-1.6				↓		X	X	X						

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE: 12/5/22	CONSIGNMENT NOTE NO.	NAME:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: OF:	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

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PROJECT NAME:	SAMPLERS:
DATE NEEDED BY:	QC LEVEL: NEPM (2013)

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COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	HM	DAH	TRH BTEX	As Labos	OCP PCB	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
TP07 - 2.0-2.1	Soil	11/5/22		J + Ice										
" - 2.5-2.6				↓										
TP08 - 0-0.1				J + ~~PFAS~~										
- 0.5-0.6				J + Ice		X	X	X						
- 1.0-1.1														
- 1.5-1.6														
- 2.0-2.1														
- 2.5-2.6														
- 3.0-3.1														
- 3.5-3.6														
AE TP08 - 0-0.4				1SAG					X					
- 0.4-1.4									X					
- 1.4-1.8														
- 1.8-2.8														
- 2.8-3.8														
AE TP09 - 0-0.4				1AG					X					
- 0.4-1.1														
- 1.1-2.1														
- 2.1-2.7														

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE: 12/5/22	CONSIGNMENT NOTE NO.	NAME:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: OF:	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

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JBS&G

PROJECT NO.: 62742	LABORATORY BATCH NO.:
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COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
AQTP10-0-0.3	SOIL	4/5/22		BAG				* 8260 method
-0.3-0.[illegible]-3	↓	↓		Bag			X	
[illegible]								
[illegible]								
TP10 - 0 - 0.1				J + PFAS + ice				
- 0.5 - 0.6				↓	X X X			
- 1.0 - 1.1								
- 1.5 - 1.6								
SV1	Soil vapour	9/5/22		Carbon tube			X X X	
SV2	↓	↓		↓				
SV3							X X X	
SV4							X X X	
SV5					X		X X X	
SV6								
SV7							X X X	
QV01	↓	↓		↓			X X X	
QC-AQ01	SOIL	9/5/22		BAG				
-AQ02	↓	10/5/22		↓			X	
-AQ03	↓	11/5/22		↓				

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: [signature] DATE: 11/5/22	CONSIGNMENT NOTE NO.	NAME:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: OF:	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

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Chain of Custody

JBS&G

PROJECT NO.: 62742

PROJECT NAME:

DATE NEEDED BY:

LABORATORY BATCH NO.:

SAMPLERS:

QC LEVEL: NEPM (2013)

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COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	HM	PAH	TRH/BTEX	Asbestos	OCP/PCB	PFAS	TRH	VOCs	BTEX/N	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
QC-AQ04	SOIL	11/5/22		BAG					X								
QC-01		9/5/22		1 jar + PFAS		X	X	X		X	X						* low level
-02		"		1 jar													
-03		10/5/22				X	X	X									
-04		11/5/22															
QC-GW01	WATER	12/5/22		1LA, 4xV, M(F), PFAS + ice													
" -GW02		"				X	X				X	X	X				
RINSATE		11/5/22				X	X	X		X	X						
RIN20220509		9/5/22															
" "10		10/5/22															
" "12		12/5/22				X	X	X		X	X	X					
TS/TB		12/5/22		4x V + ice									X	X			
BLANK		12/5/22		PFAS + ice							X						
MW01		12/5/22		1LA, 4xV, M(F) PFAS + ice		X	X				X	X	X				
MW02						X	X				X	X	X				
MW03						X	X				X	X	X				
MW04						X	X				X	X	X				
MWA						X	X				X	X	X				
MWB						X	X				X	X	X				

RELINQUISHED BY:

NAME: DATE: 12/5/22

OF: JBS&G

NAME: DATE:

OF:

METHOD OF SHIPMENT:

CONSIGNMENT NOTE NO.

TRANSPORT CO.

CONSIGNMENT NOTE NO.

TRANSPORT CO

RECEIVED BY:

NAME:

DATE:

OF:

NAME: DATE:

OF:

FOR RECEIVING LAB USE ONLY:

COOLER SEAL – Yes..... No ..... Intact ..... Broken .....

COOLER TEMP ..... deg C

COOLER SEAL – Yes..... No ..... Intact ..... Broken .....

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

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Chain of Custody

JBS&G

PROJECT NO.: 62742	LABORATORY BATCH NO.:
PROJECT NAME:	SAMPLERS:
DATE NEEDED BY:	QC LEVEL: NEPM (2013)

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COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	HM	PAH*	TRH/BTEX	Asbestos	OCP/PCBs	PFAS	TRH	VOCs	VOCs*	Solvents	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
V-Blank MW	Soil vapour	9/5/22		carbon tube								X	X	X	X			* low level
MWC	WATER	12/5/22		1LA, 4xV, m(F), PFAS tube		X	X				X	X	X					
MWD	↓	↓		↓		↓	↓				↓	↓	↓					** 8260 method
MWE																		
TP09-0-0.1	Soil	11/5/22		J + P														
-0.5-0.6	↓	↓		↓														
-1.0-1.1						X	X	X										
-1.5-1.6																		
-2.0-2.1																		
-2.5-2.6	↓	↓		↓								*						
[redacted]																		

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: Alis DATE: 13/5/22	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	OF: 10:00 Am	COOLER TEMP ..... 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

890110 & 890111

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customerservice@envirolab.com.au
www.envirolab.com.au

CERTIFICATE OF ANALYSIS 295527

Client Details

Client	JBS & G (NSW & WA) Pty Ltd
Attention	Gina Pinget
Address	Level 1, 50 Margaret St, Sydney, NSW, 2000

Sample Details

Your Reference	**62742, Huntingwood**
Number of Samples	6 Soil, 2 Water
Date samples received	13/05/2022
Date completed instructions received	13/05/2022

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	20/05/2022
Date of Issue	20/05/2022

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Asbestos Approved By
Analysed by Asbestos Approved Analyst: Nyovan Moonean
Authorised by Asbestos Approved Signatory: Lucy Zhu

Results Approved By
Dragana Tomas, Senior Chemist
Giovanni Agosti, Group Technical Manager
Josh Williams, Organics and LC Supervisor
Lucy Zhu, Asbestos Supervisor

Authorised By



Nancy Zhang, Laboratory Manager

PFAS in Soils Extended		
Our Reference		295527-2
Your Reference	UNITS	QA-01
Date Sampled		9/05/2022
Type of sample		Soil
Date prepared	-	19/05/2022
Date analysed	-	19/05/2022
Perfluorobutanesulfonic acid	µg/kg	<0.1
Perfluoropentanesulfonic acid	µg/kg	<0.1
Perfluorohexanesulfonic acid - PFHxS	µg/kg	<0.1
Perfluoroheptanesulfonic acid	µg/kg	<0.1
Perfluorooctanesulfonic acid PFOS	µg/kg	0.3
Perfluorodecanesulfonic acid	µg/kg	<0.2
Perfluorobutanoic acid	µg/kg	<0.2
Perfluoropentanoic acid	µg/kg	<0.2
Perfluorohexanoic acid	µg/kg	<0.1
Perfluoroheptanoic acid	µg/kg	<0.1
Perfluorooctanoic acid PFOA	µg/kg	<0.1
Perfluorononanoic acid	µg/kg	<0.1
Perfluorodecanoic acid	µg/kg	<0.5
Perfluoroundecanoic acid	µg/kg	<0.5
Perfluorododecanoic acid	µg/kg	<0.5
Perfluorotridecanoic acid	µg/kg	<0.5
Perfluorotetradecanoic acid	µg/kg	<5
4:2 FTS	µg/kg	<0.1
6:2 FTS	µg/kg	<0.1
8:2 FTS	µg/kg	<0.2
10:2 FTS	µg/kg	<0.2
Perfluorooctane sulfonamide	µg/kg	<1
N-Methyl perfluorooctane sulfonamide	µg/kg	<1
N-Ethyl perfluorooctanesulfon amide	µg/kg	<1
N-Me perfluorooctanesulfonamid oethanol	µg/kg	<1
N-Et perfluorooctanesulfonamid oethanol	µg/kg	<5
MePerfluorooctanesulf- amid oacetic acid	µg/kg	<0.2
EtPerfluorooctanesulf amid oacetic acid	µg/kg	<0.2
Surrogate $^{13}C_8$ *PFOS*	%	97
Surrogate $^{13}C_2$ *PFOA*	%	99
Extracted ISTD $^{13}C_3$ *PFBS*	%	98
Extracted ISTD $^{18}O_2$ *PFHxS*	%	98
Extracted ISTD $^{13}C_4$ *PFOS*	%	96
Extracted ISTD $^{13}C_4$ *PFBA*	%	97

PFAS in Soils Extended		
Our Reference		295527-2
Your Reference	UNITS	QA-01
Date Sampled		9/05/2022
Type of sample		Soil
Extracted ISTD $^{13}C_3$ *PFPeA*	%	94
Extracted ISTD $^{13}C_2$ *PFHxA*	%	95
Extracted ISTD $^{13}C_4$ *PFHpA*	%	98
Extracted ISTD $^{13}C_4$ *PFOA*	%	88
Extracted ISTD $^{13}C_5$ *PFNA*	%	107
Extracted ISTD $^{13}C_2$ *PFDA*	%	108
Extracted ISTD $^{13}C_2$ *PFUnDA*	%	106
Extracted ISTD $^{13}C_2$ *PFDoDA*	%	122
Extracted ISTD $^{13}C_2$ *PFTeDA*	%	83
Extracted ISTD $^{13}C_2$ *4:2FTS*	%	122
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	109
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	195
Extracted ISTD $^{13}C_8$ *FOSA*	%	93
Extracted ISTD d_3 *N MeFOSA*	%	81
Extracted ISTD d_5 *N EtFOSA*	%	88
Extracted ISTD d_7 *N MeFOSE*	%	82
Extracted ISTD d_9 *N EtFOSE*	%	86
Extracted ISTD d_3 *N MeFOSAA*	%	125
Extracted ISTD d_5 *N EtFOSAA*	%	168
Total Positive PFHxS & PFOS	µg/kg	0.3
Total Positive PFOS & PFOA	µg/kg	0.3
Total Positive PFAS	µg/kg	0.3

vTRH(C6-C10)/BTEXN in Soil			
Our Reference		295527-2	295527-4
Your Reference	UNITS	QA-01	QA-03
Date Sampled		9/05/2022	10/05/2022
Type of sample		Soil	Soil
Date extracted	-	19/05/2022	19/05/2022
Date analysed	-	20/05/2022	20/05/2022
TRH C_6 - C_9	mg/kg	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25
Benzene	mg/kg	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1
m+p-xylene	mg/kg	<2	<2
o-Xylene	mg/kg	<1	<1
Naphthalene	mg/kg	<1	<1
Total +ve Xylenes	mg/kg	<1	<1
Surrogate aaa-Trifluorotoluene	%	89	97

svTRH (C10-C40) in Soil			
Our Reference		295527-2	295527-4
Your Reference	UNITS	QA-01	QA-03
Date Sampled		9/05/2022	10/05/2022
Type of sample		Soil	Soil
Date extracted	-	19/05/2022	19/05/2022
Date analysed	-	20/05/2022	20/05/2022
TRH C_{10} - C_{14}	mg/kg	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100
TRH C_{29} - C_{36}	mg/kg	120	160
Total +ve TRH (C10-C36)	mg/kg	120	160
TRH >C_{10} -C_{16}	mg/kg	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50
TRH >C_{16} -C_{34}	mg/kg	170	160
TRH >C_{34} -C_{40}	mg/kg	<100	190
Total +ve TRH (>C10-C40)	mg/kg	170	350
Surrogate o-Terphenyl	%	90	76

PAHs in Soil			
Our Reference		295527-2	295527-4
Your Reference	UNITS	QA-01	QA-03
Date Sampled		9/05/2022	10/05/2022
Type of sample		Soil	Soil
Date extracted	-	19/05/2022	19/05/2022
Date analysed	-	20/05/2022	19/05/2022
Naphthalene	mg/kg	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	0.1
Anthracene	mg/kg	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	0.3
Pyrene	mg/kg	<0.1	0.3
Benzo(a)anthracene	mg/kg	<0.1	0.2
Chrysene	mg/kg	<0.1	0.2
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	0.4
Benzo(a)pyrene	mg/kg	0.05	0.4
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	0.2
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	0.4
Total +ve PAH's	mg/kg	0.05	2.5
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	0.6
Surrogate p-Terphenyl-d14	%	96	104

Organochlorine Pesticides in soil		
Our Reference		295527-2
Your Reference	UNITS	QA-01
Date Sampled		9/05/2022
Type of sample		Soil
Date extracted	-	19/05/2022
Date analysed	-	20/05/2022
alpha-BHC	mg/kg	<0.1
HCB	mg/kg	<0.1
beta-BHC	mg/kg	<0.1
gamma-BHC	mg/kg	<0.1
Heptachlor	mg/kg	<0.1
delta-BHC	mg/kg	<0.1
Aldrin	mg/kg	<0.1
Heptachlor Epoxide	mg/kg	<0.1
gamma-Chlordane	mg/kg	<0.1
alpha-chlordane	mg/kg	<0.1
Endosulfan I	mg/kg	<0.1
pp-DDE	mg/kg	<0.1
Dieldrin	mg/kg	<0.1
Endrin	mg/kg	<0.1
Endosulfan II	mg/kg	<0.1
pp-DDD	mg/kg	<0.1
Endrin Aldehyde	mg/kg	<0.1
pp-DDT	mg/kg	<0.1
Endosulfan Sulphate	mg/kg	<0.1
Methoxychlor	mg/kg	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1
Surrogate TCMX	%	94

PCBs in Soil		
Our Reference		295527-2
Your Reference	UNITS	QA-01
Date Sampled		9/05/2022
Type of sample		Soil
Date extracted	-	19/05/2022
Date analysed	-	20/05/2022
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	%	94

Acid Extractable metals in soil			
Our Reference		295527-2	295527-4
Your Reference	UNITS	QA-01	QA-03
Date Sampled		9/05/2022	10/05/2022
Type of sample		Soil	Soil
Date prepared	-	19/05/2022	19/05/2022
Date analysed	-	19/05/2022	19/05/2022
Arsenic	mg/kg	6	6
Cadmium	mg/kg	<0.4	<0.4
Chromium	mg/kg	14	23
Copper	mg/kg	23	43
Lead	mg/kg	15	19
Mercury	mg/kg	<0.1	<0.1
Nickel	mg/kg	10	18
Zinc	mg/kg	60	61

Moisture			
Our Reference		295527-2	295527-4
Your Reference	UNITS	QA-01	QA-03
Date Sampled		9/05/2022	10/05/2022
Type of sample		Soil	Soil
Date prepared	-	19/05/2022	19/05/2022
Date analysed	-	20/05/2022	20/05/2022
Moisture	%	24	6.0

Asbestos ID - soils NEPM		
Our Reference	UNITS	295527-5
Your Reference		QA-AQ02
Date Sampled		10/05/2022
Type of sample		Soil
Date analysed	-	20/05/2022
Sample mass tested	g	817.92
Sample Description	-	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
Trace Analysis	-	No asbestos detected
Total Asbestos#1	g/kg	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected
ACM >7mm Estimation*	g	–
FA and AF Estimation*	g	–
FA and AF Estimation*#2	%(w/w)	<0.001

PFAS in Waters Extended		
Our Reference		295527-8
Your Reference	UNITS	QA-GW02
Date Sampled		12/05/2022
Type of sample		Water
Date prepared	-	16/05/2022
Date analysed	-	16/05/2022
Perfluorobutanesulfonic acid	µg/L	<0.01
Perfluoropentanesulfonic acid	µg/L	<0.01
Perfluorohexanesulfonic acid - PFHxS	µg/L	<0.01
Perfluoroheptanesulfonic acid	µg/L	<0.01
Perfluorooctanesulfonic acid PFOS	µg/L	<0.01
Perfluorodecanesulfonic acid	µg/L	<0.02
Perfluorobutanoic acid	µg/L	<0.02
Perfluoropentanoic acid	µg/L	<0.02
Perfluorohexanoic acid	µg/L	<0.01
Perfluoroheptanoic acid	µg/L	<0.01
Perfluorooctanoic acid PFOA	µg/L	<0.01
Perfluorononanoic acid	µg/L	<0.01
Perfluorodecanoic acid	µg/L	<0.02
Perfluoroundecanoic acid	µg/L	<0.02
Perfluorododecanoic acid	µg/L	<0.05
Perfluorotridecanoic acid	µg/L	<0.1
Perfluorotetradecanoic acid	µg/L	<0.5
4:2 FTS	µg/L	<0.01
6:2 FTS	µg/L	<0.01
8:2 FTS	µg/L	<0.02
10:2 FTS	µg/L	<0.02
Perfluorooctane sulfonamide	µg/L	<0.1
N-Methyl perfluorooctane sulfonamide	µg/L	<0.05
N-Ethyl perfluorooctanesulfon amide	µg/L	<0.1
N-Me perfluorooctanesulfonamid oethanol	µg/L	<0.05
N-Et perfluorooctanesulfonamid oethanol	µg/L	<0.5
MePerfluorooctanesulf- amid oacetic acid	µg/L	<0.02
EtPerfluorooctanesulf- amid oacetic acid	µg/L	<0.02
Surrogate $^{13}C_8$ *PFOS*	%	93
Surrogate $^{13}C_2$ *PFOA*	%	103
Extracted ISTD $^{13}C_3$ *PFBS*	%	96
Extracted ISTD $^{18}O_2$ *PFHxS*	%	102
Extracted ISTD $^{13}C_4$ *PFOS*	%	106
Extracted ISTD $^{13}C_4$ *PFBA*	%	85

PFAS in Waters Extended		
Our Reference		295527-8
Your Reference	UNITS	QA-GW02
Date Sampled		12/05/2022
Type of sample		Water
Extracted ISTD $^{13}C_3$ *PFPeA*	%	81
Extracted ISTD $^{13}C_2$ *PFHxA*	%	89
Extracted ISTD $^{13}C_4$ *PFHpA*	%	95
Extracted ISTD $^{13}C_4$ *PFOA*	%	98
Extracted ISTD $^{13}C_5$ *PFNA*	%	116
Extracted ISTD $^{13}C_2$ *PFDA*	%	101
Extracted ISTD $^{13}C_2$ *PFUnDA*	%	98
Extracted ISTD $^{13}C_2$ *PFDoDA*	%	102
Extracted ISTD $^{13}C_2$ *PFTeDA*	%	91
Extracted ISTD $^{13}C_2$ *4:2FTS*	%	59
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	90
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	105
Extracted ISTD $^{13}C_8$ *FOSA*	%	102
Extracted ISTD d_3 *N MeFOSA*	%	95
Extracted ISTD d_5 *N EtFOSA*	%	101
Extracted ISTD d_7 *N MeFOSE*	%	106
Extracted ISTD d_9 *N EtFOSE*	%	109
Extracted ISTD d_3 *N MeFOSAA*	%	89
Extracted ISTD d_5 *N EtFOSAA*	%	94
Total Positive PFHxS & PFOS	µg/L	<0.01
Total Positive PFOA & PFOS	µg/L	<0.01
Total Positive PFAS	µg/L	<0.01

VOCs in water		
Our Reference	UNITS	295527-8
Your Reference		QA-GW02
Date Sampled		12/05/2022
Type of sample		Water
Date extracted	-	19/05/2022
Date analysed	-	20/05/2022
Dichlorodifluoromethane	µg/L	<10
Chloromethane	µg/L	<10
Vinyl Chloride	µg/L	<10
Bromomethane	µg/L	<10
Chloroethane	µg/L	<10
Trichlorofluoromethane	µg/L	<10
1,1-Dichloroethene	µg/L	<1
Trans-1,2-dichloroethene	µg/L	<1
1,1-dichloroethane	µg/L	<1
Cis-1,2-dichloroethene	µg/L	<1
Bromochloromethane	µg/L	6
Chloroform	µg/L	<1
2,2-dichloropropane	µg/L	<1
1,2-dichloroethane	µg/L	<1
1,1,1-trichloroethane	µg/L	<1
1,1-dichloropropene	µg/L	<1
Cyclohexane	µg/L	<1
Carbon tetrachloride	µg/L	<1
Benzene	µg/L	<1
Dibromomethane	µg/L	<1
1,2-dichloropropane	µg/L	<1
Trichloroethene	µg/L	<1
Bromodichloromethane	µg/L	<1
trans-1,3-dichloropropene	µg/L	<1
cis-1,3-dichloropropene	µg/L	<1
1,1,2-trichloroethane	µg/L	<1
Toluene	µg/L	<1
1,3-dichloropropane	µg/L	<1
Dibromochloromethane	µg/L	<1
1,2-dibromoethane	µg/L	<1
Tetrachloroethene	µg/L	<1
1,1,1,2-tetrachloroethane	µg/L	<1
Chlorobenzene	µg/L	<1
Ethylbenzene	µg/L	<1

VOCs in water		
Our Reference		295527-8
Your Reference	UNITS	QA-GW02
Date Sampled		12/05/2022
Type of sample		Water
Bromoform	µg/L	<1
m+p-xylene	µg/L	<2
Styrene	µg/L	<1
1,1,2,2-tetrachloroethane	µg/L	<1
o-xylene	µg/L	<1
1,2,3-trichloropropane	µg/L	<1
Isopropylbenzene	µg/L	<1
Bromobenzene	µg/L	<1
n-propyl benzene	µg/L	<1
2-chlorotoluene	µg/L	<1
4-chlorotoluene	µg/L	<1
1,3,5-trimethyl benzene	µg/L	<1
Tert-butyl benzene	µg/L	<1
1,2,4-trimethyl benzene	µg/L	<1
1,3-dichlorobenzene	µg/L	<1
Sec-butyl benzene	µg/L	<1
1,4-dichlorobenzene	µg/L	<1
4-isopropyl toluene	µg/L	<1
1,2-dichlorobenzene	µg/L	<1
n-butyl benzene	µg/L	<1
1,2-dibromo-3-chloropropane	µg/L	<1
1,2,4-trichlorobenzene	µg/L	<1
Hexachlorobutadiene	µg/L	<1
1,2,3-trichlorobenzene	µg/L	<1
Surrogate Dibromofluoromethane	%	98
Surrogate toluene-d8	%	104
Surrogate 4-BFB	%	99

vTRH in Water (C6-C9) NEPM		
Our Reference		295527-8
Your Reference	UNITS	QA-GW02
Date Sampled		12/05/2022
Type of sample		Water
Date extracted	-	19/05/2022
Date analysed	-	20/05/2022
TRH C_6 - C_9	µg/L	<10
TRH C_6 - C_{10}	µg/L	<10
Surrogate Dibromofluoromethane	%	98
Surrogate toluene-d8	%	104
Surrogate 4-BFB	%	99

svTRH (C10-C40) in Water		
Our Reference		295527-8
Your Reference	UNITS	QA-GW02
Date Sampled		12/05/2022
Type of sample		Water
Date extracted	-	19/05/2022
Date analysed	-	19/05/2022
TRH C_{10} - C_{14}	µg/L	<50
TRH C_{15} - C_{28}	µg/L	<100
TRH C_{29} - C_{36}	µg/L	<100
Total +ve TRH (C10-C36)	µg/L	<50
TRH >C_{10} - C_{16}	µg/L	<50
TRH >C_{16} - C_{34}	µg/L	<100
TRH >C_{34} - C_{40}	µg/L	<100
Total +ve TRH (>C10-C40)	µg/L	<50
Surrogate o-Terphenyl	%	91

PAHs in Water - Low Level		
Our Reference		295527-8
Your Reference	UNITS	QA-GW02
Date Sampled		12/05/2022
Type of sample		Water
Date extracted	-	19/05/2022
Date analysed	-	19/05/2022
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	%	104

HM in water - total		
Our Reference		295527-8
Your Reference	UNITS	QA-GW02
Date Sampled		12/05/2022
Type of sample		Water
Date prepared	-	20/05/2022
Date analysed	-	20/05/2022
Arsenic-Total	µg/L	2
Cadmium-Total	µg/L	<0.1
Chromium-Total	µg/L	<1
Copper-Total	µg/L	<1
Lead-Total	µg/L	<1
Mercury-Total	µg/L	<0.05
Nickel-Total	µg/L	2
Zinc-Total	µg/L	5

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.
Inorg-008	Moisture content determined by heating at 105+/-5 °C for a minimum of 12 hours.
Metals-020	Determination of various metals by ICP-AES.
Metals-021	Determination of Mercury by Cold Vapour AAS.
Metals-022	Determination of various metals by ICP-MS.
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.

Method ID	Methodology Summary
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.
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.

Method ID	Methodology Summary
Org-029	Soil samples are extracted with basified Methanol. Waters and soil extracts are directly injected and/or concentrated/extracted using SPE. TCLPs/ASLP leachates are centrifuged, the supernatant is then analysed (including amendment with solvent) - as per the option in AS4439.3. Analysis is undertaken with LC-MS/MS. PFAS results include the sum of branched and linear isomers where applicable. Please note that PFAS results are corrected for Extracted Internal Standards (QSM 5.3 Table B-15 terminology), which are mass labelled analytes added prior to sample preparation to assess matrix effects and verify processing of the sample. PFAS analytes without a commercially available mass labelled analogue are corrected vs a closely eluting mass labelled PFAS compound. Surrogates are also reported, in this context they are mass labelled PFAS compounds added prior to extraction but are used as monitoring compounds only (not used for result correction). Envicarb (or similar) is used discretionally to remove interfering matrix components. Please contact the laboratory if estimates of Measurement Uncertainty are required as per WA DER.

QUALITY CONTROL: PFAS in Soils Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date prepared	-			19/05/2022	[NT]	[NT]	[NT]	[NT]	19/05/2022	[NT]
Date analysed	-			19/05/2022	[NT]	[NT]	[NT]	[NT]	19/05/2022	[NT]
Perfluorobutanesulfonic acid	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	100	[NT]
Perfluoropentanesulfonic acid	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	104	[NT]
Perfluorohexanesulfonic acid - PFHxS	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	104	[NT]
Perfluoroheptanesulfonic acid	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	102	[NT]
Perfluorooctanesulfonic acid PFOS	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	105	[NT]
Perfluorodecanesulfonic acid	µg/kg	0.2	Org-029	<0.2	[NT]	[NT]	[NT]	[NT]	92	[NT]
Perfluorobutanoic acid	µg/kg	0.2	Org-029	<0.2	[NT]	[NT]	[NT]	[NT]	99	[NT]
Perfluoropentanoic acid	µg/kg	0.2	Org-029	<0.2	[NT]	[NT]	[NT]	[NT]	99	[NT]
Perfluorohexanoic acid	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	102	[NT]
Perfluoroheptanoic acid	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	103	[NT]
Perfluorooctanoic acid PFOA	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	102	[NT]
Perfluorononanoic acid	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	98	[NT]
Perfluorodecanoic acid	µg/kg	0.5	Org-029	<0.5	[NT]	[NT]	[NT]	[NT]	106	[NT]
Perfluoroundecanoic acid	µg/kg	0.5	Org-029	<0.5	[NT]	[NT]	[NT]	[NT]	97	[NT]
Perfluorododecanoic acid	µg/kg	0.5	Org-029	<0.5	[NT]	[NT]	[NT]	[NT]	114	[NT]
Perfluorotridecanoic acid	µg/kg	0.5	Org-029	<0.5	[NT]	[NT]	[NT]	[NT]	107	[NT]
Perfluorotetradecanoic acid	µg/kg	5	Org-029	<5	[NT]	[NT]	[NT]	[NT]	101	[NT]
4:2 FTS	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	111	[NT]
6:2 FTS	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	105	[NT]
8:2 FTS	µg/kg	0.2	Org-029	<0.2	[NT]	[NT]	[NT]	[NT]	95	[NT]
10:2 FTS	µg/kg	0.2	Org-029	<0.2	[NT]	[NT]	[NT]	[NT]	109	[NT]
Perfluorooctane sulfonamide	µg/kg	1	Org-029	<1	[NT]	[NT]	[NT]	[NT]	106	[NT]
N-Methyl perfluorooctane sulfonamide	µg/kg	1	Org-029	<1	[NT]	[NT]	[NT]	[NT]	112	[NT]
N-Ethyl perfluorooctanesulfon amide	µg/kg	1	Org-029	<1	[NT]	[NT]	[NT]	[NT]	102	[NT]
N-Me perfluorooctanesulfonamid oethanol	µg/kg	1	Org-029	<1	[NT]	[NT]	[NT]	[NT]	102	[NT]
N-Et perfluorooctanesulfonamid oethanol	µg/kg	5	Org-029	<5	[NT]	[NT]	[NT]	[NT]	101	[NT]
MePerfluorooctanesulf- amid oacetic acid	µg/kg	0.2	Org-029	<0.2	[NT]	[NT]	[NT]	[NT]	100	[NT]
EtPerfluorooctanesulf amid oacetic acid	µg/kg	0.2	Org-029	<0.2	[NT]	[NT]	[NT]	[NT]	103	[NT]
Surrogate $^{13}C_8$ *PFOS*	%		Org-029	96	[NT]	[NT]	[NT]	[NT]	102	[NT]
Surrogate $^{13}C_2$ *PFOA*	%		Org-029	100	[NT]	[NT]	[NT]	[NT]	99	[NT]

QUALITY CONTROL: PFAS in Soils Extended					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Extracted ISTD $^{13}C_3$ *PFBS*	%		Org-029	107	[NT]	[NT]	[NT]	[NT]	106	[NT]
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-029	107	[NT]	[NT]	[NT]	[NT]	108	[NT]
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-029	105	[NT]	[NT]	[NT]	[NT]	103	[NT]
Extracted ISTD $^{13}C_4$ *PFBA*	%		Org-029	110	[NT]	[NT]	[NT]	[NT]	109	[NT]
Extracted ISTD $^{13}C_3$ *PFPeA*	%		Org-029	103	[NT]	[NT]	[NT]	[NT]	102	[NT]
Extracted ISTD $^{13}C_2$ *PFHxA*	%		Org-029	104	[NT]	[NT]	[NT]	[NT]	104	[NT]
Extracted ISTD $^{13}C_4$ *PFHpA*	%		Org-029	109	[NT]	[NT]	[NT]	[NT]	110	[NT]
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-029	108	[NT]	[NT]	[NT]	[NT]	109	[NT]
Extracted ISTD $^{13}C_5$ *PFNA*	%		Org-029	116	[NT]	[NT]	[NT]	[NT]	112	[NT]
Extracted ISTD $^{13}C_2$ *PFDA*	%		Org-029	107	[NT]	[NT]	[NT]	[NT]	105	[NT]
Extracted ISTD $^{13}C_2$ *PFUnDA*	%		Org-029	111	[NT]	[NT]	[NT]	[NT]	112	[NT]
Extracted ISTD $^{13}C_2$ *PFDoDA*	%		Org-029	104	[NT]	[NT]	[NT]	[NT]	105	[NT]
Extracted ISTD $^{13}C_2$ *PFTeDA*	%		Org-029	107	[NT]	[NT]	[NT]	[NT]	103	[NT]
Extracted ISTD $^{13}C_2$ *4:2FTS*	%		Org-029	115	[NT]	[NT]	[NT]	[NT]	111	[NT]
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-029	121	[NT]	[NT]	[NT]	[NT]	121	[NT]
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-029	122	[NT]	[NT]	[NT]	[NT]	120	[NT]
Extracted ISTD $^{13}C_8$ *FOSA*	%		Org-029	112	[NT]	[NT]	[NT]	[NT]	109	[NT]
Extracted ISTD d_3 *N MeFOSA*	%		Org-029	110	[NT]	[NT]	[NT]	[NT]	107	[NT]
Extracted ISTD d_5 *N EtFOSA*	%		Org-029	111	[NT]	[NT]	[NT]	[NT]	110	[NT]
Extracted ISTD d_7 *N MeFOSE*	%		Org-029	108	[NT]	[NT]	[NT]	[NT]	102	[NT]

QUALITY CONTROL: PFAS in Soils Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Extracted ISTD d_9 *N EtFOSE*	%		Org-029	106	[NT]	[NT]	[NT]	[NT]	109	[NT]
Extracted ISTD d_3 *N MeFOSAA*	%		Org-029	113	[NT]	[NT]	[NT]	[NT]	113	[NT]
Extracted ISTD d_5 *N EtFOSAA*	%		Org-029	114	[NT]	[NT]	[NT]	[NT]	113	[NT]

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			19/05/2022	[NT]	[NT]	[NT]	[NT]	19/05/2022	[NT]
Date analysed	-			20/05/2022	[NT]	[NT]	[NT]	[NT]	20/05/2022	[NT]
TRH C_6 - C_9	mg/kg	25	Org-023	<25	[NT]	[NT]	[NT]	[NT]	99	[NT]
TRH C_6 - C_{10}	mg/kg	25	Org-023	<25	[NT]	[NT]	[NT]	[NT]	99	[NT]
Benzene	mg/kg	0.2	Org-023	<0.2	[NT]	[NT]	[NT]	[NT]	93	[NT]
Toluene	mg/kg	0.5	Org-023	<0.5	[NT]	[NT]	[NT]	[NT]	97	[NT]
Ethylbenzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	106	[NT]
m+p-xylene	mg/kg	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	99	[NT]
o-Xylene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	105	[NT]
Naphthalene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	95	[NT]	[NT]	[NT]	[NT]	98	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-6	[NT]
Date extracted	-			19/05/2022	[NT]	[NT]	[NT]	[NT]	19/05/2022	[NT]
Date analysed	-			20/05/2022	[NT]	[NT]	[NT]	[NT]	20/05/2022	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	104	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	92	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	117	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	104	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	92	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	117	[NT]
Surrogate o-Terphenyl	%		Org-020	70	[NT]	[NT]	[NT]	[NT]	79	[NT]

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			19/05/2022	[NT]	[NT]	[NT]	[NT]	19/05/2022	[NT]
Date analysed	-			20/05/2022	[NT]	[NT]	[NT]	[NT]	20/05/2022	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	95	[NT]
Acenaphthylene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	95	[NT]
Fluorene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	95	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	100	[NT]
Anthracene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	92	[NT]
Pyrene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	101	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	99	[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	96	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	90	[NT]	[NT]	[NT]	[NT]	91	[NT]

QUALITY CONTROL: Organochlorine Pesticides in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			19/05/2022	[NT]	[NT]	[NT]	[NT]	19/05/2022	[NT]
Date analysed	-			20/05/2022	[NT]	[NT]	[NT]	[NT]	20/05/2022	[NT]
alpha-BHC	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	94	[NT]
HCB	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	96	[NT]
gamma-BHC	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	89	[NT]
delta-BHC	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	97	[NT]
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	100	[NT]
gamma-Chlordane	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	96	[NT]
Dieldrin	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	100	[NT]
Endrin	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	88	[NT]
Endosulfan II	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	94	[NT]
Endrin Aldehyde	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	86	[NT]
Methoxychlor	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	92	[NT]	[NT]	[NT]	[NT]	93	[NT]

QUALITY CONTROL: PCBs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			19/05/2022	[NT]	[NT]	[NT]	[NT]	19/05/2022	[NT]
Date analysed	-			20/05/2022	[NT]	[NT]	[NT]	[NT]	20/05/2022	[NT]
Aroclor 1016	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	101	[NT]
Aroclor 1260	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate TCMX	%		Org-021	92	[NT]	[NT]	[NT]	[NT]	93	[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	-			19/05/2022	[NT]	[NT]	[NT]	[NT]	19/05/2022	[NT]
Date analysed	-			19/05/2022	[NT]	[NT]	[NT]	[NT]	19/05/2022	[NT]
Arsenic	mg/kg	4	Metals-020	<4	[NT]	[NT]	[NT]	[NT]	102	[NT]
Cadmium	mg/kg	0.4	Metals-020	<0.4	[NT]	[NT]	[NT]	[NT]	105	[NT]
Chromium	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	111	[NT]
Copper	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	109	[NT]
Lead	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	112	[NT]
Mercury	mg/kg	0.1	Metals-021	<0.1	[NT]	[NT]	[NT]	[NT]	123	[NT]
Nickel	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	110	[NT]
Zinc	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	108	[NT]

QUALITY CONTROL: PFAS in Waters Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date prepared	-			16/05/2022	[NT]	[NT]	[NT]	[NT]	16/05/2022	[NT]
Date analysed	-			16/05/2022	[NT]	[NT]	[NT]	[NT]	16/05/2022	[NT]
Perfluorobutanesulfonic acid	µg/L	0.01	Org-029	<0.01	[NT]	[NT]	[NT]	[NT]	105	[NT]
Perfluoropentanesulfonic acid	µg/L	0.01	Org-029	<0.01	[NT]	[NT]	[NT]	[NT]	107	[NT]
Perfluorohexanesulfonic acid - PFHxS	µg/L	0.01	Org-029	<0.01	[NT]	[NT]	[NT]	[NT]	103	[NT]
Perfluoroheptanesulfonic acid	µg/L	0.01	Org-029	<0.01	[NT]	[NT]	[NT]	[NT]	107	[NT]
Perfluorooctanesulfonic acid PFOS	µg/L	0.01	Org-029	<0.01	[NT]	[NT]	[NT]	[NT]	105	[NT]
Perfluorodecanesulfonic acid	µg/L	0.02	Org-029	<0.02	[NT]	[NT]	[NT]	[NT]	98	[NT]
Perfluorobutanoic acid	µg/L	0.02	Org-029	<0.02	[NT]	[NT]	[NT]	[NT]	99	[NT]
Perfluoropentanoic acid	µg/L	0.02	Org-029	<0.02	[NT]	[NT]	[NT]	[NT]	105	[NT]
Perfluorohexanoic acid	µg/L	0.01	Org-029	<0.01	[NT]	[NT]	[NT]	[NT]	104	[NT]
Perfluoroheptanoic acid	µg/L	0.01	Org-029	<0.01	[NT]	[NT]	[NT]	[NT]	106	[NT]
Perfluorooctanoic acid PFOA	µg/L	0.01	Org-029	<0.01	[NT]	[NT]	[NT]	[NT]	104	[NT]
Perfluorononanoic acid	µg/L	0.01	Org-029	<0.01	[NT]	[NT]	[NT]	[NT]	99	[NT]
Perfluorodecanoic acid	µg/L	0.02	Org-029	<0.02	[NT]	[NT]	[NT]	[NT]	107	[NT]
Perfluoroundecanoic acid	µg/L	0.02	Org-029	<0.02	[NT]	[NT]	[NT]	[NT]	103	[NT]
Perfluorododecanoic acid	µg/L	0.05	Org-029	<0.05	[NT]	[NT]	[NT]	[NT]	103	[NT]
Perfluorotridecanoic acid	µg/L	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	92	[NT]
Perfluorotetradecanoic acid	µg/L	0.5	Org-029	<0.5	[NT]	[NT]	[NT]	[NT]	105	[NT]
4:2 FTS	µg/L	0.01	Org-029	<0.01	[NT]	[NT]	[NT]	[NT]	104	[NT]
6:2 FTS	µg/L	0.01	Org-029	<0.01	[NT]	[NT]	[NT]	[NT]	110	[NT]
8:2 FTS	µg/L	0.02	Org-029	<0.02	[NT]	[NT]	[NT]	[NT]	109	[NT]
10:2 FTS	µg/L	0.02	Org-029	<0.02	[NT]	[NT]	[NT]	[NT]	122	[NT]
Perfluorooctane sulfonamide	µg/L	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	105	[NT]
N-Methyl perfluorooctane sulfonamide	µg/L	0.05	Org-029	<0.05	[NT]	[NT]	[NT]	[NT]	114	[NT]
N-Ethyl perfluorooctanesulfon amide	µg/L	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	103	[NT]
N-Me perfluorooctanesulfonamid oethanol	µg/L	0.05	Org-029	<0.05	[NT]	[NT]	[NT]	[NT]	112	[NT]
N-Et perfluorooctanesulfonamid oethanol	µg/L	0.5	Org-029	<0.5	[NT]	[NT]	[NT]	[NT]	105	[NT]
MePerfluorooctanesulf- amid oacetic acid	µg/L	0.02	Org-029	<0.02	[NT]	[NT]	[NT]	[NT]	104	[NT]
EtPerfluorooctanesulf- amid oacetic acid	µg/L	0.02	Org-029	<0.02	[NT]	[NT]	[NT]	[NT]	101	[NT]
Surrogate $^{13}C_8$ *PFOS*	%		Org-029	101	[NT]	[NT]	[NT]	[NT]	99	[NT]
Surrogate $^{13}C_2$ *PFOA*	%		Org-029	100	[NT]	[NT]	[NT]	[NT]	100	[NT]

QUALITY CONTROL: PFAS in Waters Extended					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Extracted ISTD $^{13}C_3$ *PFBS*	%		Org-029	95	[NT]	[NT]	[NT]	[NT]	97	[NT]
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-029	97	[NT]	[NT]	[NT]	[NT]	96	[NT]
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-029	96	[NT]	[NT]	[NT]	[NT]	101	[NT]
Extracted ISTD $^{13}C_4$ *PFBA*	%		Org-029	98	[NT]	[NT]	[NT]	[NT]	97	[NT]
Extracted ISTD $^{13}C_3$ *PFPeA*	%		Org-029	97	[NT]	[NT]	[NT]	[NT]	94	[NT]
Extracted ISTD $^{13}C_2$ *PFHxA*	%		Org-029	96	[NT]	[NT]	[NT]	[NT]	97	[NT]
Extracted ISTD $^{13}C_4$ *PFHpA*	%		Org-029	101	[NT]	[NT]	[NT]	[NT]	100	[NT]
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-029	98	[NT]	[NT]	[NT]	[NT]	99	[NT]
Extracted ISTD $^{13}C_5$ *PFNA*	%		Org-029	106	[NT]	[NT]	[NT]	[NT]	108	[NT]
Extracted ISTD $^{13}C_2$ *PFDA*	%		Org-029	99	[NT]	[NT]	[NT]	[NT]	97	[NT]
Extracted ISTD $^{13}C_2$ *PFUnDA*	%		Org-029	103	[NT]	[NT]	[NT]	[NT]	107	[NT]
Extracted ISTD $^{13}C_2$ *PFDoDA*	%		Org-029	106	[NT]	[NT]	[NT]	[NT]	104	[NT]
Extracted ISTD $^{13}C_2$ *PFTeDA*	%		Org-029	87	[NT]	[NT]	[NT]	[NT]	89	[NT]
Extracted ISTD $^{13}C_2$ *4:2FTS*	%		Org-029	99	[NT]	[NT]	[NT]	[NT]	100	[NT]
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-029	106	[NT]	[NT]	[NT]	[NT]	100	[NT]
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-029	105	[NT]	[NT]	[NT]	[NT]	107	[NT]
Extracted ISTD $^{13}C_8$ *FOSA*	%		Org-029	100	[NT]	[NT]	[NT]	[NT]	97	[NT]
Extracted ISTD d_3 *N MeFOSA*	%		Org-029	95	[NT]	[NT]	[NT]	[NT]	92	[NT]
Extracted ISTD d_5 *N EtFOSA*	%		Org-029	98	[NT]	[NT]	[NT]	[NT]	96	[NT]
Extracted ISTD d_7 *N MeFOSE*	%		Org-029	100	[NT]	[NT]	[NT]	[NT]	96	[NT]

QUALITY CONTROL: PFAS in Waters Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Extracted ISTD d_9 *N EtFOSE*	%		Org-029	99	[NT]	[NT]	[NT]	[NT]	97	[NT]
Extracted ISTD d_3 *N MeFOSAA*	%		Org-029	95	[NT]	[NT]	[NT]	[NT]	104	[NT]
Extracted ISTD d_5 *N EtFOSAA*	%		Org-029	102	[NT]	[NT]	[NT]	[NT]	105	[NT]

QUALITY CONTROL: VOCs in water					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
Date extracted	-			19/05/2022	[NT]	[NT]	[NT]	[NT]	19/05/2022	[NT]
Date analysed	-			20/05/2022	[NT]	[NT]	[NT]	[NT]	20/05/2022	[NT]
Dichlorodifluoromethane	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chloromethane	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Vinyl Chloride	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Bromomethane	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chloroethane	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Trichlorofluoromethane	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1-Dichloroethene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Trans-1,2-dichloroethene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1-dichloroethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	103	[NT]
Cis-1,2-dichloroethene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Bromochloromethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chloroform	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	117	[NT]
2,2-dichloropropane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dichloroethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	122	[NT]
1,1,1-trichloroethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	118	[NT]
1,1-dichloropropene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Cyclohexane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Carbon tetrachloride	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibromomethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dichloropropane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Trichloroethene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	116	[NT]
Bromodichloromethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	115	[NT]
trans-1,3-dichloropropene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
cis-1,3-dichloropropene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1,2-trichloroethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Toluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,3-dichloropropane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibromochloromethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	114	[NT]
1,2-dibromoethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Tetrachloroethene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	102	[NT]
1,1,1,2-tetrachloroethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chlorobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Ethylbenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Bromoform	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
m+p-xylene	µg/L	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Styrene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1,2,2-tetrachloroethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]

QUALITY CONTROL: VOCs in water					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
o-xylene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2,3-trichloropropane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Isopropylbenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Bromobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
n-propyl benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
2-chlorotoluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
4-chlorotoluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,3,5-trimethyl benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Tert-butyl benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2,4-trimethyl benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,3-dichlorobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Sec-butyl benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,4-dichlorobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
4-isopropyl toluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dichlorobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
n-butyl benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dibromo-3-chloropropane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2,4-trichlorobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Hexachlorobutadiene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2,3-trichlorobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	97	[NT]	[NT]	[NT]	[NT]	101	[NT]
Surrogate toluene-d8	%		Org-023	101	[NT]	[NT]	[NT]	[NT]	104	[NT]
Surrogate 4-BFB	%		Org-023	100	[NT]	[NT]	[NT]	[NT]	100	[NT]

QUALITY CONTROL: vTRH in Water (C6-C9) NEPM						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
Date extracted	-			19/05/2022	[NT]	[NT]	[NT]	[NT]	19/05/2022	[NT]
Date analysed	-			20/05/2022	[NT]	[NT]	[NT]	[NT]	20/05/2022	[NT]
TRH C_6 - C_9	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	109	[NT]
TRH C_6 - C_{10}	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	109	[NT]
Surrogate Dibromofluoromethane	%		Org-023	97	[NT]	[NT]	[NT]	[NT]	101	[NT]
Surrogate toluene-d8	%		Org-023	101	[NT]	[NT]	[NT]	[NT]	104	[NT]
Surrogate 4-BFB	%		Org-023	100	[NT]	[NT]	[NT]	[NT]	100	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			19/05/2022	8	19/05/2022	19/05/2022		19/05/2022	[NT]
Date analysed	-			19/05/2022	8	19/05/2022	19/05/2022		19/05/2022	[NT]
TRH C_{10} - C_{14}	µg/L	50	Org-020	<50	8	<50	<50	0	95	[NT]
TRH C_{15} - C_{28}	µg/L	100	Org-020	<100	8	<100	<100	0	88	[NT]
TRH C_{29} - C_{36}	µg/L	100	Org-020	<100	8	<100	<100	0	94	[NT]
TRH >C_{10} - C_{16}	µg/L	50	Org-020	<50	8	<50	<50	0	95	[NT]
TRH >C_{16} - C_{34}	µg/L	100	Org-020	<100	8	<100	<100	0	88	[NT]
TRH >C_{34} - C_{40}	µg/L	100	Org-020	<100	8	<100	<100	0	94	[NT]
Surrogate o-Terphenyl	%		Org-020	88	8	91	87	4	98	[NT]

QUALITY CONTROL: PAHs in Water - Low Level						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			19/05/2022	8	19/05/2022	19/05/2022		19/05/2022	[NT]
Date analysed	-			19/05/2022	8	19/05/2022	19/05/2022		19/05/2022	[NT]
Naphthalene	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	88	[NT]
Acenaphthylene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	87	[NT]
Fluorene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	90	[NT]
Phenanthrene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	96	[NT]
Anthracene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	86	[NT]
Pyrene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	89	[NT]
Benzo(a)anthracene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	[NT]	[NT]
Chrysene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	87	[NT]
Benzo(b,j+k)fluoranthene	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	90	[NT]
Indeno(1,2,3-c,d)pyrene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	83	8	104	91	13	92	[NT]

QUALITY CONTROL: HM in water - total						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date prepared	-			20/05/2022	8	20/05/2022	20/05/2022		20/05/2022	[NT]
Date analysed	-			20/05/2022	8	20/05/2022	20/05/2022		20/05/2022	[NT]
Arsenic-Total	µg/L	1	Metals-022	<1	8	2	[NT]		91	[NT]
Cadmium-Total	µg/L	0.1	Metals-022	<0.1	8	<0.1	[NT]		90	[NT]
Chromium-Total	µg/L	1	Metals-022	<1	8	<1	[NT]		94	[NT]
Copper-Total	µg/L	1	Metals-022	<1	8	<1	[NT]		99	[NT]
Lead-Total	µg/L	1	Metals-022	<1	8	<1	[NT]		91	[NT]
Mercury-Total	µg/L	0.05	Metals-021	<0.05	8	<0.05	<0.05	0	107	[NT]
Nickel-Total	µg/L	1	Metals-022	<1	8	2	[NT]		100	[NT]
Zinc-Total	µg/L	1	Metals-022	<1	8	5	[NT]		82	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from “2018 TLVs and BEIs”, as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Report Comments

Samples received in good order: Incorrect Container

For PFAS Extracted Internal Standards denoted with # or outside the 50-150% acceptance range, the respective target analyte results may be unaffected, in other circumstances the PQL has been raised to accommodate the outlier(s).

VOCs in water - No vials were supplied for analysis of sample 295527-8. Subsampled from amber bottle provided.
vTRH in Water (C6-C9) NEPM - No vials were supplied for analysis of sample 295527-8. Subsampled from amber bottle provided.

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.

Total metals: no unfiltered, preserved sample was received, therefore analysis was conducted from the unpreserved sample bottle. Note: there is a possibility some elements may be underestimated.

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SAMPLE RECEIPT ADVICE

Client Details

Client	JBS & G (NSW & WA) Pty Ltd
Attention	Gina Pinget

Sample Login Details

Your reference	62742, Huntingwood
Envirolab Reference	295527
Date Sample Received	13/05/2022
Date Instructions Received	13/05/2022
Date Results Expected to be Reported	20/05/2022

Sample Condition

Samples received in appropriate condition for analysis	Incorrect Container
No. of Samples Provided	6 Soil, 2 Water
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	4
Cooling Method	Ice
Sampling Date Provided	YES

Comments

QA-AQ04, QA04 & AQ-QA05 not received.

Please contact the laboratory within 24 hours if you wish to cancel the aformentioned testing. Otherwise testing will proceed as per the COC and hence invoiced accordingly.

Please direct any queries to:

Aileen Hie	Jacinta Hurst
Phone: 02 9910 6200	**Phone: 02 9910 6200**
Fax: 02 9910 6201	**Fax: 02 9910 6201**
Email: ahie@envirolab.com.au	**Email: jhurst@envirolab.com.au**

Analysis Underway, details on the following page:

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

Sample ID	PFAS in Soils Extended	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	PAHs in Soil	Organochlorine Pesticides in soil	PCBs in Soil	Acid Extractable metalsin soil	Asbestos ID - soils NEPM	PFAS in Waters Extended	VOCs in water	vTRH in Water (C6-C9) NEPM	svTRH (C10-C40) in Water	PAHs in Water - Low Level	HM in water - total	On Hold
QA-QAQ01															✓
QA-01	✓	✓	✓	✓	✓	✓	✓								
QA-02															✓
QA-03		✓	✓	✓			✓								
QA-AQ02								✓							
QA-AQ03															✓
QA-GW01															✓
QA-GW02									✓	✓	✓	✓	✓	✓	

The '✓' indicates the testing you have requested. **THIS IS NOT A REPORT OF THE RESULTS.**

Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.
Requests for longer term sample storage must be received in writing.
Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.
TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

ENVIROLAB

Chain of Custody

JBS&G

PROJECT NO.: ~~62742~~ 62742	LABORATORY BATCH NO.:
PROJECT NAME: Huntingwood	SAMPLERS: GP/HD
DATE NEEDED BY: STANDARD TAT	QC LEVEL: NEPM (2013)

PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) gpinnet@jbsg.com.au; (3) hdinan@jbsg.com.au nicholson; mclarley

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:
* Job number is 62742 ~~Envs~~ (labels may say 62740)
* please change sample names AQ-QA04 to QA-AQ03 and AQ-QA-05 to QA-AQ04

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	HM	PAH	TRH/BTEX	Asbestos 500mL	OCP/PCBs	PFAS	PAHs	TRH	VOC	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
1 QA-AQ01	SOIL	9/5/22		Bag													* low level
2 QA-01				J + ~~Bag~~ PFAS + ice		X	X	X		X	X						
3 QA-02				J + ice													
4 QA-03		10/5/22		"		X	X	X									
5 QA-AQ02		"		Bag					X								
6 QA-~~03~~ AQ03		11/5/22		~~J + ice~~													
NR QA-AQ04									X								
NR QA-04				J + ice													
7 QA-GW01	WATER	12/5/22		1 large Amber, 4 x V, metals (F), PFAS + ice		X	~~X~~				X	X	X	X			
8 QA-GW02		"		"													
11 ~~QA-GW03~~																	

Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

Job No: 295527

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE:	CONSIGNMENT NOTE NO.	Date Received: 13-5-22	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	Time Received: 1705	COOLER TEMP 4° deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	Received By: AP. els	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	Temp: Cool/Ambient DATE: Cooling: Ice/Freepack Security: Intact/Broken	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

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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, proficiency testing scheme providers and reference materials producers reports and certificates.

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

Attention:	Chris Bielby
Report	966177-AID
Project Name	HUNTINGWOOD DD
Project ID	64632
Received Date	Feb 20, 2023
Date Reported	Feb 25, 2023

Methodology:

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

Project Name HUNTINGWOOD DD
Project ID 64632
Date Sampled Feb 20, 2023
Report 966177-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
HA01-0.0-0.1	23-Fe0053269	Feb 20, 2023	Approximate Sample 672g Sample consisted of: Red-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.
HA01-0.9-1.0	23-Fe0053270	Feb 20, 2023	Approximate Sample 346g 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.
HA02-0.5-0.6	23-Fe0053271	Feb 20, 2023	Approximate Sample 710g 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.
HA02-0.9-1.0	23-Fe0053272	Feb 20, 2023	Approximate Sample 703g 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.
HA03	23-Fe0053273	Feb 20, 2023	Approximate Sample 889g Sample consisted of: Aggregate, soil residue and organic debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
20230220QC01	23-Fe0053274	Feb 20, 2023	Approximate Sample 630g 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	Feb 23, 2023	Indefinite

eurofins

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ABN: 50 005 085 521

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Mayfield West NSW 2304
Tel: +61 2 4968 8448
NATA# 1261
Site# 25079 & 25289

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Christchurch 7675
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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: HUNTINGWOOD DD
Project ID: 64632

Order No.:
Report #: 966177
Phone: 02 8245 0300
Fax:

Received: Feb 20, 2023 12:40 PM
Due: Feb 23, 2023
Priority: 3 Day
Contact Name: Chris Bielby

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	HOLD	Moisture Set	JBS&G Suite 2	BTEXN and Volatile TRH	BTEXN and Volatile TRH
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X
External Laboratory											
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**						
1	HA01-0.0-0.1	Feb 20, 2023		Soil	S23-Fe0053269	X		X	X		
2	HA01-0.9-1.0	Feb 20, 2023		Soil	S23-Fe0053270	X		X	X		
3	HA02-0.5-0.6	Feb 20, 2023		Soil	S23-Fe0053271	X		X	X		
4	HA02-0.9-1.0	Feb 20, 2023		Soil	S23-Fe0053272	X		X	X		
5	HA03	Feb 20, 2023		Soil	S23-Fe0053273	X		X	X		
6	20230220QC01	Feb 20, 2023		Soil	S23-Fe0053274	X		X	X		
7	TS	Feb 20, 2023		Trip Spike (liquid)	S23-Fe0053275						X
8	TB	Feb 20, 2023		Trip Blank (liquid)	S23-Fe0053276					X	
9	HA01-0.5-0.6	Feb 20, 2023		Soil	S23-Fe0053277		X				
10	HA02-0-0.1	Feb 20, 2023		Soil	S23-Fe0053278		X				
Test Counts						6	2	6	6	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 the colour **blue** indicates data provided by customer that may have an impact on the results.
5. Information identified on this report with the colour **orange** indicates sections of the report not covered by the laboratory's scope of NATA accreditation.
6. This report replaces any interim results previously issued.

Holding Times

Please refer to the most recent version of the 'Sample Preservation and Container Guide' for holding times (QS3001).
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:	Percentage weight-for-weight basis, e.g. of asbestos in asbestos-containing finds in soil samples (**% w/w**)
F/fld	Airborne fibre filter loading as Fibres (**N**) per Fields counted (**n**)
F/mL	Airborne fibre reported concentration as Fibres per millilitre of air drawn over the sampler membrane (**C**)
g, kg	Mass, e.g. of whole sample (**M**) or asbestos-containing find within the sample (**m**)
g/kg	Concentration in grams per kilogram
L, mL	Volume, e.g. of air as measured in AFM (**V** = **r** x **t**)
L/min	Airborne fibre sampling Flowrate as litres per minute of air drawn over the sampler membrane (**r**)
min	Time (**t**), e.g. of air sample collection period

Calculations

Airborne Fibre Concentration: $C = \left(\frac{A}{a}\right) \times \left(\frac{N}{n}\right) \times \left(\frac{1}{r}\right) \times \left(\frac{1}{t}\right) = K \times \left(\frac{N}{n}\right) \times \left(\frac{1}{V}\right)$

Asbestos Content (as asbestos): $\%\, w/w = \frac{(m \times P_A)}{M}$

Weighted Average (of asbestos): $\%_{WA} = \sum \frac{(m \times P_A)_x}{x}$

Terms

%asbestos	Estimated percentage of asbestos in a given matrix. May be derived from knowledge or experience of the material, informed by HSG264 *Appendix 2*, else assumed to be 15% in accordance with WA DOH *Appendix 2* (**P_A**).
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded (non-friable) condition. For the purposes of the NEPM and WA DOH, ACM corresponds to material larger than 7 mm x 7 mm.
AF	Asbestos Fines. Asbestos contamination within a soil sample, as defined by WA DOH. Includes loose fibre bundles and small pieces of friable and non-friable material such as asbestos cement fragments mixed with soil. Considered under the NEPM as equivalent to "non-bonded / friable".
AFM	Airborne Fibre Monitoring, e.g. by the MFM.
Amosite	Amosite Asbestos Detected. Amosite may also refer to Fibrous Grunerite or Brown Asbestos. Identified in accordance with AS 4964-2004.
AS	Australian Standard.
Asbestos Content (as asbestos)	Total % w/w asbestos content in asbestos-containing finds in a soil sample (**% w/w**).
Chrysotile	Chrysotile Asbestos Detected. Chrysotile may also refer to Fibrous Serpentine or White Asbestos. Identified in accordance with AS 4964-2004.
COC	Chain of Custody.
Crocidolite	Crocidolite Asbestos Detected. Crocidolite may also refer to Fibrous Riebeckite or Blue Asbestos. Identified in accordance with AS 4964-2004.
Dry	Sample is dried by heating prior to analysis.
DS	Dispersion Staining. Technique required for Unequivocal Identification of asbestos fibres by PLM.
FA	Fibrous Asbestos. Asbestos containing material that is wholly or in part friable, including materials with higher asbestos content with a propensity to become friable with handling, and any material that was previously non-friable and in a severely degraded condition. For the purposes of the NEPM and WA DOH, FA generally corresponds to material larger than 7 mm x 7 mm, although FA may be more difficult to visibly distinguish and may be assessed as AF.
Fibre Count	Total of all fibres (whether asbestos or not) meeting the counting criteria set out in the NOHSC:3003
Fibre ID	Fibre Identification. Unequivocal identification of asbestos fibres according to AS 4964-2004. Includes Chrysotile, Amosite (Grunerite) or Crocidolite asbestos.
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.
HSG248	UK HSE HSG248, *Asbestos: The Analysts Guide*, 2nd Edition (2021).
HSG264	UK HSE HSG264, *Asbestos: The Survey Guide* (2012).
ISO (also ISO/IEC)	International Organization for Standardization / International Electrotechnical Commission.
K Factor	Microscope constant (**K**) as derived from the effective filter area of the given AFM membrane used for collecting the sample (**A**) and the projected eyepiece graticule area of the specific microscope used for the analysis (**a**).
LOR	Limit of Reporting.
MFM (also NOHSC:3003)	Membrane Filter Method. As described by the Australian Government National Occupational Health and Safety Commission, *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres*, 2nd Edition [NOHSC:3003(2005)].
NEPM (also ASC NEPM)	National Environment Protection (Assessment of Site Contamination) Measure, (2013, as amended).
Organic	Organic Fibres Detected. Organic may refer to Natural or Man-Made Polymeric Fibres. Identified in accordance with AS 4964-2004.
PCM	Phase Contrast Microscopy. As used for Fibre Counting according to the MFM.
PLM	Polarised Light Microscopy. As used for Fibre Identification and Trace Analysis according to AS 4964-2004.
SMF	Synthetic Mineral Fibre Detected. SMF may also refer to Man Made Vitreous Fibres. Identified in accordance with AS 4964-2004.
SRA	Sample Receipt Advice.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres (particularly asbestos) in a given sample matrix.
UK HSE HSG	United Kingdom, Health and Safety Executive, Health and Safety Guidance, publication.
UMF	Unidentified Mineral Fibre Detected. Fibrous minerals that are detected but have not been unequivocally identified by PLM with DS according the AS 4964-2004. May include (but not limited to) Actinolite, Anthophyllite or Tremolite asbestos.
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* (updated 2021), including Appendix Four: *Laboratory analysis*
Weighted Average	Combined average % w/w asbestos content of all asbestos-containing finds in the given aliquot or total soil sample (**$\%_{WA}$**).

Comments

23-Fe0053270: Sample received was 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

Asbestos Counter/Identifier:

Laxman Dias	Senior Analyst-Asbestos

Authorised by:

Sayeed Abu	Senior Analyst-Asbestos



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
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Attention: **Chris Bielby**

Report **966177-S**
Project name HUNTINGWOOD DD
Project ID 64632
Received Date Feb 20, 2023

Client Sample ID			**HA01-0.0-0.1**	**HA01-0.9-1.0**	**HA02-0.5-0.6**	**HA02-0.9-1.0**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**S23-Fe0053269**	**S23-Fe0053270**	**S23-Fe0053271**	**S23-Fe0053272**
Date Sampled			**Feb 20, 2023**	**Feb 20, 2023**	**Feb 20, 2023**	**Feb 20, 2023**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
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
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
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	%	145	125	85	130
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
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			HA01-0.0-0.1	HA01-0.9-1.0	HA02-0.5-0.6	HA02-0.9-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S23-Fe0053269	S23-Fe0053270	S23-Fe0053271	S23-Fe0053272
Date Sampled			Feb 20, 2023	Feb 20, 2023	Feb 20, 2023	Feb 20, 2023
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	%	121	120	113	115
p-Terphenyl-d14 (surr.)	1	%	116	122	118	114
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-HCH	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-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	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-HCH (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	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
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	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	150	111	122	117
Tetrachloro-m-xylene (surr.)	1	%	103	101	99	97
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1232	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1242	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1248	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1254	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1260	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Total PCB*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	150	111	122	117
Tetrachloro-m-xylene (surr.)	1	%	103	101	99	97

Client Sample ID			HA01-0.0-0.1	HA01-0.9-1.0	HA02-0.5-0.6	HA02-0.9-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S23-Fe0053269	S23-Fe0053270	S23-Fe0053271	S23-Fe0053272
Date Sampled			Feb 20, 2023	Feb 20, 2023	Feb 20, 2023	Feb 20, 2023
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	10	9.9	15	15
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	28	27	25	26
Copper	5	mg/kg	29	31	28	28
Lead	5	mg/kg	20	23	19	20
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	15	13	13	16
Zinc	5	mg/kg	67	66	62	70
Sample Properties						
% Moisture	1	%	23	20	20	19

Client Sample ID			HA03	20230220QC01
Sample Matrix			Soil	Soil
Eurofins Sample No.			S23-Fe0053273	S23-Fe0053274
Date Sampled			Feb 20, 2023	Feb 20, 2023
Test/Reference	LOR	Unit		
Total Recoverable Hydrocarbons				
TRH C6-C9	20	mg/kg	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100
BTEX				
Benzene	0.1	mg/kg	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	123	107
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5
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			HA03	20230220QC01
Sample Matrix			Soil	Soil
Eurofins Sample No.			S23-Fe0053273	S23-Fe0053274
Date Sampled			Feb 20, 2023	Feb 20, 2023
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	%	109	110
p-Terphenyl-d14 (surr.)	1	%	113	110
Organochlorine Pesticides				
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	123	116
Tetrachloro-m-xylene (surr.)	1	%	100	99
Polychlorinated Biphenyls				
Aroclor-1016	0.1	mg/kg	< 0.1	< 0.1
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1
Aroclor-1232	0.1	mg/kg	< 0.1	< 0.1
Aroclor-1242	0.1	mg/kg	< 0.1	< 0.1
Aroclor-1248	0.1	mg/kg	< 0.1	< 0.1
Aroclor-1254	0.1	mg/kg	< 0.1	< 0.1

Client Sample ID			HA03	20230220QC01
Sample Matrix			Soil	Soil
Eurofins Sample No.			S23-Fe0053273	S23-Fe0053274
Date Sampled			Feb 20, 2023	Feb 20, 2023
Test/Reference	LOR	Unit		
Polychlorinated Biphenyls				
Aroclor-1260	0.1	mg/kg	< 0.1	< 0.1
Total PCB*	0.1	mg/kg	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	123	116
Tetrachloro-m-xylene (surr.)	1	%	100	99
Heavy Metals				
Arsenic	2	mg/kg	< 2	9.7
Cadmium	0.4	mg/kg	< 0.4	< 0.4
Chromium	5	mg/kg	100	28
Copper	5	mg/kg	26	61
Lead	5	mg/kg	6.4	24
Mercury	0.1	mg/kg	< 0.1	< 0.1
Nickel	5	mg/kg	97	26
Zinc	5	mg/kg	140	140
Sample Properties				
% Moisture	1	%	6.8	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	Feb 24, 2023	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Feb 24, 2023	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	Feb 24, 2023	14 Days
- Method: LTM-ORG-2010 BTEX and Volatile TRH			
JBS&G Suite 2			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Feb 24, 2023	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Polycyclic Aromatic Hydrocarbons	Sydney	Feb 24, 2023	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Organochlorine Pesticides	Sydney	Feb 24, 2023	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Polychlorinated Biphenyls	Sydney	Feb 24, 2023	28 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Metals M8	Sydney	Feb 24, 2023	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
% Moisture	Sydney	Feb 23, 2023	14 Days
- Method: LTM-GEN-7080 Moisture			

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Address: Level 1, 50 Margaret St
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NSW 2000

Project Name: HUNTINGWOOD DD
Project ID: 64632

Order No.:
Report #: 966177
Phone: 02 8245 0300
Fax:

Received: Feb 20, 2023 12:40 PM
Due: Feb 23, 2023
Priority: 3 Day
Contact Name: Chris Bielby

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	HOLD	Moisture Set	JBS&G Suite 2	BTEXN and Volatile TRH	BTEXN and Volatile TRH
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X
External Laboratory											
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**						
1	HA01-0.0-0.1	Feb 20, 2023		Soil	S23-Fe0053269	X		X	X		
2	HA01-0.9-1.0	Feb 20, 2023		Soil	S23-Fe0053270	X		X	X		
3	HA02-0.5-0.6	Feb 20, 2023		Soil	S23-Fe0053271	X		X	X		
4	HA02-0.9-1.0	Feb 20, 2023		Soil	S23-Fe0053272	X		X	X		
5	HA03	Feb 20, 2023		Soil	S23-Fe0053273	X		X	X		
6	20230220QC01	Feb 20, 2023		Soil	S23-Fe0053274	X		X	X		
7	TS	Feb 20, 2023		Trip Spike (liquid)	S23-Fe0053275						X
8	TB	Feb 20, 2023		Trip Blank (liquid)	S23-Fe0053276					X	
9	HA01-0.5-0.6	Feb 20, 2023		Soil	S23-Fe0053277		X				
10	HA02-0-0.1	Feb 20, 2023		Soil	S23-Fe0053278		X				
Test Counts						6	2	6	6	1	1

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Internal Quality Control Review and Glossary

General

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

Holding Times

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

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

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

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

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

Units

mg/kg: milligrams per kilogram
mg/L: milligrams per litre
µg/L: micrograms per litre
ppm: parts per million
ppb: parts per billion
%: Percentage
org/100 mL: Organisms per 100 millilitres
NTU: Nephelometric Turbidity Units
MPN/100 mL: Most Probable Number of organisms per 100 millilitres
CFU: Colony forming unit

Terms

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

QC - Acceptance Criteria

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

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

Results <10 times the LOR: No Limit

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

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

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

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

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

QC Data General Comments

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

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-HCH	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-HCH	mg/kg	< 0.05			0.05	Pass	
d-HCH	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	

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-HCH (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.05			0.05	Pass	
Toxaphene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/kg	< 0.1			0.1	Pass	
Aroclor-1221	mg/kg	< 0.1			0.1	Pass	
Aroclor-1232	mg/kg	< 0.1			0.1	Pass	
Aroclor-1242	mg/kg	< 0.1			0.1	Pass	
Aroclor-1248	mg/kg	< 0.1			0.1	Pass	
Aroclor-1254	mg/kg	< 0.1			0.1	Pass	
Aroclor-1260	mg/kg	< 0.1			0.1	Pass	
Total PCB*	mg/kg	< 0.1			0.1	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	113			70-130	Pass	
TRH C10-C14	%	74			70-130	Pass	
TRH C6-C10	%	115			70-130	Pass	
TRH >C10-C16	%	71			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	90			70-130	Pass	
Toluene	%	90			70-130	Pass	
Ethylbenzene	%	99			70-130	Pass	
m&p-Xylenes	%	111			70-130	Pass	
o-Xylene	%	114			70-130	Pass	
Xylenes - Total*	%	112			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	82			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	124			70-130	Pass	
Acenaphthylene	%	114			70-130	Pass	
Anthracene	%	114			70-130	Pass	
Benz(a)anthracene	%	116			70-130	Pass	
Benzo(a)pyrene	%	122			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Benzo(b&j)fluoranthene	%	112			70-130	Pass	
Benzo(g.h.i)perylene	%	107			70-130	Pass	
Benzo(k)fluoranthene	%	122			70-130	Pass	
Chrysene	%	130			70-130	Pass	
Dibenz(a.h)anthracene	%	99			70-130	Pass	
Fluoranthene	%	120			70-130	Pass	
Fluorene	%	122			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	103			70-130	Pass	
Naphthalene	%	122			70-130	Pass	
Phenanthrene	%	120			70-130	Pass	
Pyrene	%	119			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	99			70-130	Pass	
4.4'-DDD	%	105			70-130	Pass	
4.4'-DDE	%	98			70-130	Pass	
4.4'-DDT	%	110			70-130	Pass	
a-HCH	%	97			70-130	Pass	
Aldrin	%	95			70-130	Pass	
b-HCH	%	101			70-130	Pass	
d-HCH	%	99			70-130	Pass	
Dieldrin	%	103			70-130	Pass	
Endosulfan I	%	98			70-130	Pass	
Endosulfan II	%	98			70-130	Pass	
Endosulfan sulphate	%	94			70-130	Pass	
Endrin	%	100			70-130	Pass	
Endrin aldehyde	%	84			70-130	Pass	
Endrin ketone	%	98			70-130	Pass	
g-HCH (Lindane)	%	101			70-130	Pass	
Heptachlor	%	119			70-130	Pass	
Heptachlor epoxide	%	106			70-130	Pass	
Hexachlorobenzene	%	93			70-130	Pass	
Methoxychlor	%	76			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1016	%	89			70-130	Pass	
Aroclor-1260	%	95			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	108			80-120	Pass	
Cadmium	%	109			80-120	Pass	
Chromium	%	108			80-120	Pass	
Copper	%	107			80-120	Pass	
Lead	%	107			80-120	Pass	
Mercury	%	112			80-120	Pass	
Nickel	%	110			80-120	Pass	
Zinc	%	109			80-120	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C9	S23-Fe0042868	NCP	%	86			70-130	Pass	
TRH C10-C14	S23-Fe0048955	NCP	%	91			70-130	Pass	
TRH C6-C10	S23-Fe0042868	NCP	%	90			70-130	Pass	
TRH >C10-C16	S23-Fe0048955	NCP	%	84			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
BTEX				Result 1					
Benzene	S23-Fe0042868	NCP	%	93			70-130	Pass	
Toluene	S23-Fe0042868	NCP	%	79			70-130	Pass	
Ethylbenzene	S23-Fe0042868	NCP	%	94			70-130	Pass	
m&p-Xylenes	S23-Fe0042868	NCP	%	108			70-130	Pass	
o-Xylene	S23-Fe0042868	NCP	%	112			70-130	Pass	
Xylenes - Total*	S23-Fe0042868	NCP	%	109			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S23-Fe0042868	NCP	%	74			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S23-Fe0043067	NCP	%	96			70-130	Pass	
4.4'-DDD	S23-Fe0043067	NCP	%	101			70-130	Pass	
4.4'-DDE	S23-Fe0043067	NCP	%	92			70-130	Pass	
4.4'-DDT	S23-Fe0043067	NCP	%	102			70-130	Pass	
a-HCH	S23-Fe0043067	NCP	%	91			70-130	Pass	
Aldrin	S23-Fe0043067	NCP	%	96			70-130	Pass	
b-HCH	S23-Fe0043067	NCP	%	88			70-130	Pass	
d-HCH	S23-Fe0043067	NCP	%	86			70-130	Pass	
Dieldrin	S23-Fe0043067	NCP	%	101			70-130	Pass	
Endosulfan I	S23-Fe0043067	NCP	%	95			70-130	Pass	
Endosulfan II	S23-Fe0043067	NCP	%	99			70-130	Pass	
Endosulfan sulphate	S23-Fe0043067	NCP	%	90			70-130	Pass	
Endrin	S23-Fe0043067	NCP	%	101			70-130	Pass	
Endrin aldehyde	S23-Fe0043067	NCP	%	88			70-130	Pass	
Endrin ketone	S23-Fe0043067	NCP	%	96			70-130	Pass	
g-HCH (Lindane)	S23-Fe0043067	NCP	%	102			70-130	Pass	
Heptachlor	S23-Fe0043067	NCP	%	114			70-130	Pass	
Heptachlor epoxide	S23-Fe0043067	NCP	%	106			70-130	Pass	
Hexachlorobenzene	S23-Fe0043067	NCP	%	88			70-130	Pass	
Methoxychlor	S23-Fe0046215	NCP	%	126			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls				Result 1					
Aroclor-1016	S23-Fe0043067	NCP	%	78			70-130	Pass	
Aroclor-1260	S23-Fe0043067	NCP	%	93			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S23-Fe0045115	NCP	%	106			75-125	Pass	
Cadmium	S23-Fe0045115	NCP	%	114			75-125	Pass	
Chromium	S23-Fe0045115	NCP	%	108			75-125	Pass	
Copper	S23-Fe0045115	NCP	%	107			75-125	Pass	
Lead	S23-Fe0045115	NCP	%	112			75-125	Pass	
Mercury	S23-Fe0045115	NCP	%	112			75-125	Pass	
Nickel	S23-Fe0045115	NCP	%	106			75-125	Pass	
Zinc	S23-Fe0045115	NCP	%	107			75-125	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S23-Fe0049158	NCP	%	88			70-130	Pass	
Acenaphthylene	S23-Fe0049158	NCP	%	89			70-130	Pass	
Anthracene	S23-Fe0049158	NCP	%	82			70-130	Pass	
Benz(a)anthracene	S23-Fe0049158	NCP	%	76			70-130	Pass	
Benzo(a)pyrene	S23-Fe0049158	NCP	%	87			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Benzo(b&j)fluoranthene	S23-Fe0049158	NCP	%	77			70-130	Pass	
Benzo(g.h.i)perylene	S23-Fe0049158	NCP	%	77			70-130	Pass	
Benzo(k)fluoranthene	S23-Fe0049158	NCP	%	87			70-130	Pass	
Chrysene	S23-Fe0049158	NCP	%	88			70-130	Pass	
Dibenz(a.h)anthracene	S23-Fe0049158	NCP	%	76			70-130	Pass	
Fluoranthene	S23-Fe0049158	NCP	%	85			70-130	Pass	
Fluorene	S23-Fe0049158	NCP	%	86			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S23-Fe0049158	NCP	%	77			70-130	Pass	
Naphthalene	S23-Fe0049158	NCP	%	88			70-130	Pass	
Phenanthrene	S23-Fe0049158	NCP	%	78			70-130	Pass	
Pyrene	S23-Fe0049158	NCP	%	85			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	S23-Fe0047130	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S23-Fe0040125	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S23-Fe0040125	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S23-Fe0040125	NCP	mg/kg	58	< 50	27	30%	Pass	
TRH C6-C10	S23-Fe0047130	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S23-Fe0040125	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S23-Fe0040125	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S23-Fe0040125	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S23-Fe0047130	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S23-Fe0047130	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S23-Fe0047130	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S23-Fe0047130	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S23-Fe0047130	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S23-Fe0047130	NCP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S23-Fe0047130	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	N23-Fe0035256	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	N23-Fe0035256	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	N23-Fe0035256	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	N23-Fe0035256	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	N23-Fe0035256	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	N23-Fe0035256	NCP	mg/kg	0.5	< 0.5	42	30%	Fail	Q15
Benzo(g.h.i)perylene	N23-Fe0035256	NCP	mg/kg	0.6	< 0.5	43	30%	Fail	Q15
Benzo(k)fluoranthene	N23-Fe0035256	NCP	mg/kg	0.7	< 0.5	74	30%	Fail	Q15
Chrysene	N23-Fe0035256	NCP	mg/kg	0.7	0.5	41	30%	Fail	Q15
Dibenz(a.h)anthracene	N23-Fe0035256	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	N23-Fe0035256	NCP	mg/kg	1.3	0.6	67	30%	Fail	Q15
Fluorene	N23-Fe0035256	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	N23-Fe0035256	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	N23-Fe0035256	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	N23-Fe0035256	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	N23-Fe0035256	NCP	mg/kg	1.3	0.7	52	30%	Fail	Q15

Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S23-Fe0030252	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S23-Fe0030252	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S23-Fe0030252	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S23-Fe0030252	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-HCH	S23-Fe0030252	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S23-Fe0030252	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-HCH	S23-Fe0030252	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-HCH	S23-Fe0030252	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S23-Fe0030252	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S23-Fe0030252	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S23-Fe0030252	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S23-Fe0030252	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S23-Fe0030252	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S23-Fe0030252	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S23-Fe0030252	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-HCH (Lindane)	S23-Fe0030252	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S23-Fe0030252	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S23-Fe0030252	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S23-Fe0030252	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S23-Fe0030252	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Toxaphene	S23-Fe0030252	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	S23-Fe0030252	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1221	S23-Fe0030252	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	S23-Fe0030252	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1242	S23-Fe0030252	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1248	S23-Fe0030252	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1254	S23-Fe0030252	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1260	S23-Fe0030252	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Total PCB*	S23-Fe0030252	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S23-Fe0044742	NCP	mg/kg	12	11	7.5	30%	Pass	
Cadmium	S23-Fe0044742	NCP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S23-Fe0044742	NCP	mg/kg	9.0	8.8	2.2	30%	Pass	
Copper	S23-Fe0044742	NCP	mg/kg	16	14	13	30%	Pass	
Lead	S23-Fe0044742	NCP	mg/kg	17	18	2.1	30%	Pass	
Mercury	S23-Fe0044742	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S23-Fe0044742	NCP	mg/kg	5.9	6.1	3.8	30%	Pass	
Zinc	S23-Fe0044742	NCP	mg/kg	49	45	9.1	30%	Pass	
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	S23-Fe0052919	NCP	%	18	17	7.6	30%	Pass	

Comments

Sample Integrity

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

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
Q15	The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.

Authorised by:

Andrew Black	Analytical Services Manager
Mickael Ros	Senior Analyst-Metal
Raymond Siu	Senior Analyst-Volatile
Roopesh Rangarajan	Senior Analyst-Organic
Sayeed Abu	Senior Analyst-Asbestos



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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NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
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Attention: **Chris Bielby**

Report **966177-W**
Project name HUNTINGWOOD DD
Project ID 64632
Received Date Feb 20, 2023

Client Sample ID			**TS**	**TB**
Sample Matrix			**Trip Spike (liquid)**	**Trip Blank (liquid)**
Eurofins Sample No.			**S23-Fe0053275**	**S23-Fe0053276**
Date Sampled			**Feb 20, 2023**	**Feb 20, 2023**
Test/Reference	LOR	Unit		
TRH C6-C10	1	%	89	-
Naphthalene[N02]	0.01	mg/L	-	< 0.01
Total Recoverable Hydrocarbons				
Naphthalene	1	%	89	-
TRH C6-C9	1	%	90	-
BTEX				
Benzene	1	%	120	-
Ethylbenzene	1	%	110	-
m&p-Xylenes	1	%	110	-
o-Xylene	1	%	110	-
Toluene	1	%	110	-
Xylenes - Total	1	%	110	-
4-Bromofluorobenzene (surr.)	1	%	79	-
Total Recoverable Hydrocarbons				
TRH C6-C9	0.02	mg/L	-	< 0.02
TRH C6-C10	0.02	mg/L	-	< 0.02
TRH C6-C10 less BTEX (F1)[N04]	0.02	mg/L	-	< 0.02
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	%	-	76

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	Feb 23, 2023	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons	Sydney	Feb 23, 2023	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	Feb 23, 2023	14 Days
- Method: LTM-ORG-2010 BTEX and Volatile TRH			

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Christchurch 7675
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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: HUNTINGWOOD DD
Project ID: 64632

Order No.:
Report #: 966177
Phone: 02 8245 0300
Fax:

Received: Feb 20, 2023 12:40 PM
Due: Feb 23, 2023
Priority: 3 Day
Contact Name: Chris Bielby

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	HOLD	Moisture Set	JBS&G Suite 2	BTEXN and Volatile TRH	BTEXN and Volatile TRH
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X
External Laboratory											
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**						
1	HA01-0.0-0.1	Feb 20, 2023		Soil	S23-Fe0053269	X		X	X		
2	HA01-0.9-1.0	Feb 20, 2023		Soil	S23-Fe0053270	X		X	X		
3	HA02-0.5-0.6	Feb 20, 2023		Soil	S23-Fe0053271	X		X	X		
4	HA02-0.9-1.0	Feb 20, 2023		Soil	S23-Fe0053272	X		X	X		
5	HA03	Feb 20, 2023		Soil	S23-Fe0053273	X		X	X		
6	20230220QC01	Feb 20, 2023		Soil	S23-Fe0053274	X		X	X		
7	TS	Feb 20, 2023		Trip Spike (liquid)	S23-Fe0053275						X
8	TB	Feb 20, 2023		Trip Blank (liquid)	S23-Fe0053276					X	
9	HA01-0.5-0.6	Feb 20, 2023		Soil	S23-Fe0053277		X				
10	HA02-0-0.1	Feb 20, 2023		Soil	S23-Fe0053278		X				
Test Counts						6	2	6	6	1	1

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Internal Quality Control Review and Glossary

General

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

Holding Times

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

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

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

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

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

Units

mg/kg: milligrams per kilogram
mg/L: milligrams per litre
µg/L: micrograms per litre
ppm: parts per million
ppb: parts per billion
%: Percentage
org/100 mL: Organisms per 100 millilitres
NTU: Nephelometric Turbidity Units
MPN/100 mL: Most Probable Number of organisms per 100 millilitres
CFU: Colony forming unit

Terms

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

QC - Acceptance Criteria

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

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

Results <10 times the LOR: No Limit

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

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

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

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

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

QC Data General Comments

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

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Naphthalene	mg/L	< 0.01			0.01	Pass	
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/L	< 0.02			0.02	Pass	
TRH C6-C10	mg/L	< 0.02			0.02	Pass	
Method Blank							
BTEX							
Benzene	mg/L	< 0.001			0.001	Pass	
Toluene	mg/L	< 0.001			0.001	Pass	
Ethylbenzene	mg/L	< 0.001			0.001	Pass	
m&p-Xylenes	mg/L	< 0.002			0.002	Pass	
o-Xylene	mg/L	< 0.001			0.001	Pass	
Xylenes - Total*	mg/L	< 0.003			0.003	Pass	
LCS - % Recovery							
Naphthalene	%	93			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	116			70-130	Pass	
TRH C6-C10	%	116			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	102			70-130	Pass	
Toluene	%	105			70-130	Pass	
Ethylbenzene	%	102			70-130	Pass	
m&p-Xylenes	%	107			70-130	Pass	
o-Xylene	%	103			70-130	Pass	
Xylenes - Total*	%	106			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
				Result 1	Result 2	RPD			
Naphthalene	S23-Fe0033739	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	S23-Fe0033739	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH C6-C10	S23-Fe0033739	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S23-Fe0033739	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Toluene	S23-Fe0033739	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Ethylbenzene	S23-Fe0033739	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
m&p-Xylenes	S23-Fe0033739	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
o-Xylene	S23-Fe0033739	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Xylenes - Total*	S23-Fe0033739	NCP	mg/L	< 0.003	< 0.003	<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
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.

Authorised by:

Andrew Black	Analytical Services Manager
Raymond Siu	Senior Analyst-Volatile



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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Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Chris Bielby
Project name:	HUNTINGWOOD DD
Project ID:	64632
Turnaround time:	3 Day
Date/Time received	Feb 20, 2023 12:40 PM
Eurofins reference	966177

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	Sample Temperature of chilled sample on the batch as recorded by Eurofins Sample Receipt : 2.2 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

20230220QA01 sent to ENVIROLAB.

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Andrew Black on phone : (+61) 2 9900 8490 or by email: AndrewBlack@eurofins.com

Results will be delivered electronically via email to Chris Bielby - cbielby@jbsg.com.au.

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

Project Name: HUNTINGWOOD DD
Project ID: 64632

Order No.:
Report #: 966177
Phone: 02 8245 0300
Fax:

Received: Feb 20, 2023 12:40 PM
Due: Feb 23, 2023
Priority: 3 Day
Contact Name: Chris Bielby

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	HOLD	Moisture Set	JBS&G Suite 2	BTEXN and Volatile TRH	BTEXN and Volatile TRH
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X
External Laboratory											
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**						
1	HA01-0.0-0.1	Feb 20, 2023		Soil	S23-Fe0053269	X		X	X		
2	HA01-0.9-1.0	Feb 20, 2023		Soil	S23-Fe0053270	X		X	X		
3	HA02-0.5-0.6	Feb 20, 2023		Soil	S23-Fe0053271	X		X	X		
4	HA02-0.9-1.0	Feb 20, 2023		Soil	S23-Fe0053272	X		X	X		
5	HA03	Feb 20, 2023		Soil	S23-Fe0053273	X		X	X		
6	20230220QC01	Feb 20, 2023		Soil	S23-Fe0053274	X		X	X		
7	TS	Feb 20, 2023		Trip Spike (liquid)	S23-Fe0053275						X
8	TB	Feb 20, 2023		Trip Blank (liquid)	S23-Fe0053276					X	
9	HA01-0.5-0.6	Feb 20, 2023		Soil	S23-Fe0053277		X				
10	HA02-0-0.1	Feb 20, 2023		Soil	S23-Fe0053278		X				
Test Counts						6	2	6	6	1	1

Chain of Custody

JBS&G

PROJECT NO.: 64832
PROJECT NAME: Huntingwood ~~East~~ DD
DATE NEEDED BY: 3 DAY TAT
LABORATORY BATCH NO.:
SAMPLERS: DR
QC LEVEL: NEPM (2013)
PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....Shelby.....@jbsg.com.au; (3) .....drowan.....@jbsg.com.au
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

Please forward 20230220QA01 Jar + Bag to Envirolab

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	JBZA	BTEX	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
HA01_0-0.1	SOIL	20/2/23		Jar + Bag + ICE		X			X	
HA01_0.5-0.6										
HA01_0.9-1.0						X			X	
HA02_0-0.1										
HA02_0.5-0.6						X			X	
HA02_0.9-1.0						X			X	
HA03						X			X	
20230220QC01				1		X			X	
TS/TB	WATER			Vile + ICE			X		X	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: David Rowan DATE: 20/02/2023	CONSIGNMENT NOTE NO.	NAME: DATE: 20/2 12:20pm	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	OF:	COOLER TEMP 2.2 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

Controlled Copy (June 2015)
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966177

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CERTIFICATE OF ANALYSIS 317242

Client Details

Client	JBS & G (NSW & WA) Pty Ltd
Attention	Chris Bielby
Address	Level 1, 50 Margaret St, Sydney, NSW, 2000

Sample Details

Your Reference	**64632, Huntingwood**
Number of Samples	1 Soil
Date samples received	23/02/2023
Date completed instructions received	23/02/2023

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	28/02/2023
Date of Issue	28/02/2023

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Asbestos Approved By
Analysed by Asbestos Approved Analyst: Stuart Chen
Authorised by Asbestos Approved Signatory: Lucy Zhu

Results Approved By
Hannah Nguyen, Metals Supervisor
Josh Williams, Organics Supervisor
Lucy Zhu, Asbestos Supervisor

Authorised By



Nancy Zhang, Laboratory Manager

vTRH(C6-C10)/BTEXN in Soil		
Our Reference		317242-1
Your Reference	UNITS	20230220QA01
Date Sampled		20/02/2023
Type of sample		Soil
Date extracted	-	24/02/2023
Date analysed	-	27/02/2023
TRH C_6 - C_9	mg/kg	<25
TRH C_6 - C_{10}	mg/kg	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25
Benzene	mg/kg	<0.2
Toluene	mg/kg	<0.5
Ethylbenzene	mg/kg	<1
m+p-xylene	mg/kg	<2
o-Xylene	mg/kg	<1
Naphthalene	mg/kg	<1
Total +ve Xylenes	mg/kg	<1
Surrogate aaa-Trifluorotoluene	%	81

svTRH (C10-C40) in Soil		
Our Reference		317242-1
Your Reference	UNITS	20230220QA01
Date Sampled		20/02/2023
Type of sample		Soil
Date extracted	-	24/02/2023
Date analysed	-	25/02/2023
TRH C_{10} - C_{14}	mg/kg	<50
TRH C_{15} - C_{28}	mg/kg	<100
TRH C_{29} - C_{36}	mg/kg	<100
Total +ve TRH (C10-C36)	mg/kg	<50
TRH >C_{10} -C_{16}	mg/kg	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50
TRH >C_{16} -C_{34}	mg/kg	<100
TRH >C_{34} -C_{40}	mg/kg	<100
Total +ve TRH (>C10-C40)	mg/kg	<50
Surrogate o-Terphenyl	%	86

PAHs in Soil		
Our Reference		317242-1
Your Reference	UNITS	20230220QA01
Date Sampled		20/02/2023
Type of sample		Soil
Date extracted	-	24/02/2023
Date analysed	-	27/02/2023
Naphthalene	mg/kg	<0.1
Acenaphthylene	mg/kg	<0.1
Acenaphthene	mg/kg	<0.1
Fluorene	mg/kg	<0.1
Phenanthrene	mg/kg	<0.1
Anthracene	mg/kg	<0.1
Fluoranthene	mg/kg	<0.1
Pyrene	mg/kg	<0.1
Benzo(a)anthracene	mg/kg	<0.1
Chrysene	mg/kg	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2
Benzo(a)pyrene	mg/kg	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1
Total +ve PAH's	mg/kg	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5
Surrogate p-Terphenyl-d14	%	84

Organochlorine Pesticides in soil		
Our Reference		317242-1
Your Reference	UNITS	20230220QA01
Date Sampled		20/02/2023
Type of sample		Soil
Date extracted	-	24/02/2023
Date analysed	-	27/02/2023
alpha-BHC	mg/kg	<0.1
HCB	mg/kg	<0.1
beta-BHC	mg/kg	<0.1
gamma-BHC	mg/kg	<0.1
Heptachlor	mg/kg	<0.1
delta-BHC	mg/kg	<0.1
Aldrin	mg/kg	<0.1
Heptachlor Epoxide	mg/kg	<0.1
gamma-Chlordane	mg/kg	<0.1
alpha-chlordane	mg/kg	<0.1
Endosulfan I	mg/kg	<0.1
pp-DDE	mg/kg	<0.1
Dieldrin	mg/kg	<0.1
Endrin	mg/kg	<0.1
Endosulfan II	mg/kg	<0.1
pp-DDD	mg/kg	<0.1
Endrin Aldehyde	mg/kg	<0.1
pp-DDT	mg/kg	<0.1
Endosulfan Sulphate	mg/kg	<0.1
Methoxychlor	mg/kg	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1
Surrogate TCMX	%	98

PCBs in Soil		
Our Reference		317242-1
Your Reference	UNITS	20230220QA01
Date Sampled		20/02/2023
Type of sample		Soil
Date extracted	-	24/02/2023
Date analysed	-	27/02/2023
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	%	98

Acid Extractable metals in soil		
Our Reference		317242-1
Your Reference	UNITS	20230220QA01
Date Sampled		20/02/2023
Type of sample		Soil
Date prepared	-	24/02/2023
Date analysed	-	24/02/2023
Arsenic	mg/kg	7
Cadmium	mg/kg	<0.4
Chromium	mg/kg	21
Copper	mg/kg	30
Lead	mg/kg	19
Mercury	mg/kg	<0.1
Nickel	mg/kg	11
Zinc	mg/kg	54

Moisture		
Our Reference		317242-1
Your Reference	UNITS	20230220QA01
Date Sampled		20/02/2023
Type of sample		Soil
Date prepared	-	24/02/2023
Date analysed	-	27/02/2023
Moisture	%	19

Asbestos ID - soils NEPM - ASB-001		
Our Reference		317242-1
Your Reference	UNITS	20230220QA01
Date Sampled		20/02/2023
Type of sample		Soil
Date analysed	-	24/02/2023
Sample mass tested	g	561.17
Sample Description	-	Brown clayey soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected
ACM >7mm Estimation*	g	–
FA and AF Estimation*	g	–
ACM >7mm Estimation*	%(w/w)	<0.01
FA and AF Estimation*#2	%(w/w)	<0.001

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.
Inorg-008	Moisture content determined by heating at 105+/-5 °C for a minimum of 12 hours.
Metals-020	Determination of various metals by ICP-AES.
Metals-021	Determination of Mercury by Cold Vapour AAS.
Org-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.

Method ID	Methodology Summary
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 and/or GC-MS/MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013. For soil results:- 1. 'EQ PQL'values are assuming all contributing PAHs reported as <PQL are actually at the PQL. This is the most conservative approach and can give false positive TEQs given that PAHs that contribute to the TEQ calculation may not be present. 2. 'EQ zero'values are assuming all contributing PAHs reported as <PQL are zero. This is the least conservative approach and is more susceptible to false negative TEQs when PAHs that contribute to the TEQ calculation are present but below PQL. 3. 'EQ half PQL'values are assuming all contributing PAHs reported as <PQL are half the stipulated PQL. Hence a mid-point between the most and least conservative approaches above. Note, the Total +ve PAHs PQL is reflective of the lowest individual PQL and is therefore "Total +ve PAHs" is simply a sum of the positive individual PAHs.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	[NT]
Date extracted	-			24/02/2023	[NT]	[NT]	[NT]	[NT]	24/02/2023	[NT]
Date analysed	-			27/02/2023	[NT]	[NT]	[NT]	[NT]	27/02/2023	[NT]
TRH C_6 - C_9	mg/kg	25	Org-023	<25	[NT]	[NT]	[NT]	[NT]	107	[NT]
TRH C_6 - C_{10}	mg/kg	25	Org-023	<25	[NT]	[NT]	[NT]	[NT]	107	[NT]
Benzene	mg/kg	0.2	Org-023	<0.2	[NT]	[NT]	[NT]	[NT]	106	[NT]
Toluene	mg/kg	0.5	Org-023	<0.5	[NT]	[NT]	[NT]	[NT]	106	[NT]
Ethylbenzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	98	[NT]
m+p-xylene	mg/kg	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	112	[NT]
o-Xylene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	111	[NT]
Naphthalene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	87	[NT]	[NT]	[NT]	[NT]	91	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-6	[NT]
Date extracted	-			24/02/2023	[NT]	[NT]	[NT]	[NT]	24/02/2023	[NT]
Date analysed	-			27/02/2023	[NT]	[NT]	[NT]	[NT]	27/02/2023	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	105	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	100	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	100	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	105	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	100	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	100	[NT]
Surrogate o-Terphenyl	%		Org-020	83	[NT]	[NT]	[NT]	[NT]	91	[NT]

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	[NT]
Date extracted	-			24/02/2023	[NT]	[NT]	[NT]	[NT]	24/02/2023	[NT]
Date analysed	-			27/02/2023	[NT]	[NT]	[NT]	[NT]	27/02/2023	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	95	[NT]
Acenaphthylene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	99	[NT]
Fluorene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	92	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	92	[NT]
Anthracene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	108	[NT]
Pyrene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	111	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	73	[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	100	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	89	[NT]	[NT]	[NT]	[NT]	87	[NT]

QUALITY CONTROL: Organochlorine Pesticides in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	[NT]
Date extracted	-			24/02/2023	[NT]	[NT]	[NT]	[NT]	24/02/2023	[NT]
Date analysed	-			27/02/2023	[NT]	[NT]	[NT]	[NT]	27/02/2023	[NT]
alpha-BHC	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	94	[NT]
HCB	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	94	[NT]
gamma-BHC	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	101	[NT]
delta-BHC	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	97	[NT]
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	92	[NT]
gamma-Chlordane	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	105	[NT]
Dieldrin	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	104	[NT]
Endrin	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	90	[NT]
Endosulfan II	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	98	[NT]
Endrin Aldehyde	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	94	[NT]
Methoxychlor	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	92	[NT]	[NT]	[NT]	[NT]	87	[NT]

QUALITY CONTROL: PCBs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	[NT]
Date extracted	-			24/02/2023	[NT]	[NT]	[NT]	[NT]	24/02/2023	[NT]
Date analysed	-			27/02/2023	[NT]	[NT]	[NT]	[NT]	27/02/2023	[NT]
Aroclor 1016	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	105	[NT]
Aroclor 1260	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate TCMX	%		Org-021	92	[NT]	[NT]	[NT]	[NT]	87	[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	-			24/02/2023	[NT]	[NT]	[NT]	[NT]	24/02/2023	[NT]
Date analysed	-			24/02/2023	[NT]	[NT]	[NT]	[NT]	24/02/2023	[NT]
Arsenic	mg/kg	4	Metals-020	<4	[NT]	[NT]	[NT]	[NT]	105	[NT]
Cadmium	mg/kg	0.4	Metals-020	<0.4	[NT]	[NT]	[NT]	[NT]	103	[NT]
Chromium	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	106	[NT]
Copper	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	101	[NT]
Lead	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	104	[NT]
Mercury	mg/kg	0.1	Metals-021	<0.1	[NT]	[NT]	[NT]	[NT]	121	[NT]
Nickel	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	105	[NT]
Zinc	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	106	[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.

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Report Comments

Asbestos-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.

Envirolab

Chain of Custody

JBS&G

PROJECT NO.: 64832	LABORATORY BATCH NO.:
PROJECT NAME: Huntingwood DD	SAMPLERS: DR
DATE NEEDED BY: 3 DAY TAT	QC LEVEL: NEPM (2013)

PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....@jbsg.com.au; (3) d.rowan.....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	SA	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
1	20230220QA01	Soil	20/02		Jar + Bag + ICE		X		X	

ENVIROLAB Enviro Lab Services 12 Ashley St Chatswood NSW 2067 Ph: (02) 9910 6200

JOB NO: 317202

Date Received: 23/2/23

Time Received: 1630

Received by: KW

Temp: Cool/Ambient

Cooling: Ice/Icepack

Security: Intact/Broken/None

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: David Rowan DATE: 20/02/23	CONSIGNMENT NOTE NO.	NAME: Katy Wayne	COOLER SEAL (Yes)..... No ..... Intact (.....) Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 23/2/23 1630	COOLER TEMP ...6... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF: ELS SYD	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

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Appendix I Quality Assurance / Quality Control

RPDs (soil)
Project Number: 62742
Project Name: Huntingwood SEARs

Field Duplicates (SOIL)
Filter: SDG in('890110','890111','ENVIROLAB 2022-05-16T00:00:00')

SDG	890110	890110		890110	890110				
Field ID	MW01-0-0.1	QC-01	**RPD**	SB01-0.3-0.4	QC-03	**RPD**			
Sampled Date/Time	9/05/2022	9/05/2022		10/05/2022	10/05/2022				
Chem_Group	**ChemName**	**Units**	**EQL**						
Metals & Metalloids	Arsenic	mg/kg	2 : 4 (Interlab)	9.6	7.3	27	6.1	4.4	32
	Cadmium	mg/kg	0.4	<0.4	<0.4	0	<0.4	<0.4	0
	Chromium (III+VI)	mg/kg	5 : 1 (Interlab)	24	20	18	**16**	**180**	**167**
	Copper	mg/kg	5 : 1 (Interlab)	**31**	**17**	**58**	**37**	**21**	**55**
	Lead	mg/kg	5 : 1 (Interlab)	**23**	**13**	**56**	14	10	33
	Mercury	mg/kg	0.1	<0.1	<0.1	0	<0.1	<0.1	0
	Nickel	mg/kg	5 : 1 (Interlab)	19	13	38	15	11	31
	Zinc	mg/kg	5 : 1 (Interlab)	**89**	**50**	**56**	**71**	**42**	**51**
TPHs (NEPC 1999)	C6-C9 Fraction	mg/kg	20 : 25 (Interlab)	<20	<20	0	<20	<20	0
	C10-C14 Fraction	mg/kg	20 : 50 (Interlab)	**32**	**<20**	**105**	<20	<20	0
	C15-C28 Fraction	mg/kg	50 : 100 (Interlab)	**66**	**<50**	**90**	50	50	0
	C29-C36 Fraction	mg/kg	50 : 100 (Interlab)	**72**	**<50**	**97**	**150**	**61**	**84**
	C10-C36 Fraction (Sum of Total)	mg/kg	50	**170**	**<50**	**149**	**200**	**111**	**57**
TRHs (NEPC 2013)	C6-C10	mg/kg	20 : 25 (Interlab)	<20	<20	0	<20	<20	0
	C10-C16	mg/kg	50	<50	<50	0	<50	<50	0
	C16-C34	mg/kg	100	**110**	**<100**	**75**	150	130	14
	C34-C40	mg/kg	100	<100	<100	0	160	150	6
	C10-C40 (Sum of total)	mg/kg	100 : 50 (Interlab)	**110**	**<100**	**75**	310	280	10
	F1 (C6-C10 minus BTEX)	mg/kg	20 : 25 (Interlab)	<20	<20	0	<20	<20	0
	F2 (C10-C16 less Naphthalene)	mg/kg	50	<50	<50	0	<50	<50	0
BTEXN	Benzene	mg/kg	0.1 : 0.2 (Interlab)	<0.1	<0.1	0	<0.1	<0.1	0
	Toluene	mg/kg	0.1 : 0.5 (Interlab)	<0.1	<0.1	0	<0.1	<0.1	0
	Ethylbenzene	mg/kg	0.1 : 1 (Interlab)	<0.1	<0.1	0	<0.1	<0.1	0
	Xylene (o)	mg/kg	0.1 : 1 (Interlab)	<0.1	<0.1	0	<0.1	<0.1	0
	Xylene (m & p)	mg/kg	0.2 : 2 (Interlab)	<0.2	<0.2	0	<0.2	<0.2	0
	Xylene Total	mg/kg	0.3 : 1 (Interlab)	<0.3	<0.3	0	<0.3	<0.3	0
PAH	Acenaphthene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.5	0
	Acenaphthylene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.5	0
	Anthracene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.5	0
	Benz(a)anthracene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.5	0
	Benzo(a)pyrene	mg/kg	0.5 : 0.05 (Interlab)	<0.5	<0.5	0	<0.5	<0.5	0
	Benzo(a)pyrene TEQ (LOR)	mg/kg	0.5	1.2	1.2	0	1.2	1.2	0
	Benzo(a)pyrene TEQ calc (Half)	mg/kg	0.5	0.6	0.6	0	0.6	0.6	0
	Benzo(a)pyrene TEQ calc (Zero)	mg/kg	0.5	<0.5	<0.5	0	<0.5	<0.5	0
	Benzo(b+j)fluoranthene	mg/kg	0.5	<0.5	<0.5	0	<0.5	<0.5	0
	Benzo(g,h,i)perylene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.5	0
	Benzo(k)fluoranthene	mg/kg	0.5	<0.5	<0.5	0	<0.5	<0.5	0
	Chrysene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.5	0
	Dibenz(a,h)anthracene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.5	0
	Fluoranthene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.5	0
	Fluorene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.5	0
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.5	0
	Naphthalene	mg/kg	0.5 : 1 (Interlab)	<0.5	<0.5	0	<0.5	<0.5	0
	Naphthalene	mg/kg	0.5 : 1 (Interlab)	<0.5	<0.5	0	<0.5	<0.5	0
	Phenanthrene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.5	0
	Pyrene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.5	0
	PAHs (Sum of total)	mg/kg	0.5 : 0.05 (Interlab)	<0.5	<0.5	0	<0.5	<0.5	0
Organochlorine Pesticides	4,4-DDE	mg/kg	0.05 : 0.1 (Interlab)	<0.5	<0.05	0			
	a-BHC	mg/kg	0.05 : 0.1 (Interlab)	<0.5	<0.05	0			
	b-BHC	mg/kg	0.05 : 0.1 (Interlab)	<0.5	<0.05	0			
	d-BHC	mg/kg	0.05 : 0.1 (Interlab)	<0.5	<0.05	0			
	g-BHC (Lindane)	mg/kg	0.05 : 0.1 (Interlab)	<0.5	<0.05	0			
	Aldrin	mg/kg	0.05 : 0.1 (Interlab)	<0.5	<0.05	0			
	Dieldrin	mg/kg	0.05 : 0.1 (Interlab)	<0.5	<0.05	0			
	Aldrin + Dieldrin	mg/kg	0.05	<0.5	<0.05	0			
	Chlordane	mg/kg	0.1	<1	<0.1	0			
	DDT	mg/kg	0.05 : 0.1 (Interlab)	<0.5	<0.05	0			
	DDD	mg/kg	0.05 : 0.1 (Interlab)	<0.5	<0.05	0			
	DDT+DDE+DDD	mg/kg	0.05 : 0.1 (Interlab)	<0.5	<0.05	0			
	Endosulfan I	mg/kg	0.05 : 0.1 (Interlab)	<0.5	<0.05	0			
	Endosulfan II	mg/kg	0.05 : 0.1 (Interlab)	<0.5	<0.05	0			
	Endosulfan sulphate	mg/kg	0.05 : 0.1 (Interlab)	<0.5	<0.05	0			
	Endrin	mg/kg	0.05 : 0.1 (Interlab)	<0.5	<0.05	0			
	Endrin aldehyde	mg/kg	0.05 : 0.1 (Interlab)	<0.5	<0.05	0			
	Endrin ketone	mg/kg	0.05	<0.5	<0.05	0			
	Heptachlor	mg/kg	0.05 : 0.1 (Interlab)	<0.5	<0.05	0			
	Heptachlor Epoxide	mg/kg	0.05 : 0.1 (Interlab)	<0.5	<0.05	0			
	Methoxychlor	mg/kg	0.05 : 0.1 (Interlab)	<0.5	<0.05	0			
	Toxaphene	mg/kg	0.5	<10	<0.5	0			
Polychlorinated Biphenyls	Arochlor 1016	mg/kg	0.1	<1	<0.1	0			
	Arochlor 1221	mg/kg	0.1	<1	<0.1	0			
	Arochlor 1232	mg/kg	0.1	<1	<0.1	0			
	Arochlor 1242	mg/kg	0.1	<1	<0.1	0			
	Arochlor 1248	mg/kg	0.1	<1	<0.1	0			
	Arochlor 1254	mg/kg	0.1	<1	<0.1	0			
	Arochlor 1260	mg/kg	0.1	<1	<0.1	0			
	PCBs (Sum of total)	mg/kg	0.1	<1	<0.1	0			
PFAS	Perfluorobutanoic acid (PFBA)	mg/kg	0.005 : 0.0002 (Interlab)	<0.005	<0.005	0			
	Perfluoropentanoic acid (PFPeA)	mg/kg	0.005 : 0.0002 (Interlab)	<0.005	<0.005	0			
	Perfluorohexanoic acid (PFHxA)	mg/kg	0.005 : 0.0001 (Interlab)	<0.005	<0.005	0			
	Perfluoroheptanoic acid (PFHpA)	mg/kg	0.005 : 0.0001 (Interlab)	<0.005	<0.005	0			
	Perfluorooctanoic acid (PFOA)	mg/kg	0.005 : 0.0001 (Interlab)	<0.005	<0.005	0			
	Perfluorononanoic acid (PFNA)	mg/kg	0.005 : 0.0001 (Interlab)	<0.005	<0.005	0			
	Perfluorodecanoic acid (PFDA)	mg/kg	0.005 : 0.0005 (Interlab)	<0.005	<0.005	0			
	Perfluoroundecanoic acid (PFUnDA)	mg/kg	0.005 : 0.0005 (Interlab)	<0.005	<0.005	0			
	Perfluorododecanoic acid (PFDoDA)	mg/kg	0.005 : 0.0005 (Interlab)	<0.005	<0.005	0			
	Perfluorotridecanoic acid (PFTrDA)	mg/kg	0.005 : 0.0005 (Interlab)	<0.005	<0.005	0			
	Perfluorotetradecanoic acid (PFTeDA)	mg/kg	0.005	<0.005	<0.005	0			
	Perfluorooctane sulfonamide (FOSA)	mg/kg	0.005 : 0.001 (Interlab)	<0.005	<0.005	0			
	N-Methyl perfluorooctane sulfonamide (NMeFOSA)	mg/kg	0.005 : 0.001 (Interlab)	<0.005	<0.005	0			
	N-Ethyl perfluorooctane sulfonamide (NEtFOSA)	mg/kg	0.005 : 0.001 (Interlab)	<0.005	<0.005	0			
	N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE)	mg/kg	0.005 : 0.001 (Interlab)	<0.005	<0.005	0			
	N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	mg/kg	0.005	<0.005	<0.005	0			
	N-methylperfluorooctane sulfonamidoacetic acid (NMeFOSAA)	mg/kg	0.01 : 0.0002 (Interlab)	<0.01	<0.01	0			
	N-ethyl-perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	mg/kg	0.01 : 0.0002 (Interlab)	<0.01	<0.01	0			
	Perfluoropropanesulfonic acid (PFPrS)	mg/kg	0.005	<0.005	<0.005	0			
	Perfluorobutanesulfonic acid (PFBS)	mg/kg	0.005 : 0.0001 (Interlab)	<0.005	<0.005	0			
	Perfluoropentanesulfonic acid (PFPeS)	mg/kg	0.005 : 0.0001 (Interlab)	<0.005	<0.005	0			
	Perfluorohexanesulfonic acid (PFHxS)	mg/kg	0.005 : 0.0001 (Interlab)	<0.005	<0.005	0			
	Perfluoroheptane sulfonic acid (PFHpS)	mg/kg	0.005 : 0.0001 (Interlab)	<0.005	<0.005	0			
	Perfluorooctanesulfonic acid (PFOS)	mg/kg	0.005 : 0.0001 (Interlab)	<0.005	<0.005	0			
	Perfluorononanesulfonic acid (PFNS)	mg/kg	0.005	<0.005	<0.005	0			
	Perfluorodecanesulfonic acid (PFDS)	mg/kg	0.005 : 0.0002 (Interlab)	<0.005	<0.005	0			
	1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	mg/kg	0.005 : 0.0001 (Interlab)	<0.005	<0.005	0			
	1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	mg/kg	0.01 : 0.0001 (Interlab)	<0.01	<0.01	0			
	1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	mg/kg	0.005 : 0.0002 (Interlab)	<0.005	<0.005	0			
	1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	mg/kg	0.005 : 0.0002 (Interlab)	<0.005	<0.005	0			
	Sum of PFHxS and PFOS	mg/kg	0.005 : 0.0001 (Interlab)	<0.005	<0.005	0			
	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	mg/kg	0.005	<0.005	<0.005	0			
	Sum of US EPA PFAS (PFOS + PFOA)*	mg/kg	0.005 : 0.0001 (Interlab)	<0.005	<0.005	0			
	Sum of PFAS (WA DER List)	mg/kg	0.01	<0.01	<0.01	0			
	Sum of PFAS	mg/kg	0.05 : 0.0001 (Interlab)	<0.05	<0.05	0			
Chlorinated Benzenes	Hexachlorobenzene	mg/kg	0.05 : 0.1 (Interlab)	<0.5	<0.05	0			
EPA VIC - IWRG621	Organochlorine Pesticides EPAVic	mg/kg	0.1	<1	<0.1	0			
	Other Organochlorine Pesticides EPAVic	mg/kg	0.1	<1	<0.1	0			
Other	Moisture Content (dried @ 103°C)	%	1	**27**	**14**	**63**	8.4	12	35

*RPDs have only been considered where a concentration is greater than 1 times the EQL.
**High RPDs are in bold (Acceptable RPDs for each EQL multiplier range are: 50 (1-10 x EQL); 50 (10-30 x EQL); 50 (> 30 x EQL))
***Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any methods in the row header relate to those used in the primary laboratory

RPDs (soil)
Project Number: 62742
Project Name: Huntingwood SEARs

Field Duplicates (SOIL)
Filter: SDG in('890110','890111','ENVIROLAB 2022-05-16T00:00:00')

SDG	890110	ENVIROLAB 2022-05-16T00:00:00		890110	ENVIROLAB 2022-05-16T00:00:00	
Field ID	MW01-0-0.1	QA-01	RPD	SB01-0.3-0.4	QA-03	RPD
Sampled Date/Time	9/05/2022	9/05/2022		10/05/2022	10/05/2022	

Chem_Group	ChemName	Units	EQL						
Metals & Metalloids	Arsenic	mg/kg	2 : 4 (Interlab)	9.6	6	46	6.1	6	2
	Cadmium	mg/kg	0.4	<0.4	<0.4	0	<0.4	<0.4	0
	Chromium (III+VI)	mg/kg	5 : 1 (Interlab)	**24**	**14**	**53**	16	23	36
	Copper	mg/kg	5 : 1 (Interlab)	31	23	30	37	43	15
	Lead	mg/kg	5 : 1 (Interlab)	23	15	42	14	19	30
	Mercury	mg/kg	0.1	<0.1	<0.1	0	<0.1	<0.1	0
	Nickel	mg/kg	5 : 1 (Interlab)	**19**	**10**	**62**	15	18	18
	Zinc	mg/kg	5 : 1 (Interlab)	89	60	39	71	61	15
TPHs (NEPC 1999)	C6-C9 Fraction	mg/kg	20 : 25 (Interlab)	<20	<25	0	<20	<25	0
	C10-C14 Fraction	mg/kg	20 : 50 (Interlab)	32	<50	25	<20	<50	0
	C15-C28 Fraction	mg/kg	50 : 100 (Interlab)	66	<100	28	50	<100	0
	C29-C36 Fraction	mg/kg	50 : 100 (Interlab)	72	120	50	150	160	6
	C10-C36 Fraction (Sum of Total)	mg/kg	50	170	120	34	200	160	22
TRHs (NEPC 2013)	C6-C10	mg/kg	20 : 25 (Interlab)	<20	<25	0	<20	<25	0
	C10-C16	mg/kg	50	<50	<50	0	<50	<50	0
	C16-C34	mg/kg	100	110	170	43	150	160	6
	C34-C40	mg/kg	100	<100	<100	0	160	190	17
	C10-C40 (Sum of total)	mg/kg	100 : 50 (Interlab)	110	170	43	310	350	12
	F1 (C6-C10 minus BTEX)	mg/kg	20 : 25 (Interlab)	<20	<25	0	<20	<25	0
	F2 (C10-C16 less Naphthalene)	mg/kg	50	<50	<50	0	<50	<50	0
BTEXN	Benzene	mg/kg	0.1 : 0.2 (Interlab)	<0.1	<0.2	0	<0.1	<0.2	0
	Toluene	mg/kg	0.1 : 0.5 (Interlab)	<0.1	<0.5	0	<0.1	<0.5	0
	Ethylbenzene	mg/kg	0.1 : 1 (Interlab)	<0.1	<1	0	<0.1	<1	0
	Xylene (o)	mg/kg	0.1 : 1 (Interlab)	<0.1	<1	0	<0.1	<1	0
	Xylene (m & p)	mg/kg	0.2 : 2 (Interlab)	<0.2	<2	0	<0.2	<2	0
	Xylene Total	mg/kg	0.3 : 1 (Interlab)	<0.3	<1	0	<0.3	<1	0
PAH	Acenaphthene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.1	0	<0.5	<0.1	0
	Acenaphthylene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.1	0	<0.5	<0.1	0
	Anthracene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.1	0	<0.5	<0.1	0
	Benz(a)anthracene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.1	0	<0.5	0.2	0
	Benzo(a)pyrene	mg/kg	0.5 : 0.05 (Interlab)	<0.5	0.05	0	<0.5	0.4	0
	Benzo(a)pyrene TEQ (LOR)	mg/kg	0.5	**1.2**	**<0.5**	**82**	**1.2**	**0.6**	**67**
	Benzo(a)pyrene TEQ calc (Half)	mg/kg	0.5	0.6	<0.5	18	0.6	0.5	18
	Benzo(a)pyrene TEQ calc (Zero)	mg/kg	0.5	<0.5	<0.5	0	<0.5	<0.5	0
	Benzo(b+j)fluoranthene	mg/kg	0.5	<0.5			<0.5		
	Benzo(g,h,i)perylene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.1	0	<0.5	0.4	0
	Benzo(k)fluoranthene	mg/kg	0.5	<0.5			<0.5		
	Chrysene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.1	0	<0.5	0.2	0
	Dibenz(a,h)anthracene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.1	0	<0.5	<0.1	0
	Fluoranthene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.1	0	<0.5	0.3	0
	Fluorene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.1	0	<0.5	<0.1	0
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.1	0	<0.5	0.2	0
	Naphthalene	mg/kg	0.5 : 1 (Interlab)	<0.5	<0.1	0	<0.5	<0.1	0
	Naphthalene	mg/kg	0.5 : 1 (Interlab)	<0.5	<0.1	0	<0.5	<0.1	0
	Phenanthrene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.1	0	<0.5	0.1	0
	Pyrene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.1	0	<0.5	0.3	0
	PAHs (Sum of total)	mg/kg	0.5 : 0.05 (Interlab)	<0.5	0.05	0	**<0.5**	**2.5**	**164**
Organochlorine Pesticides	4,4-DDE	mg/kg	0.05 : 0.1 (Interlab)	<0.5	<0.1	0			
	a-BHC	mg/kg	0.05 : 0.1 (Interlab)	<0.5	<0.1	0			
	b-BHC	mg/kg	0.05 : 0.1 (Interlab)	<0.5	<0.1	0			
	d-BHC	mg/kg	0.05 : 0.1 (Interlab)	<0.5	<0.1	0			
	g-BHC (Lindane)	mg/kg	0.05 : 0.1 (Interlab)	<0.5	<0.1	0			
	Aldrin	mg/kg	0.05 : 0.1 (Interlab)	<0.5	<0.1	0			
	Dieldrin	mg/kg	0.05 : 0.1 (Interlab)	<0.5	<0.1	0			
	Aldrin + Dieldrin	mg/kg	0.05	<0.5					
	Chlordane	mg/kg	0.1	<1					
	DDT	mg/kg	0.05 : 0.1 (Interlab)	<0.5	<0.1	0			
	DDD	mg/kg	0.05 : 0.1 (Interlab)	<0.5	<0.1	0			
	DDT+DDE+DDD	mg/kg	0.05 : 0.1 (Interlab)	<0.5	<0.1	0			
	Endosulfan I	mg/kg	0.05 : 0.1 (Interlab)	<0.5	<0.1	0			
	Endosulfan II	mg/kg	0.05 : 0.1 (Interlab)	<0.5	<0.1	0			
	Endosulfan sulphate	mg/kg	0.05 : 0.1 (Interlab)	<0.5	<0.1	0			
	Endrin	mg/kg	0.05 : 0.1 (Interlab)	<0.5	<0.1	0			
	Endrin aldehyde	mg/kg	0.05 : 0.1 (Interlab)	<0.5	<0.1	0			
	Endrin ketone	mg/kg	0.05	<0.5					
	Heptachlor	mg/kg	0.05 : 0.1 (Interlab)	<0.5	<0.1	0			
	Heptachlor Epoxide	mg/kg	0.05 : 0.1 (Interlab)	<0.5	<0.1	0			
	Methoxychlor	mg/kg	0.05 : 0.1 (Interlab)	<0.5	<0.1	0			
	Toxaphene	mg/kg	0.5	<10					
Polychlorinated Biphenyls	Arochlor 1016	mg/kg	0.1	<1	<0.1	0			
	Arochlor 1221	mg/kg	0.1	<1	<0.1	0			
	Arochlor 1232	mg/kg	0.1	<1	<0.1	0			
	Arochlor 1242	mg/kg	0.1	<1	<0.1	0			
	Arochlor 1248	mg/kg	0.1	<1	<0.1	0			
	Arochlor 1254	mg/kg	0.1	<1	<0.1	0			
	Arochlor 1260	mg/kg	0.1	<1	<0.1	0			
	PCBs (Sum of total)	mg/kg	0.1	<1	<0.1	0			
PFAS	Perfluorobutanoic acid (PFBA)	mg/kg	0.005 : 0.0002 (Interlab)	<0.005	<0.0002	0			
	Perfluoropentanoic acid (PFPeA)	mg/kg	0.005 : 0.0002 (Interlab)	<0.005	<0.0002	0			
	Perfluorohexanoic acid (PFHxA)	mg/kg	0.005 : 0.0001 (Interlab)	<0.005	<0.0001	0			
	Perfluoroheptanoic acid (PFHpA)	mg/kg	0.005 : 0.0001 (Interlab)	<0.005	<0.0001	0			
	Perfluorooctanoic acid (PFOA)	mg/kg	0.005 : 0.0001 (Interlab)	<0.005	<0.0001	0			
	Perfluorononanoic acid (PFNA)	mg/kg	0.005 : 0.0001 (Interlab)	<0.005	<0.0001	0			
	Perfluorodecanoic acid (PFDA)	mg/kg	0.005 : 0.0005 (Interlab)	<0.005	<0.0005	0			
	Perfluoroundecanoic acid (PFUnDA)	mg/kg	0.005 : 0.0005 (Interlab)	<0.005	<0.0005	0			
	Perfluorododecanoic acid (PFDoDA)	mg/kg	0.005 : 0.0005 (Interlab)	<0.005	<0.0005	0			
	Perfluorotridecanoic acid (PFTrDA)	mg/kg	0.005 : 0.0005 (Interlab)	<0.005	<0.0005	0			
	Perfluorotetradecanoic acid (PFTeDA)	mg/kg	0.005	<0.005	<0.005	0			
	Perfluorooctane sulfonamide (FOSA)	mg/kg	0.005 : 0.001 (Interlab)	<0.005	<0.001	0			
	N-Methyl perfluorooctane sulfonamide (NMeFOSA)	mg/kg	0.005 : 0.001 (Interlab)	<0.005	<0.001	0			
	N-Ethyl perfluorooctane sulfonamide (NEtFOSA)	mg/kg	0.005 : 0.001 (Interlab)	<0.005	<0.001	0			
	N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE)	mg/kg	0.005 : 0.001 (Interlab)	<0.005	<0.001	0			
	N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	mg/kg	0.005	<0.005	<0.005	0			
	N-methylperfluorooctane sulfonamidoacetic acid (NMeFOSAA)	mg/kg	0.01 : 0.0002 (Interlab)	<0.01	<0.0002	0			
	N-ethyl-perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	mg/kg	0.01 : 0.0002 (Interlab)	<0.01	<0.0002	0			
	Perfluoropropanesulfonic acid (PFPrS)	mg/kg	0.005	<0.005					
	Perfluorobutanesulfonic acid (PFBS)	mg/kg	0.005 : 0.0001 (Interlab)	<0.005	<0.0001	0			
	Perfluoropentanesulfonic acid (PFPeS)	mg/kg	0.005 : 0.0001 (Interlab)	<0.005	<0.0001	0			
	Perfluorohexanesulfonic acid (PFHxS)	mg/kg	0.005 : 0.0001 (Interlab)	<0.005	<0.0001	0			
	Perfluoroheptane sulfonic acid (PFHpS)	mg/kg	0.005 : 0.0001 (Interlab)	<0.005	<0.0001	0			
	Perfluorooctanesulfonic acid (PFOS)	mg/kg	0.005 : 0.0001 (Interlab)	<0.005	0.0003	0			
	Perfluorononanesulfonic acid (PFNS)	mg/kg	0.005	<0.005					
	Perfluorodecanesulfonic acid (PFDS)	mg/kg	0.005 : 0.0002 (Interlab)	<0.005	<0.0002	0			
	1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	mg/kg	0.005 : 0.0001 (Interlab)	<0.005	<0.0001	0			
	1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	mg/kg	0.01 : 0.0001 (Interlab)	<0.01	<0.0001	0			
	1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	mg/kg	0.005 : 0.0002 (Interlab)	<0.005	<0.0002	0			
	1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	mg/kg	0.005 : 0.0002 (Interlab)	<0.005	<0.0002	0			
	Sum of PFHxS and PFOS	mg/kg	0.005 : 0.0001 (Interlab)	<0.005	0.0003	0			
	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	mg/kg	0.005	<0.005					
	Sum of US EPA PFAS (PFOS + PFOA)*	mg/kg	0.005 : 0.0001 (Interlab)	<0.005	0.0003	0			
	Sum of PFAS (WA DER List)	mg/kg	0.01	<0.01					
	Sum of PFAS	mg/kg	0.05 : 0.0001 (Interlab)	<0.05	0.0003	0			
Chlorinated Benzenes	Hexachlorobenzene	mg/kg	0.05 : 0.1 (Interlab)	<0.5	<0.1	0			
EPA VIC - IWRG621	Organochlorine Pesticides EPAVic	mg/kg	0.1	<1					
	Other Organochlorine Pesticides EPAVic	mg/kg	0.1	<1					
Other	Moisture Content (dried @ 103°C)	%	1	27			8.4		

*RPDs have only been considered where a concentration is greater than 1 times the EQL.
**High RPDs are in bold (Acceptable RPDs for each EQL multiplier range are: 50 (1-10 x EQL); 50 (10-30 x EQL); 50 (> 30 x EQL))
***Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any methods in the row header relate

RPDs Water
Project Number: 62742
Project Name: Huntingwood SEARs

Field Duplicates (WATER)
Filter: SDG in('890110','890111','ENVIROLAB 2022-05-16T00:00:00')

SDG	890110	890110		890110	ENVIROLAB 2022-05-16T00:00:00	
Field ID	MW04	QC-GW02	**RPD**	MW04	QA-GW02	**RPD**
Sampled Date/Time	12/05/2022	12/05/2022		12/05/2022	12/05/2022	

Chem_Group	ChemName	Units	EQL						
Metals & Metalloids	Arsenic	mg/l	0.001	0.003	0.002	40	0.003	0.002	40
	Cadmium	mg/l	0.0002 : 0.0001 (Interlab)	<0.0002	<0.0002	0	<0.0002	<0.0001	0
	Chromium (III+VI)	mg/l	0.001	**0.003**	**<0.001**	**143**	**0.003**	**<0.001**	**143**
	Copper	mg/l	0.001	**0.005**	**0.001**	**133**	**0.005**	**<0.001**	**164**
	Lead	mg/l	0.001	**0.001**	**<0.001**	**67**	0.001	<0.001	0
	Mercury	mg/l	0.0001 : 5e-005 (Interlab)	<0.0001	<0.0001	0	<0.0001	<0.00005	0
	Nickel	mg/l	0.001	**0.004**	**0.002**	**67**	**0.004**	**0.002**	**67**
	Zinc	mg/l	0.005 : 0.001 (Interlab)	**0.009**	**0.005**	**57**	**0.009**	**0.005**	**57**
TPHs (NEPC 1999)	C6-C9 Fraction	mg/l	0.02 : 0.01 (Interlab)	<0.02	<0.02	0	<0.02	<0.01	0
	C10-C14 Fraction	mg/l	0.05	**0.22**	**<0.05**	**159**	**0.22**	**<0.05**	**159**
	C15-C28 Fraction	mg/l	0.1	<0.1	<0.1	0	<0.1	<0.1	0
	C29-C36 Fraction	mg/l	0.1	<0.1	<0.1	0	<0.1	<0.1	0
	C10-C36 Fraction (Sum of Total)	mg/l	0.1 : 0.05 (Interlab)	**0.22**	**<0.1**	**126**	**0.22**	**<0.05**	**159**
TRHs (NEPC 2013)	C6-C10	mg/l	0.02 : 0.01 (Interlab)	<0.02	<0.02	0	<0.02	<0.01	0
	C10-C16	mg/l	0.05	**0.23**	**<0.05**	**161**	**0.23**	**<0.05**	**161**
	C16-C34	mg/l	0.1	<0.1	<0.1	0	<0.1	<0.1	0
	C34-C40	mg/l	0.1	<0.1	<0.1	0	<0.1	<0.1	0
	C10-C40 (Sum of total)	mg/l	0.1 : 0.05 (Interlab)	**0.23**	**<0.1**	**129**	**0.23**	**<0.05**	**161**
	F1 (C6-C10 minus BTEX)	mg/l	0.02	<0.02	<0.02	0	<0.02		
	F2 (C10-C16 less Naphthalene)	mg/l	0.05	**0.23**	**<0.05**	**161**	0.23		
BTEXN	Benzene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Toluene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Ethylbenzene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Xylene (o)	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Xylene (m & p)	mg/l	0.002	<0.002	<0.002	0	<0.002	<0.002	0
	Xylene Total	mg/l	0.003	<0.003	<0.003	0	<0.003		
PAH	Acenaphthene	mg/l	0.001 : 0.0001 (Interlab)	<0.001	<0.001	0	<0.001	<0.0001	0
	Acenaphthylene	mg/l	0.001 : 0.0001 (Interlab)	<0.001	<0.001	0	<0.001	<0.0001	0
	Anthracene	mg/l	0.001 : 0.0001 (Interlab)	<0.001	<0.001	0	<0.001	<0.0001	0
	Benz(a)anthracene	mg/l	0.001 : 0.0001 (Interlab)	<0.001	<0.001	0	<0.001	<0.0001	0
	Benzo(a)pyrene	mg/l	0.001 : 0.0001 (Interlab)	<0.001	<0.001	0	<0.001	<0.0001	0
	Benzo(b+j)fluoranthene	mg/l	0.001	<0.001	<0.001	0	<0.001		
	Benzo(g,h,i)perylene	mg/l	0.001 : 0.0001 (Interlab)	<0.001	<0.001	0	<0.001	<0.0001	0
	Benzo(k)fluoranthene	mg/l	0.001	<0.001	<0.001	0	<0.001		
	Chrysene	mg/l	0.001 : 0.0001 (Interlab)	<0.001	<0.001	0	<0.001	<0.0001	0
	Dibenz(a,h)anthracene	mg/l	0.001 : 0.0001 (Interlab)	<0.001	<0.001	0	<0.001	<0.0001	0
	Fluoranthene	mg/l	0.001 : 0.0001 (Interlab)	<0.001	<0.001	0	<0.001	<0.0001	0
	Fluorene	mg/l	0.001 : 0.0001 (Interlab)	<0.001	<0.001	0	<0.001	<0.0001	0
	Indeno(1,2,3-c,d)pyrene	mg/l	0.001 : 0.0001 (Interlab)	<0.001	<0.001	0	<0.001	<0.0001	0
	Naphthalene	mg/l	0.01 : 0.0002 (Interlab)	<0.01	<0.01	0	<0.01	<0.0002	0
	Naphthalene	mg/l	0.001 : 0.0002 (Interlab)	<0.001	<0.001	0	<0.001	<0.0002	0
	Phenanthrene	mg/l	0.001 : 0.0001 (Interlab)	<0.001	<0.001	0	<0.001	<0.0001	0
	Pyrene	mg/l	0.001 : 0.0001 (Interlab)	<0.001	<0.001	0	<0.001	<0.0001	0
	PAHs (Sum of total)	mg/l	0.001 : 0.0001 (Interlab)	<0.001	<0.001	0	<0.001	<0.0001	0
Chlorinated Alkanes	1,1,1,2-tetrachloroethane	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	1,1,1-trichloroethane	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	1,1,2,2-tetrachloroethane	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	1,1,2-trichloroethane	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	1,1-dichloroethane	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	1,2,3-trichloropropane	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	1,2-dichloroethane	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	1,2-dichloropropane	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	1,3-dichloropropane	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Bromochloromethane	mg/l	0.001	<0.001	<0.001	0	**<0.001**	**0.006**	**169**
	Carbon tetrachloride	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Chloroethane	mg/l	0.005 : 0.01 (Interlab)	<0.005	<0.005	0	<0.005	<0.01	0
	Chloromethane	mg/l	0.005 : 0.01 (Interlab)	<0.005	<0.005	0	<0.005	<0.01	0
	Dichlorodifluoromethane	mg/l	0.005 : 0.01 (Interlab)	<0.005	<0.005	0	<0.005	<0.01	0
	Dichloromethane	mg/l	0.005	<0.005	<0.005	0	<0.005		
	Trichlorofluoromethane	mg/l	0.005 : 0.01 (Interlab)	<0.005	<0.005	0	<0.005	<0.01	0
Chlorinated Alkenes	1,1-dichloroethene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	3-chloropropene	mg/l	0.001	<0.001	<0.001	0	<0.001		
	4-chlorotoluene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	cis-1,2-dichloroethene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	cis-1,3-dichloropropene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Tetrachloroethene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	trans-1,2-dichloroethene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	trans-1,3-dichloropropene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Trichloroethene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Vinyl Chloride	mg/l	0.005 : 0.01 (Interlab)	<0.005	<0.005	0	<0.005	<0.01	0
Solvents	Acetone	mg/l	0.005	<0.005	<0.005	0	<0.005		
PFAS	Perfluorobutanoic acid (PFBA)	µg/L	0.05 : 0.02 (Interlab)	<0.05	<0.05	0	<0.05	<0.02	0
	Perfluoropentanoic acid (PFPeA)	µg/L	0.01 : 0.02 (Interlab)	<0.01	<0.01	0	<0.01	<0.02	0
	Perfluorohexanoic acid (PFHxA)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.01	0
	Perfluoroheptanoic acid (PFHpA)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.01	0
	Perfluorooctanoic acid (PFOA)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.01	0
	Perfluorononanoic acid (PFNA)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.01	0
	Perfluorodecanoic acid (PFDA)	µg/L	0.01 : 0.02 (Interlab)	<0.01	<0.01	0	<0.01	<0.02	0
	Perfluoroundecanoic acid (PFUnDA)	µg/L	0.01 : 0.02 (Interlab)	<0.01	<0.01	0	<0.01	<0.02	0
	Perfluorododecanoic acid (PFDoDA)	µg/L	0.01 : 0.05 (Interlab)	<0.01	<0.01	0	<0.01	<0.05	0
	Perfluorotridecanoic acid (PFTrDA)	µg/L	0.01 : 0.1 (Interlab)	<0.01	<0.01	0	<0.01	<0.1	0
	Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.01 : 0.5 (Interlab)	<0.01	<0.01	0	<0.01	<0.5	0
	Perfluorooctane sulfonamide (FOSA)	µg/L	0.05 : 0.1 (Interlab)	<0.05	<0.05	0	<0.05	<0.1	0
	N-Methyl perfluorooctane sulfonamide (NMeFOSA)	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.05	0
	N-Ethyl perfluorooctane sulfonamide (NEtFOSA)	µg/L	0.05 : 0.1 (Interlab)	<0.05	<0.05	0	<0.05	<0.1	0
	N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE)	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.05	0
	N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	µg/L	0.05 : 0.5 (Interlab)	<0.05	<0.05	0	<0.05	<0.5	0
	N-methylperfluorooctane sulfonamidoacetic acid (NMeFOSAA)	µg/L	0.05 : 0.02 (Interlab)	<0.05	<0.05	0	<0.05	<0.02	0
	N-ethyl-perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	µg/L	0.05 : 0.02 (Interlab)	<0.05	<0.05	0	<0.05	<0.02	0
	Perfluoropropanesulfonic acid (PFPrS)	µg/L	0.01	<0.01	<0.01	0	<0.01		
	Perfluorobutanesulfonic acid (PFBS)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.01	0
	Perfluoropentanesulfonic acid (PFPeS)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.01	0
	Perfluorohexanesulfonic acid (PFHxS)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.01	0
	Perfluoroheptane sulfonic acid (PFHpS)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.01	0

RPDs Water
Project Number: 62742
Project Name: Huntingwood SEARs

Field Duplicates (WATER)
Filter: SDG in('890110','890111','ENVIROLAB 2022-05-16T00:00:00')

				SDG	890110	890110		890110	ENVIROLAB 2022-05-16T00:00:00	
				Field ID	MW04	QC-GW02	RPD	MW04	QA-GW02	RPD
				Sampled Date/Time	12/05/2022	12/05/2022		12/05/2022	12/05/2022	
	Perfluorooctanesulfonic acid (PFOS)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.01	0
	Perfluorononanesulfonic acid (PFNS)	µg/L	0.01	<0.01	<0.01	0	<0.01		
	Perfluorodecanesulfonic acid (PFDS)	µg/L	0.01 : 0.02 (Interlab)	<0.01	<0.01	0	<0.01	<0.02	0
	1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.01	0
	1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	µg/L	0.05 : 0.01 (Interlab)	<0.05	<0.05	0	<0.05	<0.01	0
	1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	µg/L	0.01 : 0.02 (Interlab)	<0.01	<0.01	0	<0.01	<0.02	0
	1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	µg/L	0.01 : 0.02 (Interlab)	<0.01	<0.01	0	<0.01	<0.02	0
	Sum of PFHxS and PFOS	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.01	0
	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	µg/L	0.01	<0.01	<0.01	0	<0.01		
	Sum of US EPA PFAS (PFOS + PFOA)*	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.01	0
	Sum of PFAS (WA DER List)	µg/L	0.05	<0.05	<0.05	0	<0.05		
	Sum of PFAS	µg/L	0.1 : 0.01 (Interlab)	<0.1	<0.1	0	<0.1	<0.01	0
MAH	1,2,4-trimethylbenzene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	1,3,5-trimethylbenzene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Styrene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Total MAH	mg/l	0.003	<0.003	<0.003	0	<0.003		
	Bromobenzene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Isopropylbenzene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
Miscellaneous Hydrocarbons	1,2-dibromoethane	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Bromomethane	mg/l	0.005 : 0.01 (Interlab)	<0.005	<0.005	0	<0.005	<0.01	0
	Dibromomethane	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Iodomethane	mg/l	0.001	<0.001	<0.001	0	<0.001		
	4-Methyl-2-pentanone	mg/l	0.005	<0.005	<0.005	0	<0.005		
	Methyl Ethyl Ketone	mg/l	0.005	<0.005	<0.005	0	<0.005		
Chlorinated Benzenes	1,2-Dichlorobenzene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	1,3-dichlorobenzene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	1,4-dichlorobenzene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Chlorobenzene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
Trihalomethanes	Dibromochloromethane	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Chloroform	mg/l	0.005 : 0.001 (Interlab)	<0.005	<0.005	0	<0.005	<0.001	0
	Tribromomethane	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Bromodichloromethane	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
Organic Sulfur Compounds	Carbon disulfide	mg/l	0.001	<0.001	<0.001	0	<0.001		
EPA VIC - IWRG621	Chlorinated Hydrocarbons EPAVic	mg/l	0.005	<0.005	<0.005	0	<0.005		
	Other Chlorinated Hydrocarbons EPAVic	mg/l	0.005	<0.005	<0.005	0	<0.005		

*RPDs have only been considered where a concentration is greater than 1 times the EQL.
**High RPDs are in bold (Acceptable RPDs for each EQL multiplier range are: 50 (1-10 x EQL); 50 (10-30 x EQL); 50 (> 30 x EQL))
***Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any methods in the row header relate to those used in the primary laboratory

RPDs (Vapour)

Project Number: 62742

Project Name: Huntingwood SEARs

Field Duplicates (GAS)

Filter: SDG in('890110','890111','ENVIROLAB 2022-05-16T00:00:00')

SDG	890110	890110		890110	890110	
Field ID	SV1 (FRONT)	QV01 (FRONT)	RPD	SV1 (BACK)	QV01 (BACK)	RPD
Sampled Date/Time	9/05/2022	9/05/2022		9/05/2022	9/05/2022	

Chem_Group	ChemName	Units	EQL						
TRHs (NEPC 2013)	C6-C10	mg/m3	2.85714	11	8.71429	23	<2.85714	<2.85714	0
	C10-C16	mg/m3	2.85714	<2.85714	<2.85714	0	<2.85714	<2.85714	0
	F1 (C6-C10 minus BTEX)	mg/m3	2.85714	5.57143	4.57143	20	<2.85714	<2.85714	0
	F2 (C10-C16 less Naphthalene)	mg/m3	2.85714	<2.85714	<2.85714	0	<2.85714	<2.85714	0
BTEXN	Benzene	mg/m3	0.07143	<0.07143	<0.07143	0	<0.07143	<0.07143	0
	Toluene	mg/m3	0.07143	<0.07143	<0.07143	0	<0.07143	<0.07143	0
	Ethylbenzene	mg/m3	0.07143	0.91429	0.65714	33	<0.07143	<0.07143	0
	Xylene Total	mg/m3	0.21429	4.57143	3.42857	29	<0.21429	<0.21429	0
PAH	Naphthalene	mg/m3	0.07143	<0.07143	<0.07143	0	<0.07143	<0.07143	0
Chlorinated Alkanes	1,1,1,2-tetrachloroethane	mg/m3	0.07143	<0.07143	<0.07143	0	<0.07143	<0.07143	0
	1,1,1-trichloroethane	mg/m3	0.07143	<0.07143	<0.07143	0	<0.07143	<0.07143	0
	1,1,2,2-tetrachloroethane	mg/m3	0.07143	<0.07143	<0.07143	0	<0.07143	<0.07143	0
	1,1,2-trichloroethane	mg/m3	0.07143	<0.07143	<0.07143	0	<0.07143	<0.07143	0
	1,1-dichloroethane	mg/m3	0.07143	<0.07143	<0.07143	0	<0.07143	<0.07143	0
	1,2,3-trichloropropane	mg/m3	0.07143	<0.07143	<0.07143	0	<0.07143	<0.07143	0
	1,2-dibromo-3-chloropropane	mg/m3	0.07143	<0.07143	<0.07143	0	<0.07143	<0.07143	0
	1,2-dichloroethane	mg/m3	0.07143	<0.07143	<0.07143	0	<0.07143	<0.07143	0
	1,2-dichloropropane	mg/m3	0.07143	<0.07143	<0.07143	0	<0.07143	<0.07143	0
	1,3-dichloropropane	mg/m3	0.07143	<0.07143	<0.07143	0	<0.07143	<0.07143	0
	2,2-dichloropropane	mg/m3	0.07143	<0.07143	<0.07143	0	<0.07143	<0.07143	0
	Bromochloromethane	mg/m3	0.07143	<0.07143	<0.07143	0	<0.07143	<0.07143	0
	Carbon tetrachloride	mg/m3	0.07143	<0.07143	<0.07143	0	<0.07143	<0.07143	0
	Trichlorofluoromethane	mg/m3	0.07143	<0.07143	<0.07143	0	<0.07143	<0.07143	0
Chlorinated Alkenes	1,1-dichloroethene	mg/m3	0.07143	<0.07143	<0.07143	0	<0.07143	<0.07143	0
	1,1-dichloropropene	mg/m3	0.07143	<0.07143	<0.07143	0	<0.07143	<0.07143	0
	2-chlorotoluene	mg/m3	0.07143	<0.07143	<0.07143	0	<0.07143	<0.07143	0
	4-chlorotoluene	mg/m3	0.07143	<0.07143	<0.07143	0	<0.07143	<0.07143	0
	cis-1,2-dichloroethene	mg/m3	0.07143	<0.07143	<0.07143	0	<0.07143	<0.07143	0
	cis-1,3-dichloropropene	mg/m3	0.07143	<0.07143	<0.07143	0	<0.07143	<0.07143	0
	Tetrachloroethene	mg/m3	0.07143	<0.07143	<0.07143	0	<0.07143	<0.07143	0
	trans-1,3-dichloropropene	mg/m3	0.07143	<0.07143	<0.07143	0	<0.07143	<0.07143	0
	Trichloroethene	mg/m3	0.07143	<0.07143	<0.07143	0	<0.07143	<0.07143	0
	Vinyl Chloride	mg/m3	0.07143	<0.07143	<0.07143	0	<0.07143	<0.07143	0
MAH	1,2,4-trimethylbenzene	mg/m3	0.07143	<0.07143	<0.07143	0	<0.07143	<0.07143	0
	1,3,5-trimethylbenzene	mg/m3	0.07143	<0.07143	<0.07143	0	<0.07143	<0.07143	0
	n-butylbenzene	mg/m3	0.07143	<0.07143	<0.07143	0	<0.07143	<0.07143	0
	n-propylbenzene	mg/m3	0.07143	<0.07143	<0.07143	0	<0.07143	<0.07143	0
	p-isopropyltoluene	mg/m3	0.07143	<0.07143	<0.07143	0	<0.07143	<0.07143	0
	sec-butylbenzene	mg/m3	0.07143	<0.07143	<0.07143	0	<0.07143	<0.07143	0
	Styrene	mg/m3	0.71429	<0.71429	<0.71429	0	<0.71429	<0.71429	0
	tert-butylbenzene	mg/m3	0.07143	<0.07143	<0.07143	0	<0.07143	<0.07143	0
	Isopropylbenzene	mg/m3	0.07143	<0.07143	<0.07143	0	<0.07143	<0.07143	0
Miscellaneous Hydrocarbons	1,2-dibromoethane	mg/m3	0.07143	<0.07143	<0.07143	0	<0.07143	<0.07143	0
	Dibromomethane	mg/m3	0.07143	<0.07143	<0.07143	0	<0.07143	<0.07143	0
Chlorinated Benzenes	1,2,3-trichlorobenzene	mg/m3	0.07143	<0.07143	<0.07143	0	<0.07143	<0.07143	0
	1,2,4-trichlorobenzene	mg/m3	0.07143	<0.07143	<0.07143	0	<0.07143	<0.07143	0
	1,2-Dichlorobenzene	mg/m3	0.07143	<0.07143	<0.07143	0	<0.07143	<0.07143	0
	1,3-dichlorobenzene	mg/m3	0.07143	<0.07143	<0.07143	0	<0.07143	<0.07143	0
	1,4-dichlorobenzene	mg/m3	0.07143	<0.07143	<0.07143	0	<0.07143	<0.07143	0
	Chlorobenzene	mg/m3	0.07143	<0.07143	<0.07143	0	<0.07143	<0.07143	0
Trihalomethanes	Dibromochloromethane	mg/m3	0.07143	<0.07143	<0.07143	0	<0.07143	<0.07143	0
	Chloroform	mg/m3	0.07143	<0.07143	<0.07143	0	<0.07143	<0.07143	0
	Tribromomethane	mg/m3	0.07143	<0.07143	<0.07143	0	<0.07143	<0.07143	0
	Bromodichloromethane	mg/m3	0.07143	<0.07143	<0.07143	0	<0.07143	<0.07143	0
Organic Alcohols	2-Propanol	mg/m3	1.42857	<1.42857	<1.42857	0	<1.42857	<1.42857	0
Chlorinated Hydrocarbons	Hexachlorobutadiene	mg/m3	0.07143	<0.07143	<0.07143	0	<0.07143	<0.07143	0

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

**High RPDs are in bold (Acceptable RPDs for each EQL multiplier range are: 50 (1-10 x EQL); 50 (10-30 x EQL); 50 (> 30 x EQL))

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

Appendix J Fieldnotes and Calibration Sheets

Calibration and Service Report

ABN: 74 619 717 350
Contact: 02 9730 2019
Email: rentals@experttesting.com.au
9/171 Power Street, Glendenning NSW 2761
Web: www.experttesting.com.au

Company:	Expert Testing Services (Hire) Pty Ltd	**Manufacturer:**	YSI	**Serial #:**	21J102884
Address:	9/171 Power Street GLENDENNING NSW 2761	**Instrum./Model:**	Pro Quatro	**Cable S/N:**	21G100342
Phone:	02 9730 2019	**Client Company:**	JBS&G	**Client Email:**	jnicholson@jbsg.com.au
Email:	rentals@experttesting.com.au	**Client Name:**	Julia Nicholson	**Client Phone:**	

Item	Test	Pass	Comments
Battery	2 x Alkaline C-cells	✓	Voltage reading above 2.9V
	Battery Saver	✓	Automatically turns off after 60 minutes if not used
Connections	Condition	✓	Good, clean
Cable	Condition	✓	Clean, no tears
Display	Operation	✓	
Firmware	Version	✓	0.0.79
Keypad	Operational	✓	
Display	Screen	✓	
Unit	Condition, seals and O-rings	✓	
Monitor housing	Condition	✓	
pH			
Condition		✓	Good, clean
pH millivolts for pH7 calibration range 0 mV ± 50 mV		✓	
pH 4 mV range + 165 to + 180 from 7 buffer mV value		✓	
pH slope		✓	55 to 60 mV/pH; ideal 59mV
Response time < 90 seconds		✓	
Calibrated and conforms to manufacturer's specifications		✓	
ORP			
Condition		✓	Good, clean
Response time < 90 seconds		✓	
within ± 80mv of reference Zobell Reading		✓	
Calibrated and conforms to manufacturer's specifications		✓	Variance range ± 20mV
Conductivity			
Condition		✓	Good, clean
Temperature		✓	°C
Conductivity cell constant 5.0 ± 1.0 in GLP file		✓	
Clean sensor reads less than 3 uS/cm in dry air		✓	
Calibrated and conforms to manufacturer's specifications		✓	µs/cm
Dissolved Oxygen			
Condition		✓	Good, clean
DO sensor in use		✓	Galvanic
1.25 mil PE membrane (yellow membrane):		✓	
DO Sensor Value		✓	(min 4.31 uA - max 8.00 uA) Avg 6.15 uA
Calibrated and conforms to manufacturer's specifications		✓	ppm

Instrument Readings

Parameter	Standards	Reference	Calibration Point	Before	After	Units
Temperature	Hanna HI98509; SN:31E0C9	Room Temp.	18.4	N/A	18.3	°C
pH	pH 4.00	378281	4.01	4.01	4.01	pH
pH	pH 7.00	375757	7.00	6.99	7.00	pH
Conductivity	2760 µs/cm at 25°C	21/1910	2760	2751	2760	µs/cm
ORP (Ref. check only)	Zobell A & B	A21/1611 & B21/1611	243.6	244.2	243.6	mV
Zero Dissolved Oxygen	NaSO3 in distilled water	123302	0.0	-0.2	0.0	%
100% Dissolved Oxygen	100% Air Saturation	Fresh Air	100.7	82.3	101.3	%

Checked By: Milenko Sisic
Check Date: 09/05/2022 **Due for Check:** 09/11/2022

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Calibration and Service Report

ABN: 74 619 717 350
Contact: 02 9730 2019
Email: rentals@experttesting.com.au
9/171 Power Street, Glendenning NSW 2761
Web: www.experttesting.com.au

Company:	Expert Testing Services (Hire) Pty Ltd	**Manufacturer:**	Geotech	**Serial #:**	7144
Address:	9/171 Power Street GLENDENNING NSW 2761	**Instrum./Model:**	GP2	**Head S/N:**	
Phone:	02 9730 2019	**Client Company:**	JBS&G	**Client Email:**	jnicholson@jbsg.com.au
Email:	rentals@experttesting.com.au	**Client Name:**	Julia Nicholson	**Client Phone:**	

Equipment Check

Geopump Peristaltic Pump

Customer:	JBS&G	**Manufacturer:**	Geotech
Contact:	Julia Nicholson	**Instrument:**	GP2
Order:		**Serial #:**	7144
		Head Serial #:	
		Cable length:	4.5m

Item	Test	Pass	Comments
Battery	12 Voltage	✓	Voltage above 13 V
	Fuses	✓	
	Capacity	✓	
Pump	Decontaminated	✓	
	Condition	✓	
	Operation	✓	
	0.5 m Silicon Tubing	✓	New Tubing
Charger	Condition	✓	
Hard Case	Condition	✓	
Instrument Test	Operation checked	✓	
Instruction manual	Included	✓	

Comments

2 Batteries sent out with unit.

This is to certify that the above instrument has been checked and is in good working order.

Checked By: Milenko Sisic

Check Date: 09/05/2022 **Due for Check:** 09/11/2022

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EXPERT TESTING SERVICES

Calibration and Service Report

ABN: 74 619 717 350
Contact: 02 9730 2019
Email: sales@experttesting.com.au
9/171 Power Street, Glendenning NSW 2761
Web: www.experttesting.com.au

Calibration and Service Report

Company:	Expert Testing Services	**Manufacturer:**	RAE Systems	**Serial #:**	M01C015639
Contact:	Hire Department	**Instrument:**	MultiRAE Lite	**Asset #:**	-
Address:	9/171 Power Street	**Model:**	PGM6208	**Part #:**	-
	GLENDENNING NSW 2761	**Configuration:**	O2, LEL, CO, H2S, CO2	**Sold:**	-
Phone:	02 9730 2019	**Wireless:**	-	**Last Cal:**	06.05.2022
Fax:		**Network ID:**	-	**Job #:**	
Email:	rentals@experttesting.com.au	**Unit ID:**	-	**Cal Spec:**	Std
				Order #:	

Item	Test	Pass/Fail	Comments	Part Code	S/W
Battery	Li Ion	✓			
Charger	Charger, Power supply	✓			
	Cradle	✓			
Pump	Flow	✓	Diffusion		
Filter	Filter, fitting, etc	✓			
Alarms	Audible, visual, vibration	✓			
Display	Operation	✓			
Switches	Operation	✓			
PCB	Operation	✓			
Connectors	Condition	✓			
Firmware	Version	✓			
Datalogger	Operation	✓			
Monitor Housing	Condition	✓			
Case	Condition/Type	✓			
Sensors					
Oxygen		✓			
LEL		✓			
PID		-			
Toxic 1	CO	-			
Toxic 2	H2S	-			
Toxic 3	CO2	-			
Toxic 4					
Toxic 5					

Engineer's Report

Checked unit settings and configuration – okay
Unit allowed to zero and stabilize as per manufacturers procedures - okay
Calibration procedure written and performed to manufacturers specification using traceable gases.

Calibration Certificate

Sensor	Type	Serial No:	Span Gas	Concentration	Traceability Lot #	CF	Reading	
							Zero	Span
Oxygen	O2	-	Fresh Air	20.9%	WO227300-130	1	20.9	
			Oxygen	18.0%				18.0
LEL	LEL	-	Methane	50%LEL (2.5% Vol)	WO227300-130	1	0	50
PID								
Toxic 1	CO	-	Carbon Monoxide	100ppM	WO227300-130	1	0	100
Toxic 2	H2S	-	Hydrogen Sulfide	25ppM	WO227300-130	1	0	25
Toxic 3	CO2	-	Carbon Dioxide	5000ppM	WO296892-1	1	0	5000
Toxic 4								
Toxic 5								

Calibrated/Repaired by: **Milenko Sisic** Date: **06.05.2022** Next Due: **06.11.2022**

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EXPERT TESTING SERVICES

Calibration and Service Report

ABN: 74 619 717 350
Contact: 02 9730 2019
Email: sales@experttesting.com.au
9/171 Power Street, Glendenning NSW 2761
Web: www.experttesting.com.au

Calibration and Service Report

Company:	Expert Testing Services	**Manufacturer:**	RKI Instruments	**Serial #:**	E2B180
Contact:	Hire Department	**Instrument:**	EAGLE	**Asset #:**	-
Address:	9/171 Power Street GLENDENNING NSW 2761	**Model:**	EAGLE 2	**Part #:**	-
		Configuration:	O2, LEL (Methane)	**Sold:**	-
Phone:	02 9730 2019	**Wireless:**	-	**Last Cal:**	06.05.2022
Fax:		**Network ID:**	-	**Job #:**	
Email:	rentals@experttesting.com.au	**Unit ID:**	-	**Cal Spec:**	Std
				Order #:	

Item	Test	Pass/Fail	Comments	Part Code	S/W
Battery	Li Ion	✓			
Charger	Charger, Power supply	✓			
	Cradle	✓			
Pump	Flow	✓			
Filter	Filter, fitting, etc	✓			
Alarms	Audible, visual, vibration	✓			
Display	Operation	✓			
Switches	Operation	✓			
PCB	Operation	✓			
Connectors	Condition	✓			
Firmware	Version	✓			
Datalogger	Operation	✓			
Monitor Housing	Condition	✓			
Case	Condition/Type	✓			
Sensors					
Oxygen		✓			
LEL		✓			
PID		-			
Toxic 1		-			
Toxic 2		-			
Toxic 3		-			
Toxic 4					
Toxic 5					

Engineer's Report

Checked unit settings and configuration – okay
Unit allowed to zero and stabilize as per manufacturers procedures - okay
Calibration procedure written and performed to manufacturers specification using traceable gases.

Calibration Certificate

Sensor	Type	Serial No:	Span Gas	Concentration	Traceability Lot #	CF	Reading	
							Zero	Span
Oxygen	O2	-	Fresh Air	20.9%	WO227300-130	1	20.9	
			Oxygen	18.0%				18.0
LEL	LEL	-	Methane	50%LEL (2.5% Vol)	WO227300-130	1	0	50
PID								
Toxic 1								
Toxic 2								
Toxic 3								
Toxic 4								
Toxic 5								

Calibrated/Repaired by: **Milenko Sisic** Date: **06.05.2022** Next Due: **06.11.2022**

GLOBAL COMPLIANCE CERTIFICATION GCC ISO 9001 Certified
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Calibration and Service Report

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9/171 Power Street, Glendenning NSW 2761
Web: www.experttesting.com.au

Company:	Expert Testing Services (Hire) Pty Ltd	**Manufacturer:**	Solinst	**Serial #:**	484525
Address:	9/171 Power Street GLENDENNING NSW 2761	**Instrum./Model:**	Interface Probe 122	**Tape Length:**	30m
Phone:	02 9730 2019	**Client Company:**	JBS&G	**Client Email:**	jnicholson@jbsg.com.au
Email:	rentals@experttesting.com.au	**Client Name:**	Julia Nicholson	**Client Phone:**	

Equipment Check

Oil/Water Interface Meter - Solinst 122 Interface Meter

Customer:	JBS&G	**Manufacturer:**	Solinst Interface Meter
Contact:	Julia Nicholson	**Instrument:**	Model 122
Order:		**Serial #:**	484525
		Tape length:	30m

Item	Test	Pass	Comments
Battery	Voltage (2 x 9v battery)	✓	Voltage above 7.9v
Probe	Decontaminated	✓	
	Condition	✓	
	Operation	✓	
Connectors	Condition	✓	
Tape Check	Condition	✓	
	Decontaminated	✓	
Instrument Test	At surface level	✓	Tap water and Petrol
Speaker	Operation	✓	

Comments

New unit.

This is to certify that the above instrument has been checked and is in good working order.

Checked By: Milenko Sisic

Check Date: 06/05/2022 **Due for Check:** 06/11/2022

GLOBAL COMPLIANCE CERTIFICATION GCC ISO 9001 Certified
GLOBAL COMPLIANCE CERTIFICATION GCC ISO 14001 Certified
JAS-ANZ WWW.JAS-ANZ.ORG/REGISTER

Field Equipment Calibration and Decontamination

PROJECT NAME: Hunting wood	**PROJECT NO:**
FIELDWORK DATES: 9/5 - 13/5/22	**SAMPLERS:** SP, RS, MD
TYPE OF INVESTIGATION: DSI	**PROJECT MANAGER:** JN

CALIBRATION SUMMARY

EQUIPMENT: PID
CALIBRATION STANDARD:

DATE	TIME	READING (ppm)	COMMENTS
9/5	0731	0	zero test
	0732	100.	cal test
	0733	102.8	bump
10/5	0732	0	
	0733	100	
	0734	101.8	
11/5	0701	0	
	0702	100	
	0703	101.3	
12/5	0711	0	
	0712	100	
	0714	99.8	

DECONTAMINATION SUMMARY

EQUIPMENT: Handauger, IP, SFA

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?	Y	(N)	NA
	If so, was the equipment steam cleaned or rinsed with pesticide-grade acetone:hexane?	Y	N	(NA)
4	Was phosphate-free detergent used to wash the equipment?	(Y)	N	NA
5	Was the equipment rinsed with clean water?	(Y)	N	NA
6	Was the equipment then rinsed with deionised water?	(Y)	N	NA
7	Were all sample containers cleaned and acid or solvent washed prior to sample collection?	(Y)	N	NA

WERE ANY ADDITIONAL DECONTAMINATION MEASURES REQUIRED? PROVIDE DETAILS

New gloves @ every sample location

↑ PFAs free

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Field Equipment Calibration and Decontamination

PROJECT NAME: Huntingwood	PROJECT NO: 62742
FIELDWORK DATES: 11/5/22	SAMPLERS: MO / HO / RS
TYPE OF INVESTIGATION:	PROJECT MANAGER: JN

CALIBRATION SUMMARY

EQUIPMENT: PID x 2
CALIBRATION STANDARD: 100 ppm isobutylene

DATE	TIME	READING (ppm)	COMMENTS
11/5/22	6.55	0	Zero
		100	Cal
		99.2	Bump
11/5/22	7.10	0	Zero
		100	Cal
		101.7	Bump

DECONTAMINATION SUMMARY

EQUIPMENT: Excavator, sieve, bucket, 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?	Y	(N)	NA
If so, was the equipment steam cleaned or rinsed with pesticide-grade acetone:hexane?	Y	N	(NA)
4 Was phosphate-free detergent used to wash the equipment?	(Y)	N	NA
5 Was the equipment rinsed with clean water?	(Y)	N	NA
6 Was the equipment then rinsed with deionised water?	(Y)	N	NA
7 Were all sample containers cleaned and acid or solvent washed prior to sample collection?	Y	N	(NA)

WERE ANY ADDITIONAL DECONTAMINATION MEASURES REQUIRED? PROVIDE DETAILS

New pair of nitrile gloves at each location

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Groundwater Gauging Data

PROJECT NAME: Hunting wood	PROJECT NO: 62742
FIELDWORK DATES: 1115 - 1215122	SAMPLERS: HD / GP
TYPE OF INVESTIGATION: GME	PROJECT MANAGER: JN

WELL ID	DATE	TIME	DEPTH TO LNAPL (mbtoc)	DEPTH TO WATER (mbtoc)	DEPTH TO DNAPL (mbtoc)	TOTAL DEPTH (mbtoc)	NAPL VISUALLY VERIFIED	COMMENTS
MW A	1115	1520	-	4.566	-	7.620	N/A	HS set @ 5m. NO O/S
MW B	1115	1530	-	2.970	-	7.980	N/A	NO O/S. HS set @ 5m.
MW C	1215	1616	-	2.581		7.673	N/A	NO O/S. HS set @ 5m
MW D	11/5	1440	-	2.230	-	7.212	N/A	NO O/S. HS set @ 5m
MW E	11/5	1404	-	0.666	-	7.535	N/A	NO O/S. HS set @ 5m
MW01	11/5	1455	-	2.073	-	7.802	N/A	NO O/S. HS set @ 5m
MW02	11/5	1510	-	4.914	-	11.970	N/A	NO O/S. HS set @ 10m
MW03	11/5	1412	-	4.942	-	9.946	N/A	NO O/S. HS set @ 8m btoc
MW04	11/5	1535	-	3.921	-	7.980	N/A	No O/S. HS set @ 6m

Notes:

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Groundwater Sampling Form

PROJECT NAME:	Huntingwood	**PROJECT NO:**	62742
SAMPLING DATES:	12/5/22	**SAMPLERS:**	MD
TYPE OF INVESTIGATION:	GMG	**PROJECT MANAGER:**	JN
WELL ID:	MW A	**WEATHER:**	Rain

Casing Diameter (mm):		**Depth to NAPL (mBTOC):**	-
Well Completion:	Flush Mount / Monument	**Depth to SWL (mBTOC):**	4.566
Well Cap Type:	Locking Cap / PVC / Other	**NAPL Thickness (m):**	-
Well Condition:	Good / Compromised	**Depth to EoH (mbtoc):**	7.620
Calculated Well Volume (L):		**Water Column Depth (m):**	~3m
Sampling Method:		**NAPL Visually Verified?**	N/A
Purge Volume	4 Casings Vol. (L)		
Low Flow	Pump Submersion depth (mBTOC)		

TIME	VOLUME PURGED L	DSSOLVED OXYGEN ☐ % ☐ mgL/ppm	TEMP °C	pH pH units	EC _S/cm	ORP mV	Comments Inc SWL for low flow (mBTOC)
							TDS
1443.	1	0.79	20.3	6.80	26183	-32.6	18709
1445	1.5	0.72	20.3	6.80	26198	-35.2	18710
1447	2	0.73	20.3	6.80	26197	-26.6	18702
1449	2.5	0.70	20.3	6.81	26195	-21.5	18714
1451	3	0.69	20.3	6.81	26188	-20.2	18716
							DTW 5.104
Acceptable Variations*		+/-10%	+/- 0.2 °C	+/-0.05 pH	+/-3%	+/-10mV	Results Acceptable: YES / NO

LOW FLOW: Typical flow rate = 0.2- 0.4 L/min - Max. drawdown = 0.1 m - Well stable when 3 consecutive readings (either 3min apart or 1L apart)

PURGE: Min. sampling volume is 4 casing volumes or dry twice - 1 casing volume (50mm wells) = 2 L/m - 1 casing volume (100mm wells) = 8 L/m

Clarity:	Turbidity	**Sheen:**	YES / NO
Colour:	Colourless	**Odour:**	YES / NO

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Primary sample ID:		No.	Container / Preservative
Duplicate sample:	YES / NO ID:		
Triplicate sample:	YES / NO ID:		
Rinsate sample:	YES / NO ID:		
Sample on ice:	YES / NO		
Field Filter Method:	0.45µm filter / not filtered		
Water Quality Metre:			
Gauging Equipment:			
Pump Type:			
NOTES:			

*Calculated Well Volume (L) = Water Column Depth (m) * Conversion Factor (from table)*

Casing Diameter	25mm	50mm	100mm	150mm	300mm
Conversion Factor	0.98	1.96	7.85	49.1	196.3

*Volume of water in well (L) = ∏ * radius of gravel pack (m)2 * height of water column (m)*

**SA EPA Guidelines (June 2007) as referenced in NEPM*

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Groundwater Sampling Form

PROJECT NAME:	Huntingswood	**PROJECT NO:**	62742
SAMPLING DATES:	12/5/22	**SAMPLERS:**	GP/HD
TYPE OF INVESTIGATION:	GME	**PROJECT MANAGER:**	JN
WELL ID:	MW8	**WEATHER:**	Rain.

Casing Diameter (mm):		**Depth to NAPL (mBTOC):**	–
Well Completion:	Flush Mount / Monument	**Depth to SWL (mBTOC):**	2.770
Well Cap Type:	Locking Cap / PVC / Other	**NAPL Thickness (m):**	–
Well Condition:	Good / Compromised	**Depth to EoH (mbtoc):**	7.980
Calculated Well Volume (L):		**Water Column Depth (m):**	~5m.
Sampling Method:		**NAPL Visually Verified?**	N/A.
Purge Volume	4 Casings Vol. (L)		
Low Flow	Pump Submersion depth (mBTOC)		

TIME	VOLUME PURGED L	DSSOLVED OXYGEN ☐ % ☑ mgL/ppm	TEMP °C	pH pH units	EC _S/cm	ORP mV	Comments Inc SWL for low flow (mBTOC) TDS
1537	1	0.75	21.0	17628	6.48	-88.4	12409
1539	1.5	0.61	21.0	17632	6.48	-80.3	12415
1541	2	0.53	21.0	17634	6.48	-67.3	12420
1543	2.5	0.52	21.0	17633	6.49	-62.4	12421
1545	3	0.49	20.9	17622	6.49	-49.2	12420
1547	3.5	0.49	20.9	17620	6.49	-47.6	12420
1549	4	0.49	20.9	17618	6.49	-46.6	12420
Acceptable Variations*		+/-10%	+/- 0.2 °C	+/-0.05 pH	+/-3%	+/-10mV	Results Acceptable: YES / NO

LOW FLOW: Typical flow rate = 0.2- 0.4 L/min - Max. drawdown = 0.1 m - Well stable when 3 consecutive readings (either 3min apart or 1L apart)

PURGE: Min. sampling volume is 4 casing volumes or dry twice - 1 casing volume (50mm wells) = 2 L/m - 1 casing volume (100mm wells) = 8 L/m

Clarity:	Turbidity	**Sheen:**	YES / NO
Colour:	Colour less.	**Odour:**	YES / NO

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Primary sample ID:		No.	Container / Preservative
Duplicate sample:	YES / NO ID:		
Triplicate sample:	YES / NO ID:		
Rinsate sample:	YES / NO ID:		
Sample on ice:	YES / NO		
Field Filter Method:	0.45µm filter / not filtered		
Water Quality Metre:			
Gauging Equipment:			
Pump Type:			
NOTES:			

*Calculated Well Volume (L) = Water Column Depth (m) * Conversion Factor (from table)*

Casing Diameter	25mm	50mm	100mm	150mm	300mm
Conversion Factor	0.98	1.96	7.85	49.1	196.3

*Volume of water in well (L) = ∏ * radius of gravel pack (m)2 * height of water column (m)*

**SA EPA Guidelines (June 2007) as referenced in NEPM*

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Groundwater Sampling Form

PROJECT NAME: Huntingwood	**PROJECT NO:** 62742
SAMPLING DATES: 12/5/22	**SAMPLERS:** HD
TYPE OF INVESTIGATION: LIME	**PROJECT MANAGER:** JW
WELL ID: MWC	**WEATHER:** Rain

Casing Diameter (mm):	50	**Depth to NAPL (mBTOC):**	–
Well Completion:	Flush Mount / Monument	**Depth to SWL (mBTOC):**	2.581
Well Cap Type:	Locking Cap / PVC / Other	**NAPL Thickness (m):**	–
Well Condition:	Good / Compromised	**Depth to EoH (mbtoc):**	7.633
Calculated Well Volume (L):		**Water Column Depth (m):**	~5m
Sampling Method:		**NAPL Visually Verified?**	N/A
Purge Volume	4 Casings Vol. (L)		
Low Flow	Pump Submersion depth (mBTOC)		

TIME	VOLUME PURGED L	DSSOLVED OXYGEN ☐ % ☐ mgL/ppm	TEMP °C	pH pH units	EC _S/cm	ORP mV	Comments Inc SWL for low flow (mBTOC)
							TDS
1639	1	0.44	21.1	6.49	21350	-90.6	14937
1641	1.5	0.31	21.3	6.45	20502	-108.3	14251
1643	2	0.28	21.2	6.43	20040	-114.4	14006
1645	2.5	0.28	21.2	6.39	18577	-140.7	13008
1647	3	0.28	21.2	6.39	18512	-138.4	13001
1649	3.5	0.28	21.2	6.39	18425	-136.1	12881
1651	4	0.28	21.2	6.39	18359	-132.9	12844
Acceptable Variations*		+/-10%	+/- 0.2 °C	+/-0.05 pH	+/-3%	+/-10mV	Results Acceptable: YES / NO

LOW FLOW: Typical flow rate = 0.2- 0.4 L/min - Max. drawdown = 0.1 m - Well stable when 3 consecutive readings (either 3min apart or 1L apart)

PURGE: Min. sampling volume is 4 casing volumes or dry twice - 1 casing volume (50mm wells) = 2 L/m - 1 casing volume (100mm wells) = 8 L/m

Clarity:	Turbidity	**Sheen:**	YES / NO
Colour:	Colourless	**Odour:**	YES / NO v. slight

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Primary sample ID:		No.	Container / Preservative
Duplicate sample:	YES / NO ID:		
Triplicate sample:	YES / NO ID:		
Rinsate sample:	YES / NO ID:		
Sample on ice:	YES / NO		
Field Filter Method:	0.45µm filter / not filtered		
Water Quality Metre:			
Gauging Equipment:			
Pump Type:			
NOTES:			

*Calculated Well Volume (L) = Water Column Depth (m) * Conversion Factor (from table)*

Casing Diameter	25mm	50mm	100mm	150mm	300mm
Conversion Factor	0.98	1.96	7.85	49.1	196.3

*Volume of water in well (L) = ∏ * radius of gravel pack (m)2 * height of water column (m)*

**SA EPA Guidelines (June 2007) as referenced in NEPM*

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Groundwater Sampling Form

PROJECT NAME:	Huntingwood	**PROJECT NO:**	627212
SAMPLING DATES:	12/5/22	**SAMPLERS:**	HD
TYPE OF INVESTIGATION:	GME	**PROJECT MANAGER:**	JN
WELL ID:	MW5	**WEATHER:**	Overcast

Casing Diameter (mm):	50	**Depth to NAPL (mBTOC):**	-
Well Completion:	Flush Mount / Monument	**Depth to SWL (mBTOC):**	2.230
Well Cap Type:	Locking Cap / PVC / Other	**NAPL Thickness (m):**	-
Well Condition:	Good / Compromised	**Depth to EoH (mbtoc):**	7.217
Calculated Well Volume (L):		**Water Column Depth (m):**	~5m
Sampling Method:		**NAPL Visually Verified?**	N/A
Purge Volume	4 Casings Vol. (L)		
Low Flow	Pump Submersion depth (mBTOC)		

TIME	VOLUME PURGED L	DSSOLVED OXYGEN ☐ % ☒ mgL/ppm	TEMP °C	pH pH units	EC µS/cm	ORP mV	Comments Inc SWL for low flow (mBTOC)
							TDS
1053	1	0.62	19.7	6.56	21251	-36.1	15247
1055	1.5	0.33	19.6	6.62	21307	-34.8	15442.
1057	2	0.26	19.6	6.63	21316	-31.8	15457
1059	2.5	0.27	19.6	6.63	21327	-25.8	15459.
1101	3	0.29	19.6	6.64	21340	-22.6	15469.
1103	3.5	0.30	19.6	6.64	21332	-20.4	15466.
							DTW = 3.014
Acceptable Variations*		+/-10%	+/- 0.2 °C	+/-0.05 pH	+/-3%	+/-10mV	Results Acceptable: YES / NO

LOW FLOW: Typical flow rate = 0.2- 0.4 L/min - Max. drawdown = 0.1 m - Well stable when 3 consecutive readings (either 3min apart or 1L apart)

PURGE: Min. sampling volume is 4 casing volumes or dry twice - 1 casing volume (50mm wells) = 2 L/m - 1 casing volume (100mm wells) = 8 L/m

Clarity:	2 Turbidity	**Sheen:**	YES / **NO**
Colour:	1 brown	**Odour:**	YES / **NO**

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Primary sample ID:		No.	Container / Preservative
Duplicate sample:	YES / NO ID:		
Triplicate sample:	YES / NO ID:		
Rinsate sample:	YES / NO ID:		
Sample on ice:	YES / NO		
Field Filter Method:	0.45µm filter / not filtered		
Water Quality Metre:			
Gauging Equipment:			
Pump Type:			
NOTES:			

*Calculated Well Volume (L) = Water Column Depth (m) * Conversion Factor (from table)*

Casing Diameter	25mm	50mm	100mm	150mm	300mm
Conversion Factor	0.98	1.96	7.85	49.1	196.3

*Volume of water in well (L) = ∏ * radius of gravel pack (m)2 * height of water column (m)*

**SA EPA Guidelines (June 2007) as referenced in NEPM*

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Groundwater Sampling Form

PROJECT NAME: Huntingwood	**PROJECT NO:** 62742
SAMPLING DATES: 12/5/22	**SAMPLERS:** HD
TYPE OF INVESTIGATION: LIME	**PROJECT MANAGER:** JW
WELL ID: MW E	**WEATHER:** Overcast

Casing Diameter (mm):	50	**Depth to NAPL (mBTOC):**	-
Well Completion:	Flush Mount / Monument	**Depth to SWL (mBTOC):**	0.666
Well Cap Type:	Locking Cap / PVC / Other	**NAPL Thickness (m):**	-
Well Condition:	Good / Compromised	**Depth to EoH (mbtoc):**	7.535
Calculated Well Volume (L):		**Water Column Depth (m):**	~7m
Sampling Method:		**NAPL Visually Verified?**	N/A
Purge Volume	4 Casings Vol. (L)		
Low Flow	Pump Submersion depth (mBTOC)		

TIME	VOLUME PURGED L	DSSOLVED OXYGEN ☐ % ☐ mgL/ppm	TEMP °C	pH pH units	EC _S/cm	ORP mV	Comments Inc SWL for low flow (mBTOC)
							TDS.
0950	1	2.51	20.1	6.43	18890	-47.6	13591
0952	1.5	1.03	20.5	6.41	19403	-38.3	13809.
0954	2	0.59	20.7	6.41	19689	-32.1	13956.
0956	2.5	0.42	20.8	6.39	19894	-22.9	14065
0958	3	0.29	20.8	6.38	19899	-19.1	14073
1000	3.5	0.27	20.7	6.38	19892	-18.2	14072
1002.	4	0.26	20.8	6.38	19889	-17.4	14066
							DTW = 1.00
Acceptable Variations*		+/-10%	+/- 0.2 °C	+/-0.05 pH	+/-3%	+/-10mV	Results Acceptable: YES / NO

LOW FLOW: Typical flow rate = 0.2- 0.4 L/min - Max. drawdown = 0.1 m - Well stable when 3 consecutive readings (either 3min apart or 1L apart)

PURGE: Min. sampling volume is 4 casing volumes or dry twice - 1 casing volume (50mm wells) = 2 L/m - 1 casing volume (100mm wells) = 8 L/m

Clarity:	2 Turbidity	**Sheen:**	YES / NO
Colour:	1 brown to colourless	**Odour:**	YES / NO

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Primary sample ID:		No.	Container / Preservative
Duplicate sample:	YES / NO ID:		
Triplicate sample:	YES / NO ID:		
Rinsate sample:	YES / NO ID:		
Sample on ice:	YES / NO		
Field Filter Method:	0.45µm filter / not filtered		
Water Quality Metre:			
Gauging Equipment:			
Pump Type:			
NOTES:			

*Calculated Well Volume (L) = Water Column Depth (m) * Conversion Factor (from table)*

Casing Diameter	25mm	50mm	100mm	150mm	300mm
Conversion Factor	0.98	1.96	7.85	49.1	196.3

*Volume of water in well (L) = ∏ * radius of gravel pack (m)2 * height of water column (m)*

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Groundwater Sampling Form

PROJECT NAME:	Huntingwood	**PROJECT NO:**	62742
SAMPLING DATES:	12/5/22	**SAMPLERS:**	HD
TYPE OF INVESTIGATION:	GME	**PROJECT MANAGER:**	JN
WELL ID:	MW01	**WEATHER:**	Raining

Casing Diameter (mm):	50mm	**Depth to NAPL (mBTOC):**	-
Well Completion:	Flush Mount / Monument	**Depth to SWL (mBTOC):**	2.073
Well Cap Type:	Locking Cap / PVC / Other	**NAPL Thickness (m):**	-
Well Condition:	Good / Compromised	**Depth to EoH (mbtoc):**	7.802
Calculated Well Volume (L):		**Water Column Depth (m):**	~ 5.8m
Sampling Method:		**NAPL Visually Verified?**	N/A
Purge Volume	4 Casings Vol. (L)		
Low Flow	Pump Submersion depth (mBTOC)		

QA-QC taken here
↳ QA-GW-02 / QC-GW-02

TIME	VOLUME PURGED L	DSSOLVED OXYGEN ☐ % ☐ mgL/ppm	TEMP °C	pH pH units	EC _S/cm	ORP mV	Comments Inc SWL for low flow (mBTOC) TDS
1214	1	4.35	19.0	6.82	16181	11.0	11887
1216	1.5	4.31	19.0	6.82	16179	12.0	11883
1218	2	4.26	19.0	6.81	16172	13.6	11874
1220	2.5	4.17	19.0	6.81	16152	16.8	11862
1222	3	4.12	19.0	6.81	16141	18.6	11855
							DTW = 2.506.
Acceptable Variations*		+/-10%	+/- 0.2 °C	+/-0.05 pH	+/-3%	+/-10mV	Results Acceptable: YES / NO

LOW FLOW: Typical flow rate = 0.2- 0.4 L/min - Max. drawdown = 0.1 m - Well stable when 3 consecutive readings (either 3min apart or 1L apart)

PURGE: Min. sampling volume is 4 casing volumes or dry twice - 1 casing volume (50mm wells) = 2 L/m - 1 casing volume (100mm wells) = 8 L/m

Clarity:	Turbidity	**Sheen:**	YES / NO
Colour:	Colourless	**Odour:**	YES / NO

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Primary sample ID:	MW01	No.	Container / Preservative
Duplicate sample:	YES / NO ID: QA-GW-02		
Triplicate sample:	YES / NO ID: QC-GW 02		
Rinsate sample:	YES / NO ID:		
Sample on ice:	YES / NO		
Field Filter Method:	0.45µm filter / not filtered		
Water Quality Metre:	YSI Pro		
Gauging Equipment:	Solinst		
Pump Type:	Bori		
NOTES:			

*Calculated Well Volume (L) = Water Column Depth (m) * Conversion Factor (from table)*

Casing Diameter	25mm	50mm	100mm	150mm	300mm
Conversion Factor	0.98	1.96	7.85	49.1	196.3

*Volume of water in well (L) = ∏ * radius of gravel pack (m)2 * height of water column (m)*

**SA EPA Guidelines (June 2007) as referenced in NEPM*

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Groundwater Sampling Form

PROJECT NAME:	Glenfield Woodlands	**PROJECT NO:**	62742
SAMPLING DATES:	12/5/22	**SAMPLERS:**	HD
TYPE OF INVESTIGATION:	GME	**PROJECT MANAGER:**	JN
WELL ID:	MW02	**WEATHER:**	Rainy

Casing Diameter (mm):	50	**Depth to NAPL (mBTOC):**	-
Well Completion:	Flush Mount / Monument	**Depth to SWL (mBTOC):**	4.914
Well Cap Type:	Locking Cap / PVC / Other	**NAPL Thickness (m):**	-
Well Condition:	Good / Compromised	**Depth to EoH (mbtoc):**	11.970
Calculated Well Volume (L):		**Water Column Depth (m):**	~7m
Sampling Method:		**NAPL Visually Verified?**	N/A
Purge Volume	4 Casings Vol. (L)		
~~Low Flow~~	Pump Submersion depth (mBTOC)		

TIME	VOLUME PURGED L	DSSOLVED OXYGEN ☐ % ☑ mgL/ppm	TEMP °C	pH pH units	EC _S/cm	ORP mV	Comments Inc SWL for low flow (mBTOC) TDS.
1318	1	2.43	20.2	6.72	13145	13.7	9375
1320	1.5	2.39	20.2	6.71	12922	16.9	9230
1322	2	2.39	20.2	6.70	12766	18.9	9132.
1324	2.5	2.36	20.2	6.70	12678	14.6	9082
1325	3	2.36	20.2	6.70	12631	20.4	9034.
1327	3.5	2.22	20.2	6.68	12249	22.8	9016
Acceptable Variations*		+/-10%	+/- 0.2 °C	+/-0.05 pH	+/-3%	+/-10mV	Results Acceptable: YES / NO

LOW FLOW: Typical flow rate = 0.2- 0.4 L/min - Max. drawdown = 0.1 m - Well stable when 3 consecutive readings (either 3min apart or 1L apart)

PURGE: Min. sampling volume is 4 casing volumes or dry twice - 1 casing volume (50mm wells) = 2 L/m - 1 casing volume (100mm wells) = 8 L/m

Clarity:	2 Turbidity	**Sheen:**	YES / NO
Colour:	Colourless	**Odour:**	YES / NO

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Primary sample ID:		No.	Container / Preservative
Duplicate sample:	YES / NO ID:		
Triplicate sample:	YES / NO ID:		
Rinsate sample:	YES / NO ID:		
Sample on ice:	YES / NO		
Field Filter Method:	0.45µm filter / not filtered		
Water Quality Metre:			
Gauging Equipment:			
Pump Type:			
NOTES:			

*Calculated Well Volume (L) = Water Column Depth (m) * Conversion Factor (from table)*

Casing Diameter	25mm	50mm	100mm	150mm	300mm
Conversion Factor	0.98	1.96	7.85	49.1	196.3

*Volume of water in well (L) = ∏ * radius of gravel pack (m)2 * height of water column (m)*

**SA EPA Guidelines (June 2007) as referenced in NEPM*

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Groundwater Sampling Form

PROJECT NAME:	Huntingwood	**PROJECT NO:**	62772
SAMPLING DATES:	12/5/22	**SAMPLERS:**	HD
TYPE OF INVESTIGATION:	GME	**PROJECT MANAGER:**	JN
WELL ID:	MW03	**WEATHER:**	Overcast

Casing Diameter (mm):	50	**Depth to NAPL (mBTOC):**	–
Well Completion:	Flush Mount / Monument	**Depth to SWL (mBTOC):**	4.942
Well Cap Type:	Locking Cap / PVC / Other	**NAPL Thickness (m):**	–
Well Condition:	Good / Compromised	**Depth to EoH (mbtoc):**	9.926
Calculated Well Volume (L):		**Water Column Depth (m):**	~5m
~~Sampling Method:~~		**NAPL Visually Verified?**	N/A
Purge Volume	4 Casings Vol. (L)		
Low Flow	Pump Submersion depth (mBTOC)		

TIME	VOLUME PURGED L	DSSOLVED OXYGEN ☐ % ☐ mgL/ppm	TEMP °C	pH pH units	EC _S/cm	ORP mV	Comments Inc SWL for low flow (mBTOC)
							TDS.
1021	1	3.92	20.9	6.67	20197	-4.7	14255
1023	1.5	3.94	20.9	6.67	20256	+1.6	14295
1025	2	4.29	20.9	6.67	20210	8.4	14265
1027	2.5	4.38	20.8	6.67	20157	13.6	14245
1029	3	4.43	20.8	6.67	20111	16.4	14217
1031	3.5	4.40	20.8	6.67	20085	18.5	14207
							DTW = 5.071
Acceptable Variations*		+/-10%	+/- 0.2 °C	+/-0.05 pH	+/-3%	+/-10mV	Results Acceptable: YES / NO

LOW FLOW: Typical flow rate = 0.2- 0.4 L/min - Max. drawdown = 0.1 m - Well stable when 3 consecutive readings (either 3min apart or 1L apart)

PURGE: Min. sampling volume is 4 casing volumes or dry twice - 1 casing volume (50mm wells) = 2 L/m - 1 casing volume (100mm wells) = 8 L/m

Clarity:	2 Turbidity	**Sheen:**	YES / NO
Colour:	1 brown	**Odour:**	YES / NO

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Primary sample ID:		No.	Container / Preservative
Duplicate sample:	YES / NO ID:		
Triplicate sample:	YES / NO ID:		
Rinsate sample:	YES / NO ID:		
Sample on ice:	YES / NO		
Field Filter Method:	0.45µm filter / not filtered		
Water Quality Metre:			
Gauging Equipment:			
Pump Type:			
NOTES:			

*Calculated Well Volume (L) = Water Column Depth (m) * Conversion Factor (from table)*

Casing Diameter	25mm	50mm	100mm	150mm	300mm
Conversion Factor	0.98	1.96	7.85	49.1	196.3

*Volume of water in well (L) = ∏ * radius of gravel pack (m)2 * height of water column (m)*

**SA EPA Guidelines (June 2007) as referenced in NEPM*

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Groundwater Sampling Form

PROJECT NAME:	Huntingwood	**PROJECT NO:**	62742
SAMPLING DATES:	12/5/22	**SAMPLERS:**	HD
TYPE OF INVESTIGATION:	GME	**PROJECT MANAGER:**	JN
WELL ID:	MW04	**WEATHER:**	Overcast

↳ Slow Recharge.

Casing Diameter (mm):	50	**Depth to NAPL (mBTOC):**	–
Well Completion:	Flush Mount / Monument	**Depth to SWL (mBTOC):**	3.921
Well Cap Type:	Locking Cap / PVC / Other	**NAPL Thickness (m):**	–
Well Condition:	Good / Compromised	**Depth to EoH (mbtoc):**	7.980
Calculated Well Volume (L):		**Water Column Depth (m):**	4m.
Sampling Method:		**NAPL Visually Verified?**	N/A
Purge Volume	4 Casings Vol. (L)		
Low Flow	Pump Submersion depth (mBTOC)		

NB QA-GW } taken here.
QC-GW }

TIME	VOLUME PURGED L	DSSOLVED OXYGEN ☐ % ☑ mgL/ppm	TEMP °C	pH pH units	EC µS/cm	ORP mV	Comments Inc SWL for low flow (mBTOC) TDS
0809	1	4.05	20.3	6.66	16443	-3.3	11755
0811	1.5	3.93	20.2	6.67	16444	-9.1	11756.
0813	2	3.75	20.3	6.67	16463	-4.1	11756
0815	2.5	3.85	20.3	6.72	16509	1.1	11783
0817	3	3.82	20.3	6.72	16524	2.8	11792
0819	3.5	3.81	20.4	6.72	16543	3.7	11789
0821	4	3.80	20.4	6.72	16557	4.4	11793.
							DTW = 6.718.
Acceptable Variations*		+/-10%	+/- 0.2 °C	+/-0.05 pH	+/-3%	+/-10mV	Results Acceptable: YES / NO

LOW FLOW: Typical flow rate = 0.2- 0.4 L/min - Max. drawdown = 0.1 m - Well stable when 3 consecutive readings (either 3min apart or 1L apart)

PURGE: Min. sampling volume is 4 casing volumes or dry twice - 1 casing volume (50mm wells) = 2 L/m - 1 casing volume (100mm wells) = 8 L/m

Clarity:	3 Turbidity	**Sheen:**	YES / (NO)
Colour:	Brown	**Odour:**	YES / (NO)

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Primary sample ID:	MW04	No.	Container / Preservative
Duplicate sample:	YES / NO ID: QA-GW-01		
Triplicate sample:	YES / NO ID: QC-GW-01		
Rinsate sample:	YES / NO ID:		
Sample on ice:	YES / NO		
Field Filter Method:	0.45µm filter / not filtered		
Water Quality Metre:	YSI		
Gauging Equipment:	~~Dip~~ Solinst		
Pump Type:	Peri Pump		
NOTES: Slow Recharge - Slow purge rate			

*Calculated Well Volume (L) = Water Column Depth (m) * Conversion Factor (from table)*

Casing Diameter	25mm	50mm	100mm	150mm	300mm
Conversion Factor	0.98	1.96	7.85	49.1	196.3

*Volume of water in well (L) = ∏ * radius of gravel pack (m)2 * height of water column (m)*

**SA EPA Guidelines (June 2007) as referenced in NEPM*

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Vapour Purging Form

JBS&G

Project Number: 62740	Date: 9/5/22	Sampler/s:
Site Address:	Sample Method:	Weather:

Field Measurements

Sample ID	Time	Oxygen (%)	Carbon Dioxide (ppm)	PID	Methane (ppm)	LEL (%)	Leak Detection PID	H_2S (ppm)	CO (ppm)
QV01 here SV1	0922	18.6	7600	0.8	230	0		0	0
	+30s	↓	↓	1.0	↓	↓		↓	↓
	+30s			1.0					
	+30s			1.2					
	+30s.			1.3					
	+30s			1.3					
						~~X~~	1.3		
Pump on: 9.25am				Pump off:		10:00am			
SV2	9.37	9800	15.3	0.8	180	0		0	0
	+30s	15000	↓	↓	190	↓		↓	↓
	+30s	17800			220				
	+30s	19000			220				
	+30s	19900		↓	230				
	+30s	21200	↓	0.8	230.				
	+30s	21300							
	+30s	21600							
							0.8.		
	Pump on	1224		0.7	10	0	0	0	0
SV4	10 42	12.6	48000	0.6	125				
Pump on 1056	+30s	↓	50000	0.6	153				
	+30s		↓	0.6	250				
	+30s			0.7	270				
	+30s			↓	290				
	+30s				310				
[redacted]		15.3	2800	[redacted]				0	0
SV03	1059	↓	86000	0.3	0			↓	↓
	+30s		163000	0.4	190				
	+30s		24000	0.8	200				
	+30s		226000	1.1	220				
	+30s		24000	1.1	230				
	+30s	↓	24100	1.1	230				
	[redacted]								
	Pump on	1111							

Vapour Purging Form

JBS&G

Project Number: 62740	Date: 9/5/22	Sampler/s: RS
Site Address:	Sample Method:	Weather:

Field Measurements

Sample ID	Time	Oxygen	Carbon Dioxide	PID	Methane	LEL	Leak Detection PID
SW05	1:24	18.9	1800	0.3	300	0	
	+ 30s	19.0	2500	1.1	520	0	
	+ 30s	19.3	2800	1.3	550	0	
	+ 30s	19.4	2900	1.3	560	0	
	Pump on		1335				
SW07	1342	13.7	1100	1.2	0	0	
	+ 30s	13.8	5700	1.3			
	+ 30s	13.9	7700	1.4			
	+ 30s	14	8900				
	+ 30s	14.6	9100				
	+ 30s		9300				
	+ 30s		9800				
	+ 30s		10100				
	+ 30s		10300				
	+ 30s		10700				
	+ 30s		11000				
	+ 30s		11500				
	Pump on	1356					
SW06	1403	15.1	1800	0.6	0	0	
	+ 30s	14.9	9500	0.7	45		
	+ 30s	15.1	10800	0.8	75		
	+ 30s	15.4	11000		105		
	+ 30s	15.8	11200		130		
	+ 30s	15.8	11400		150		
	+ 30s	15.9	11500		155		
	Pump on 1414.						

Appendix K Borelogs

SOIL BOREHOLE SB01

Project Number 62742
Client Logos
Project Name Huntingwood SEARs
Address August St. Blacktown

Contractor
Date 10-May-22
Plant N/A
Method Hand Auger

Easting N/A
Northing N/A
Coordinate System GDA94_MGA_zone_54
Logged By HD

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Fill - Silty gravelly CLAY, dark brown, heterogeneous, dry, low plasticity, firm, inclusion gravel	DR	SB01_0.00-0.10	3.4	No odour, staining or asbestos. 10L AQ from 0-0.5 m bgs. AQ-QAQC02.
		0.2							
		0.3		Fill	Fill - Gravelly sandy CLAY, dark brown, heterogeneous, dry, low plasticity, firm, inclusion gravel, wires	DR	SB01_0.30-0.40	4.8	Strong organic odour, no staining or asbestos. QAQC03.
		0.4		Fill	Fill - Boulders/crushed SANDSTONE, red/brown/yellow, heterogeneous, dry, poorly graded, coarse sand to boulders medium dense	DR			
		0.5					SB01_0.50-0.60	3.2	No odour staining, asbestos.
		0.6							
		0.7		Fill	Fill - Sandy SILT, brown, heterogeneous, dry, fine sand, sub-angular, loose	DR	SB01_0.70-0.80	2.3	Green staining, no odour or asbestos.
		0.8		Fill	Fill - CLAY, black, heterogeneous, damp, medium plasticity, stiff	DP			
		0.9							
		1		CL	Natural - CLAY, red-orange-grey mottled, homogenous, damp, medium plasticity, stiff	DP	SB01_1.00-1.10	2.1	No odour staining, asbestos.
		1.1							
		1.2							
		1.3							
		1.4							
		1.5					SB01_1.50-1.60	1.8	No odour staining, asbestos.
		1.6							
		1.7							
		1.8							
		1.9							End of hole at 2.00 m bgs. Program depth.
		2			Termination Depth at: 2.00 m.				

Comments:

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SOIL BOREHOLE SB02

Project Number 62742
Client Logos
Project Name Huntingwood SEARs
Address August St. Blacktown

Contractor
Date 12-May-22
Plant N/A
Method Hand Auger

Easting N/A
Northing N/A
Coordinate System GDA94_MGA_zone_54
Logged By GP

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Fill - Gravelly silty CLAY, dark brown, heterogeneous, damp, low plasticity, firm	DP	SB02_0.00-0.10	5.1	No odour, staining or asbestos. 10L AQ from 0-0.1 m bgs, no ACM observed.
		0.2							
		0.3		Fill	Fill - Silty clay CLAY, dark brown, heterogeneous, damp, low plasticity, firm, inclusion gravels	DP	SB02_0.30-0.40	4.9	No odour, staining, asbestos.
		0.4							
		0.5		RWN	Reworked Natural - Silty CLAY, red/grey/brown, heterogeneous, dry, low plasticity, firm, inclusion gravels	DR	SB02_0.50-0.60	5	No odour, staining, asbestos.
		0.6							
		0.7		RWN	Reworked Natural - Silty CLAY, red/grey/brown, heterogeneous, dry, low plasticity, firm	DR	SB02_0.70-0.80	4.3	Grey/green staining, no odour or asbestos.
		0.8							
		0.9							
		1					SB02_1.00-1.10	4	Grey/green staining, no odour or asbestos.
		1.1							
		1.2		RWN	Reworked Natural - Silty CLAY, red/grey/brown, heterogeneous, dry, low plasticity, firm, inclusion gravels	DR			
		1.3							
		1.4							
		1.5					SB02_1.50-1.60	3.1	Grey/green staining, no odour or asbestos.
		1.6							
		1.7							
		1.8							
		1.9					SB02_1.90-2.00	3.8	Grey/green staining, no odour or asbestos.
		2			Termination Depth at: 2.00 m.				End of hole at 2.00 m bgs. Program depth.

Comments:

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SOIL BOREHOLE SB03

Project Number 62742
Client Logos
Project Name Huntingwood SEARs
Address August St. Blacktown

Contractor
Date 10-May-22
Plant N/A
Method Hand Auger

Easting N/A
Northing N/A
Coordinate System GDA94_MGA_zone_54
Logged By HD

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Fill - Gravelly SILT, light brown, heterogeneous, dry, poorly graded, fine gravel, sub-rounded, loose	DR	SB03_0.00-0.10	0.5	No odour, staining or asbestos. 10L AQ from 0-0.6 m bgs, no ACM observed.
		0.2		Fill	Fill - Silty gravelly CLAY, light brown-orange, heterogeneous, dry, low plasticity, stiff medium gravel, angular	DR			
		0.3					SB03_0.30-0.40	2.1	No odour, staining or asbestos.
		0.4							
		0.5					SB03_0.50-0.60	2.3	No odour, staining or asbestos.
		0.6		CL	Natural - CLAY, red-grey mottled, homogenous, dry, low plasticity, stiff	DR			
		0.7							
		0.8							
		0.9							
		1					SB03_1.00-1.10	3	No odour, staining or asbestos.
		1.1							
		1.2							
		1.3							
		1.4							
		1.5					SB03_1.50-1.60	1.8	No odour, staining or asbestos.
		1.6							End of hole at 1.7 m bgs. Program depth.
		1.7			Termination Depth at: 1.70 m.				
		1.8							
		1.9							

Comments:

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SOIL BOREHOLE SB04

Project Number 62742
Client Logos
Project Name Huntingwood SEARs
Address August St. Blacktown

Contractor
Date 10-May-22
Plant N/A
Method Hand Auger

Easting N/A
Northing N/A
Coordinate System GDA94_MGA_zone_54
Logged By HD

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Fill - gravelly SILT, dark grey, heterogeneous, damp, medium plasticity poorly graded, fine gravel, angular, dense	DP	SB04_0.00-0.10	0.3	No odour, staining or asbestos. 10L AQ from 0-1.0 m bgs, no ACM observed.
		0.2		Fill	Fill - gravelly CLAY, red-orange, heterogeneous, damp, medium plasticity, firm, inclusions of small angular gravels	DP			
		0.3					SB04_0.20-0.30	2.0	No odour, staining or asbestos.
		0.4							
		0.5					SB04_0.50-0.60	2.7	No odour, staining or asbestos.
		0.6							
		0.7							
		0.8		Fill	Fill - silty CLAY, dark brown, heterogeneous, damp, low plasticity, soft, inclusions of small angular gravels and brick fragments	DP			
		0.9							No odour, staining or asbestos. 10L AQ from 1.0-1.3 m bgs, no ACM observed.
		1					SB04_1.00-1.10	3.8	
		1.1							
		1.2							
		1.3		CL	Natural - CLAY, red, homogenous, damp, high plasticity, stiff	DP			
		1.4							
		1.5					SB04_1.50-1.60	1.2	No odour, staining or asbestos.
		1.6							
		1.7							
		1.8							
		1.9							
		2					SB04_2.00-2.10	1.3	No odour, staining or asbestos.
		2.1			Termination Depth at: 2.10 m.				End of hole at 2.1 m bgs. Program depth.

Comments:

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SOIL BOREHOLE SB05

Project Number 62742
Client Logos
Project Name Huntingwood SEARs
Address August St. Blacktown

Contractor Terratest
Date 10-May-22
Plant Geoprobe
Method Solid Flight Auger

Easting N/A
Northing N/A
Coordinate System GDA94_MGA_zone_54
Logged By GP

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
SFA		0.1		Fill	Fill - Silty gravelly CLAY, dark brown, heterogeneous, dry, low plasticity, firm, inclusion gravel	DR	SB05_0.00-0.10	5.4	No odour, staining or asbestos. 10L AQ from 0-1.0 m bgs, no ACM observed.
		0.2							
		0.3		Fill	Fill - silty CLAY, dark brown, heterogeneous, dry, low plasticity, firm, inclusion gravel	DR	SB05_0.30-0.40	4.1	No odour, staining or asbestos
		0.4							
		0.5		Fill	Fill - silty CLAY, dark brown, heterogeneous, damp, medium plasticity, firm	DP	SB05_0.50-0.60	3.8	No odour, staining or asbestos
		0.6							
		0.7							
		0.8							
		0.9							
		1		Fill	Fill - CLAY, grey/grown, heterogeneous, damp, medium plasticity, firm	DP	SB05_1.00-1.10	3	No odour, staining or asbestos
		1.1							
		1.2							
		1.3		CL	Natural - CLAY, grey/yellow/brown, mottled, dry, medium plasticity, firm	DR			
		1.4							
		1.5					SB05_1.50-1.60	2.8	No odour, staining or asbestos.
		1.6			Termination Depth at: 1.60 m.				End of hole at 1.6 m bgs. Program depth.
		1.7							
		1.8							
		1.9							

Comments:

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SOIL BOREHOLE SB06

Project Number 62742
Client Logos
Project Name Huntingwood SEARs
Address August St. Blacktown

Contractor Terratest
Date 10-May-22
Plant Geoprobe
Method Solid Flight Auger

Easting N/A
Northing N/A
Coordinate System GDA94_MGA_zone_54
Logged By GP

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
CC		0.1		Concrete	Fill - CONCRETE				No odour, staining or asbestos. 10L
SFA		0.2		Fill	Fill - SAND, yellow/brown, heterogenous, damp, loose, inclusion gravel	DP	SB06_0.15-0.25	0.2	AQ from 0.15-1.0 m bgs, no ACM observed.
		0.3							
		0.4		Fill	Fill - gravelly SAND, dark grey, heterogenous cobbles loose	DP			
		0.5					SB06_0.50-0.60	0.3	No odour, staining or asbestos.
		0.6							
		0.7		Fill	Fill - gravelly CLAY, dark brown, heterogenous, damp, medium plasticity inclusions of tile and gravels	DP	SB06_0.70-0.80	1.4	No odour, staining or asbestos.
		0.8							
		0.9							
		1		Fill	Fill - CLAY, red/brown, heterogenous, damp, inclusion of gravels	DP	SB06_1.00-1.10	4.2	No odour, staining or asbestos.
		1.1							
		1.2		CL	Natural - CLAY, red, homogenous, dry, medium plasticity, stiff	DR			
		1.3					SB06_1.30-1.40	1.5	No odour, staining or asbestos.
		1.4							
		1.5							
		1.6					SB06_1.80-1.70	1.5	No odour, staining or asbestos.
		1.7			Termination Depth at: 1.70 m.				End of hole at 1.7 m bgs. Program depth.
		1.8							
		1.9							

Comments:

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SOIL BOREHOLE SB07

Project Number 62742
Client Logos
Project Name Huntingwood SEARs
Address August St. Blacktown

Contractor Terratest
Date 10-May-22
Plant Geoprobe
Method Solid Flight Auger

Easting N/A
Northing N/A
Coordinate System GDA94_MGA_zone_54
Logged By GP

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
SFA		0.1		Concrete	Fill - CONCRETE				
		0.2		Fill	Fill - silty CLAY, brown, heterogeneous, damp, medium plasticity inclusion of gravels	DP	SB07_0.20-0.30	1.4	No odour, staining or asbestos. 10L AQ from 0.2-0.8 m bgs, no ACM observed.
		0.3							
		0.4		RWN	Reworked Natural - CLAY, red, heterogenous, damp, medium plasticity, firm	DP			
		0.5					SB07_0.50-0.60	4.2	No odour, staining or asbestos.
		0.6							
		0.7							
		0.8		CL	Natural - CLAY, red/grey, homogenous, dry, medium plasticity, stiff	DR			
		0.9							
		1					SB07_1.00-1.10	1.5	No odour, staining or asbestos.
		1.1			Termination Depth at: 1.10 m.				End of hole at 1.1 m bgs. Program depth.
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

Comments:

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SOIL BOREHOLE SB08

Project Number 62742
Client Logos
Project Name Huntingwood SEARs
Address August St. Blacktown

Contractor Terratest
Date 11-May-22
Plant Geoprobe
Method Solid Flight Auger

Easting N/A
Northing N/A
Coordinate System GDA94_MGA_zone_54
Logged By GP

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
SFA		0.1		Fill	Fill - silty gravelly CLAY, dark brown, heterogeneous, dry, medium plasticity, firm	DR	SB08_0.00-0.10	3.4	No odour, staining or asbestos. 10L AQ from 0-0.4 m bgs, no ACM observed.
		0.2		Fill	Fill - silty CLAY, brown/grey, heterogeneous, dry, medium plasticity, firm, inclusions of gravels	DR			
		0.3					SB08_0.30-0.40	3.2	No odour, staining or asbestos.
		0.4		CL	Natural - CLAY, red/grey, homogenous, damp, medium plasticity, firm	DP			
		0.5					SB08_0.50-0.60	0.2	No odour, staining or asbestos.
		0.6							
		0.7		CL	Natural - CLAY, red/grey, homogenous, dry, medium plasticity, firm	DR			
		0.8					SB08_0.80-0.90	1.8	No odour, staining or asbestos.
		0.9			Termination Depth at: 0.90 m.				
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

Comments:

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SOIL BOREHOLE SB09

Project Number 62742
Client Logos
Project Name Huntingwood SEARs
Address August St. Blacktown

Contractor Terratest
Date 11-May-22
Plant Geoprobe
Method Solid Flight Auger

Easting N/A
Northing N/A
Coordinate System GDA94_MGA_zone_54
Logged By GP

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
SFA		0.1		Fill	Fill - gravelly clayey SAND, dark brown, heterogeneous, damp, medium plasticity, firm	DP	SB09_0.00-0.10	1.3	No odour, staining or asbestos. 10L AQ from 0-0.4 m bgs, no ACM observed.
		0.2		Fill	Fill - gravelly CLAY, light brown, heterogeneous, dry, medium plasticity, firm	DR			
		0.3					SB09_0.30-0.40	2.4	No odour, staining or asbestos.
		0.4							
		0.5		CL	Natural - CLAY, red/grey, mottled, damp, medium plasticity, firm	DP	SB09_0.50-0.60	2.1	No odour, staining or asbestos.
		0.6							
		0.7		CL	Natural - gravelly CLAY, red/grey, mottled, dry, medium plasticity, firm	DR			
		0.8					SB09_0.80-0.90	0.9	No odour, staining or asbestos.
		0.9			Termination Depth at: 0.90 m.				End of hole at 0.9 m bgs. Program depth.
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

Comments:

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produced by ESlog.ESdat.net on 27 Jun 2022

SOIL BOREHOLE SB10

Project Number 62742
Client Logos
Project Name Huntingwood SEARs
Address August St. Blacktown

Contractor Terratest
Date 11-May-22
Plant Geoprobe
Method Solid Flight Auger

Easting N/A
Northing N/A
Coordinate System GDA94_MGA_zone_54
Logged By GP

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
SFA		0.1		Fill	Fill - silty GRAVEL, dark brown/grey, heterogeneous, damp, coarse gravel medium dense	DP	SB10_0.00-0.10	1.4	No odour, staining or asbestos. 10L AQ from 0-1.0 m bgs, no ACM observed.
		0.2		Fill	Fill - silty CLAY, dark brown, heterogenous, dmap, low plasticity, firm, inclusions of gravels	DP			
		0.3					SB10_0.30-0.40	1.8	No odour, staining or asbestos.
		0.4							
		0.5					SB10_0.50-0.60	2.4	No odour, staining or asbestos.
		0.6							
		0.7							
		0.8		Fill	Fill - silty CLAY, dark brown, heterogenous, dry, low plasticity, firm, inclusions of gravels	DR			
		0.9							
		1							No odour, staining or asbestos. 10L AQ from 1.0-2.0, no ACM observed.
		1.1					SB10_1.00-1.10	2.2	
		1.2		RWN	Reworked Natural - CLAY, red/grey, heterogenous, dry, low plasticity, firm	DR			
		1.3							
		1.4							
		1.5					SB10_1.50-1.60	3.4	No odour, staining or asbestos.
		1.6							
		1.7							
		1.8							
		1.9					SB10_1.90-2.00	0.3	No odour, staining or asbestos
		2							

Comments:

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Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
		2		CL	Natural - CLAY, grey, homogenous, damp, low plasticity, firm	DP			
		2.1							
		2.2							
		2.3							
		2.4							
		2.5					SB10_2.50-2.60	0.3	No odour, staining or asbestos.
		2.6							
		2.7							
		2.8							
		2.9							
		3					SB10_3.00-3.10	0.4	No odour, staining or asbestos.
		3.1							
		3.2							
		3.3							
		3.4							
		3.5		CL	Natural - CLAY, red/yellow/grey, mottled, saturated, low plasticity, firm	S	SB10_3.50-3.60	1.2	No odour, staining or asbestos.
		3.6							
		3.7							
		3.8							
		3.9							End of hole at 4.0 m bgs. Program depth.
		4			Termination Depth at: 4.00 m.				
		4.1							
		4.2							
		4.3							

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produced by ESlog.ESdat.net on 27 Jun 2022

SOIL BOREHOLE SB11

Project Number 62742
Client Logos
Project Name Huntingwood SEARs
Address August St. Blacktown

Contractor Terratest
Date 11-May-22
Plant Geoprobe
Method Solid Flight Auger

Easting N/A
Northing N/A
Coordinate System GDA94_MGA_zone_54
Logged By GP

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
SFA		0.1		Fill	Fill - silty clayey GRAVEL, dark brown, heterogenous, damp, medium gravel inclusions of DGB	DP	SB11_0.00-0.10	2.3	No odour, staining or asbestos. 10L AQ from 0-1.0 m bgs, no ACM observed.
		0.2		Fill	Fill - silty gravelly CLAY, dark brown, heterogenous, damp, medium gravel	DP			
		0.3					SB11_0.30-0.40	1.8	No odour, staining or asbestos.
		0.4							
		0.5					SB11_0.50-0.60	1.3	No odour, staining or asbestos.
		0.6							
		0.7							
		0.8							
		0.9							
		1							No odour, staining or asbestos. 10L AQ from 1.0-2.0 m bgs, no ACM observed.
		1.1					SB11_1.00-1.10	0.9	
		1.2							
		1.3							
		1.4							
		1.5		Fill	Fill - CLAY, red/grey/dark brown, heterogenous, dry, medium plasticity, firm, inclusions of gravels		SB11_1.50-1.60	2.3	No odour, staining or asbestos.
		1.6							
		1.7							
		1.8							
		1.9							
		2					SB11_1.90-2.00	1.4	No odour, staining or asbestos.
					Termination Depth at: 2.00 m.				End of hole at 2.0 m bgs. Program depth.

Comments:

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SOIL BOREHOLE SB12

Project Number 62742
Client Logos
Project Name Huntingwood SEARs
Address August St. Blacktown

Contractor Terratest
Date 11-May-22
Plant Geoprobe
Method Solid Flight Auger

Easting N/A
Northing N/A
Coordinate System GDA94_MGA_zone_54
Logged By GP

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Fill - silty clayey GRAVEL, dark brown, heterogenous medium gravel		SB12_0.00-0.10	1.3	No odour, staining or asbestos. 10L AQ from 0-0.7 m bgs, no ACM observed.
		0.2							
SFA		0.3		RWN	Reworked Natural - CLAY, red, heterogenous, damp, medium plasticity, firm, inclusions of gravels	DP	SB12_0.30-0.40	1.8	No odour, staining or asbestos.
		0.4							
		0.5					SB12_0.50-0.60	2.1	No odour, staining or asbestos.
		0.6							
		0.7		CL	Natural - CLAY, red/grey, heterogenous, dry, medium plasticity, firm	DR			
		0.8							
		0.9					SB12_0.90-1.00	3.1	No odour, staining or asbestos.
		1			Termination Depth at: 1.00 m.				End of hole at 1.0 m bgs. Program depth.
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

Comments:

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SOIL BOREHOLE SB13

Project Number 62742
Client Logos
Project Name Huntingwood SEARs
Address August St. Blacktown

Contractor Terratest
Date 11-May-22
Plant Geoprobe
Method Solid Flight Auger

Easting N/A
Northing N/A
Coordinate System GDA94_MGA_zone_54
Logged By GP

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
SFA		0.1		Fill	Fill - silty CLAY, brown, heterogenous, dry, medium plasticity, firm, inclusions of gravel		SB13_0.00-0.10	3.1	No odour, staining or asbestos. 10L AQ from 0-0.8 m bgs, no ACM observed.
		0.2							
		0.3					SB13_0.30-0.40	2.7	No odour, staining or asbestos.
		0.4							
		0.5					SB13_0.50-0.60	2.6	No odour, staining or asbestos.
		0.6							
		0.7		RWN	Reworked Natural - CLAY, red, heterogenous, dry, low-medium plasticity, stiff, inclusions of gravel	DR			
		0.8		CL	Natural - CLAY, red/grey/yellow, heterpgenous, damp, low-medium plasticity, stiff	DP	SB13_0.80-0.90	1.7	No odour, staining or asbestos.
		0.9							
		1		CL	Natural - CLAY, light red/grey, heterpgenous, dry, low-medium plasticity, stiff	DR			
		1.1					SB13_1.10-1.20	1.9	No odour, staining or asbestos.
		1.2			Termination Depth at: 1.20 m.				End of hole at 1.2 m bgs. Program depth.
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

Comments:

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SOIL BOREHOLE SB14

Project Number 62742
Client Logos
Project Name Huntingwood SEARs
Address August St. Blacktown

Contractor Terratest
Date 11-May-22
Plant Geoprobe
Method Solid Flight Auger

Easting N/A
Northing N/A
Coordinate System GDA94_MGA_zone_54
Logged By GP

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
SFA		0.1		Fill	Fill - silty CLAY heterogenous, moist, medium plasticity, firm, inclusions of roots	M	SB14_0.00-0.10	3.4	No odour, staining or asbestos. 10L AQ from 0-0.2 m bgs, no ACM observed.
		0.2		RWN	Reworked Natural - CLAY, red/grey, heterogenous, damp, medium plasticity, firm	DP			
		0.3					SB14_0.30-0.40	2.7	No odour, staining or asbestos.
		0.4		CL	Natural - CLAY, grey/brown/yellow, mottled, damp, medium plasticity, firm	DP			No odour, staining or asbestos.
		0.5					SB14_0.50-0.60	1.8	No odour, staining or asbestos.
		0.6							
		0.7			Termination Depth at: 0.70 m.				End of hole at 0.7 m bgs. Program depth.
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

Comments:

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SOIL BOREHOLE SB15

Project Number 62742
Client Logos
Project Name Huntingwood SEARs
Address August St. Blacktown

Contractor Terratest
Date 11-May-22
Plant Geoprobe
Method Solid Flight Auger

Easting N/A
Northing N/A
Coordinate System GDA94_MGA_zone_54
Logged By GP

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
SFA		0.1		Fill	Fill - silty CLAY, dark brown, heterogeneous, damp, medium plasticity, firm, inclusions of rootlets	DP	SB15_0.00-0.10	3.1	No odour, staining or asbestos. 10L AQ from 0-0.7, no ACM observed.
		0.2		RWN	Reworked Natural - CLAY, grey/red, heterogeneous, damp, medium plasticity, firm	DP			
		0.3					SB15_0.30-0.40	3	No odour, staining or asbestos.
		0.4							
		0.5					SB15_0.50-0.60	1.4	No odour, staining or asbestos.
		0.6							
		0.7		CL	Natural - CLAY, red/grey, heterogeneous, dry, medium plasticity, firm	DR			
		0.8							
		0.9							
		1					SB15_1.00-1.10	0.8	No odour, staining or asbestos.
		1.1			Termination Depth at: 1.10 m.				End of hole at 1.1 m bgs. Program depth.
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

Comments:

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SOIL BOREHOLE SB16

Project Number 62742
Client Logos
Project Name Huntingwood SEARs
Address August St. Blacktown

Contractor Terratest
Date 11-May-22
Plant Geoprobe
Method Solid Flight Auger

Easting N/A
Northing N/A
Coordinate System GDA94_MGA_zone_54
Logged By GP

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
CC		0.1		Fill	Fill - silty CLAY, dark brown/grey, heterogenous, damp, medium plasticity, firm, inclusions of gravels	DP			
SFA		0.2					SB16_0.20-0.30	1.8	No odour, staining or asbestos. 10L AQ from 0.2-0.6, no ACM observed.
		0.3							
		0.4							
		0.5							
		0.6		RWN	Reworked Natural - CLAY, red, heterogenous, damp, medium plasticity, firm	DP	SB16_0.60-0.70	1	No odour, staining or asbestos.
		0.7							
		0.8							
		0.9							
		1					SB16_1.00-1.10	0.3	No odour, staining or asbestos.
		1.1		CL	Natural - CLAY, grey, mottled, dry, medium plasticity, firm	DR			
		1.2							
		1.3							
		1.4							
		1.5					SB16_1.50-1.60	0.1	No odour, staining or asbestos.
		1.6			Termination Depth at: 1.60 m.				End of hole at 1.6 m bgs. Program depth.
		1.7							
		1.8							
		1.9							

Comments:

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SOIL BOREHOLE SB17

Project Number 62742
Client Logos
Project Name Huntingwood SEARs
Address August St. Blacktown

Contractor Terratest
Date 11-May-22
Plant Geoprobe
Method Push Tube

Easting N/A
Northing N/A
Coordinate System GDA94_MGA_zone_54
Logged By GP

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.1		Fill	Fill - crushed SANDSTONE, red/yellow/brown, heterogenous, dry, coarse sand medium dense	DR			
							SB17_0.10-0.20	4.5	No odour staining, asbestos.
		0.2		CL	Natural - CLAY, red/grey, homogenous, dry, medium plasticity, firm	DR			
		0.3					SB17_0.30-0.40	0.4	No odour staining, asbestos.
		0.4							
		0.5							
		0.6							
		0.7		CL	Natural - CLAY, grey, homogenous, dry, medium plasticity, firm, inclusions of ironstone	DR	SB17_0.70-0.80	1.3	No odour staining, asbestos.
		0.8							
		0.9							
		1							
		1.1							End of hole at 1.2 m bgs. Program depth.
		1.2			Termination Depth at: 1.20 m.				
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

Comments:

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SOIL BOREHOLE SB18

Project Number 62742
Client Logos
Project Name Huntingwood SEARs
Address August St. Blacktown

Contractor Terratest
Date 11-May-22
Plant Geoprobe
Method Push Tube

Easting N/A
Northing N/A
Coordinate System GDA94_MGA_zone_54
Logged By GP

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.1		RWN	Reworked Natural - CLAY, grey/red, heterogeneous, dry, medium plasticity, firm	DR			
							SB18_0.10-0.20	2.2	No odour staining, asbestos.
		0.2							
		0.3							
		0.4							
		0.5					SB18_0.50-0.60	1.2	No odour staining, asbestos.
		0.6		RWN	Reworked Natural - silty CLAY, brown, heterogeneous, dry, medium plasticity, firm, inclusions of rootlets, potentially former topsoil	DR			
		0.7					SB18_0.70-0.80	2.4	No odour staining, asbestos.
		0.8							
		0.9							
		1							
		1.1		CL	Natural - CLAY, red/brown, homogenous, dry, medium plasticity, firm	DR	SB18_1.10-1.20	1.3	No odour staining, asbestos.
		1.2			Termination Depth at: 1.20 m.				End of hole at 1.2 m bgs. Program depth.
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

Comments:

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SOIL BOREHOLE SB19

Project Number 62742
Client Logos
Project Name Huntingwood SEARs
Address August St. Blacktown

Contractor Terratest
Date 11-May-22
Plant Geoprobe
Method Solid Flight Auger

Easting N/A
Northing N/A
Coordinate System GDA94_MGA_zone_54
Logged By GP

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
SFA		0.1		Fill	Fill - silty CLAY, brown, heterogenous, damp, medium plasticity, soft, inclusions of rootlets	DP	SB19_0.00-0.10	0.3	No odour, staining or asbestos. 10L AQ from 0-0.9 m bgs, no ACM observed.
		0.2		RWN	Reworked Natural - CLAY, grey/brown, heterogenous, damp, medium plasticity, soft, inclusions of gravels	DR			
		0.3					SB19_0.30-0.40	1.3	No odour staining, asbestos.
		0.4							
		0.5		CL	Natural - CLAY, grey/red, heterogenous, damp, medium plasticity, soft	DR	SB19_0.50-0.60	1.5	No odour staining, asbestos.
		0.6							
		0.7							
		0.8							
		0.9					SB19_0.90-1.00	1	No odour staining, asbestos.
		1			Termination Depth at: 1.00 m.				End of hole at 1.0 m bgs. Program depth.
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

Comments:

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SOIL BOREHOLE SB20

Project Number 62742
Client Logos
Project Name Huntingwood SEARs
Address August St. Blacktown

Contractor Terratest
Date 11-May-22
Plant Geoprobe
Method Solid Flight Auger

Easting N/A
Northing N/A
Coordinate System GDA94_MGA_zone_54
Logged By GP

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
SFA		0.1		Fill	Fill - SILTY CLAY, brown, heterogenous, damp, medium plasticity, soft	DP	SB20_0.00-0.10	2.2	No odour, staining or asbestos. 10L AQ from 0-0.8 m bgs, no ACM observed.
		0.2		RWN	Reworked Natural - CLAY, red, heterogenous, damp, medium plasticity, soft	DP			
		0.3					SB20_0.30-0.40	2.5	No odour staining, asbestos.
		0.4							
		0.5					SB20_0.50-0.60	3.1	No odour staining, asbestos.
		0.6							
		0.7							
		0.8		CL	Natural - CLAY, grey/red, homogenous, dry, medium plasticity, firm	DR			
		0.9							
		1					SB20_1.00-1.10	3.0	No odour staining, asbestos.
		1.1			Termination Depth at: 1.10 m.				End of hole at 1.1 m bgs. Program depth.
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

Comments:

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SOIL BOREHOLE SB21

Project Number 62742
Client Logos
Project Name Huntingwood SEARs
Address August St. Blacktown

Contractor Terratest
Date 11-May-22
Plant Geoprobe
Method Push Tube

Easting N/A
Northing N/A
Coordinate System GDA94_MGA_zone_54
Logged By GP

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.1		Fill	Fill - gravelly SAND, grey, heterogenous, damp, medium plasticity, soft	DP			
							SB21_0.10-0.20	15.3	Moderate odour, black staining, no asbestos.
		0.2		CL	Natural - CLAY, grey/red, homogenous, dry, medium plasticity, firm	DR	SB21_0.20-0.30	12.1	No odour staining, asbestos.
		0.3							
		0.4							
		0.5					SB21_0.50-0.60	2.1	No odour staining, asbestos.
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1					SB21_1.00-1.10	1.3	No odour staining, asbestos.
		1.2							End of hole at 1.2 m bgs. Program depth.
					Termination Depth at: 1.20 m.				
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

Comments:

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GROUNDWATER WELL MW01

Project Number 62742	**Contractor** Terratest	**Easting** N/A
Client Logos	**Date** 09-May-22	**Northing** N/A
Project Name Huntingwood SEARs	**Plant** Geoprobe	**Coordinate System** GDA94_MGA_zone_54
Address August St. Blacktown	**Method** Solid Flight Auger	**Logged By** HD

Ground Elevation N/A	**Permit No.** N/A	**Stickup** 1 m
Top of Casing Elevation N/A	**Borehole Depth** 7 m bgl	**Casing Description** Class 18 PVC - 50mm
Completion Standpipe	**Borehole Diameter** 150 mm	**Screen Interval** 4 - 7 m bgl

Drilling Method	Water (m bgl)	Well Details	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
SFA	▽		0.5		Fill	Fill - silty CLAY, dark brown, heterogenous, damp, low plasticity, firm, inclusions of plant rootlets and large angular gravels	DP	MW01_0.00-0.20	1.7	No odour, staining, asbestos. QAQC01 taken. 10L AQ 0-1.0 m bgs, no ACM observed.
					Fill		DR			
								MW01_0.20-0.30	8	
						Fill - silty CLAY, brown, heterogenous, dry, medium plasticity, firm, inclusions of plant rootlets and large angular gravels		MW01_0.50-0.60	2.7	No odour staining, asbestos.
			1		Fill	Fill - silty CLAY, brown, heterogenous, dry, medium plasticity, soft, inclusions of plant rootlets and large angular gravels	DR			No odour staining, asbestos.
								MW01_1.00-1.10	9.3	No odour, staining, asbestos. 10L AQ 1.0-1.7 m bgs, no ACM observed.
			1.5		RWN	Reworked Natural - gravelly CLAY, red-brown, heterogenous, damp, medium plasticity, soft, inclusions of small subangular gravels	DP			
								MW01_1.50-1.60	12.1	No odour staining, asbestos.
			2		CL	Natural - CLAY, light brown-orange, heterogenous, damp, medium plasticity, firm	DP			
								MW01_2.00-2.10	7.3	No odour staining, asbestos.
			2.5					MW01_2.50-2.60	4.8	No odour staining, asbestos.
			3		CL	Natural - CLAY, grey/brown, heterogenous, damp, medium plasticity, firm, inclusions of shale	DP	MW01_3.00-3.10	8.5	No odour staining, asbestos.
			3.5					MW01_3.50-3.60	8.1	No odour staining, asbestos.
			4		CL	Natural - CLAY, grey, heterogenous, damp, medium plasticity, soft	DP	MW01_4.00-4.10	7	No odour staining, asbestos.
			4.5		CL	Natural - CLAY, yellow/grey mottles, heterogenous, damp, medium plasticity, soft	DP	MW01_4.50-4.60	3.7	No odour staining, asbestos.
			5							No odour staining,

Comments:

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GROUNDWATER WELL MW01

Drilling Method	Water (m bgl)	MW01 Details	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
					CL	Natural - CLAY, yellow/grey mottles, heterogenous, saturated, medium plasticity, soft	S	MW01_5.00-5.10	3.9	asbestos.
			5.5		CL	Natural - CLAY, yellow, heterogenous, saturated, medium plasticity, soft, inclusions of shale gravels	S	MW01_5.50-5.60	8.3	No odour staining, asbestos.
			6		CL	Natural - CLAY, yellow, heterogenous, saturated, medium plasticity, soft	S	MW01_6.00-6.10	9.3	No odour staining, asbestos.
			6.5		Shale	Natural - SHALE, grey, heterogenous, dry, medium plasticity, soft	DR	MW01_6.50-6.60	2.1	No odour staining, asbestos.
			7			Termination Depth at: 7.00 m.		MW01_6.90-7.00	0.8	No odour staining, asbestos. End of hole at 7.0 m bgs. Program depth.
			7.5							
			8							
			8.5							
			9							
			9.5							
			10							
			10.5							
			11							
			11.5							

GROUNDWATER WELL MW02

Project Number 62742	**Contractor** Terratest	**Easting** N/A
Client Logos	**Date** 09-May-22	**Northing** N/A
Project Name Huntingwood SEARs	**Plant** Geoprobe	**Coordinate System** GDA94_MGA_zone_54
Address August St. Blacktown	**Method** Solid Flight Auger	**Logged By** RS

Ground Elevation N/A	**Permit No.** N/A	**Stickup** 1 m
Top of Casing Elevation N/A	**Borehole Depth** 11 m bgl	**Casing Description** Class 18 PVC - 50mm
Completion Standpipe	**Borehole Diameter** 150 mm	**Screen Interval** 8 - 11 m bgl

Drilling Method	Water (m bgl)	Well Details	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
SFA			0		Fill	Fill - silty gravelly CLAY, dark brown, heterogenous, damp, low plasticity, soft, inclusions of rootlets and gravels	DP	MW02_0.00-0.10	4.9	No odour staining, asbestos.
					Fill	Fill - silty CLAY, dark brown, heterogenous, damp, low plasticity, soft, inclusons of gravels, tiles, plastic, glass	DP	MW02_0.20-0.30	7.9	No odour staining, asbestos.
			0.5		Fill	Fill - silty CLAY, light brown, heterogenous, damp, low plasticity, soft, inclusions of gravels	DP	MW02_0.50-0.60	6.2	No odour staining, asbestos.
			1					MW02_1.00-1.10	6.1	No odour staining, asbestos.
			1.5		Fill	Fill - silty CLAY, light brown, heterogenous, damp, low plasticity, soft, trace inclusions of gravel	DP	MW02_1.50-1.60	6.6	No odour staining, asbestos.
			2		Fill	Fill - silty CLAY, dark brown, heterogenous, damp, low plasticity, soft, inclusions of gravels	DP	MW02_2.00-2.10	6.1	No odour staining, asbestos.
			2.5					MW02_2.50-2.60	6	Moderate hydrocarbon odour, no staining or asbestos.
			3					MW02_3.00-3.10	6.3	No odour staining, asbestos.
			3.5					MW02_3.50-3.60	5.4	No odour staining, asbestos.
			4		RWN	Reworked Natural - CLAY, yellow/brown, heterogenous, dry, medium plasticity, hard	DR	MW02_4.00-4.10	10.1	Slight odour, no staining or asbestos. 10L AQ from 1.30-2.10 m bgs, no ACM observed.
			4.5					MW02_4.50-4.60	10.7	No odour staining, asbestos.
			5							No odour staining,

Comments:

GROUNDWATER WELL MW02

Drilling Method	Water (m bgl)	Well Details	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
								MW02_5.00-5.10	10.8	asbestos.
			5.5		CL	Natural - CLAY, grey/brown, homogenous, dry, medium plasticity, firm, inclusions of weathered shale	DR	MW02_5.50-5.60	5.5	No odour staining, asbestos.
			6					MW02_6.00-6.10	5.2	No odour staining, asbestos.
			6.5		Shale	Natural - Weathered SHALE, grey, homogenous, dry, soft	DR	MW02_6.50-6.60	9.6	No odour staining, asbestos.
			7		CL	Natural - Weathered SHALE, grey/light brown, homogenous, dry, high plasticity, firm	DP	MW02_7.00-7.10	5.4	No odour staining, asbestos.
			7.5		CL	Natural - Weathered SHALE, grey, homogenous, damp, medium plasticity, soft	DP	MW02_7.50-7.60	7.6	No odour staining, asbestos.
			8					MW02_8.00-8.10	9.3	No odour staining, asbestos.
			8.5					MW02_8.50-8.60	2.1	No odour staining, asbestos.
	▽		9		CL	Natural - Weathered SHALE, grey, homogenous, saturated, medium plasticity, soft	S	MW02_9.00-9.10	2.4	No odour staining, asbestos.
			9.5					MW02_9.50-9.60	2.2	No odour staining, asbestos.
			10					MW02_10.00-10.	0.8	No odour staining, asbestos.
			10.5							
			11		CL	Natural - Weathered SHALE, grey, homogenous, dry, medium plasticity, soft	S	MW02_10.90-11.(	8.9	No odour staining, asbestos.
						Termination Depth at: 11.00 m.				End of hole at 11.0 m bgs. Program depth.
			11.5							

GROUNDWATER WELL MW03

Project Number 62742	**Contractor** Terratest	**Easting** N/A
Client Logos	**Date** 09-May-22	**Northing** N/A
Project Name Huntingwood SEARs	**Plant** Geoprobe	**Coordinate System** GDA94_MGA_zone_54
Address August St. Blacktown	**Method** Solid Flight Auger	**Logged By** HD
Ground Elevation N/A	**Permit No.** N/A	**Stickup** N/A
Top of Casing Elevation N/A	**Borehole Depth** 9.1 m bgl	**Casing Description** Class 18 PVC - 50mm
Completion Road box	**Borehole Diameter** 150 mm	**Screen Interval** 2 - 9 m bgl

Drilling Method	Water (m bgl)	Well Details	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
SFA			0		Fill	Fill - silty GRAVEL, brown, heterogenous, dry, fine gravel, angular, loose, inclusions of some plastic and sand	DR	MW03_0.00-0.20	1.4	No odour, staining or asbestos. 10L AQ from 0-0.8 m bgs, no ACM observed.
					Fill		DP			
			0.5			Fill - silty gravelly CLAY, brown, heterogenous, damp, medium plasticity, soft		MW03_0.30-0.40	2.2	
								MW03_0.50-0.60	1.7	No odour staining, asbestos.
										No odour staining, asbestos.
			1		CL	Natural - CLAY, red, homogenous, damp, high plasticity, soft	DP	MW03_1.00-1.10	1.6	No odour staining, asbestos.
			1.5		CL	Natural - CLAY, brown/grey/, mottled, damp, high plasticity, soft	DP	MW03_1.50-1.60	1.6	No odour staining, asbestos.
			2					MW03_2.00-2.10	1	No odour staining, asbestos.
			2.5		CL	Natural - CLAY, light brown, heterogenous, dry, low plasticity, soft	DP	MW03_2.50-2.60	1.6	No odour staining, asbestos.
			3					MW03_3.00-3.10	1.5	No odour staining, asbestos.
			3.5		CL	Natural - CLAY, light brown, heterogenous, dry, low plasticity, soft, inclusions of ironstone	DP	MW03_3.50-3.60	2.2	No odour staining, asbestos.
			4					MW03_4.00-4.10	0.8	No odour staining, asbestos.
			4.5		CL	Natural - CLAY, light brown, heterogenous, dry, low plasticity, soft, inclusions of ironstone	DP	MW03_4.50-4.60	1.4	No odour staining, asbestos.
			5							No odour staining,

Comments:

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GROUNDWATER WELL MW03

Drilling Method	Water (m bgl)	Well Details	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
								MW03_5.00-5.10	1.8	asbestos. QAQC02.
			5.5					MW03_5.50-5.60	1.2	No odour staining, asbestos.
			6					MW03_6.00-6.10	1.6	No odour staining, asbestos.
						Natural - CLAY, light brown, heterogenous, damp, low plasticity, soft, inclusions of ironstone	DP			
					CL					
			6.5		CL	Natural - CLAY, grey, homogenous, dry, low plasticity, soft	DR	MW03_6.50-6.60	1.4	No odour staining, asbestos.
			7					MW03_7.00-7.10	1.2	No odour staining, asbestos.
					Shale	Natural - SHALE, grey, homogenous, dry, well graded sub-rounded, loose	DR			
			7.5					MW03_7.50-7.60	1.1	No odour staining, asbestos.
			8					MW03_8.00-8.10	1	No odour staining, asbestos.
			8.5					MW03_8.50-8.60	1.1	No odour staining, asbestos.
			9					MW03_9.00-9.10	1.1	No odour staining, asbestos.
						Termination Depth at: 9.10 m.				End of hole at 9.0 m bgs. Program depth.
			9.5							
			10							
			10.5							
			11							
			11.5							

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GROUNDWATER WELL MW04

Project Number 62742
Client Logos
Project Name Huntingwood SEARs
Address August St. Blacktown

Contractor Terratest
Date 10-May-22
Plant Geoprobe
Method Solid Flight Auger

Easting N/A
Northing N/A
Coordinate System GDA94_MGA_zone_54
Logged By GP/HD

Ground Elevation N/A
Top of Casing Elevation N/A
Completion Road box

Permit No. N/A
Borehole Depth 10.1 m bgl
Borehole Diameter 150 mm

Stickup N/A
Casing Description Class 18 PVC - 50mm
Screen Interval 2 - 8 m bgl

Drilling Method	Water (m bgl)	Well Details	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
SFA			0		Fill	Fill - silty GRAVEL, brown, heterogeneous, damp, well graded dense, inclusions of igneous gravels and concrete	DP	MW04_0.00-0.20	0.6	No odour, staining or asbestos. 10L AQ from 0-0.5 m bgs, no ACM observed.
								MW04_0.30-0.40	0.7	
			0.5		CL	Natural - CLAY, red, homogenous, damp, medium plasticity, firm	DP	MW04_0.50-0.60	1.2	No odour staining, asbestos.
										No odour staining, asbestos.
			1		CL	Natural - CLAY, brown, homogenous, dry, medium plasticity, firm, no inclusions	DR	MW04_1.00-1.10	1.2	No odour staining, asbestos.
			1.5		CL	Natural - CLAY, light brown/grey, homogenous, damp, medium plasticity, firm	DP	MW04_1.50-1.60	0.2	No odour staining, asbestos.
			2					MW04_2.00-2.10	5.6	No odour staining, asbestos.
			2.5					MW04_2.50-2.60	3.6	No odour staining, asbestos.
			3		CL	Natural - CLAY, grey/brown, homogenous, dry, low plasticity, firm, inclusions of grey clay clusters	DR	MW04_3.00-3.10	5.4	No odour staining, asbestos.
			3.5		CL	Natural - CLAY, grey/brown, homogenous, dry, low plasticity, firm, inclusions of shale gravels	DR	MW04_3.50-3.60	3.4	No odour staining, asbestos.
			4					MW04_4.00-4.10	4.8	No odour staining, asbestos.
			4.5		CL	Natural - CLAY, grey/brown, homogenous, dry, low plasticity, firm, increased inclusions of shale gravels	DR	MW04_4.50-4.60	1.5	No odour staining, asbestos.
			5							No odour staining,

Comments:

Drilling Method	Water (m bgl)	Well Details	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
								MW04_5.00-5.10	0.8	asbestos.
			5.5					MW04_5.50-5.60	2.3	No odour staining, asbestos.
			6					MW04_6.00-6.10	1.3	No odour staining, asbestos.
			6.5					MW04_6.50-6.60	4.6	No odour staining, asbestos.
			7		CL	Natural - CLAY, grey/brown, homogenous, damp, low plasticity, firm, increased inclusions of shale gravels	DP	MW04_7.00-7.10	9.9	No odour staining, asbestos.
			7.5					MW04_7.50-7.60	10.4	No odour staining, asbestos.
			8		CL	Natural - CLAY, grey, homogenous, dry, low plasticity, firm, increased inclusions of shale gravels	DR	MW04_8.00-8.10	8.1	No odour staining, asbestos.
			8.5							
			9					MW04_9.00-9.10	4.1	No odour staining, asbestos.
			9.5		Shale	Natural - weathered SHALE, grey, homogenous, dry, firm	DR	MW04_9.50-9.60	1.7	No odour staining, asbestos.
			10		Shale	Natural - weathered SHALE, grey, homogenous, wet, firm	W	MW04_10.00-10.	4.5	No odour staining, asbestos.
			10.5			Termination Depth at: 10.10 m.				End of hole at 10.0 m bgs. Program depth. Hole collapsed to 8.0 m bgs during well installation.
			11							
			11.5							

TEST PIT TP01

Project Number 62742
Client Logos
Project Name Huntingwood SEARs
Address August St. Blacktown

Contractor Ken Coles
Date 11-May-22
Plant Excavator
Method Test Pit

Easting N/A
Northing N/A
Coordinate System GDA94_MGA_zone_54
Logged By MD

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2		Fill	Fill - Silty gravelly CLAY, light brown, heterogeneous, moist, low plasticity, soft, inclusion trace brick fragments and ash, some tiles/ceramics, concrete and plastic, slag	M	TP01_0.00-0.10	5.1	No odour, staining, asbestos. QA/QC04. 10L AQ from 0.00-1.00 m bgs, no ACM observed.
		0.4							
		0.6					TP01_0.50-0.60	4.9	No odour, staining, asbestos.
		0.8							
		1					TP01_1.00-1.10	5	No odour, staining, asbestos. 10L AQ from 1.00-1.30 m bgs, no ACM observed.
		1.2							
		1.4		Fill	Fill - Gravelly silty CLAY, light grey, heterogeneous, moist, low plasticity, soft, inclusion trace brick fragments and ash, some tiles/ceramics, concrete and plastic, slag, burnt timber	M			Slight odour, no staining or asbestos. 10L AQ from 1.30-2.10 m bgs, no ACM observed.
		1.6					TP01_1.50-1.60	6.2	
		1.8							
		2					TP01_2.00-2.10	6	No odour, staining, asbestos.
		2.2		CL	Natural - CLAY, grey, orange mottled, homogenous, damp, medium plasticity, stiff	DP			
		2.4							
		2.6					TP01_2.50-2.60	5.7	No odour, staining, asbestos.
		2.8							
		3					TP01_3.00-3.10	4.9	No odour, staining, asbestos.
		3.2							End of hole at 3.3 m bgs. Program depth.
		3.4			Termination Depth at: 3.30 m.				
		3.6							
		3.8							

Comments:

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TEST PIT TP02

Project Number 62742
Client Logos
Project Name Huntingwood SEARs
Address August St. Blacktown

Contractor Ken Coles
Date 11-May-22
Plant Excavator
Method Test Pit

Easting N/A
Northing N/A
Coordinate System GDA94_MGA_zone_54
Logged By MD

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2		Fill	Fill - Topsoil, gravelly SILT, dark brown, heterogeneous, moist, low plasticity, soft, medium gravel, sub-angular inclusion roots, concrete, trace slag, glass, ceramic	M	TP02_0.00-0.10	6.2	No odour, staining, asbestos. 10L AQ from 0.00-0.20 m bgs, no ACM observed. AQ-QA04.
		0.4		Fill	Fill - Gravelly silty CLAY, brown, heterogeneous, moist, low plasticity, soft, inclusion roots, concrete, trace slag, glass, ceramic, brick fragments, shale gravel	M			No odour, staining, asbestos. 10L AQ from 0.20-1.20 m bgs, no ACM observed.
		0.6					TP02_0.50-0.60	7.1	
		0.8							
		1					TP02_1.00-1.10	6.9	No odour, staining, asbestos.
		1.2		CL	Natural - Silty CLAY, red/light brown/grey mottling, homogenous, damp, medium plasticity, firm, inclusion shale gravels increasing at depth	DP			
		1.4							
		1.6					TP02_1.50-1.60	4	No odour, staining, asbestos.
		1.8							
		2					TP02_2.00-2.10	5	No odour, staining, asbestos.
		2.2							
		2.4							
		2.6					TP02_2.50-2.60	7.1	No odour, staining, asbestos.
		2.8			Termination Depth at: 2.60 m.				End of hole at 2.6 m bgs. Program depth.
		3							
		3.2							
		3.4							
		3.6							
		3.8							

Comments:

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TEST PIT TP03

Project Number 62742
Client Logos
Project Name Huntingwood SEARs
Address August St. Blacktown

Contractor Ken Coles
Date 11-May-22
Plant Excavator
Method Test Pit

Easting N/A
Northing N/A
Coordinate System GDA94_MGA_zone_54
Logged By MD

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2		Fill	Fill - Topsoil, gravelly SILT, dark brown, heterogeneous, moist, low plasticity, soft, medium gravel, sub-angular inclusion plant roots, concrete, slag, grass, ceramic, shale, plastic	M	TP03_0.00-0.10	5.5	No odour, staining, asbestos. 10L AQ from 0.00-0.10 m bgs, no ACM observed.
		0.4		RWN	Reworked Natural - Silty CLAY, orange-brown, heterogeneous, moist, medium plasticity, firm, inclusion medium angular gravel, plant roots, concrete, slag, grass, ceramic, shale, plastic	M			No odour, staining, asbestos. 10L AQ from 0.10-1.10 m bgs, no ACM observed.
		0.6					TP03_0.50-0.60	6	
		0.8							No odour, staining, asbestos. 10L AQ from 1.10-1.40 m bgs, no ACM observed.
		1					TP03_1.00-1.10	5.8	
		1.2							
		1.4		CL-ML	Silty CLAY, red/brown mottled, homogenous, damp, medium plasticity, stiff, inclusion shale gravels	DP			
		1.6					TP03_1.50-1.60	5	No odour, staining, asbestos.
		1.8							
		2					TP03_2.00-2.10	5.1	No odour, staining, asbestos.
		2.2							End of hole at 2.40 m bgs. Program depth.
		2.4			Termination Depth at: 2.40 m.				
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

Comments:

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TEST PIT TP04

Project Number 62742
Client Logos
Project Name Huntingwood SEARs
Address August St. Blacktown

Contractor Ken Coles
Date 11-May-22
Plant Excavator
Method Test Pit

Easting N/A
Northing N/A
Coordinate System GDA94_MGA_zone_54
Logged By MD

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2		Fill	Fill - Sandy SILT, dark brown, heterogeneous, moist, low plasticity, soft	M	TP04_0.00-0.10	0.6	No odour, staining, asbestos. 10L AQ from 0.00-0.10 m bgs, no ACM observed.
				Fill	Fill - Silty gravelly CLAY, grey/orange, heterogeneous, damp, medium plasticity, firm, inclusion tiles, brick, plastic fragments	DP	TP04_0.20-0.30	0.4	
		0.4		RWN	Reworked Natural - Silty CLAY, grey/light brown, heterogeneous, damp, medium plasticity, firm, inclusion brick fragments, medium angular fragments, burnt wood	DP			No odour, staining, asbestos. 10L AQ from 0.10-0.40 m bgs, no ACM observed
		0.6					TP04_0.50-0.60	0.5	
		0.8							No odour, staining, asbestos. 10L AQ from 0.40-1.40 m bgs, no ACM observed.
		1					TP04_1.00-1.10	0.5	No odour, staining, asbestos.
		1.2							
		1.4							No odour, staining, asbestos. 10L AQ from 1.40-1.70 m bgs, no ACM observed.
		1.6					TP04_1.50-1.60	0.4	
		1.8		CL	Natural - CLAY, orange/grey mottled, homogenous, damp, medium plasticity, stiff	DP			
		2					TP04_2.00-2.10	0.3	No odour, staining, asbestos.
		2.2			Termination Depth at: 2.10 m.				End of hole at 2.10 m bgs. Program depth.
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

Comments:

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TEST PIT TP05

Project Number 62742
Client Logos
Project Name Huntingwood SEARs
Address August St. Blacktown

Contractor Ken Coles
Date 11-May-22
Plant Excavator
Method Test Pit

Easting N/A
Northing N/A
Coordinate System GDA94_MGA_zone_54
Logged By MD

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2		Fill	Fill - Topsoil, gravelly sandy SILT, dark brown, heterogeneous, moist, low plasticity, soft, medium gravel, sub-angular inclusion roots, slag, concrete	M	TP05_0.00-0.10	7.2	No odour, staining, asbestos. 10L AQ from 0.00-0.20 m bgs, no ACM observed. AQ-QA04.
		0.4		Fill	Fill - Silty CLAY, grey/light brown/red, heterogeneous, damp, low plasticity, firm, inclusion gravel, slag, concrete, ceramics, plastic	DP			No odour, staining, asbestos. 10L AQ from 0.20-1.20 m bgs, no ACM observed.
		0.6					TP05_0.50-0.60	0.2	
		0.8							
		1					TP05_1.00-1.10	0.1	No odour, staining, asbestos.
		1.2							
		1.4		CL	Natural - Silty CLAY, light brown/grey/red mottled, homogenous, damp, medium plasticity, stiff, inclusion shale gravel at depth	DP			
		1.6					TP05_1.50-1.60	5.7	No odour, staining, asbestos.
		1.8							
		2					TP05_2.00-2.10	6.1	No odour, staining, asbestos.
		2.2			Termination Depth at: 2.10 m.				End of hole at 2.10 m bgs. Program depth
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

Comments:

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TEST PIT TP06

Project Number 62742
Client Logos
Project Name Huntingwood SEARs
Address August St. Blacktown

Contractor Ken Coles
Date 11-May-22
Plant Excavator
Method Test Pit

Easting N/A
Northing N/A
Coordinate System GDA94_MGA_zone_54
Logged By MD

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2		Fill	Fill - Sandy SILT, dark brown, heterogeneous, moist, low plasticity, soft, inclusion timber shees, branches, brick fragments, plastics, PVC, concrete, copper pipes, slag	M	TP06_0.00-0.10	5.2	No odour, staining, asbestos. 10L AQ from 0.00-1.00 m bgs, no ACM observed.
		0.4							
		0.6					TP06_0.50-0.60	4.9	No odour, staining, asbestos.
		0.8							
		1					TP06_1.00-1.10	4.6	No odour, staining, asbestos. 10L AQ from 0.00-1.00 and 1.00-1.90 m bgs, no ACM observed
		1.2							
		1.4							
		1.6					TP06_1.50-1.60	5.1	No odour, staining, asbestos.
		1.8							
		2		RWN	Reworked Natural - Silty CLAY, grey, red, heterogeneous, damp, medium plasticity, stiff, inclusion timber shees, branches, brick fragments, plastics, concrete, copper pipes	DP	TP06_2.00-2.10	5	No odour, staining, asbestos. 10L AQ from 1.90-2.80 m bgs, no ACM observed
		2.2							
		2.4							
		2.6					TP06_2.50-2.60	5.3	No odour, staining, asbestos.
		2.8		CL	Natural - CLAY, red-grey mottled, homogenous, damp, medium plasticity, stiff	DP			
		3					TP06_3.00-3.10	0.2	No odour, staining, asbestos
		3.2							End of hole at 3.20 m bgs. Program depth.
		3.4			Termination Depth at: 3.20 m.				
		3.6							
		3.8							

Comments:

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TEST PIT TP07

Project Number 62742
Client Logos
Project Name Huntingwood SEARs
Address August St. Blacktown

Contractor Ken Coles
Date 11-May-22
Plant Excavator
Method Test Pit

Easting N/A
Northing N/A
Coordinate System GDA94_MGA_zone_54
Logged By MD

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2		Fill	Fill - Sandy SILT, dark brown, heterogeneous, moist, low plasticity, soft, inclusion roots, gravel	M	TP07_0.00-0.10	1.6	No odour, staining, asbestos. 10L AQ from 0.00-0.20 m bgs, no ACM observed.
		0.4		Fill	Fill - Silty CLAY, grey/light brown, heterogeneous, damp, medium plasticity, firm, inclusion gravels	DP			No odour, staining, asbestos. 10L AQ from 0.20-1.10 m bgs, no ACM observed.
		0.6					TP07_0.50-0.60	2.5	
		0.8							
		1					TP07_1.00-1.10	1.3	No odour, staining, asbestos. 10L AQ from 1.10-2.00 m bgs, no ACM observed.
		1.2		RWN	Reworked Natural - Silty CLAY, grey/light brown, heterogeneous, damp, medium plasticity, firm, inclusion shales, gravels, organic matter	DP			
		1.4							Organic/rotting odour present. No staining or asbestos.
		1.6					TP07_1.50-1.60	2.6	
		1.8							
		2		CL	Natural - Silty CLAY, light brown/red mottled, heterogeneous, damp, medium plasticity, firm	DP	TP07_2.00-2.10	1.9	No odour, staining, asbestos.
		2.2							
		2.4							
		2.6					TP07_2.50-2.60	2	No odour, staining, asbestos.
									End of hole at 2.70 m bgs. Program depth.
		2.8			Termination Depth at: 2.70 m.				
		3							
		3.2							
		3.4							
		3.6							
		3.8							

Comments:

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TEST PIT TP08

Project Number 62742
Client Logos
Project Name Huntingwood SEARs
Address August St. Blacktown

Contractor Ken Coles
Date 11-May-22
Plant Excavator
Method Test Pit

Easting N/A
Northing N/A
Coordinate System GDA94_MGA_zone_54
Logged By MD

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2		Fill	Fill - Gravelly sandy CLAY, dark brown, heterogeneous, moist, low plasticity, soft, fine gravel /course sand	M	TP08_0.00-0.10	4.4	No odour, staining, asbestos. 10L AQ from 0.00-0.40 m bgs, no ACM observed. AQ-QA/QC05.
		0.4		Fill	Fill - Silty CLAY, brown, heterogeneous, damp, low to medium plasticity, firm, inclusion asphalt, gravels, PVC fragment, timber	DP			
		0.6					TP08_0.50-0.60	3.3	No odour, staining, asbestos. 10L AQ from 0.40-1.40 m bgs, no ACM observed.
		0.8							
		1							
		1.2					TP08_1.00-1.10	3.6	No odour, staining, asbestos. 10L AQ from 1.40-1.80 m bgs, no ACM observed.
		1.4							
		1.6					TP08_1.50-1.60	3.1	No odour, staining, asbestos.
		1.8		RWN	Reworked Natural - Silty CLAY, red/grey, heterogeneous, damp, high plasticity, stiff, inclusion gravels, timber	DP			
		2					TP08_2.00-2.10	4.3	No odour, staining, asbestos. 10L AQ from 1.80-2.80 m bgs, no ACM observed.
		2.2							
		2.4							
		2.6					TP08_2.50-2.60	5.1	No odour, staining, asbestos. 10L AQ from 2.80-3.80 m bgs, no ACM observed.
		2.8							
		3					TP08_3.00-3.10	4.7	No odour, staining, asbestos.
		3.2							
		3.4							
		3.6					TP08_3.50-3.60	5	No odour, staining, asbestos.
		3.8							End of hole at 3.80 m bgs. Refusal due to max reach on excavator.
					Termination Depth at: 3.80 m.				

Comments:

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TEST PIT TP09

Project Number 62742
Client Logos
Project Name Huntingwood SEARs
Address August St. Blacktown

Contractor Ken Coles
Date 11-May-22
Plant Excavator
Method Test Pit

Easting N/A
Northing N/A
Coordinate System GDA94_MGA_zone_54
Logged By MD

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2		Fill	Fill - Gravelly sandy CLAY, dark brown, heterogeneous, moist, low plasticity, soft, coarse sand, fine gravels inclusion roots, asphalt	M	TP09_0.00-0.10	4.2	No odour, staining, asbestos. 10L AQ from 0.00-0.40 m bgs, no ACM observed. AQ-QA/QC05.
		0.4		Fill	Fill - Silty CLAY, light brown, heterogeneous, damp, medium plasticity, firm, inclusion gravels, bricks, plastic, timber	DP			No odour, staining, asbestos. 10L AQ from 0.40-1.10 m bgs, no ACM observed.
		0.6					TP09_0.50-0.60	5.8	
		0.8							
		1					TP09_1.00-1.10	6.3	No odour, staining, asbestos. 10L AQ from 1.10-2.10m bgs, no ACM observed.
		1.2		RWN	Reworked Natural - Silty CLAY, light brown/grey/red mottled, heterogeneous medium plasticity, stiff, inclusion gravels				
		1.4							
		1.6					TP09_1.50-1.60	5.4	No odour, staining, asbestos.
		1.8							
		2							No odour, staining, asbestos. 10L AQ from 2.10-2.70 m bgs, no ACM observed.
		2.2					TP09_2.00-2.10	5.8	
		2.4							
		2.6					TP09_2.50-2.60	5.8	No odour, staining, asbestos.
									End of hole at 2.70 m bgs - Refusal due to service observed.
		2.8			Termination Depth at: 2.70 m.				
		3							
		3.2							
		3.4							
		3.6							
		3.8							

Comments:

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TEST PIT TP10

Project Number 62742
Client Logos
Project Name Huntingwood SEARs
Address August St. Blacktown

Contractor Ken Coles
Date 11-May-22
Plant Excavator
Method Test Pit

Easting N/A
Northing N/A
Coordinate System GDA94_MGA_zone_54
Logged By MD

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2		Fill	Fill - Topsoil, sandy SILT, dark brown, heterogeneous, moist, medium plasticity, soft, inclusion roots, gravel	M	TP10_0.00-0.10	0.5	No odour, staining, asbestos. 10L AQ from 0.00-0.30 m bgs, no ACM observed.
		0.4		Fill	Fill - Silty CLAY, brown, heterogeneous, damp, low to medium plasticity, firm, inclusion concrete, gravel, bricks, timber	DP			No odour, staining, asbestos. 10L AQ from 0.30-1.30 m bgs, no ACM observed.
		0.6					TP10_0.50-0.60	4.7	
		0.8							
		1					TP10_1.00-1.10	5.2	No odour, staining, asbestos.
		1.2							
		1.4		CL	Natural - Silty CLAY, light brown/grey, homogenous, damp, medium plasticity, firm	DP			
		1.6					TP10_1.50-1.60	3.3	No odour, staining, asbestos.
									End of hole at 1.70 m bgs. Program depth.
		1.8			Termination Depth at: 1.70 m.				
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

Comments:

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TEST PIT HA01

PROJECT NUMBER 64632	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME Huntingwood DD	**DRILLING DATE** 20-Feb-23	**NORTHING** N/A
CLIENT Logos	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS August St. Blacktown	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIMENSIONS x m	**LOGGED BY** DR

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA				Fill	Fill - GRAVEL dry, medium gravel, angular	DR			No odour, staining or ACM.
HA		0.1		CL	Natural - CLAY, orange/red, homogenous, damp, high plasticity, firm, with inclusions of trace fine grey sand	DP	HA01_0.00-0.10	0	No odour, staining or ACM. 10L AQ completed from 0.05-1mbgs.
		0.2							
		0.3							
		0.4							
		0.5					HA01_0.50-0.60	0.6	
		0.6							
		0.7							
		0.8							
		0.9					HA01_0.90-1.00	0.5	
		1			Termination Depth at: 1.00 m.				End of hole @ 1.0 mbgs - Program Depth.
		1.1							
		1.2							
		1.3							
		1.4							

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TEST PIT HA02

PROJECT NUMBER 64632	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME Huntingwood DD	**DRILLING DATE** 20-Feb-23	**NORTHING** N/A
CLIENT Logos	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS August St. Blacktown	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIMENSIONS x m	**LOGGED BY** DR

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA				Fill	Fill - GRAVEL, dark brown, heterogeneous, dry, medium plasticity, firm, with inclusions of plastic and gravel	DR			No odour, staining or ACM.
HA		0.1		Fill	Fill - CLAY damp, medium gravel, angular	DP	HA02_0.00-0.10	0	No odour, staining or ACM. 10L AQ completed from 0.05-0.03 mbgs.
		0.2							
		0.3							
HA		0.4		CL	Natural - CLAY, orange/red, homogenous, damp, high plasticity, firm, with inclusions of trace fine grey sand	DP			No odour, staining or ACM. 10L AQ completed from 0.03-1 mbgs. 20230220QA01 taken at 0.05-0.06 mbgs.
		0.5					HA02_0.50-0.60	0.1	
		0.6							
		0.7							
		0.8							
		0.9					HA02_0.90-1.00	0.5	
		1			Termination Depth at: 1.00 m.				End of hole @ 1.0 mbgs - Program Depth.
		1.1							
		1.2							
		1.3							
		1.4							

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Appendix L Statistical Analysis

UCL Statistics for Uncensored Full Data Sets

User Selected Options	
Date/Time of Computation	29/06/2022 10:15:54 AM
From File	WorkSheet.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Lead

General Statistics

Total Number of Observations	99	Number of Distinct Observations	53
		Number of Missing Observations	0
Minimum	8	Mean	79.17
Maximum	1600	Median	38
SD	193.1	Std. Error of Mean	19.4
Coefficient of Variation	2.439	Skewness	6.65

Normal GOF Test

Shapiro Wilk Test Statistic	0.299	Shapiro Wilk GOF Test
5% Shapiro Wilk P Value	0	Data Not Normal at 5% Significance Level
Lilliefors Test Statistic	0.356	Lilliefors GOF Test
5% Lilliefors Critical Value	0.089	Data Not Normal at 5% Significance Level

Data Not Normal at 5% Significance Level

Assuming Normal Distribution

95% Normal UCL		95% UCLs (Adjusted for Skewness)	
95% Student's-t UCL	111.4	95% Adjusted-CLT UCL (Chen-1995)	124.9
		95% Modified-t UCL (Johnson-1978)	113.6

Gamma GOF Test

A-D Test Statistic	10.26	Anderson-Darling Gamma GOF Test
5% A-D Critical Value	0.783	Data Not Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.279	Kolmogrov-Smirnoff Gamma GOF Test
5% K-S Critical Value	0.0927	Data Not Gamma Distributed at 5% Significance Level

Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE)	0.988	k star (bias corrected MLE)	0.965
Theta hat (MLE)	80.1	Theta star (bias corrected MLE)	82.03
nu hat (MLE)	195.7	nu star (bias corrected)	191.1
MLE Mean (bias corrected)	79.17	MLE Sd (bias corrected)	80.59
		Approximate Chi Square Value (0.05)	160.1
Adjusted Level of Significance	0.0476	Adjusted Chi Square Value	159.7

Assuming Gamma Distribution

95% Approximate Gamma UCL (use when n>=50))	94.49	95% Adjusted Gamma UCL (use when n<50)	94.74

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.879	Shapiro Wilk Lognormal GOF Test
5% Shapiro Wilk P Value	3.083E-11	Data Not Lognormal at 5% Significance Level

	A	B	C	D	E	F	G	H	I	J	K	L
54				Lilliefors Test Statistic		0.173		Lilliefors Lognormal GOF Test				
55				5% Lilliefors Critical Value		0.089		Data Not Lognormal at 5% Significance Level				
56				Data Not Lognormal at 5% Significance Level								
57												
58						Lognormal Statistics						
59				Minimum of Logged Data		2.079				Mean of logged Data		3.787
60				Maximum of Logged Data		7.378				SD of logged Data		0.819
61												
62						Assuming Lognormal Distribution						
63				95% H-UCL		73.34				90% Chebyshev (MVUE) UCL		78.72
64				95% Chebyshev (MVUE) UCL		86.55				97.5% Chebyshev (MVUE) UCL		97.42
65				99% Chebyshev (MVUE) UCL		118.8						
66												
67						Nonparametric Distribution Free UCL Statistics						
68						Data do not follow a Discernible Distribution (0.05)						
69												
70						Nonparametric Distribution Free UCLs						
71				95% CLT UCL		111.1				95% Jackknife UCL		111.4
72				95% Standard Bootstrap UCL		110.5				95% Bootstrap-t UCL		202.6
73				95% Hall's Bootstrap UCL		254.5				95% Percentile Bootstrap UCL		112.6
74				95% BCA Bootstrap UCL		134.9						
75				90% Chebyshev(Mean, Sd) UCL		137.4				95% Chebyshev(Mean, Sd) UCL		163.7
76				97.5% Chebyshev(Mean, Sd) UCL		200.3				99% Chebyshev(Mean, Sd) UCL		272.2
77												
78						Suggested UCL to Use						
79				95% Chebyshev (Mean, Sd) UCL		163.7						
80												
81						Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.						
82						These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)						
83						and Singh and Singh (2003). However, simulations results will not cover all Real World data sets.						
84						For additional insight the user may want to consult a statistician.						
85												

ProUCL 5.0 - [WorkSheet.xls]

File Edit Stats/Sample Sizes Graphs Statistical Tests Upper Limits/BTVs UCLs/EPCs Windows Help

Navigation Panel

Name

WorkSheet.xls

UCLsNoNDsAll.xls

	0	1	2	3	4	5	6	7	8	9	10	11
	Lead											
1	39											
2	23											
3	31											
4	33											
5	37											
6	49											
7	62											
8	55											
9	46											
10	88											
11	35											
12	40											
13	42											
14	210											
15	54											
16	56											
17	27											
18	40											
19	35											
20	36											
21	110											
22	24											
23	1100											
24	32											
25	30											
26	48											
27	40											
28	21											
29	85											
30	49											
31	9											
32	110											
33	19											
34	20											
35	17											
36	21											
37	49											
38	35											
39	12											
40	22											
41	8											
42	32											

File Edit Stats/Sample Sizes Graphs Statistical Tests Upper Limits/BTVs UCLs/EPCs Windows Help

Navigation Panel

Name
WorkSheet.xls
UCLsNoNDsAll.xls

	0	1	2	3	4	5	6	7	8	9
	Lead									
40	22									
41	8									
42	32									
43	39									
44	54									
45	38									
46	36									
47	1600									
48	25									
49	26									
50	48									
51	27									
52	23									
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55	38									
56	34									
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62	24									
63	32									
64	32									
65	56									
66	20									
67	23									
68	56									
69	22									
70	29									
71	20									
72	20									
73	30									
74	17									
75	43									
76	40									
77	25									
78	30									
79	56									
80	43									
81	160									

ProUCL 5.0 - [WorkSheet.xls]

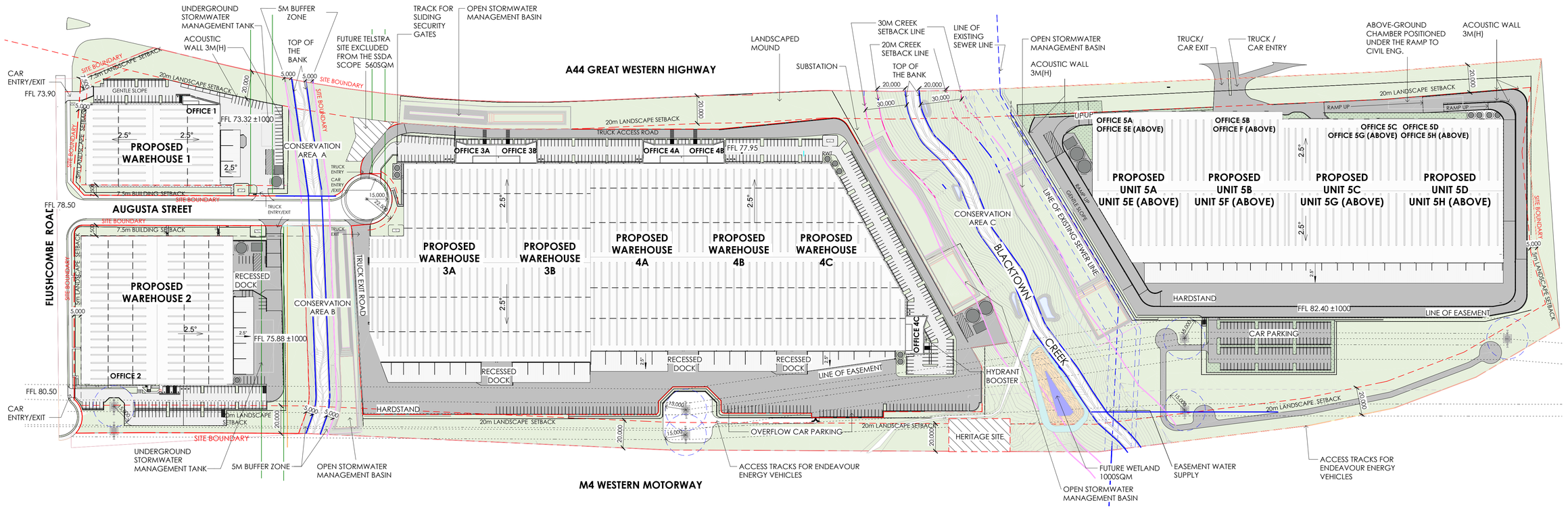
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Navigation Panel

Name
WorkSheet.xls
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	Lead									
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94	75									
95	190									
96	330									
97	79									
98	180									
99	130									
100										
101										
102										
103										

Appendix M Proposed Consolidated Lots



1 MASTERPLAN

1 : 1500

NOTE 1:
METHOD OF MEASUREMENT OF **GFA (GROSS FLOOR AREA)** IS AS FOLLOW:
- MEASURED FROM INTERNAL FACE OF EXTERNAL WALLS.
- INCLUDED MEZZANINES AND ANY HABITABLE ROOMS IN THE BASEMENTS
-VERTICAL CIRCULATION SUCH AS LIFTS AND STAIRS:
EXCLUDED - IF SHARED BETWEEN TENANCIES
INCLUDED - IF EXCLUSIVE FOR ONE TENANT
- EXCLUDED BASEMENTS UNLESS THEY ARE HABITABLE ROOM
- EXCLUDE GARBAGE AREAS, SPACES USED EXCLUSIVELY FOR SERVICE SUCH AS DUCTING, PLANT ROOMS, LIFT MOTOR ROOMS AND CAR PARKING
- TERRACES AND BALCONIES:
EXCLUDED - IF OUTER WALL IS LESS THEN 1.4m HIGH
INCLUDED - IF OUTER WALL IS MORE THEN 1.4m HIGH
- EXCLUDED VOIDS AT ANY LEVEL THEY OCCUR

NOTE2:
PARKING CALCULATION (BASED ON GFA):
- INDUSTRIAL/ WAREHOUSE: BUILDING 7,500SQM OR LESS– 1 SPACE PER 100SQM GFA.
- BUILDING GREATER THAN 7,500SQM GFA– 1 SPACE PER 200SQM GFA ONLY FOR THE AREA IN EXCESS OF 7,500SQM WHERE THERE IS SPECIFIC END USER WHICH WOULD NOT DEMAND A HIGHER RATE AND WHERE EMPLOYEE PARKING IS ADEQUATELY CATERED FOR.
- COMMERCIAL: 1 SPACE PER 40SQM GFA
NUMBER OF DISABLED CAR PARKS AT LEAST %2 OR PART THEREOF OF THOSE SPACES.

NOTE3:
MOTORCYCLE PARKING CALCULATION (BASED ON CAR PARKING NUMBER):
EACH 50 CAR PARKS, ONE MOTORCYCLE PARK

BUILDING 1

DEVELOPMENT SUMMARY (BLDG1) - GFA	
Name	Area
OFFICE 1	399 m²
OFFICE 1 LOBBY	75 m²
WAREHOUSE 1	5461 m²
Grand total	5935 m²

AWNING 15M (BLDG1)	511 m²
HEAVY DUTY PAVEMENT (BLDG 1)	3074 m²
LIGHT DUTY PAVEMENT (BLDG 1)	1352 m²

PROVIDED PARKING SCHEDULE (BLDG1)		
Family	Type	Count
PK-CP1	5400 x 2500 - 90 deg	43
PK-CP3	5400 x 2500 - (Accessible)	2
PK-CP2	5400 x 2500 - (Backup)	25
PK-CP7	5400 x 2500 - EV CAR	3
Grand total		73
TOTAL CAR PARK REQUIRED		67

PROVIDED MOTORCYCLE PARKING (BLDG1)		
Family	Type	Count
PK-CP8	2500 x 1200 (MOTORCYCLE)	2
Grand total		2

BUILDING 2

DEVELOPMENT SUMMARY (BLDG2) - GFA	
Name	Area
OFFICE 2	363 m²
WAREHOUSE 2	11668 m²
Grand total	12031 m²

AWNING 10M (BLDG 2)	834 m²

HEAVY DUTY PAVEMENT (BLDG 2)	4035 m²
LIGHT DUTY PAVEMENT (BLDG 2)	2789 m²

PROVIDED PARKING SCHEDULE (BLDG2)		
Family	Type	Count
PK-CP1	5400 x 2500 - 90 deg	83
PK-CP3	5400 x 2500 - (Accessible)	3
PK-CP2	5400 x 2500 - (Backup)	17
PK-CP7	5400 x 2500 - EV CAR	3
Grand total		106
TOTAL CAR PARK REQUIRED		104

PROVIDED MOTORCYCLE PARKING (BLDG2)		
Family	Type	Count
PK-CP8	2500 x 1200 (MOTORCYCLE)	3
Grand total		3

BUILDING 3 BUILDING 4

DEVELOPMENT SUMMARY (BLDG3&4) - GFA	
Name	Area
OFFICE 3A	441 m²
OFFICE 3A LOBBY	42 m²
OFFICE 3B	439 m²
OFFICE 3B LOBBY	42 m²
OFFICE 4A	441 m²
OFFICE 4A LOBBY	42 m²
OFFICE 4B	441 m²
OFFICE 4B LOBBY	42 m²
OFFICE 4C	415 m²
OFFICE 4C LOBBY	66 m²
WAREHOUSE 3A	11703 m²
WAREHOUSE 3B	9733 m²
WAREHOUSE 4A	9093 m²
WAREHOUSE 4B	9088 m²
WAREHOUSE 4C	9838 m²
Grand total	51866 m²

AWNING 5M (BLDG 4)	56 m²
AWNING 15M (BLDG 3)	1834 m²
AWNING 15M (BLDG 4)	2183 m²
HEAVY DUTY PAVEMENT (BLDG 3&4)	23244 m²
LIGHT DUTY PAVEMENT (BLDG 3&4)	8114 m²

PROVIDED PARKING SCHEDULE (BLDG3&4)		
Family	Type	Count
PK-CP1	5400 x 2500 - 90 deg	211
PK-CP3	5400 x 2500 - (Accessible)	10
PK-CP2	5400 x 2500 - (Backup)	113
PK-CP7	5400 x 2500 - EV CAR	12
Grand total		346
TOTAL CAR PARK REQUIRED		338

PROVIDED MOTORCYCLE PARKING (BLDG3&4)		
Family	Type	Count
PK-CP8	2500 x 1200 (MOTORCYCLE)	7
Grand total		7

BUILDING 5

DEVELOPMENT SUMMARY (BLDG5) - GFA	
Name	Area
OFFICE 5A	499 m²
OFFICE 5B	401 m²
OFFICE 5C	393 m²
OFFICE 5D	387 m²
OFFICE 5E	476 m²
OFFICE 5F	385 m²
OFFICE 5G	377 m²
OFFICE 5H	372 m²
UNIT 5A	9452 m²
UNIT 5B	7492 m²
UNIT 5C	6936 m²
UNIT 5D	7349 m²
UNIT 5E	9450 m²
UNIT 5F	7454 m²
UNIT 5G	6929 m²
UNIT 5H	6381 m²
Grand total	64733 m²

AWNING 15M (BLDG5)	3847 m²
HEAVY DUTY PAVEMENT (BLDG 5)	26063 m²
LIGHT DUTY PAVEMENT (BLDG 5)	26845 m²

PROVIDED PARKING SCHEDULE (BLDG5)		
Family	Type	Count
PK-CP1	5400 x 2500 - 90 deg	267
PK-CP2	5400 x 2500 - (Backup)	120
PK-CP3	5400 x 2500 - (Disable)	12
PK-CP7	5400 x 2500 - EV CAR	14
PK-CP5	5900 x 2500 - 0 deg (PARALLEL PARKING)	13
Grand total		426
TOTAL CAR PARK REQUIREE (EXCLUDING BACKUP)		288

PROVIDED MOTORCYCLE PARKING (BLDG5)		
Family	Type	Count
PK-CP8	2500 x 1200 (MOTORCYCLE)	11
Grand total		11

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Augusta St Warehouse and Distribution Centre
Augusta St, Blacktown within Blacktown

FOR APPROVAL

REVISION	DESCRIPTION	DATE
A	FOR SSDA SUBMISSION	23.06.23
B	TEST OF ADEQUACY UPDATES	11.08.23
C	TEST OF ADEQUACY UPDATES	18.08.23
D	TEST OF ADEQUACY UPDATES	21.08.23

ARCHITECT: PACE ARCHITECTS
BUILDER / PROJECT MANAGER:
CLIENT: LOGOS

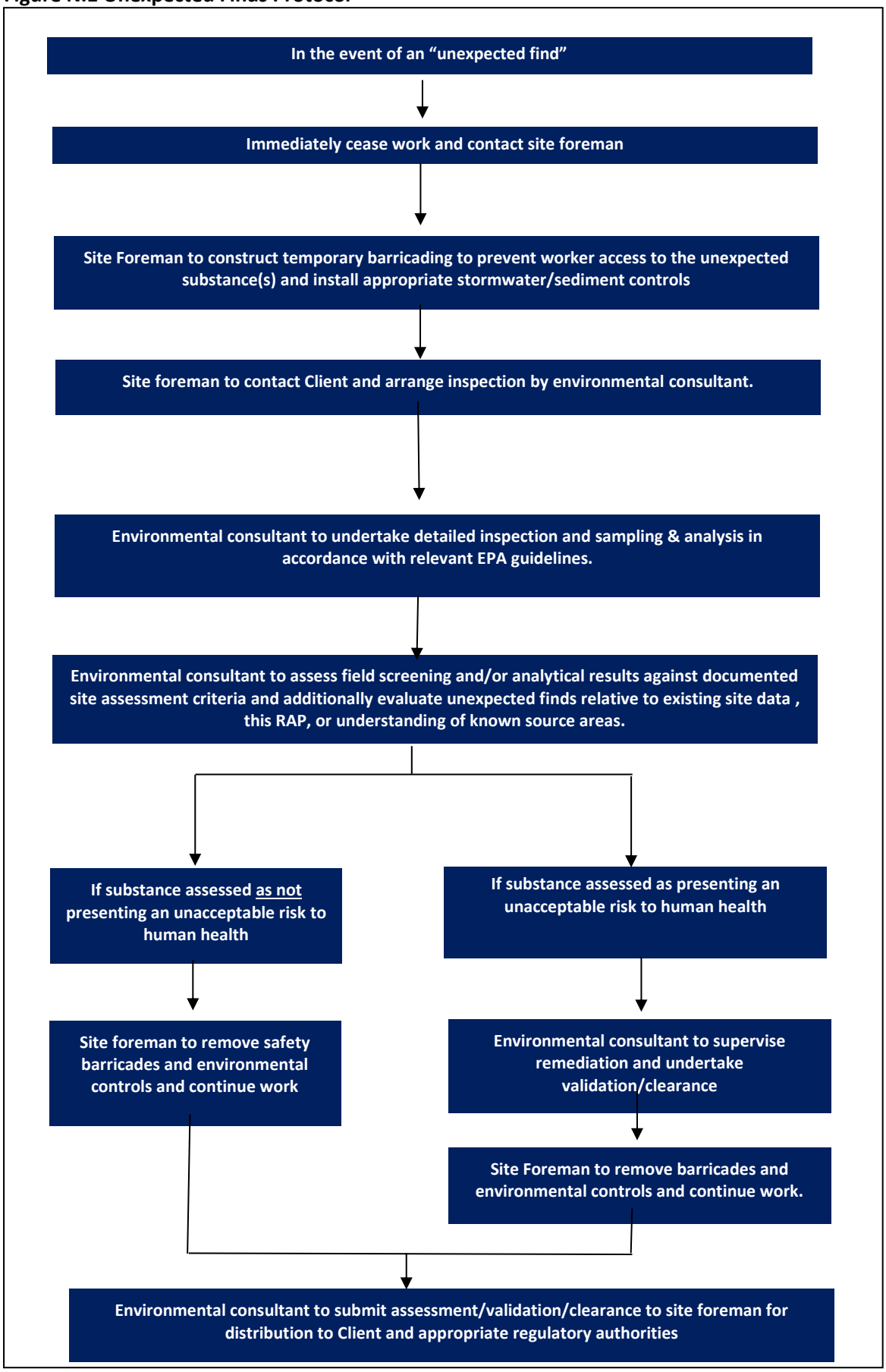
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purpose: FOR APPROVAL
H- MASTERPLAN

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project no: 220207
date: 21.08.23
dwn: BH
dwg no: 220207 - DA-001
issue: D

Appendix N Unexpected Finds Protocol

Figure N.1 Unexpected Finds Protocol



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Document Status

Rev No.	Author	Reviewer	Approved for Issue		
		Name	Name	Signature	Date
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B	Julia Nicholson	Greg Dasey	Draft for client review	Draft for client review	22 July 2022
0	Chris Bielby	Greg Dasey (CEnvP)	Greg Dasey (CEnvP)		22 June 2023
1	Chris Bielby	Greg Dasey (CEnvP)	Greg Dasey (CEnvP)		22 August 2023

